

Omega Case History

Gaining Well Data At Surface Via Wireless Gauges.

Background & Objectives

- No accidents, no harm to people and no damage to the environment.
- Restore Data Gathering ability after DHG failing.
- Successfully deploy Metrol Paragon Gauges on High Expansion Gauge Hangers using 2.70" Hydrostatic Setting Tools.
- Gain acoustic communication from the Paragon
- System to surface to enable continuous Data Gathering from the well.
- Re-instate production to FPSO.

Results

- Successfully deployed Metrol Gauges on seven (7) High Expansion Gauge Hangers.
- Client gains wireless data gathering from well.
- All tooling performs to 100% functionality.

Value To Client

- Operation carried out in a Safe manner to personnel and the environment.
- Client re-gaining accurate Well Data from surface.
- Enable a review of well performance diagnostics and optimization.
- Determine the well's permeability-thickness, skin and change in reservoir pressure.
- Improve production allocation to this well.

This technology means that when a permanent downhole gauge (installed during the drilling/completion of a well) fails, it is now possible to retrofit wireless downhole gauges. This restores downhole pressure and temperature monitoring which is vital for delivery of the booked reserves for which these expensive subsea wells were drilled.

CLIENT :
Bp

LOCATION :
West Of Shetland

FIELD :
Foinaven

WELL NUMBER :
P15

WELL TYPE :
Production

SETTING DEPTH:
2290mtrs to 539mtrs

SET DURATION:
3 to 5 years planned

TUBING DETAILS:
5-1/2" 17lbs/ft (4.892" ID)

WELL PARAMETERS:
143° F (61° C)
1329 CITHP

TOOLING INFORMATION:

2.70" Hydrostatic Setting Tool.
2.00" OD High Expansion Gauge Hanger.
Metrol Gauge Stations.

