Change Bulletin

No: CB018

Rev: 0

Date: 04 October 2007



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Description: CDS Mud Saver Valve Spring Pin Replacement and Field Repair

BACKGROUND INFORMATION:

On the Casing Drive System Mud Saver Valve (MSV), the spring pin broke while in service. This allowed a plunger to be driven up into the gooseneck of the swiv el, and eventually it was pumped down-hole inside the drill p ipe. The issu e is that the slotted spring pin can work its w ay out and/or break, which in turn releases the valve spring retainer (it em #4 in Figure 1). This allows the plunger to go up into the upper top drive load p ath while releasing trap ped pressure in the casing. If the plunger gets stuck there, when the CDS is removed, the plunger can be pumped down inside the drill pipe.

To correct this issue the mud saver valve spring retainer (#820034) has been replaced with a slotted hex nut (#860148). Also the slotted spring pin (item 7 on drawings below) has been changed from a \emptyset 3/16 x 5/8 pin to a \emptyset 1/8 x 5/8 pin, see figures 1 and 1A below.

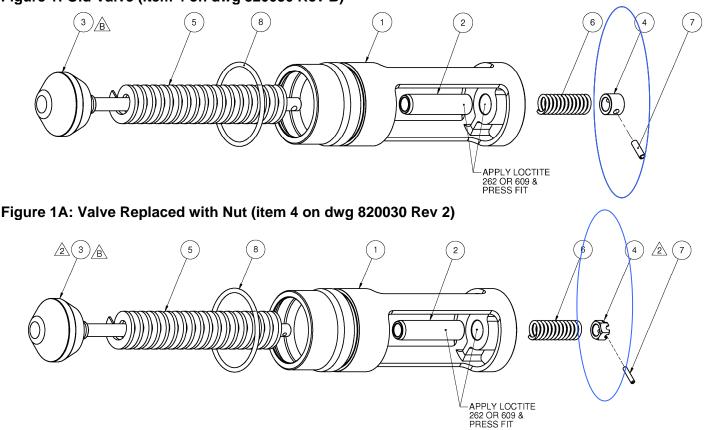


Figure 1: Old Valve (item 4 on dwg 820030 Rev B)

AFFECTED PRODUCT:

This change is applicable to all Casing Drive System MSVs manufactured prior to June 2007.

Component

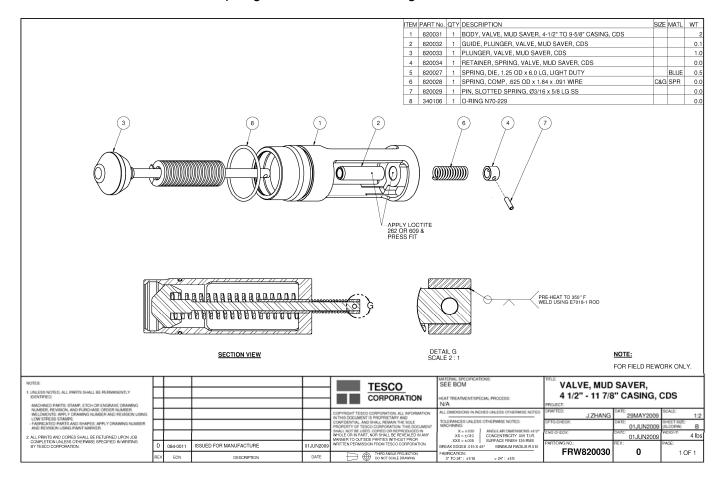
Description	Part/Dwg No.
CDS MSV Assy	820030
Plunger, MSV, CDS (superseded by 860149)	820033
Retainer, MSV, CDS (discontinu ed, replaced	820034
with 860148)	
Valve, MSV, 13-20" casing	820009

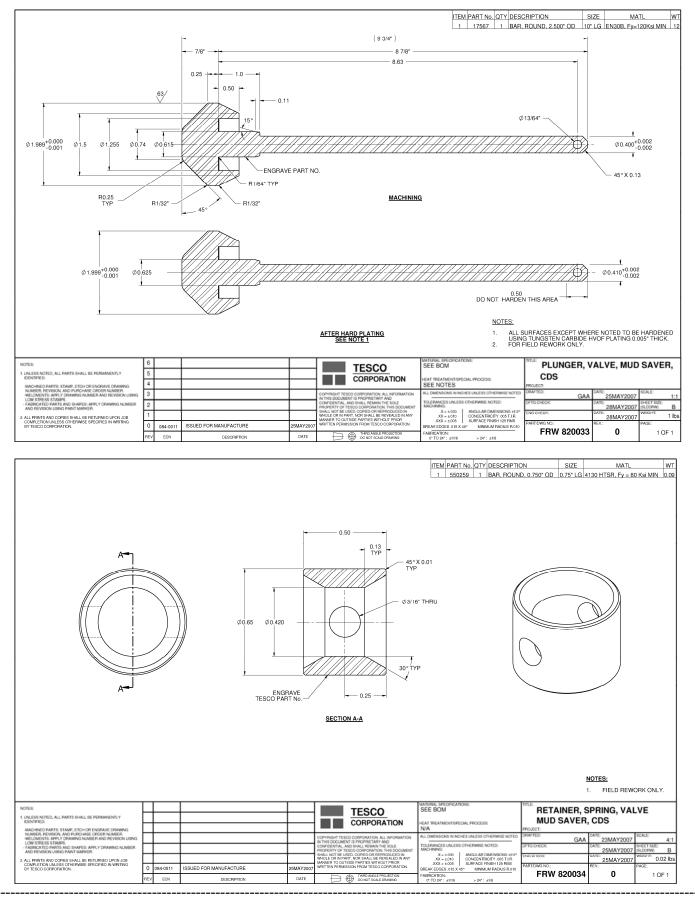
ACTION REQUIRED:

Replacing the mud saver valve spring retainer with a hex nut is an essential change that has been done on all Casing Drive System MSVs in production since June 2007. No rework is required on these.

Casing Drive System MSVs bein g used in the field or in stock re quired rework as per the following procedure:

- 1. Disassemble the MSV by removing the spring pin
- 2. Rework the plunger as per drawing FRW 820033
- 3. Rework the retainer as per drawing FRW 820034
- 4. Reassemble the MSV as per drawing FRW 820030
- 5. Weld the retainer to the plunger as shown on drawing FRW 820030





Contact your local TESCO Parts and Service Center for further information regarding this bulletin and or supply of affected components noted above.