

NORTH RUKWA LANDHOLDING EXPANDS

Highlights

- Seven additional Prospecting Licence applications submitted in the North Rukwa Basin, adding 1,538km² to its existing holdings
- New licences extend the Company's future holdings to near full coverage of the prospective North Rukwa Basin
- Collectively, NHE holds the largest interest in the Tanzanian rift basins that are prospective for helium, with a focus on the highly successful Basin Margin Fault Closure play

Noble Helium Limited (ASX:NHE) ("**Noble Helium**", "**NHE**" or "**the Company**") is pleased to announce that it has applied for seven additional Prospecting Licences (PL) at its flagship North Rukwa Project.

The results from the 2022 exploration program in the North Rukwa basin have provided strong supporting evidence for the basin's helium prospectivity, in particular within its Basin Margin Fault Closures (BMFCs).

The Company has been carrying out background work in partnership with the University of Dar es Salaam, which has highlighted the extension of the BMFC play along strike.

As a result, the Company has now applied for a single 63km² PL immediately south-west of its already held North Rukwa PLs, through its wholly owned subsidiary Rocket Tanzania Limited.

The Company has also applied for six further PLs, through its wholly owned subsidiary Cephei Tanzania Limited, totalling 1,475km² and covering the remaining prospective part of the Rukwa Basin, immediately to the northwest of NHE's North Rukwa PLs.

Award of these seven new PLs would result in Noble holding 3,005km² of the Rukwa Basin and in total, Noble Helium's 5,464km² of helium exploration licences and applications in the East African Rift System (EARS) basins of Tanzania represents the largest single holding in this globally unique and highly prospective geological setting for helium.

Noble Helium's existing North Rukwa PLs, covering 1,467km², already host an independently certified unrisked summed mean Prospective Helium Resource of 176 Bcf, or equivalent to 30 years' supply. The additional PLs provide the Company with highly prospective acreage that will be systematically explored using the effective and efficient methodologies deployed by the Company, with a goal of increasing its Helium Resources.

Noble Helium's Co-Founder and CEO, Justyn Wood, commented:

"The highly encouraging results from our current exploration program continue to support the thesis that the North Rukwa Basin is highly prospective for primary helium. Completing our landholding in this area is a significant milestone for the Company, providing additional acreage to grow Noble's Helium Resources."

"The Company is looking forward to exploring these PLs once awarded."



Figure 1 – North Rukwa Project Tenement Locations

This announcement has been authorised for release on ASX by the Company's Board of Directors.

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Forward-looking statements

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About Noble Helium

Noble Helium is a Tanzania-focused helium explorer looking to provide carbon-free and geopolitical-free helium to the global market for this scarce, tech-critical and high-value industrial gas. Noble Helium has a substantial landholding of premium helium exploration acreage totalling 5,464km² across four key project areas in the East African Rift System (EARS) basins of Tanzania: North Rukwa, North Nyasa, Eyasi and Manyara.

The Company's flagship project, North Rukwa, already has an independently certified, summed unrisked mean Prospective Helium Resource of 176 billion cubic feet (equivalent to approximately 30 years' supply), with the benefit of legacy oil and gas exploration data. Rukwa Basin has the potential to be the world's third largest helium reserve behind USA and Qatar.



Figure 2 – Noble Helium Project Locations

The potential for helium to have been retained within the rift basins of Tanzania is considered significant. After the first oil discoveries in Uganda in 2006, in which Noble Helium's CEO played a key role, a succession of oil and gas exploration wells in the EARS basins of Uganda and Kenya demonstrated an extraordinary discovery rate of 80%, or 4 in 5 from over 30 wells. More than 4 Billion BOE has been proven, and both countries are now progressing to commercial production.

Neighbouring Rukwa Basin explorer Helium One Global plc has recently announced plans to redrill its Tai-1 well, which demonstrated multiple helium shows from surface to basement in August 2021. Tai-1 is located 30km to the south of the Company's licences.

Additionally, Noble Helium has commissioned the first ever helium Atlas, with an exclusive five-year agreement allowing the Company to identify additional prospective areas to target for diversification. The helium Atlas uniquely positions Noble Helium as a world leading helium explorer.