

# WELL EXPERTISE

## *Well Expertise Verification Report*

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HydraWell Intervention's deliveries to  
Oselvar PP&A

AUDITEE Hydra Well	DATE 07/04/2021		
AUDIT NO. EA-2021-05	REV.NO. 02		
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# Verification Report - HydraWell Intervention's deliveries to Oselvar PP&A

[OSE-DNO-S-RA-0033] Verification Report - HydraWell Intervention's deliveries to Oselvar PP&A  
Revision date: 07 April 2021 Rev. 02

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Security Classification	
Open	No consequence Information that has already been published (e.g. on Internet or in brochures) or released for publication by competent unit shall be classed 'Open'
Internal	Negligible consequence Information that may be disclosed to all employees of BU shall be classed as 'Internal'
Restricted	Minor, moderate or serious consequence Information that may only be disclosed to those employees who require such information for performing their tasks (e.g. department, project group) shall be classed Restricted
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# 1 Introduction

DNO Norge AS (DNO) will be conducting Permanent Plug and Abandonment (PP&A) on the Oselvar field with the semi-submersible drilling rig Borgland Dolphin with planned start up in end March 2021.

A risk-based approach is applied for follow up of contractors and subcontractors and an audit, review, and verification (ARV) plan has been established to assure DNO that critical activities and services related to the project are following contractual and regulatory expectations. The main goal is to ensure that DNO, contractors and subcontractors involved in the DNO operations, are competent to perform the activities in a safe and prudent manner.

As a part of the ongoing preparations for the upcoming activities, DNO performed a verification of HydraWell Intervention AS (HydraWell) on their planning and readiness related to perf, wash and cement (PWC) in the 9 5/8" section of the 3 wells at Oselvar.

The verification was conducted 16<sup>th</sup> of March 2021 on Teams according to agenda and timing given in [Chapter 3](#).

## 2 Scope of the verification

HydraWell was asked to present information to cover the topics listed below:

### Scope

1. Short company information/presentation (DNO, HydraWell)
2. Quick summary of Management system
  - Management system interface towards rig procedures and processes
  - HSEQ reporting/system
  - Lessons learnt and implementation of lessons learnt, with relevant example(s)
  - Statistics and performance on NCS and Borgland Dolphin in particular
    - Explain issues (if any) and experiences on previous operations
3. Service delivery and SoW
  - Personnel
    - Selection of personnel to support DNO for the Oselvar PP&A
    - Borgland Dolphin specific experience and competence of offshore and onshore personnel
    - Relevant competence and training of offshore personnel
    - Assurance that the Coordinator is following the projects through
  - Equipment
    - Please explain internal procedure checking and measuring equipment prior to shipment
    - Please explain how to ensure equipment availability
    - Please explain how quality control of equipment incl. maintenance, certification is maintained
  - Operations with OBM
    - Please explain how operational risks (risk of poor displacement, soft cement plugs etc.) related to performing contingency PWC jobs on Oselvar with OBM is mitigated
4. Please present HydraWell handling/risk assessments of the COVID-19 pandemic with mitigating measures

The verification team received the following documentation prior to the verification:

- Quality Manual, HSE Manual and Event Reporting Standard
- HWI Audit Program 2021
- HWI QHSE Activities 2021
- HWI Audit Report, Internal 25.09.19
- External audits done by Achilles (2), FPAL (2) and Dovre (3)
- HydraWell organisation
- HydraWell Certification Matrix
- Job design Process
- Maintenance Program
- Execution wellsite checklist

### 3 Time Plan/Agenda

Time	Agenda
08:30 – 08:45	Presentation of attendees and background for the verification (DNO/HydraWell)
08:45 – 09:15	Presentation of the Management System (HydraWell)
09:15 – 09:45	Presentation of Service delivery and SoW- Personnel (HydraWell)
09:45 – 10:15	Presentation of Service delivery and SoW- Equipment (HydraWell)
10:15 – 10:30	Presentation of Service delivery and SoW- Operations with OBM (HydraWell)
10:30 – 11:00	Presentation of Covid-19 handling/RA and mitigating measures (HydraWell)
11:00 – 11:15	Verification Team Internal Summary (DNO)
11:15 – 11:30	Verification Closure Meeting (DNO/All)

## 4 Participants

DNO Norge	HydraWell
Øystein Prytz – Senior Subsea Engineer & Verification Team Lead	Gro Lunde – QHSE Manager
Grethe Lønø - Sr. Drilling Engineer	Patrick Andersen – Operations Manager NO
Eirik Enge – Senior HSE Advisor	Eivind A. Knudsen – Service Delivery Manager
Anniken B. Meisler - HSEQ Coordinator	Mark Sørheim - CEO
Ronald Medina – Senior Completion Engineer	

Documented participation is shown in [Appendix B](#).



## 5 Summary

The goal with the verification was to verify HydraWell's readiness for the Oselvar PP&A operations and to identify possible areas for improvement according to SoW ([Chapter 2](#)).

The verification was held in a good atmosphere, the HydraWell participants were very open and willing to explain and share information.

Our general impression is that HydraWell will strengthen the deliveries for the DNO operations, especially the spare part philosophy. The online check lists and the overall Management System stands out as robust.

### 5.1 Findings

Three (3) observations were identified in the verification:

Observations	Responsible	Deadline
The ODB system does not clearly show high potential events (observations and near misses) with colour code. HydraWell should evaluate to implement a colour code system to better understand and act according to risk potential.	HydraWell	14 <sup>th</sup> of April
The audit program for 2021 did not include verification of suppliers. It is recommended that HydraWell update and complete the program with applicable information.	HydraWell	14 <sup>th</sup> of April
The ODB Checklist does not include a verification tick off field where the onshore supervisor can monitor and review the progress and quality of the contents. HydraWell to consider implementing a "tick-off-box/field" so that onshore personnel can easily check the quality of the offshore work and that offshore personnel are working according to plan.	HydraWell	14 <sup>th</sup> of April

The verification team request a feedback on status and how these observations will be handled within the given deadline.

### 5.2 Follow-up actions

Some follow-up actions were identified in the verification, ref. table below. The follow-up and closing of these actions will be handled between the contact persons in the respective companies.

No	Follow Up Actions	Responsible	Deadline
1	With regards to the Dovre certification and follow up of B-vendors – HydraWell please submit a follow-up plan	HydraWell	Received 06/04/2021

No	Follow Up Actions	Responsible	Deadline
2	To be discussed/evaluated: CFD modelling to be conducted for OBM operations	HydraWell/DNO	Closed. CFD modelling will be performed.
3	Secure that DNO's Covid-19 recommendations are implemented in the ODB	HydraWell	Closed. Received 06/04/2021
4	Ensure that TCP engineer to be involved in project as soon as possible	HydraWell	Closed. Dedicated coordinator from Halliburton included in the project.
5	Send PWC depth intervals	DNO (Øystein)	Closed. Sent 24/03/2021
6	Send verification presentations	HydraWell/DNO	Done

## 6 Appendices

[Appendix A](#): Notification letter

[Appendix B](#): "Signature list"

## Appendix A- Notification Letter

DATE and TIME : 17.02.21 09:00-12:30  
 WHERE : Online on Teams  
 TO : Hydra Well Intervention AS  
 ATT. : Erlend Engelsgerd  
 E-MAIL : EE@hydrawell.no  
 OUR REF. : Oselvar PP&A well delivery verification  
 COPY TO : Arild Lund, Eirik Enge, Einar Framnes, Stein A. Tonning, Bjarne Syre, Morten Laget, Sigve K. Næsheim, Stig Seland, Karina Helle, Anniken B. Meisler, Grethe Lønø  
 FROM : Øystein Prytz  
 E-MAIL : [oystein@wellexpertise.com](mailto:oystein@wellexpertise.com)  
 MOBILE : +47 94 83 08 44

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### NOTIFICATION OF VERIFICATION OF THE HYDRA WELL INTERVENTION SOW AT OSELVAR PP&A

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Dear Erlend.

As a part of the ongoing preparations for our permanent plugging and abandonment (PP&A) of the Oselvar wells, DNO Norge AS (DNO) plan to perform a Verification of Hydra Well Intervention AS (Hydra Well) on planning and readiness related to the SoW delivery for the PP&A services, including perf, wash and cement (PWC) at Oselvar PP&A, ref. kick-off meeting held 27.01.21.

We plan to perform the verification 17<sup>th</sup> of February 2021 according to agenda and timing given below. The verification will be performed on Teams.

#### Scope

1. Short company information/presentation (DNO, Hydra Well)
2. Quick summary of Management system
  - Management system interface towards rig procedures and processes
  - HSEQ reporting/system
  - Lessons learnt and implementation of lessons learnt, with relevant example(s)
  - Statistics and performance on NCS and Borgland Dolphin in particular
    - Explain issues (if any) and experiences on previous operations
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    - Selection of personnel to support DNO for the Oselvar PP&A
    - Borgland Dolphin specific experience and competence of offshore and onshore personnel
    - Relevant competence and training of offshore personnel
    - Assurance that the Coordinator is following the projects through
  - Equipment
    - Please explain internal procedure checking and measuring equipment prior to shipment
    - Please explain how to ensure equipment availability
    - Please explain how quality control of equipment incl. maintenance, certification is maintained
  - Operations with OBM
    - Please explain how operational risks (risk of poor displacement, soft cement plugs etc.) related to performing contingency PWC jobs on Oselvar with OBM is mitigated
4. Please present Hydra Well handling/risk assessments of the COVID-19 pandemic with mitigating measures

## Timing

17.02.21, online via Teams.

Indicative time plan:

08:30 – 08:45	Presentation of attendees and background for the verification (DNO/HydraWell)
08:45 – 09:15	Presentation of the Management System (HydraWell)
09:15 – 09:45	Presentation of Service delivery and SoW- Personnel (HydraWell)
09:45 – 10:15	Presentation of Service delivery and SoW- Equipment (HydraWell)
10:15 – 10:30	Presentation of Service delivery and SoW- Operations with OBM (HydraWell)
10:30 – 11:00	Presentation of Covid-19 handling/RA and mitigating measures (HydraWell)
11:00 – 11:15	Verification Team Internal Summary (DNO)
11:15 – 11:30	Verification Closure Meeting (DNO/All)

We will take short breaks as convenient

Please send email addresses of relevant Hydra Wells personnel to the undersigned for invitation to this verification activity in Teams.

## Request for information

Prior to the verification, and within 10.02.21, the verification team would like to receive the following documentation:

- Relevant HSEQ procedures (related to scope)
- Verification reports
  - Audit and verification plan for 2021
    - Internal audits/verifications relevant for the Oselvar PP&A project (last year)
    - External audits done by 3<sup>rd</sup> parties (last 3 years)
- Project Specific Organogram
- Project Specific Competence and training documentation
- Procedure(s) for checking and measuring equipment

## The verification team

Øystein Prytz	Lead Drilling Engineer, DNO	Verification Team Lead
Anniken B. Meisler	HSEQ Coordinator, DNO	Participant
Grethe Lønø	Senior Drilling Engineer, DNO	Participant
Eirik Enge	HSE Advisor, DNO	Participant
Ronald Medina	Senior Completions Engineer, DNO	Participant

## Reporting

The verification team will present a summary with observations and/or improvement items in a closing meeting at the end of the verification. The formal report will be issued within two (2) weeks after the verification.

Please confirm by e-mail ([oystein@wellexpertise.com](mailto:oystein@wellexpertise.com)) that date and timing for this verification is OK for required Hydra Wells personnel.

If need for clarifications related to this notification or the verification activity, please contact the undersigned.

Kind Regards,



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**Øystein Prytz**

Verification Team Lead

Well Expertise AS, on behalf of DNO

[oystein@wellexpertise.com](mailto:oystein@wellexpertise.com)

+47 948 30 844

### Appendix B – Participants, « Signature List »

As the verification was held on Teams, a screenshot of the persons present was taken to document presence.

