PRODUCT BULLETIN NUMBER: 08

CANRIG DRILLING TECHNOLOGY LTD

DATE: 6-18-93

SUBJECT: Pressure Adjustment of Link Tilt Cylinders

SERIAL NUMBERS: 007

DISCUSSION: We have discovered that the relief valve on the extended side of the link tilt cylinders may be set too high. The correct pressure setting is 600psi. The procedure for setting the pressure is as follows:

i) Locate the test point stamped "E" on the rotary manifold (see drawing D-1682-01-1 in Section 5 of the Parts Book). Attach a P-Check gauge at this location.
ii) With no load in the elevators completely extend the link tilt cylinders.
iii) Observe the pressure of the gauge. It should read 600 psi while the switch is held in the extended position.
iv) If the pressure setting is correct no further action is required. If the pressure is not correct continue with this procedure
v) Locate the Link Tilt Float valve stack on the top drive. (See Parts Book drawing D-4-698-001-2 in Section 5 of the Parts Book) It is located on the off drilllers end of the five valve bank (the middle bank).
vi) The relief valve is the lowest valve on the stack. (i.e. adjacent to the manifold). It has an adjustment on each side, which is probably covered by a plastic cap.
vii) Extend should be the adjustment on the forward side. Remove the plastic cap and loosen the 24mm locknut ½ turn while holding a 10mm wrench on the adjustment screw.
viii) Have someone hold the link tilt switch in the extended position while the adjustment screw on the relief valve is slowly crewed out (counter clockwise). Count the number of turns the adjustment is unscrewed.
ix) The pressure on the P-test gauge should begin to drop. If the pressure is not dropping after 3 turns on the adjustment screw, turn it back to its original position, tighten the locknut and adjust the opposite side of the relief valve instead.
x) Reduce the pressure to 600psi. Tighten the locknut and re-check the pressure. REMEMBER TO HAVE THE LINK TILT SWITCH HELD IN THE EXTEND POSITION WHEN CHECKING OR ADJUSTING THIS PRESSURE.
xi) To summarize, the extend relief setting should be 600 psi and the retract relief setting should be 2000 psi.

A revised schematic showing the correct pressure setting will be issued.

INFORMATION :

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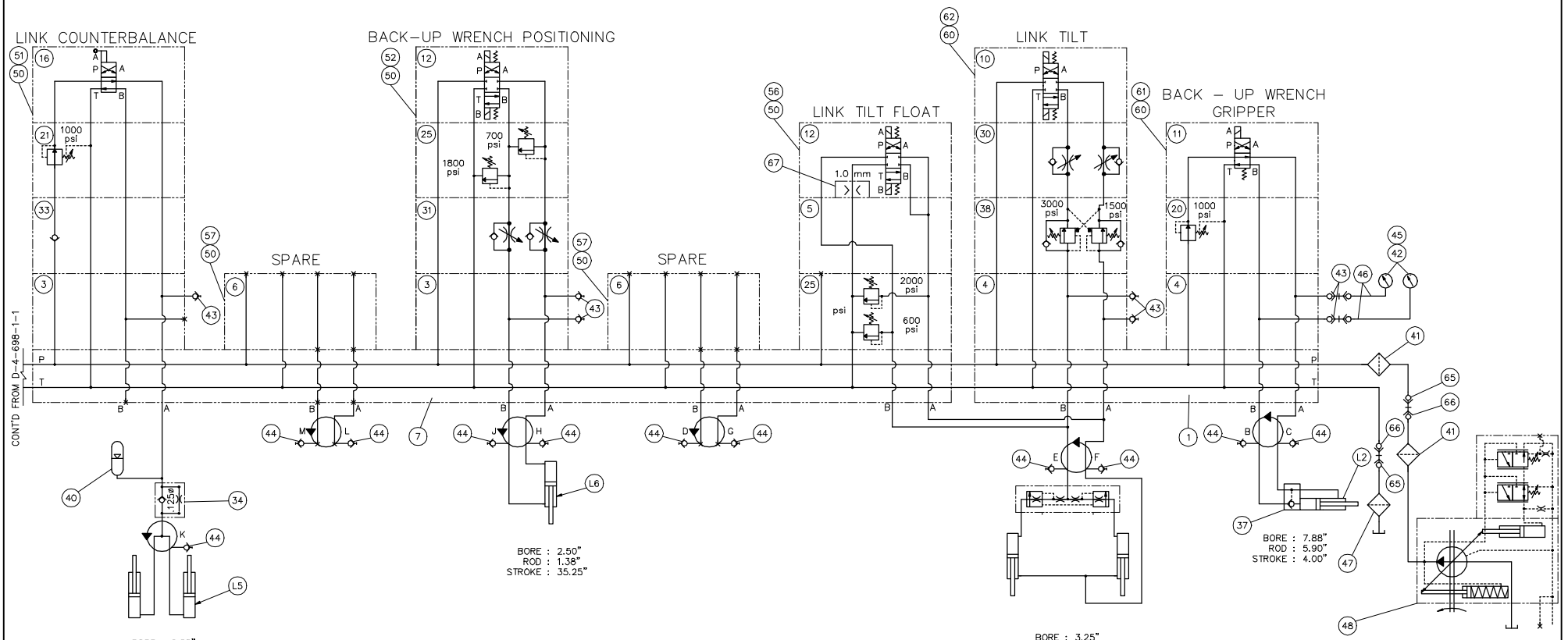

No.	Y/M/D	BY	REVISION	REFERENCE DWGS
C	94/01/20	DC	ECN# 101, TORQUE BOOST	
B	93/10/07	DC	ECN# 087, HANDLER ROTATE	
A	93/06/22	DP	ECN# 076	

TOLERANCE - UNLESS OTHERWISE SPECIFIED

REMOVE SHARP CORNERS AND BURRS
CASTING ± 1/16
⊙ CONCENTRICITY .005 TIR
— STRAIGHTNESS ± .005 IN 5 INCHES
⊥ SQUARENESS ± .010 IN 5 INCHES
// PARALLELISM ± .010 IN 5 INCHES
⊕ TRUE POSITION .005
MACHINED SURFACES 125

FABRICATING	
FRACTIONAL	
0 TO 24	± 1/16
> 24	± 1/8
DECIMAL	
0 TO 24	± .06
> 24	± .12
ANGULAR	± 2°

MACHINING	
FRACTIONAL	± 1/32
DECIMAL .x	± .030
.xx	± .015
.xxx	± .005
ANGULAR	± 1°

DRAWN	AWS	92/08/05
CHECKED		
APPRV'D		
PLOTTED		94/01/20
MATERIAL		

CANRIG DRILLING TECHNOLOGY LTD.

HYDRAULIC SCHEMATIC ENAFOR RIG 15

EST. WEIGHT	SCALE	PROJECT	
	N/A	TD S/N 007	D-4-698-01-2 REV C