



## Texas Oil Tools

2800 N. Frazier (77303)  
PO Box 2327  
(409)756-4800 or (409)441-0006  
(409)756-8102 Fax

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## Product Service Bulletin

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### Product

All BOP's equipped with Booster Cylinder Assemblies installed on the Shear Ram Actuators

### Reference

Tech Manuals 1127, 1128, 1184B, 1185, 1211, 1213, 1218, 1227, 1237, 1248, 1310, 1323

### Discussion

The possibility exists for partial closure of the BOP Rams if hydraulic pressure is not maintained on the "open" side of the BOP actuators by locking the BOP hydraulic control valve in the "Open BOP Rams" position.

Residual hydraulic pressure may be trapped on either side of the BOP actuator piston when shifting a 4-way hydraulic control valve, regulating the Rams, to the "Neutral" position. This residual pressure and/or any leakage in the 4-way valve, creates a differential force on the "Close Ram" side due to the additional booster piston. This trapped pressure can cause the rams to creep towards the "closed" position and partially restrict the vertical wellbore through the BOP

### Solution

As a safety precaution, all BOP control valves should be locked in the "Open BOP Rams" position at all times during coiled tubing operations until it becomes necessary to shut the rams to shear tubing, or to seal the wellbore annulus. During closure of the rams, the control valves should be locked in the "Close BOP Rams" position as well, to assure continued closure force on the rams maintaining sealing integrity during wellbore pressure fluctuations.

Prepared by:	All BOP's equipped with Booster Cylinder Assemblies installed on the Shear Ram Actuators Drawing: None	<b>PSB-022 Rev. A</b> February 1995      Rev. March 1998 Page 1 of 1
Approved by:		