


Three Additions To 2009 Well Control Manual


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	WELL CONTROL	SECTION:	5
	HQS-OPS-HB-01	SUBSECTION:	3

**ACTIONS UPON TAKING A KICK
SHUT-IN PROCEDURES**


1 SHUT-IN PROCEDURES
See Figure 5.3.1, for outline Shut-In Procedures.

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	HQS-OPS-HB-01	SUBSECTION:	3

**ACTIONS UPON TAKING A KICK
SHUT-IN PROCEDURES**

1 SHUT-IN PROCEDURES
See Figure 5.3.2, for the outline of Shut-In Procedures.

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**ACTIONS UPON TAKING A KICK
SHUT-IN PROCEDURES**

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**ACTIONS UPON TAKING A KICK
SHUT-IN PROCEDURES**

3 DRILLING - SUBSEA BOP'S

The procedure is:

- Stop rotation.
- Pick up the string to shut-in position.
- Stop the pumps and flow check - if well flows:
 - Close the annular preventer (upper preferred), and open the choke line valves on the BOP stack.
 - Notify the Toolpusher and OIM (who must notify the Operator Representative).
 - Record and monitor the shut-in drillpipe and casing pressures (note fluid density in choke/kill lines). Record the gain in pit volume and time of day.
 - Confirm the space-out and close the designated hang-off rams with reduced closing pressure. Reduce the annular pressure (see manufacturer's guidelines), slack off and land drillstring on the rams using the drillstring compensator (DSC).
 - Increase the manifold pressure back to 1500 psi. Engage ram locks.

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- Pick up the string to shut-in position.
- Stop the pumps and flow check - if well flows:
 - Close the annular preventer (upper preferred), and open the choke line valves on the BOP stack.
 - Notify the Toolpusher and OIM (who must notify the Operator Representative).
 - Once the BOP is closed monitor the riser for flow and be prepared to divert if necessary.
 - **Note:** a positive flow from the riser may be either gas in the riser or a leaking annular (refer to Section 8 Subsection 4 Item 9 & 9.3).
 - Record and monitor the shut-in drillpipe and casing pressures (note fluid density in choke/kill lines). Record the gain in pit volume and time of day.
 - Confirm the space-out and close the designated hang-off rams with reduced closing pressure. Reduce the annular pressure (see

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3 DRILLING - SUBSEA BOP'S

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A KICK IS	

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Note: a positive flow from the riser may be either gas in the riser or a leaking annular (refer to Section 8 Subsection 4 Item 9 & 9.3).

3 DRILLING - SUBSEA BOP'S

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 - **Once the BOP is closed monitor the riser for flow and be prepared to divert if necessary.**
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[TREX 52546.1]

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[TREX 52545.1]


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ACTIONS UPON TAKING A KICK SHUT-IN PROCEDURES			

- Bleed off pressure between pipe rams and annular (if possible) and open annular.
- Adjust the DSC to support the drillstring weight to the BOP plus 20,000 lbs. Position the DSC at mid-stroke.

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	WELL CONTROL	SECTION:	5
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ACTIONS UPON TAKING A KICK SHUT-IN PROCEDURES			

- manufacturer's guidelines), slack off and land drillstring on the rams using the drillstring compensator (DSC).
- Increase the manifold pressure back to 1500 psi. Engage ram locks.
- Bleed off pressure between pipe rams and annular (if possible) and

5 TRIPPING - SUBSEA BOP'S

Monitor the riser for flow (refer to Section 8 Subsection 4 Item 9 & 9.3).

4 TRIPPING

- The procedure is:
- Set the slips below the top tool joint of the stand.
- Install and close the full opening safety valve.
- Close the annular preventer (upper preferred) and open the choke line 'fail-safe' valves on the BOP stack.
- Notify the Toolpusher and OIM (who must notify the Operator Representative).
- Make up the topdrive/kelly (insert a pup joint or single between the topdrive and the safety valve) and open the safety valve.
- Open the drillstring compensator (DSC).
- Record and monitor the shut-in drillpipe and casing pressures, gain in trip tank volume and time.
- Monitor riser for flow (refer to Section 8 Subsection 4 Item 9).
- Torque up all joints and prepare to strip back to bottom.

5 TRIPPING

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- Set the slips below the top tool joint of the stand.
- Install and close the full opening safety valve.
- Close the annular preventer (upper preferred) and open the choke line 'fail-safe' valves on the BOP stack.
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- Open the drillstring compensator (DSC).
- Record and monitor the shut-in drillpipe and casing pressures, gain in trip tank volume and time.
- Monitor riser for flow (refer to Section 8 Subsection 4 Item 9).
- Torque up all joints and prepare to strip back to bottom.

If unable, try to make-up top drive to string. If unsuccessful shear pipe or drop string.

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- Notify the Toolpusher and OIM (who must notify the Operator Representative).
- **Monitor the riser for flow (refer to Section 8 Subsection 4 Item 9 & 9.3).**
- ~~Make up the topdrive/kelly (insert a pup joint or single between the topdrive and the safety valve) and open the safety valve.~~
- Open the drillstring compensator (DSC).
- Record and monitor the shut-in drillpipe and casing pressures, gain in trip tank volume and time.

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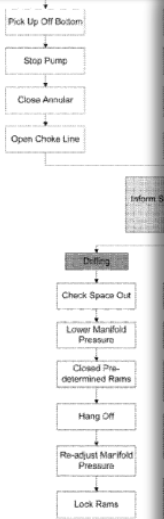
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Figure 5.3.2, Shut-In Procedures

TRANSOCEAN SHUT-IN PROCEDURES



Subsea BOPs
Monitor riser for flow
& be prepared to
divert if necessary

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Figure 5.3.2, Shut-In Procedures
TRANSOCEAN SHUT-IN PROCEDURES



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