**Project Overview**

Multi-Client Resources (MCR) in collaboration with DownUnder GeoSolutions (DUG), has produced a very large advanced 3D seismic reprocessing project in the Vulcan Sub-Basin, North West Shelf, Australia.

The North Vulcan Advanced 3D Reprocessing project (NOVAR MC3D), incorporating ten legacy 3D surveys will, for the first time, provide the industry with a superior quality seamless 3D dataset processed through an extensive de-ghosted, de-multiple, anisotropic pre-stack depth migrated sequence.

The NOVAR MC3D data has significantly improved imaging of the deeper Jurassic & Triassic structural & stratigraphic objectives and will allow E&P companies to undertake a more extensive evaluation of the petroleum potential and complex fault-seal risks in the basin.

The continuous 14,816km² 3D dataset extends across the basin margins of the Vulcan Sub-Basin and north east to the Nancar Trough and Laminaria High. It covers high impact exploration, field development and production acreage including:

- **2019 Offshore Petroleum Acreage Release permits; AC19-1, 2, 3, 4 & 5**
- Orchid-1 commercial gas/condensate discovery (34m net pay, Plover Fm.)
- Cash/Maple field (3.5 TCF) development
- Jabiru & Challis shut in fields and surrounding prospective acreage
- Laminaria-Corallina and Buffalo oil fields

Molyneux Advisors, in collaboration with MCR, has undertaken a regional seismic interpretation study of the NOVAR MC3D and is available for license with the seismic data.
The NOVAR MC3D survey encompasses the merging and reprocessing of over 14,800 km² of 3D marine seismic data. It incorporates ten legacy surveys from field tapes through a comprehensive, broadband, pre-stack depth migrated workflow including, source & receiver deghosting, multi-stage multiple elimination applications, reflection & refraction tomography and Kirchhoff TTI anisotropic PreSDM.

**Deliverables**

- Image gathers after migration
- Full fold stacks & angle stacks in time & depth
- Migration velocity fields, navigation data & final processing report

**For further information please contact:**
Stephen Doyle
stephen.doyle@mcresources.com.au
+61 404 640 867

www.mcresources.com.au Imaging Australia’s Oil & Gas Potential