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**Sent:** Saturday, August 22, 2009 9:53 PM  
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**Subject:** Brief on meeting with Alert regarding Well Control Situation at Montara  
**Importance:** High

Good Evening,

We have just completed a meeting with Alert and the following is a brief on the results.

### **Notes of Meeting with Alert and Comments**

Well construction team + Seadrill rig and ops managers met with Alert Disaster Control this afternoon. The following points are what has come out of it.

1. We provided a briefing as to what we think led up to the incident and current status.
2. Alert want to address this with a two pronged approach.
  - a. Make the rig safe so that if a fire occurs, the rig is less likely to fall onto the WHP and destroy it. This will also include evaluation of other intervention options a the WHP.
  - b. Drill a relief well to kill the well.

Outline plan of what to do to make the rig safe:

1. Mobilise about 90 MT of equipment from Singapore to Darwin.
  - a. May fit into one Antanov but it may need two.
2. Equipment will include well control / firefighting and pump skids.
3. Equipment would be loaded onto a dumb barge in Darwin and towed to site.
4. Plan would be to position barge near the rig, attach hydraulic hoses to the points that the rigs hydraulic points go and to skid the cantilever inboard.
5. This will probably mean centring the top package and then skidding in some 65'
6. Pump systems capable of 20,000 gpm will provide local deluge.
7. We will get seadrill to run up on CAD to determine if centring the top package is actually necessary.

CND Comments:

The aim here is to get the rig out of the way. There are obvious risks to this work but if successful, mitigate the risk of further damaging infrastructure. It will be weather dependant. It really needs a breeze blowing the plume away from the rig so that deluge vessels can place water to make the job comparatively safe. Of course, any spark could result in a nasty result.

Outline of plan to drill relief well

1. Mobilise a rig to do the job. Current front runner is West Triton because:
  - a. West Triton is available
  - b. It has Australian safety case and NOPSA has indicated swift passage of any documentation requirements

- c. It is a jackup which is good for this task.
2. Mobilisation is likely to take from 16 ~ 21 days.
3. Pick a location to drill the relief well taking currents winds and well geometry into account.
4. Design the well to have good formation strength near an intercept point.
5. Use Vector Magnetics to intercept the 9 5/8" casing above the 9 5/8" float collar.
6. Use mud to kill the well.
7. Pump cement to plug the well at the bottom.
8. Return to West Atlas and make safe from above.

#### CND Comments:

This is a logical outcome. It will take at least six weeks to achieve and possibly longer. We have good surveys which make the job easier. We have drilled enough in the area to be able to apply drilling learnings but I know from experience that once we get vector magnetics on line it will get slower but more exacting. This evening we are working on a rough timeline for pulling the cantilever back out of the way. ( ± 12 ~ 16 days ) It must be stated that if we do not expect to gain regulator approval to attempt this then there is no point in mobilising for it. It is risky and its main aim is infrastructure loss risk reduction. It may be that on Monday we brief NOPSA of our plans ( which will be better developed by then ) to gauge the probability of gaining approval to work on West Atlas and the WHP.

Regards

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