

Beetaloo Sub-basin Seismic Project – Metadata

ANZLIC Identifier:

Title: Interpretation-ready Kingdom seismic project – Beetaloo Sub-basin

Custodian: Northern Territory Geological Survey (NTGS)
Department of Primary Industries and Resources

Abstract: The Mesoproterozoic Beetaloo Sub-basin is a fully concealed sub-basin located approximately 300 km southeast of Katherine. It comprises thick successions of the Roper Group within the McArthur Basin. To aid in understanding the structure and extents of the sub-basin, Frogtech Geoscience was contracted by NTGS to compile a Kingdom format interpretation-ready seismic project containing over 200 lines of historical seismic data from the area.

The Kingdom project seismic datum is 200 mASL and individual surveys have been tied as appropriate. Amplitude balancing / scaling has been undertaken within most overlapping surveys but not across isolated lines given the difference in signal to noise quality. The most recent surveys (PB13 and mcsan13) have been used as a reference for datum and phase.

Search Word(s): Beetaloo Sub-basin, Kyalla Formation, Roper Group, McArthur Group, Wilton package, Glyde package, McArthur Basin, geoscientific information, geological interpretation, seismic survey data, Kingdom seismic project.

Bounding Coordinates (GDA94):

North bounding coordinate:	8417200
South bounding coordinate:	8029500
East bounding coordinate:	627000
West bounding coordinate:	54600

Reference System Information: The dataset is supplied in Geocentric Datum of Australia (GDA94), MGA zone 53
[EPSG: 28353]

Data Currency Start Date: 16/03/2018

Data Currency End Date: 16/03/2018

Progress: Complete

Maintenance and Update Frequency: Not planned

Access Constraint:

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Lineage:

Lines from the following seismic surveys are contained within the Kingdom project:

- McArthur River 2D SS 1983 (St Vidgeon, Montugula, Broadmere)
- Roper Valley 2D SS 1988
- McArthur Basin 2D SS 1989
- McArthur Basin 2D SS 1990
- McArthur 2D SS 1991
- McArthur Basin 2D SS 1991
- McArthur River Ph I 2D SS 1992
- McArthur River Ph II 2D SS 1992
- Southern McArthur Basin 2D SS 2002
- Beetaloo Basin 2D SS 2006
- Beetaloo 2D SS 2011
- Beetaloo 2D SS 2012
- Hidden Valley 2D SS 2013
- McArthur 2D SS 2013

Positional Accuracy:	Data are sourced from numerous industry submissions of processed and reprocessed seismic data. Surveys vary in vintage, quality and associated metadata and positional accuracy is considered variable, especially pre 2000 vintages or reprocessing.
Attribute Accuracy:	Attributes are compiled from acquisition reports. Accuracy is dependent on the report quality.
Logical Consistency:	Data is logically consistent for the purposes of the geological interpretation of the spatial extent of the Beetaloo Sub-basin.
Completeness:	The data is complete within the scope of the project and is limited by the quality of seismic data and associated metadata available at the time.
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