



Image: Empire Energy

- Advanced exploration for shale-gas and liquids in the Beetaloo Sub-basin is progressing from exploration to ongoing appraisal, with activity continuing to accelerate in 2023.
- Advanced exploration of stacked unconventional plays in the greater McArthur Basin.
- Hydraulic stimulation conducted in the McArthur and Georgina basins.
- Multiple units with thick, extensive, organic rich-shales across the Territory.

Unconventional oil contingent and prospective resources

Basin	Formation	Resource	Gross Contingent Resources (2C)	Prospective Resources (P50)	Reference
Amadeus	Horn Valley Siltstone	Oil (MMBbl)		1,140	DSWPET (2011)
Georgina	Arthur Creek Formation	Oil (MMBbl)		26,420	Ryder Scott (2010)
	Barney Creek Formation	Oil (MMBbl)		1,234.1	MBA (2012)
	Velkerri Formation	Oil (MMBbl)		96	Revie (2017)
McArthur	Velkerri Formation (EP167 & 168)	Oil (MMBbl)	3.5	765	Empire Energy (2021)
	Kyalla Formation	Oil (MMBbl)		772	Revie (2017)

Shale gas contingent and prospective resources

Basin	Formation	Resource	Gross Contingent Resources (2C)	Prospective Resources (P50)	Reference
Amadeus	Horn Valley Siltstone	Shale gas (Bscf)		11,300	RPS (2013)
	Kyalla Formation	Shale gas (Bscf)		52,260	NTGS (2017)
	Velkerri Formation (EP76, EP98, EP117)	Shale gas (Bscf)	2,795	300,266	Tamboran Resources Ltd (2022) (Operator - 38.75% net share)
	Velkerri Formation (Carpentaria 1)	Shale gas (Bscf)	396	4,250	Empire Energy (2022)
McArthur	Velkerri Formation (EP161)	Shale gas (Bscf)	1,617	49,512	Tamboran Resources Ltd (2022) (Operator - Santos 75% net share)
	Velkerri Formation (EP167 & 168)	Shale gas (Bscf)	158	27,625	Empire Energy (2021)
	Barney Creek Formation	Shale gas (Bscf)		7,000	Rawsthorn (2013)
	Barney Creek Formation	Shale gas (Bscf)		4,781	McArthur Oil and Gas (2021)
	Wollogorang Formation	Shale gas (Bscf)		7,307	McArthur Oil and Gas (2021)
	McDermott Formation	Shale gas (Bscf)		14,093	McArthur Oil and Gas (2021)
South Nicholson	South Nicholson Group	Shale gas (Bscf)		1,946	McArthur Oil and Gas (2021)

Shale gas and liquids in the Northern Territory

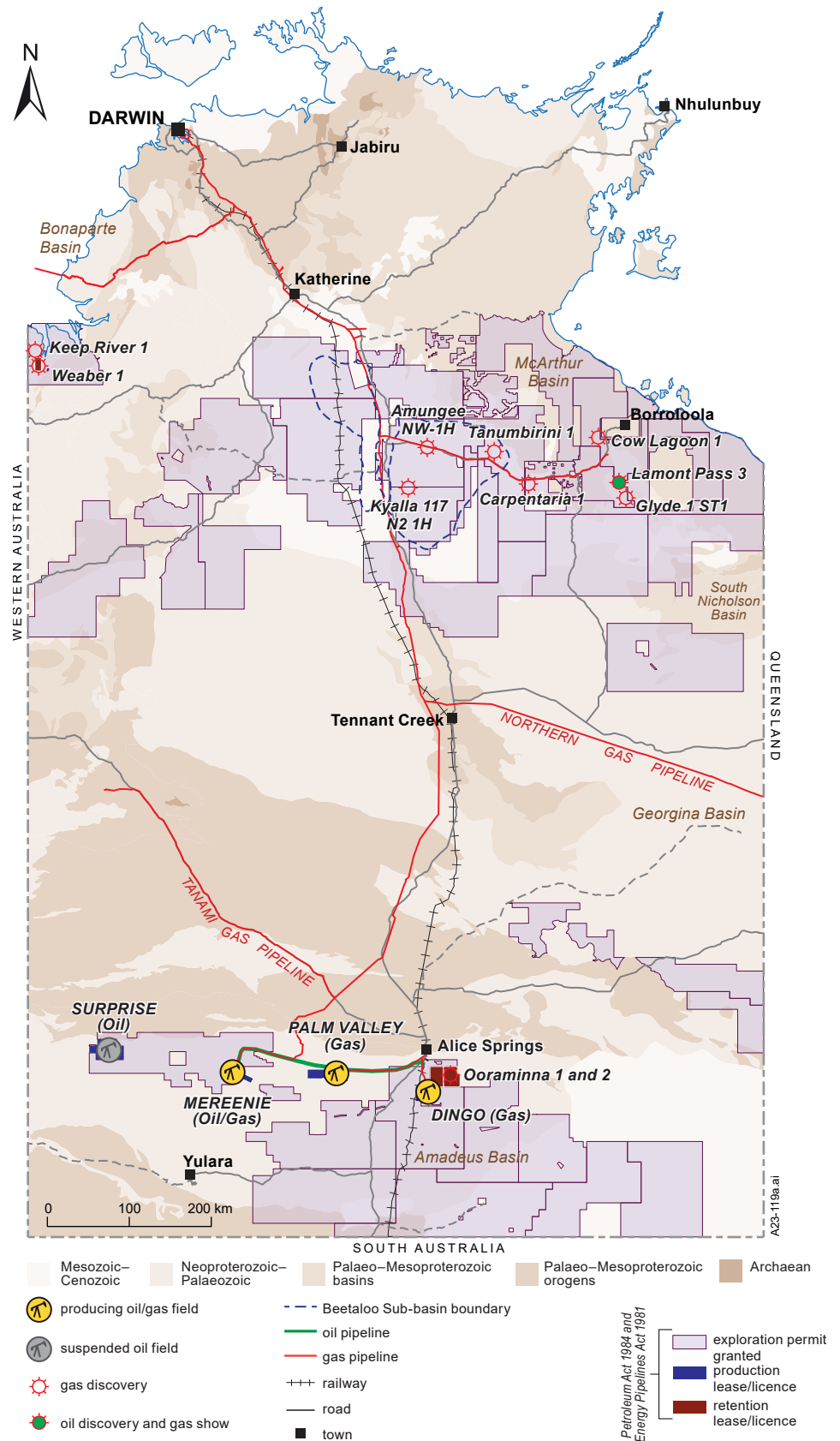


4.97 Bcf

Contingent gas resources (2C)



NT gas reserves connected
to eastern Australia gas
markets



April 2023