

**UPSTREAM OIL AND GAS / E&P
(OILFIELD SERVICES COMPANY) CASE STUDY**
Deepwater Subsea LLC

Deepwater Subsea LLC is an American oilfield service company specializing in subsea operational support, compliance verification, and competency development training.

Deepwater Subsea's team of industry recognized experts, highly trained specialists, and technicians focus on the three main areas of subsea operations.

These can guarantee a reduction of downtime and improvement in operational performance.

The Objectives

- Utilize inspections data to their full potential.
- Better tracking, traceability and retrieval of inspections data
- Digitize to an operations management software framework which could be configured to suit changing industry needs
- Use a web-based and mobile application that has an established interface to the OSIsoft PI System
- Increase transparency and visibility for customers, leading to better ISO 9001 compliance

The Problem

Deepwater Subsea were using inadequate and time-consuming word processor documents and spreadsheets for their inspection activities. This resulted in tough effort in tracking and tracing data, whilst lowering coordination, focus and operational productivity. It was a nightmare looking for archive information, especially when looking for when a specific inspection was completed and who did the inspection.

The use of word processor documents and spreadsheets made it difficult to ensure information consistency and the recording of critical overlapping data. From the start of the job until completion, unless the inspector sent in a copy of their report there would be no way to see the status of their work. This was also a problem because to comply as an ISO 9001 company it is essential that inspectors are using the correct revisions of documents, filling everything in correctly, and ensuring full traceability and transparency.

Also, as the OSIsoft PI System is used as their real-time monitoring platform, Deepwater Subsea needed a solution provider with an established interface to this, to enable greater visibility, retrievability, and tracking of the human processes alongside the real-time data.

With the ever-changing regulations in the Oil and Gas industry, it was also important for Deepwater Subsea to be able to create and modify their applications and documents without the need for a third party.



How j5 International Provided the Solution

With j5 International being an Application Provider Partner with OSISOFT, it was a perfect fit. Deepwater Subsea utilizes the **j5 Operations Logbook, j5 Work Instructions, j5 Action Management, j5 Inspection Rounds (IndustraForm), j5 Standing Orders, j5 Mobile** throughout their operations along with **j5 Dashboards, Reports and Views** to meet their extensive requirements. The **j5 IndustraForm Designer** allows Deepwater Subsea to easily create and modify their documents without any assistance from j5 International.

The **j5 OSISOFT PI Interface** (Asset Framework and SDK) allows relevant real-time data to reach inspectors as they work, which is not possible with static word processor documents and spreadsheets.

The j5 Operations Logbook ensures that all work activities are entered as and when they occur during Deepwater Subsea inspections, which can then be viewed in real-time. The j5 Operations Logbook builds a comprehensive record of activities with the ability to track the events as they happen with additional j5 IndustraForm Templates capturing all the important data.

j5 Action Management allows users to assign, design and track actions which are related to the processes in the j5 Operations Management Software applications. These actions have a standard workflow which allows Deepwater Subsea personnel to manage their daily actions with ease in real-time with advanced workflow capabilities.

With j5 Mobile, users can view and edit the same j5 IndustraForm Templates that are available on desktop computers. These can be easily customised by Deepwater Subsea to suit them using the spreadsheet-like j5 IndustraForm Designer application. As a result, desktop and mobile applications are now in sync in real-time with no advance source coding being required.

The Benefits

- An optimized web-based and mobile solution enabling monitoring of inspection activities in real-time
- j5 Operations Management Software acts as a central repository for data enabling quicker tracking, traceability and retrieval of data
- j5 IndustraForm® Templates allow for the easy adding and modifying of forms to meet specific Oil and Gas industry requirements and changes
- The j5 OSISOFT PI Interface (Asset Framework and SDK) allows relevant real-time data to reach inspectors as they work
- Greater transparency and visibility for customers, increasing credibility and allowing them to interact with inspectors
- 70% saving in productivity when it comes to documentation and completion of inspections
- 95% saving in time for searching for quality evidence post inspection

Benefits of j5 Operations Management Software to Deepwater Subsea LLC

There has been a **70% saving in productivity** when it comes to documentation and completion of inspections. There has also been a **95% saving in time** retrieving and searching for quality evidence post inspection. The inspectors now load the findings directly in a digital report which eliminates the need for additional filing of reports and records.

j5 IndustraForm Templates allows Deepwater Subsea to consolidate all their word processor documents and spreadsheets into a single enterprise system. It also provides a clear and simple approach, avoiding third party assistance in adding and modifying forms to meet specific Oil and Gas industry requirements and changes.

There are now clear standardized processes for different inspector's management and completing of actions with consistent formatting, structure, workflows and content entry, leading to better ISO 9001 compliance.

j5 Operations Management Software has enabled greater transparency which has improved Deepwater Subsea's credibility with customers. Allowing Deepwater Subsea customers to access the data easily, gives them visibility and the ability to interact with inspectors, something which they have never had before in this industry.

Gone are the days of paper handover reports and forgetting what happened and when. With the ability to search all the records with rich text, Deepwater Subsea can capture real lessons learned moments and share them across the company.

Customer Quote

"With j5 Operations Management Software, I've finally found the solution I needed to take my business to the next level. There's no other company in my niche doing what we do, the way we do it, and a huge part of that is because of j5 Operations Management Software. Our goal is to implement as much of our daily activities as we can into this system. From our inspection records to manufacture alerts and bulletins, we see j5 Operations Management Software as the ultimate solution for tracking our day to day activities."

Michael Fry

President and CEO
Deepwater Subsea LLC

Contact j5 International for more information

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