



≡ Precision on Demand



Australian company provides precise surveys in difficult, remote locations.

Australia's rugged landscape can pose challenges to even the best surveyors. But for the nation's energy industry, there is no room for compromise—accuracy is essential regardless of the terrain or location. A team of surveyors met the challenge using innovative solutions built around proven GNSS technology.

Solution

Trimble R10 GNSS System

Trimble CenterPoint RTX correction service

Trimble OmniSTAR correction service

Find out more at
trimble.com/survey/trimbler10



In eastern Queensland, the Brisbane office of Fyfe Pty, Ltd., was charged with providing surveying and related services for a proposed project to develop natural gas resources. As part of the planning, producers and landowners collaborated with specialists in environmental protection, cultural heritage, surveying and construction to identify well sites, routes for pipelines, service roads and other facilities.

Fyfe survey crews accompanied large groups—up to 15 experts—on field trips where the specialists identified potential drilling sites, gas lines and roads. They used GNSS to capture positions at locations chosen by the experts. The data would be used to create maps and rights-of-way for the planned development. But, the remote locations hilly terrain and dense tree cover made it difficult to collect data with the required accuracy.

While traditional RTK GNSS could easily meet accuracy requirements, the surveyors needed additional base stations to provide control and suitable radio coverage for the entire project. To complicate things further, the area's hills and vegetation frequently blocked radio signals from the RTK base to the rovers—causing delays to the entire team while the surveyors worked to restore RTK operations. "Having a dozen or more people waiting while you solve a problem is not satisfactory," said Fyfe Survey Manager Joe D'Aloia. "We somehow needed to provide the required accuracy without using RTK base stations."

The Fyfe team turned to Trimble® R10 GNSS receivers for the project. The R10 includes built-in support for Trimble Positioning Services, including CenterPoint® RTX and OmniSTAR® correction services. The services blend real-time data from Trimble's global reference network with satellite data and other information. The resulting data, delivered to the Trimble R10 via communications satellites or cellular data links, enables the receiver to produce high-accuracy positions.

CenterPoint RTX and OmniSTAR proved to be the ideal answer to the difficult terrain. Receiving OmniSTAR data directly from satellites, the Trimble R10 computed positions with decimeter accuracy in real-time; an impressive result for the challenging conditions. By using the Trimble solution, Fyfe crews could eliminate costly delays and produce results that exceeded the client's requirements.

Fyfe uses the Trimble R10 and CenterPoint RTX on a variety of projects throughout Australia. They achieve real-time accuracy up to a few centimeters without the need for RTK base stations or real-time GNSS networks. "The R10 is a game changer," D'Aloia said. "It has the flexibility to work when and where we need to and enables us to meet our clients' requirements from meter-level down to a centimeter or two."



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Joe D'Aloia – Survey Manager
Fyfe Pty, Ltd
Queensland, Australia



Location
QUEENSLAND,
AUSTRALIA

Contact your Trimble Authorized Distribution Partner for more information.

NORTH AMERICA
Trimble Inc.
10368 Westmoor Drive
Westminster CO 80021
USA

EUROPE
Trimble Germany GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY
+49-6142-2100-0 Phone
+49-6142-2100-140 Fax

ASIA-PACIFIC
Trimble Navigation
Singapore Pty Limited
80 Marine Parade Road
#22-06, Parkway Parade
Singapore 449269
SINGAPORE
+65-6348-2212 Phone
+65-6348-2232 Fax

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