Scan 3D

Oil & Gas

PROJECT

PROJECT DATE:
March 2009

DESCRIPTION:
2 oil platforms
Gulf of Guinea
100% scan of installations
Revamping project

RESOURCES:
2 engineers
2 3D Trimble FX scanners
1 NA 2 level

CONDITIONS:
Platforms in service
5 days of surveys
Bosiet-Huet qualified personnel
Rainy season

RESULT:
Cloud of points (7 billion points)
Delivery format: 3DIpsos + Truview
Overall accuracy to 20 mm

3D LASER SCANNING OF 2 OFFSHORE PLATFORMS

15,000 barrels a day – at current oil prices, this is not enough. By 2011, the operator expects to be extracting over 30,000 barrels a day.

In conjunction with the revamping of 2 platforms, Urbica set out once more for the Gulf of Guinea in order to produce a complete 3D model of these two installations. In 5 days, no fewer than 7,500,000,000 three dimensional points were plotted. On the 4 main levels (4, 9, 15 and 22 metres), all production equipment has been scrupulously digitized by 3D scanning. With a density of 500,000 points per m^3, the quality of the file is close to that of a digital photograph...in 3D!

Apart from the abundance of figures, the usefulness of these 3D files is considerable. The 3D model (cloud of points) provides the oil company with accurate plot plans, up-to-date isometric plans of pipework, an exhaustive inventory of equipment and an overview of unoccupied spaces. From the head office, these platforms can now be inspected in three dimensions, and any measurements required can be taken.

In a few days, Urbica has supplied an accurate and exhaustive 3D model, which is indispensable for the 20 or so engineers responsible for the redevelopment of the oil field.

For more information, contact the Urbica team.

Urbica
The 3D Laser Survey

2 rue Aimé Laperruque – BP 67 – 93700 Drancy Cedex – France Telephone: +33 141 500 036 scan@urbica.net www.urbica.net