

**From:** Olsen, Asbjorn (Stavanger)

**Sent:** Tuesday, May 18, 2010 6:07 PM

**To:** Redd, Eddy (Houston)

**Cc:** Richards, Jess (Houston); Turlak, Rob (Houston); Leach, Gary (Houston); Boughton, Geoff (Houston); Munoz, Dan (Houston)

**Subject:** Stack on Stack DD II plans

**Attachments:** ProjectPlan-18-May-2010.mpp; ProjectPlan-18-May-2010.pdf

Eddy

This is as far as we got to for now. Tony will give me an update in the pm on all rig activities related to BOPs as soon as he has done his rig meeting update.

Very little left on the beach side, the funnel is the biggest single activity going on.

As you will also be aware, the team is working on Choke outlets for both the Dual Cap Ram Bop and the DD II BOP. Planning started yesterday for it but we see some progress.

A solution is about 10 – 14 days away on the above.

regards

Asbjørn S. Olsen

Technical Support - Horizon Support Group

Office: +1 832 587 8760

Mobile: +47 41616472

Mail: [HYPERLINK "mailto:asbjorn.olsen@deepwater.com"asbjorn.olsen@deepwater.com](mailto:asbjorn.olsen@deepwater.com)

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## Development Driller II - Stack on Stack option

ID	Task Name	Duration	Start	Finish	0	T	W	T	F	S	S	M	T	W	T	F	S
1	<b>Sub Sea Engineering tasks</b>																
2	locate 5 - 4 k regulators and ship to DD II, clear installation w Hydril	7 days	Fri 5/14/10	Thu 5/20/10													
3	Riser Analysis - SES	3 days	Sat 5/15/10	Mon 5/17/10													
4	Analysis of Riser integrity - Aker - Incl Eng Review	3 days	Wed 5/12/10	Mon 5/17/10													
5	Machining and prep of 1 jnt with 2 x 4" ball valves incl 90 deg bends	1 day	Sat 5/15/10	Tue 5/18/10													
6	Machining of 2 jnts - perforated w 12 x 8" holes	3 days	Sat 5/15/10	Mon 5/17/10													
7	Preping and welding 2 riser isolation plugs	1 day	Sat 5/15/10	Sun 5/16/10													
8	Testing & repair of HC connector @ CIW	2 days	Fri 5/14/10	Sat 5/15/10													
9	locate test stump - HC connector - DD II	1 day	Sat 5/15/10	Sat 5/15/10													
10	function test HC	2 days	Fri 5/14/10	Sat 5/15/10													
11	locate bolts and seal kit on DEN to ship to DD II	1 day?	Sun 5/16/10	Sun 5/16/10													
12	review actions resulting from PEER review	4 days	Fri 5/14/10	Mon 5/17/10													
13	prepare Datum drawings with HC Connector	3 days	Mon 5/17/10	Wed 5/19/10													
14	prepare documentation package for riser analysis, modification, eqt	6 days?	Fri 5/14/10	Wed 5/19/10													
15	decision on the Well Head Gasket retention system	1 day	Sat 5/15/10	Sat 5/15/10													
16	methanol in connector - CIW check	1 day	Sat 5/15/10	Sat 5/15/10													
17	guiding - bottom end of HC connector	5 days	Sat 5/15/10	Wed 5/19/10													
18	DP system analysis - for DD II (Richard Simpson - BP)	1 day	Sat 5/15/10	Sat 5/15/10													
19	prepare and submit all relevant procedures for rig review via Mike B.	1 day	Sat 5/15/10	Sat 5/15/10													
20	review Anchor Winch 7 - operating system and documentation	2 days	Mon 5/17/10	Tue 5/18/10													
21																	
22	<b>DD II rig specific activities</b>																
23	drop current well head connector - Vetco S HD-H4	7 days	Thu 5/13/10	Wed 5/19/10													
24	finalize BOP maintenance activities	1.5 days	Sun 5/16/10	Mon 5/17/10													
25	review and define action from alert from Tech Field Support	8 days	Thu 5/13/10	Thu 5/20/10													
26	crew engagement session	5 days	Fri 5/14/10	Tue 5/18/10													
27	install regulators - subject to Hydril	1 day	Wed 5/19/10	Wed 5/19/10													
28	install new connector - complete with stump and CIW HC	1 day	Tue 5/18/10	Tue 5/18/10													
29	full BOP function and pressure test	1.5 days	Tue 5/18/10	Wed 5/19/10													
30	install guide funnel for BOP HC Connector	2 days	Wed 5/19/10	Thu 5/20/10													
31	lower BOP - protection of control system hoses	1 day	Thu 5/20/10	Thu 5/20/10													
32	methanol - set up and procedures on DD II	2 days	Mon 5/17/10	Tue 5/18/10													
33	procedures for running STACK on STACK	3 days	Mon 5/17/10	Tue 5/18/10													
34	watch circle - Transocean	2 days	Mon 5/17/10	Tue 5/18/10													
35	Use Anchorwinch 7 to lift LMRP off the DWH BOP - procedures	3 days	Mon 5/17/10	Tue 5/18/10													

Project: ProjectPlan-18-May-2010  
Date: Tue 9/13/11

External Tasks

External Milestone

Deadline

Milestone

Summary

Project Summary

External Tasks

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Deadline

Milestone

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Project Summary

## Development Driller II - Stack on Stack option

- 2 **locate 5 - 4 k regulators and ship to DD II, clear installation w Hydril**  
regulator send from Amelia to the rig.
- 3 **Riser Analysis - SES**  
ENG - Gary needs to approve REA for installing the regulators  
analysis needs to be updated to reflect the lowermost perforated joints, and reflect these in the final analysis. no change, in the main a housekeeping matter.
- 4 **Analysis of Riser integrity - Aker - incl Eng Review**  
non linear stress analysis done, Amit Desai requested this Sat pm.  
non linear system - shows around 2 mill capacity in the joint after the cuts.  
Amit has reviewed and approved the analysis carried out.
- 5 **Machining and prep of 1 jnt with 2 x 4" ball valves incl 90 deg bends**  
installed one valve and in process on Sunday to install the second. The valves are fitted with 90 deg bend. this took a bit longer than the original plan
- 8 **Testing & repair of HC connector @ CIW**  
HC Connector shipped to Rig after testing complete at CIW
- 9 **locate test stump - HC connector - DD II**  
test stump located (75 k). will be send from CIW Sat pm to rig
- 11 **locate bolts and seal kit on DEN to ship to DD II**  
Tony Reid confirms on May 17, 2010 that all bolts and gaskets, etc. are located on the DD II ready for the connector installation
- 12 **review actions resulting from PEER review**  
Met with Iain and John M. to go over the relevant actions. the outcome from the PEER review is as follows:  
- DP operating envelope - taken care of in in task 18, etc. - Mike Blue  
- Means of Venting the well to avoid excessive pressure build up and protect the well
- 13 **prepare Datum drawings with HC Connector**  
plan to be developed for Venting with BP. Conf Call with Transocean on Mon 17/ 5 at 11 am  
verification of drawings is needed, the rest is 100 %
- 14 **prepare documentation package for riser analysis, modification, eqt**  
datum drawings for HC on stack of DD II & datum including the DWH BOP on top - Rob fixes  
Tony Reid to ensure that applicable REAs and other documentation the rig require are brought to closure and followed up.  
Two REA's initiated
- 17 **guiding - bottom end of HC connector**  
Red Line for changes to Stack and gaps between control system and as build drawings. Alert being followed up  
connector guide being worked at CIW, ready by Wednesday
- 18 **DP system analysis - for DD II (Richard Simpson - BP)**  
not updated yet
- 19 **prepare and submit all relevant procedures for rig review via Mike B.**  
procedures as far as received reviewed and onpassed to RMP/RMA
- 20 **review Anchor Winch 7 - operating system and documentation**  
documents send to Iain S. for review.
- 23 **drop current well head connector - Vetco S HD-H4**  
review with BP indicates that they may not want to run with the winch due to the LMRP weight and Wire Rope (winch) safety factor  
connector being dropped on Monday

## Development Driller II - Stack on Stack option

- 24 **finalize BOP maintenance activities**  
BOP maintenance is being delayed by:  
- Annular piston needing change out  
- Hot Stab Leaks  
- changing failed bonnet
- 25 **review and define action from Tech Field Support**  
rig to review alert from Tech Support for DP units and make sure the eqt alert is followed up
- 27 **install regulators - subject to Hydril**  
Regulators are located on the rig and will be installed.  
Hydril drawings shows two manifold regulators 4 - 5 k and an approval of the removal of the Deadman 4 -5 k regulator.
- 28 **install new connector - complete with stump and CIW HC**  
the two manifold regulators will be installed by Gene Nelms and drawings redlined and send in for updating.
- 29 **full BOP function and pressure test**  
preparation is on its way. shall be done by Tuesday pm
- 30 **install guide funnel for BOP HC Connector**  
all to be done in accordance with the LP / HP well control procedures.  
HC connector guide funnel cannot be shipped before Wednesday am to the rig.
- 31 **lower BOP - protection of control system hoses**  
The unit needs to be installed on Thursday 20/May  
simply verify that all hoses and loose structure is fastened and secured due to plume interaction
- 34 **watch circle - Transocean**  
define watch circle based on riser analysis, etc.
- 35 **Use Anchorwinch 7 to lift LMRP off the DWH BOP - procedures**  
BP reluctant to do because of SWL of wire less than 4 times safety factor. Challenged by Transocean

### Development Driller II - Stack on Stack option

ID	Task Name	Duration	Start	Finish	Resource Names	T	T	W	T	T	M	S	S	M	T	W	T	F	S
1	Sub Sea Engineering tasks	7 days	Fri 5/14/10	Thu 5/20/10	Gary Leach														
2	locate 5 - 4 k regulators and ship to DD II, clear installation w Hydril	3 days	Sat 5/15/10	Mon 5/17/10	Doug Kennedy														
3	Riser Analysis - SES	3 days	Wed 5/12/10	Mon 5/17/10	Rob Turlak														
4	Analysis of Riser integrity - Aker - incl Eng Review	1 day	Sat 5/15/10	Tue 5/18/10	Rob - Expert Riser														
5	Machining and prep of 1 jnt with 2 x 4" ball valves incl 90 deg bends	3 days	Sat 5/15/10	Mon 5/17/10	Rob - Expert Riser														
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7	Preping and welding 2 riser isolation plugs	1 day	Fri 5/14/10	Sat 5/15/10	Rob - Geoff														
8	Testing & repair of HC connector @ CIW	2 days	Sat 5/15/10	Sat 5/15/10	Rob - Geoff														
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12	review actions resulting from PEER review	4 days	Fri 5/14/10	Mon 5/17/10	Asbjorn - BP team														
13	prepare Datum drawings with HC Connector	3 days	Mon 5/17/10	Wed 5/19/10	Rob Turlak														
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Task

Split

Progress

Milestone

Summary

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rig to review alert from Tech Support for DP units and make sure the eqt alert is followed up
- 27 **Gene went to the rig today to review control system in particular**  
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