CANRIG

CANRIG DRILLING TECHNOLOGY LTD

DATE: January 26, 1994

SUBJECT:	Shimming of the lower gearcase bearing on two-speed top drive units.
SERIAL NUMBERS:	006
DISCUSSION:	The original shimming of the lower gearcase bearing may be inadequate to maintain proper bearing clearance. On S/N 006, this may have caused the bearing to run hot, causing deterioration of the adjacent seals.
RECOMMENDATION:	Install a new shim, P/N 731-52-0, furnished by Canrig. Refer to Drawing D-1-731-01-1 in the manual; install the shim between the Lower Bearing Seat (Item 5, P/N C-3-731-14-0) and the Gearcase (Item 2, P/N D-3-731-11-0). Remove any existing shims.

Installation procedure (refer to Dwg D-1-731-01-1):

1.   Remove the Retaining Ring (85).
2.   Remove the Split Ring Retainer (16).
3.   Remove the Split Ring (13) and the Thrust Washer (15).
4.   Remove the guard from the pipe handler hydraulic manifold.
5.   Unpin the brace from the core recovery platform to the pipe handler.
6.   Disconnect the hydraulic P & T lines to the pipe handler.
7.   Disconnect the 20 C control cable to the pipe handler.
8.   Remove the 4 bolts holding the pipe handler assembly to the gearcase.
9.   Remove the pipe handler assembly.
10.   Remove the Lower Seal Housing (4).
11.   Remove the 2 flat head bolts holding the Lower Bearing Seat (5) to the gearcase.
12.   Using three 1/2 inch bolts in the threaded holes, pull the Lower Bearing Seat (5) down about 1/4 inch.
13.   Remove any existing shims and install the new shim set (split, P/N 731-52-0). Orient the shim to align the holes to the bolt holes.
14.   Re-install the flat-head bolts; torque to 45 ft-lb.
15.   Complete the assembly as the reverse of disassembly.

INFORMATION:
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