



Culture: IHS Markit



Taranaki Basin – New Zealand – 2017

Taranaki West 3D GeoStreamer

True broadband data acquired in the Taranaki Basin

After building the first regional contiguous 3D seismic coverage in the Taranaki Basin, PGS have acquired new long offset GeoStreamer MC3D data to provide superior seismic imaging and linking interpretation to the regional seismic coverage offered by Taranaki MegaSurvey.

Hydrocarbons are sourced from possible Jurassic to Miocene rocks with reservoir sands identified in the Upper Cretaceous to Pliocene sequences. Both structural and stratigraphic traps are pursued with the majority of exploration focused on structural highs.

True broadband Dual sensor 3D seismic data with prestack AVO/AVA fidelity.

SURVEY SUMMARY

Type: 3D
Geostreamer: Yes
Geometry: Standard
Size: 1 838 sq. km
Acquisition year: 2017
Completion of processing: 2017
Shooting direction: 0-180
Vessel: PGS Apollo

ACQUISITION PARAMETERS

Number of streamers: 10
Streamer length: 8 100 m
Streamer separation: 150 m
Shot interval: 16.7 m
Record length: 6 000 ms
Source depth: 7 m
Sample rate: 2 ms

PROCESSING AND DELIVERABLES

Processing: P-UP generation, 3D surface related multiple elimination (SRME), High resolution radon demultiple, Anisotropic Kirchhoff prestack time migration (PSTM)

Time products: Final Kirchhoff PSTM Stack, Angle stack near, Angle stack mid, Angle stack far, PSTM gathers, Stacking velocity, Migration velocity