



## App Note - Oil & Gas Industry

# Full Field Development Project – Package I

### Customer main products

Oil & Gas coming from offshore production facilities.

### Application

Smart Vessel Drain Oily Water Flow.

### Overview

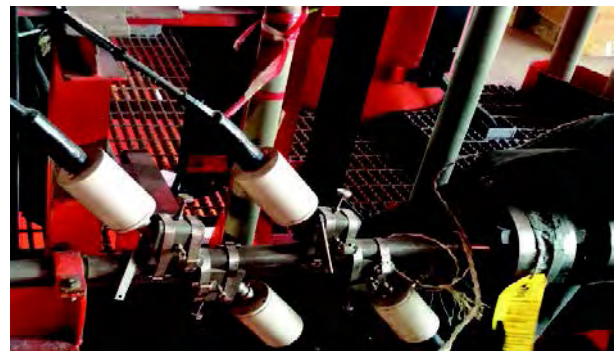
NPCC (EPC) and ADMA-OPCO (Abu Dhabi Marine Operations Company) a UAE based offshore production company part of ADNOC, requested to provide Clamp on Ultrasonic Flow Meter for the 1" Sch 80S line with 276 barg design pressure and accuracy requirement of  $\pm 1\%$  of reading.

### Challenges

Considering the 1" pipe size CF-LP transducers were the obvious option for such small pipe, but since the client requirement was for hazardous area certification, CF-LP were ruled out as they are only usable in safe areas.

### Solution

To address the customer challenges, we proposed dual channel for improved accuracy XMT868i + C-RS-403 Clamp on Ultrasonic flow meter with the surge protection device in an Ex-Proof Stainless Steel Junction Box, being an offshore installation. During the bidding phase we understood from the EPC that it would be difficult for our competitors to provide Clamp on meters for this kind of application. We have offered accuracy of  $\pm 2\%$  of reading instead of  $\pm 1\%$  due to short path length even with multiple traverses, which was acceptable to our client.



## Process Conditions

- Fluid: Produced oily water
- Flow range 0.5 to 28 l/mn
- Line size: 1" Sch 80S
- Temp max: ambient
- Pressure Max: up to 276 barg
- Viscosity: 0.52 Cp
- Accuracy: +2% of reading

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