



ASX Release

19 October 2026

Noble Helium lodges application for Merlinleigh Exploration Permit in Western Australia

- **Noble Helium Limited has lodged an application for an Exploration Permit within SPA 44 AO in the Southern Carnarvon Basin, Western Australia**
- **SPA 44 AO is one of three Special Prospecting Authorities held by Noble Helium (one provisionally granted) following its successful acquisition of Earth Source Hydrogen in September 2026**
- **The proposed Exploration Permit, Merlinleigh, extends across the Merlinleigh Sub-basin and the Gascoyne Platform and covers approximately 7,760 km²**
- **The application follows an extensive groundwater bore sampling program, conducted by Earth Source Hydrogen, that positively indicated the presence of naturally occurring helium and hydrogen**

Noble Helium Limited (ASX: NHE) (“Noble Helium” or “the Company”) has lodged an application with the Western Australia Department of Mines, Petroleum and Exploration (DMPE) for an Exploration Permit within the Special Prospecting Authority SPA 44 AO in the Southern Carnarvon Basin.

SPA 44 AO is one of three Special Prospecting Authorities held by Noble Helium (one of which has been provisionally granted) following the successful acquisition of 100% of Earth Source Hydrogen (“**ESH**”) in September 2026.

The proposed Exploration Permit, Merlinleigh, extends across the Merlinleigh Sub-basin and the Gascoyne Platform covering an area of approximately 7,760 km². Both regions have highly attractive elements of prospectivity for helium and hydrogen and share a likely source associated with basin margin faults and a deep-seated ancient basement magmatic arc.

The application follows detailed geological work and independent analysis of data gathered from the extensive groundwater bore sampling program conducted across SPA 44 in 2026 that identified elevated helium and hydrogen measurements.

Mr Dennis Donald, Executive Chairman of Noble Helium, said:

“The groundwater bore survey undertaken in SPA 44 by Earth Source Hydrogen and completed earlier this year has delivered some very encouraging results in terms of elevated helium and hydrogen measurements, which bodes well for prospectivity in the region.

“Applying for an Exploration Permit is the first step in understanding the potential of the Merlinleigh block and we have submitted a work program that will significantly increase our understanding of the unique geological characteristics of this region and its potential for helium and hydrogen resource development.”

The successful acquisition of 100% of ESH in September 2026 provided Noble Helium with a suite of three large onshore exploration assets in Western Australia’s Southern Carnarvon Basin. The three Special Prospecting Authorities (SPA 44 AO, SPA 47 AO and STP-SPA 145) together total over 40,000 km² with the exclusive right to apply for an exploration licence in each SPA area. Straddling the Yilgarn Craton and western sedimentary basins, the geology of the ESH blocks exhibits a range of factors that indicate the potential for significant helium and hydrogen resources.

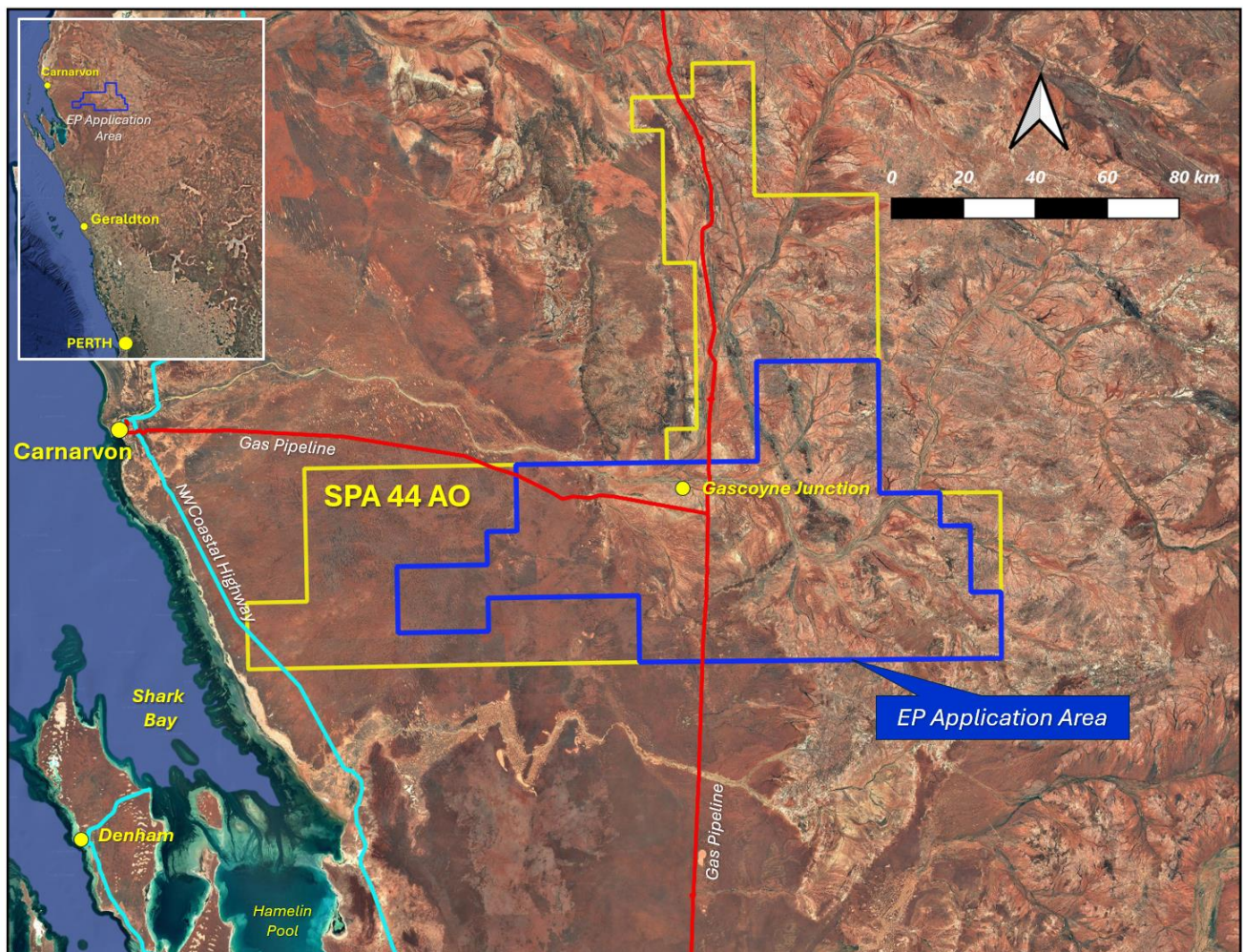


Fig 1. Merlinleigh Exploration Permit area within the SPA-44 AO boundary

This announcement has been authorised for release by the Board of Directors of Noble Helium Limited.

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About Noble Helium (www.noblehelium.com.au)

Noble Helium is answering the world's growing need for a large-scale, geo-politically independent source of helium. Located along Tanzania's East African Rift System, the Company's North Rukwa Project has the potential to reduce global supply chain fragility and supply-demand imbalance for this scarce, tech-critical and high value industrial gas.

Helium is essential to the development of new technologies, particularly in diagnostic, scientific and space exploration industries, and demand is growing as super computers and data centres underpin the rapid deployment of AI and nuclear fusion.

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