

**From:** Trahan, Buddy (Houston)  
**Sent:** Sunday, February 21, 2010 2:44 PM  
**To:** Kent, James (Houston)  
**Subject:** RE: Horizon BOP leak

Thanks for update. I need you to look deeper into Subsea's business. The last couple years, there seems to be an increasing trend of problems on the BOP of the DWH. I want to know the maintenance program for pod valves, hoses, bonnets etc. We do not want to wait until failures to re-act.

When I started looking at this a couple years ago, it was obvious they didn't keep track of maintenance.

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**From:** Kent, James (Houston)  
**Sent:** Saturday, February 20, 2010 8:37 PM  
**To:** Trahan, Buddy (Houston)  
**Subject:** Horizon BOP leak

Buddy

We are losing less than a gallon a minute. It is on the yellow side. Appears to be a solenoid. Once the well is in better condition with the pipe out of the hole SS will start isolating (blocking) each solenoid and go from there. Discussed with Mike Fry this morning.

*James Kent*

**Rig manager asset**  
**Deepwater Horizon**  
**Office 832-587-8534**  
**Mob.281-687-7188**

*The pessimist complains about the wind.  
The optimist expects it to change.  
The leader adjusts the sails.  
John Maxwell*

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**From:** Kent, James (Houston)  
**Sent:** Saturday, February 20, 2010 8:04 AM  
**To:** Trahan, Buddy (Houston)  
**Subject:** FW:

FYI

*James Kent*

**Rig manager asset**  
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**Office 832-587-8534**  
**Mob.281-687-7188**

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John Maxwell*

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**From:** Kent, James (Houston)  
**Sent:** Saturday, February 20, 2010 7:33 AM  
**To:** DWH, SubSeaSup (Deepwater Horizon); DWH, OIM (Deepwater Horizon)

**Cc:** Johnson, Paul (Houston); Fry, Michael (Houston)  
**Subject:** RE:

Owen any updates this morning?

*James Kent*  
**Rig manager asset**  
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*The pessimist complains about the wind.  
The optimist expects it to change.  
The leader adjusts the sails.*  
*John Maxwell*

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**From:** DWH, SubSeaSup (Deepwater Horizon)  
**Sent:** Friday, February 19, 2010 2:55 PM  
**To:** DWH, OIM (Deepwater Horizon)  
**Cc:** Johnson, Paul (Houston); Kent, James (Houston); Fry, Michael (Houston)  
**Subject:**

All,

With the Upper Annular Closed, working on the Blue Pod.  
At approximately 0630 hrs 02/19/10 a gallon count of 1.0 gal. per minute was noted on the Blue Pod and the Surface Flow meters. Indicating a leak on the Blue pod, Upper Annular Close function.  
Swapped pods to see of this gallon count was common to the two.  
No gallon count on the Yellow Pod flow meter and the Surface flow count increased.  
Consulting with Mike Fry, Technical field support, it was decided to isolate the Pilot Pressure to the Blue Pod to see if the Surface gallon count would stop.  
Isolating the Blue Pilot Supply did not stop the Surface gallon count. Pilot Pressure remained 3000 psi.  
Swapped Back to the Blue and the Gallon count on the Surface Flow meter was .5 gal in 5 min. Gallon count on Blue Pod flow meter 0.0 for 10 min.  
Isolated the Pilot Supply to the Yellow Pod and the Pilot Pressure started to decrease. Indicating a Pilot System leak on the Yellow Pod.  
20 min later, flow started again on the Blue Pod and the Surface Flow meters to be .5 gal in 5 min. .1 gal per min leak on the Blue Pod Upper Annular Close Function.  
Went to the ROV shack to look at the pods. ROV making daily dive. In searching over both pods and the shuttle valves on the Upper Annular, the only fluid visible was a small stream from the Pilot Vent Canister, Yellow Pod, indicating a Pilot System leak on the Yellow Pod.  
By 1500 hrs this .1 gal per min has not changed. Further troubleshooting will be done as soon as the pipe is above the stack, due to well control operations with the loss of mud.

**Owen McWhorter**

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