

ASX ANNOUNCEMENT

3 April 2025

BUBBA STATE 3 READY FOR TESTING LINCOLN COUNTY

Highlights

- Bubba State 3 well prepared for Keyes formation testing.
- Keyes formation isolated via well workover.
- Isolated Keyes formation flowed naturally after swabbing.
- Well currently shut-in with strong pressure build-up, awaiting testing next week.
- Rig moved to Big Wampum 4 to start workover to isolate Keyes formation for testing.

Blue Star Helium Limited (ASX:BNL, OTC:BSNLF) (**Blue Star** or the **Company**) advises that the workover to isolate the Keyes formation for flow testing and gas sampling operations are complete at the Bubba State 3 well in Lincoln County, Colorado where Blue Star holds a strategic helium acquisition option (see BNL ASX announcement dated 23 December 2024 *Strategic Helium Acquisition Option*).



Blue Star Managing Director and CEO, Trent Spry, said,

“The Great Plains Field test program is off to an exceptional start. The Ma State 16 well has delivered outstanding performance, showcasing one of the strongest Morrow channel results seen in Colorado for some time. This validates Lincoln County's Great Plains Field as a significant, previously overlooked helium resource play area.

“Bubba State 3 workover is complete ahead of flow testing, pressure build up and sampling. The Keyes has now been isolated in the well and the historic kill fluid swabbed off. The well started to flow naturally and was shut in to await official testing. Strong pressure build up has been observed since shut in suggesting good local reservoir communication across the historic perforations.

“The workover rig is currently moving the next well, Big Wampum 4, to prepare it for testing.

Bubba State 3 Summary

The workover of Bubba State 3 has been completed and the well is shut in awaiting flow testing, pressure build up and gas sampling. The workover operation involved shutting off the historic production zones and then isolating the Keyes formation. Once the Keyes was isolated the well was swabbed to remove the historic kill fluid after which the well naturally flowed and was shut in. Since shut-in the well has exhibited strong pressure build up suggesting good local reservoir communication across the historic perforations.

Ma State 16 Summary of Recent Flow Testing

The first well tested in Blue Star's current workover program was the Ma State 16 well (for further details see BNL ASX announcement dated 19 March 2025 *Ma State 16 Initial Test Results*).

This well exhibited strong flow performance during testing, maintaining a constrained rate of 2.5 MMcfd with minimal drawdown, indicating high reservoir pressure and permeability. An estimated Absolute Open Hole Flow (AOF) of 33 MMcfd aligns with previous choked test results, confirming robust well connectivity. Gas analysis confirmed helium content within the expected range, between 1.32-1.36%. Further analysis is underway to evaluate reservoir parameters and commercial potential. Note that production flow rates will be optimized for the development and that the AOF numbers are more a reflection of the reservoir and well connectivity performance.

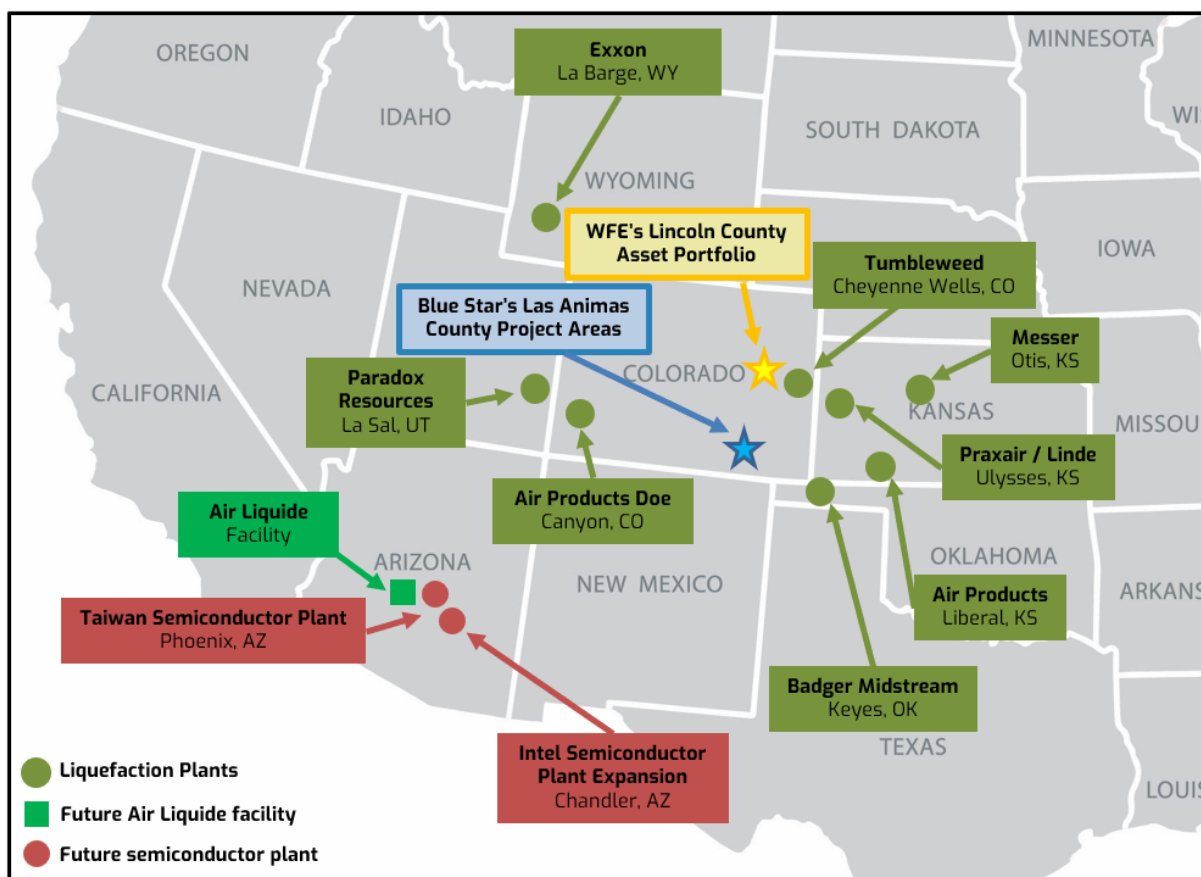
Background

Blue Star Helium previously announced its option to acquire a portfolio of helium assets in Colorado (see BNL announcement dated 23 December 2024 *Strategic Helium Acquisition Option*). These assets include existing discovery wells with helium gas recoveries, infrastructure, and a processing site, offering the potential for rapid and cost-effective development. The acquisition also provides access to the Tumbleweed gas gathering system and the Ladder Creek helium processing facility, creating further opportunities for expansion.

The opportunity includes approximately 283 square miles of 3D seismic data which the Company can use to identify additional exploration targets and assess the overall resource potential of the area.

These results of the current testing program will be used to assess commerciality and guide option exercise and development decisions.

This proposed acquisition aligns with Blue Star's strategy to expand its helium resource base in North America and leverage its technical expertise to become a significant helium producer.



This ASX Announcement has been authorised for release by the Board of Blue Star Helium Limited.

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About Blue Star Helium:

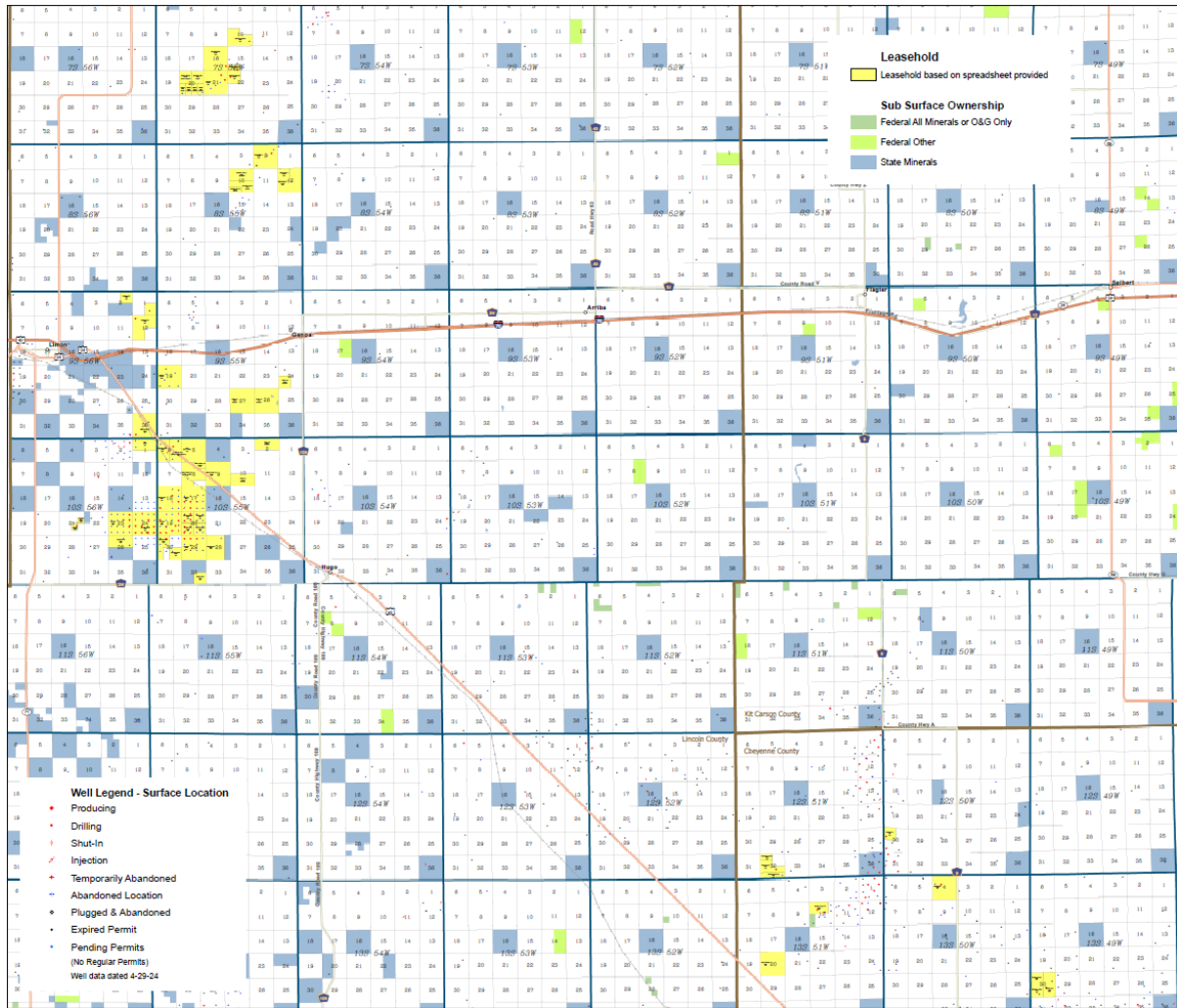
Blue Star Helium Ltd (ASX:BNL, OTC:BSNLF) is an independent helium exploration company focused on finding and developing new sources of low-cost, high-grade helium in North America. For further information please visit the Company's website at www.bluestarhelium.com

About Helium:

Helium is a unique industrial gas with applications in high-tech industries such as MRI and semiconductor manufacturing, fibre optics, and space exploration. Helium is primarily sourced as a by-product of natural gas extraction.

Schedule

WFE leases and wells



Key well information

Current Testing

5.30	Summary:	Response:
(a)	Name & type of well	Ma State #16
(b)	Location of well and permit details	NENW Sec. 24-10S-56W State Board of Land Commissioners lease number 9370.7
(c)	Working interest in well	Wiepking-Fullerton Energy LLC: 100% Blue Star group companies: nil
(d)	Net pay	8 ft
(e)	Geological rock type drilled	Sandstone
(f)	Depth of zones tested	7753-7761 ft

(g)	Test types	Wellhead flow after perforation
(h)	Hydrocarbon phases recovered	Gas (mostly methane and nitrogen)
(i)	Other recovery	1.32-1.36% helium; 49.48% nitrogen; 33.66% methane; 14% CH ₄ +; 1.27% CO ₂
(j)	Choke size etc	<p>20/64" Choke</p> <p>Flow testing at a constrained constant rate 2.5 MMcfd (2,500 Mcfd) for around 12 hours as planned, with only 60 psi drawdown. The reservoir pressure is estimated to be 1,464 psig and permeability is interpreted to be high, approximately 700 mD.</p> <p>A modelled 8 hour Absolute Open Hole Flow (AOF) of 33 MMcfd (33,000 Mcfd) is in line with the original choked well test of 10 MMcfd (10,000 Mcfd) previously reported and supports the interpretation of strong well performance. Note that production flow rates will be optimized for the development and that the AOF numbers are more a reflection of the reservoir and well connectivity performance</p> <p>Final shut in pressures (1293 psi casing and 1106 psi tubing)</p> <p>Estimated reservoir pressure 1,464 psig measured at 7,725'</p>
(l)	No. of fracture stimulation stages	Nil
(m)	Other volumes	<p>~1.1 mmscf flowed during duration of test</p> <p>1.32-1.36% helium; 49.48% nitrogen; 33.66% methane; 14% CH₄+; 1.27% CO₂</p>
(n)	Other information	<p>Flow testing and sampling</p> <p>Flow through a heated choke "MacPac" a 2" turbine meter run for gas using a Cal Scan "Hawk". Samples caught at the top of the separator through a needle valve on top of the Pac.</p> <p>Gas flow calculation type (AGA8-92) based on gas mole fraction % based on previous gas analysis from well. Programmed Atmospheric Station Pressure 12.0600 psi.</p> <p>Gas Analysis</p> <p>samples were also sent to Dolan Integration Group of 11025 Dover Street, Suite 800, Westminster, Colorado, for cross calibration.</p> <p>Gas compositional analysis methodology for the determination of C1-C6+ hydrocarbons and permanent gases (nitrogen, oxygen, argon, carbon dioxide, helium and hydrogen) are adopted from Gas Processors Association standard 2261-00. Concentrations of the compounds are measured using an Agilent 7890 gas chromatograph equipped with dual thermal conductivity detectors (TCD), each of which uses either ultra-high purity hydrogen or nitrogen as a carrier gas.</p> <p>The laboratory reports un-normalized concentrations in parts per million (ppm). The laboratory runs multiple mixed calibration gases with each sample, so it has multi-point calibration curves for each compound reported.</p>

		Helium approximately 1.32%. Other raw gas components are 49.48% nitrogen; 33.66% methane; 14% CH4+; 1.27% CO2
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Historic Testing

5.30	Summary:	Response:
(a)	Name & type of well	Ma State #16
(b)	Location of well and permit details	NENW Sec. 24-10S-56W State Board of Land Commissioners lease number 9370.7
(c)	Working interest in well	Wiepking-Fullerton Energy LLC: 100% Blue Star group companies: nil
(d)	Net pay	8 ft
(e)	Geological rock type drilled	Sandstone
(f)	Depth of zones tested	7753-7761 ft
(g)	Test types	Wellhead flow after perforation
(h)	Hydrocarbon phases recovered	Gas (mostly methane and nitrogen)
(i)	Other recovery	Helium between 1.23-1.36%
(j)	Choke size etc	2" Choke Pressures: 1498 – 634 psi(a) BHP
(l)	No. of fracture stimulation stages	Nil
(m)	Other volumes	IP up to 10,000 Mcfd reported by Wiepking-Fullerton Energy LLC
(n)	Other information	Completed Sept. 16, 2014 by Wiepking-Fullerton Energy LLC

5.30	Summary:	Response:
(a)	Name & type of well	Bubba State #3
(b)	Location of well and permit details	SENW Sec. 20-10S-55W
(c)	Working interest in well	Wiepking-Fullerton Energy LLC: 100% Blue Star group companies: nil
(d)	Net pay	10 ft
(e)	Geological rock type drilled	Sandstone

(f)	Depth of zones tested	7792-7802 ft
(g)	Test types	Wellhead flow after perforation
(h)	Hydrocarbon phases recovered	Gas (mostly methane and nitrogen)
(i)	Other recovery	Helium 2.02%
(j)	Choke size etc	2" Choke Pressures: 1622 psi(a) BHP
(l)	No. of fracture stimulation stages	Nil
(m)	Other volumes	5,000 mcf reported by Wiepking-Fullerton Energy LLC
(n)	Other information	Completed August 23, 2011 by Wiepking-Fullerton Energy LLC