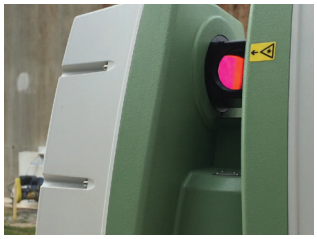
LASER SCANNING

T. Baker Smith (TBS) leverages 3D laser scanning, the latest and most efficient method for collecting survey measurements. TBS professionals utilize advanced laser measurement technology to collect large amounts of data quickly and accurately, producing an exact three-dimensional point cloud representation of the surveyed area. Benefitting the client's scope, budget, and schedule, laser scanning entails fewer site visits, a safe method of data collection, and accurate measurements.





LASER SCANNING SOLUTIONS

- + 3D Modeling
- + Registered Point Cloud Data
- + 2D Plan View Drawings
- + Volumetric Calculations
- + Web-Based Viewer

T. BAKER SMITH
A CENTURY OF SOLUTIONS

LASER SCANNING EXPERIENCE

Sub-Sea Components

TBS was tasked with gathering as-built dimensional control data for Technip to aid in the installation of five sub-sea trees for the Nobel Leviathan Field Development. The survey consisted of gathering highly accurate data on the sub-sea hub connections to ensure proper alignment when placed in the field off the coast of Israel. Along with sub-sea trees, TBS frequently conducts dimensional control measurements on PLETs, PLEMs, manifolds, jumpers, and suction anchor piles.

Vessel Surveys

TBS provides extremely accurate dimensional data on fabricated vessels, ensuring our clients of the correct nozzle placement, bolt-hole orientation, and flange face squareness. TBS gathers field data utilizing highly accurate robotic total stations and industrial measurement software in the field environment for immediate results.

Industrial Measurement – Pipe Spool Surveying

TBS monitored and performed dimensional control surveying in "real-time" of pipe spool fabrication operations, maintaining 1mm accuracies throughout fit-up and welding process. TBS conducted dimensional control operations utilizing highly accurate robotic total station surveying instruments and industrial measurement software to monitor and measure pipe spools during fabrication operations. Surveyors worked 12-hour shifts day and night to ensure pipe spools were fabricated to within the project specifications of 1.5mm. Lengths, heights, flange face squareness, bolt hole orientation, and isometric redlining were some of the measurements taken in real time on location to allow the fabrication team to quickly resume operations.

Jackets and Platforms

TBS has over 20 years of dimensional control data gathering experience on jackets and platforms, which began in 1996 for the Shell Offshore Ram Powell project. Since then, TBS has worked on several projects at numerous fabrication facilities, providing quality, accurate, and timely dimensional control measurements to ensure fabrication meets projects' specifications and client requirements.

Offshore

TBS was tasked with gathering dimensional as-built data on the Shell Turritella FPSO for existing piping spools and flanges in need of upgrades. TBS measures and processes dimensional data directly on-site, even in a dynamic environment like a floating ship or platform. The client utilized TBS' gathered measured data to fabricate new piping at an onshore fabrication facility, ensuring the correct fit and proper alignment.

LOCATIONS

Lafayette, Louisiana	337.735.2800
Baton Rouge, Louisiana	225.744.2100
Thibodaux, Louisiana	985.446.7970
Covington, Louisiana	985.302.0730
Metairie, Louisiana	504.323.3460
Houston, Texas	281.240.0113
San Antonio, Texas	210.892.4700
Corpus Christi, Texas	361.334.5719
Galveston, Texas	409.220.1669

CORPORATE HEADQUARTERS*

412 South Van Avenue
P. O. Box 2266 (70361)
Houma, Louisiana 70363
Tel: 985.868.1050

Scan for more information