

ASX ANNOUNCEMENT

29 April 2025

Activities Report Quarter Ended 31 March 2025

Blue Star Helium Limited (ASX:BNL, OTC:BSNLF) provides an update on its activities for the quarter ended 31 March 2025.

Highlights

Galactica/Pegasus

- Drilling of four development wells at **Jackson 31, Jackson 4, Jackson 29 and Jackson 27**.
- These wells are the first of six development wells funded by JV partner Helium One Global Ltd (AIM: HE1) (**Helium One**).
- To date, all wells flowed naturally with robust natural and stabilised flow rates.
 - Jackson 29 returned **highest stabilised flow rates of 350-450 Mcfd**, with a **maximum potential rate of 550 Mcfd**.
- Highly commercial helium and CO₂ concentrations **up to 3.3%** (Jackson 29) and CO₂ concentrations **up to 85.93%** (Jackson 4) respectively.
- New samples from the State 16 well show a **helium concentration of 2.17%**, a material increase from the previously reported non-air-corrected average of 1.65%.
- Major milestone achieved with permitting approval received for construction of helium and CO₂ processing plant at Galactica/Pegasus.

Great Plains Field

- Well testing completed at Ma State 16, with strong well performance demonstrated with constrained flow rate of 2,500 Mcfd maintained with very little pressure drawdown.
- Modelled Absolute Open Hole Flow (AOF) of 33,000 Mcfd is in line with the original choked well test of 10,000 Mcfd previously reported and supports the interpretation of strong well performance.
- Gas analysis confirms previously tested helium content around 1.32-1.36% helium which is high for this area and in line with expectations.
- Acquisition option due diligence testing activities continue to advance.

Corporate:

- Quarter-end cash balance of A\$2.8 million and zero debt.

OPERATIONS

Galactica/Pegasus Project – Las Animas

During the quarter, Blue Star commenced drilling of five helium well locations at Galactica/Pegasus. An initial seven wells, which includes the State 16 well previously drilled in June 2024, are expected to form the initial gas gathering system to a proposed Phase 1 helium production facility (refer Figure 1).

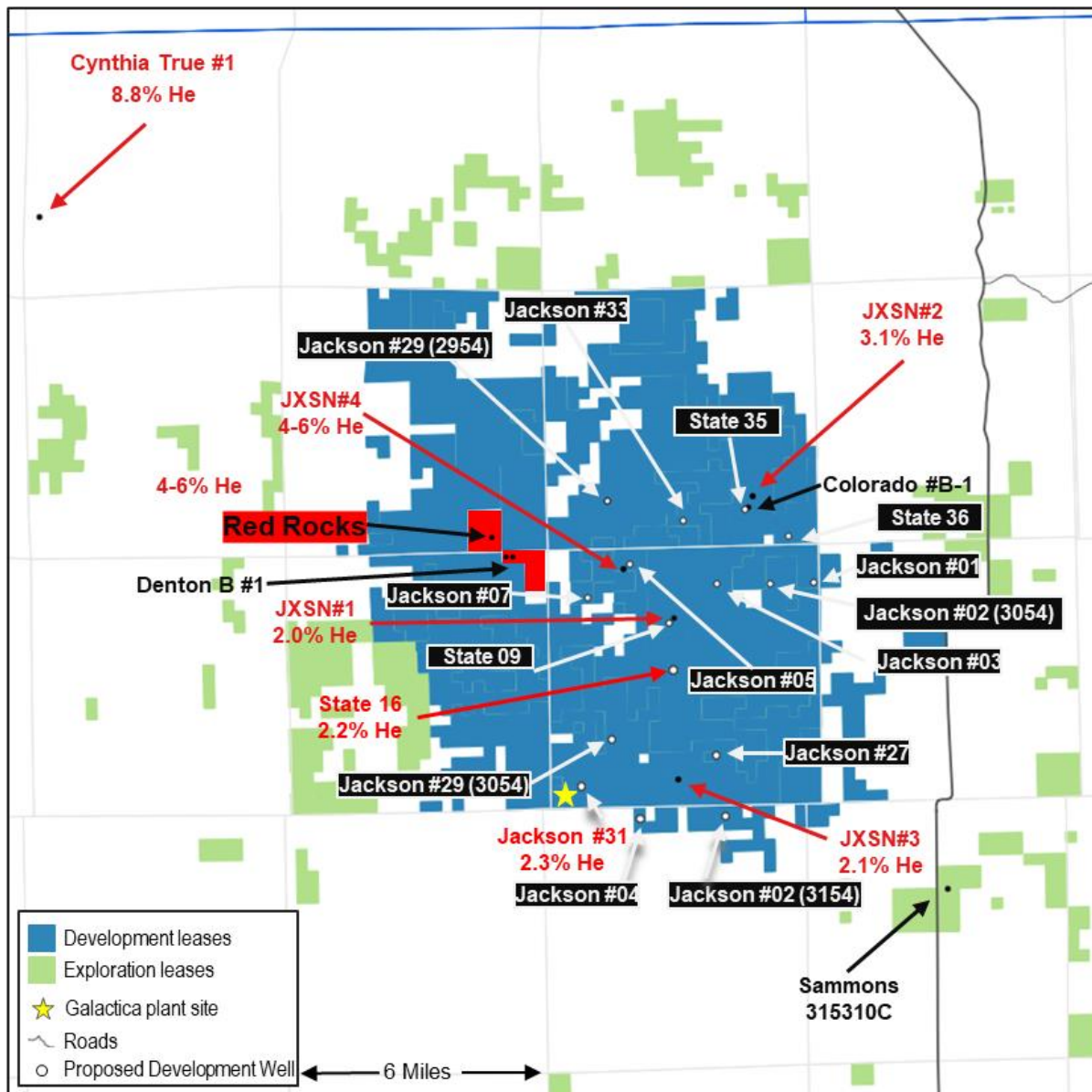


Figure 1: Planned development well locations at the Galactica/Pegasus prospect including the neighbouring Red Rocks Helium Project

Under its 50% JV farm-in agreement with Blue Star, Helium One agreed to fund the drilling of six development well holes, covering the first US\$450,000 cost of each well and thereafter sharing drilling costs equally with Blue Star.

Through its local operating entity, Blue Star continues to act as Operator of the Galactica/Pegasus project (refer ASX announcement dated 28 August 2024: *Helium One Farms into Galactica / Pegasus Project*).

The six development wells consist of (in order):

1. **State 16** SWSE 3054
2. **Jackson 31** SENW 3054 (the first under the Helium One JV agreement)
3. **Jackson 04** L4 3154
4. **Jackson 29** SWNW 3054
5. **Jackson 27** SESW 3054
6. **Jackson 02** L4 3154
7. **State 9** SWSE 3054

Drilling of Jackson 31 and Jackson 4 was conducted in February 2025 and March 2025, respectively. The drilling program continued on, subsequent to end of the March quarter, at Jackson 29 and Jackson 27. The results and current status of each development well are summarised below:

1. State 16

Re-Sampled Gas Analysis Results

State 16 is Blue Star's maiden helium development well at Galactica/Pegasus. The well was previously drilled in May 2024.

During the quarter, the Company took the opportunity to re-sample gas from the well and had the samples analysed by Gas Analysis Service.

In Blue Star's ASX release dated June 4, 2024, reported lab analysis of representative reservoir samples taken during flow testing contained an average helium percentage of 1.65% and up to 1.90% when air-corrected. The reservoir gas compositions were approximately 1.65% helium, 28.05% nitrogen and 70.29% carbon dioxide from the lab analysis and 1.90% helium, 28.54% nitrogen and 69.56% carbon dioxide when air-corrected.

The latest samples, taken from the well head, demonstrate a significant rise in helium concentration to 2.17% (not air-corrected). This increase is attributed to the reservoir's natural equilibration process near the well bore. This increase in helium content could be expected from all historic wells.

The recorded well head pressure of 10 psig is a positive indicator of reservoir connectivity and long term flow potential.

The well is currently completed for tie-in to production facilities.

2. Jackson 31

Well Flow Testing Results

The Jackson 31 well reached a total depth (**TD**) of 1,210 feet, encountering the Lyons Formation at 1,153 feet. As expected, no water was encountered during drilling of the Lyons

The well exhibited natural gas flow during drilling and at TD. Sandstone with wireline logs confirming the penetrated Lyons sands to be high-quality and gas saturated.

Flow testing since TD has revealed increasing natural flow rates, reaching approximately 250 Mcfd. Strong pressure build-up post-testing indicates high permeability and good reservoir communication. Based on previous engineering analysis, and the observed flow rates, the projected stabilised flow rates constrained for production optimisation are expected to be between 300-400 Mcfd, with a maximum of 500 Mcfd.

Initial laboratory analysis of gas samples from the Jackson 31 well showed a helium concentration of up to 2.2% (air corrected) (up to 1.90% not air corrected). Based on the recent equilibrated samples from State 16 (see BNL ASX announcement of 6 March 2025, Significant Increase in Helium Concentration at State 16 Well), it is projected that the Jackson 31 well reservoir could contain approximately 2.3% to 2.5% helium. On average from air correction of laboratory analysis results the remaining raw gas components are around 69% CO₂ and 29% nitrogen.

3. Jackson 04

Well Flow Testing Results

Results from flow testing and gas analysis at Jackson 4 were received subsequent to end of quarter.

The Jackson 4 well reached TD at 1,260 feet within the upper Lyons Formation, encountering the Lyons Sandstone at 1,198 feet. As expected, no water was encountered during drilling of the Lyons Sandstone with wireline logs confirming the penetrated Lyons sands to be high-quality and gas saturated.

Flow testing since TD has revealed increasing natural flow rates, reaching approximately 190 Mcfd so far. Strong pressure build-up post-testing indicates high permeability and good reservoir communication. Based on the previous engineering study described below, and the observed flow rates, the projected stabilised flow rates constrained for production optimisation are expected to be between 250 to 350 Mcfd, with a maximum of 450 Mcfd.

Initial laboratory analysis of gas samples from Jackson 4 showed a helium concentration up to 1.18% and 85.93% CO₂ (and 12.89% nitrogen) in line with expectations. Jackson 4 is one of the southernmost wells in the project and was expected to access higher CO₂ and lower helium than wells to the north and west.

Maintaining optimal plant throughput for beverage-grade CO₂ production requires a consistent CO₂ feed. High-CO₂ wells are crucial, enabling necessary blending of the input gas to achieve and maintain this optimal feed.

4. Jackson 29

Well Flow Testing Results

The Jackson 29 well reached TD at 1,183 feet within the upper Lyons Formation, encountering the Lyons Sandstone at 1,122 feet. As expected, no water was encountered during drilling of the Lyons Sandstone with wireline logs confirming the penetrated Lyons sands to be high-quality and gas saturated.

Flow testing since TD has revealed increasing natural flow rates, reaching approximately 320 Mcfd so far. Strong pressure build-up post-testing indicates high permeability and good reservoir communication. Based on the previous engineering study described below, and the observed flow rates, the projected stabilised flow rates constrained for production optimisation are expected to be between 350 to 450 Mcfd, with a maximum of 550 Mcfd.

Initial laboratory analysis of gas samples from Jackson 29 showed a helium concentration up to 3.30% and 48.66% CO₂ (and 48.04% nitrogen) in line with expectations.

5. Jackson 27

Well Drilling and Initial Flow Testing Results

The well encountered the Lyons Formation at a depth of 1,123 feet and was completed deliberately 60 feet into the upper sand of the Lyons Formation at 1,183 feet (TD). The well exhibited strong naturally flow during drilling and at TD.

Significantly, no water was encountered during drilling of the Lyons Formation. Wireline logs confirmed this. Based on offset wells we expect the entire upper Lyons to be gas saturated as well as a significant portion of the lower Lyons sand. This well targeted the highest quality sandstone at the top of the upper Lyons Formation which is well connected to the entire gas column.

During the natural flow of the well early gas samples were taken and are being delivered for laboratory analysis of helium and CO₂ concentrations.

The well head installation is being completed ahead of surface pressure readings, flow testing and further gas sampling.

Plant Construction Permit

Subsequent to end of quarter, Blue Star announced it had achieved another key milestone for the development of the Galactica/Pegasus Project in Las Animas. The Company's wholly owned subsidiary BNL (Enterprise) Inc (**BNLE**), has received approval for a "Major Facilities Permit" from the Board of County Commissioners of Las Animas County.

The approval, formalized through Resolution MF 2025-001 made on 15 April 2025, grants BNLE the necessary authorization to construct the Pinon Canyon Plant. This facility will be located Lot 6 of Section 31, Township 30 South, Range 54 West, 6th PM.

Next Steps

Following completion of drilling activities at Jackson 27, the rig is planned to mobilise to the Jackson 02 L4 3154 well location where pad construction is currently underway.

First helium production remains on track for H1 2025.

Great Plains Field, Lincoln County, Colorado

Blue Star holds an option to acquire a portfolio of helium assets in Colorado (refer to BNL release 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.

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.

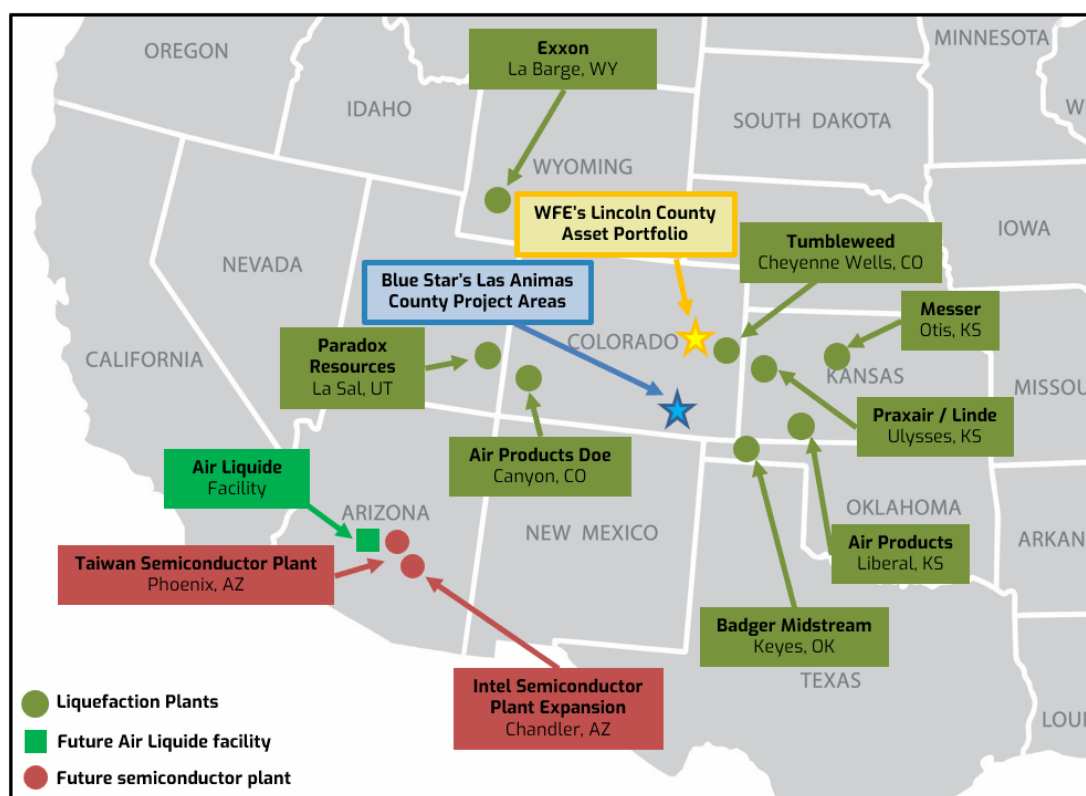


Figure 3: Location of key liquefaction and semiconductor plants across the western United States, including Blue Star's Las Animas project area and WFE's Lincoln County asset portfolio in Colorado.

In February 2025, Blue Star commenced well testing activities in the Great Plains field in Lincoln and Cheyenne Counties in Colorado.

The tests were designed to reassess the strategic value of existing wellbores that historically have produced between 1.36% to 2.02% raw helium and produced raw gas flow rates of 5,000 to 10,000 Mcfd

Blue Star tested two initial wells at Ma State 16 and Bubba State 3. Testing involved downhole operations to prepare the V11 or Keyes formations, measuring helium concentrations, flow rates and pressures in order to establish gas well type curves, and estimating expected ultimate recoveries (**EUR**) for the assessment of development commerciality. The results and current status of these two initial wells are summarised below.

Ma State 16

Flow Test Summary

Blue Star concluded flow testing and gas sampling operations at Ma State 16 with results released on 19 March 2025. The well demonstrated strong performance, 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.

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.

Early observations show no obvious boundaries are indicated within approximately 500' of the well. Further analysis of reservoir parameters, production curves, reservoir boundaries and estimations of recoverable gas are underway. These results will be used to assess commerciality and guide option exercise and development decisions.

Gas Analysis

Gas analysis of samples taken during flow testing confirms previously tested helium content of 1.32-1.36% helium. These concentrations are high for this area and in line with expectations. The other raw gas components are 49.48% nitrogen; 33.66% methane; 14% CH₄+; 1.27% CO₂.

Bubba State 3 and Next Steps

Subsequent to end of quarter, Blue Star advised that the workover of Bubba State 3 had been completed with the well 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.

Flow test results will be announced soon.

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

CORPORATE

Notice of Annual General Meeting

On 17 April 2025, Blue Star released its Notice of Annual General Meeting, which will be held at 10:00am AWST on 23 May 2025. The meeting will be held physically at Level 8, London House, 216 St Georges Terrace, Perth Western Australia 6000.

Cash Balance

The Company had a cash balance of A\$2.8 million at the end of the quarter and zero debt.

TENEMENT TABLE

Tenements held at the end of the quarter and changes thereof.	Acreage held at the beginning of the Quarter	Acreage held at the end of the Quarter	Acreage acquired (disposed/lapsed)
Project Name			
Helium Project, Las Animas, Colorado, USA*	Circa 302,576 gross (196,808 net) acres	Circa 302,576 gross (194,547 net) acres	Circa 0 gross (- 2,260 net) acres

5B COMMENTARY

Description of Selected Items in Appendix 5B

Appendix 5B Reference	Commentary	
1.2 (a)	Expensed exploration and evaluation costs of \$304,000	Expenditures primarily for plugging & abandonment & delay rentals.
1.2 (c)	Payments for production of \$21,000	Costs associated with General Liability and Energy Package insurance and storm water management of existing well pads partially offset by reimbursed costs from Helium One.
2.1 (b)	Payments to acquire tenements / leases of \$92,000	Costs associated with the acquisition of helium leases in Colorado, USA including land manager fees.
2.1 (d)	Capitalised exploration and evaluation costs of \$525,000	Capitalised expenditures associated with exploration and evaluation of the Company's helium acreage in Colorado USA. Includes site works for the upcoming drilling campaign, permitting and field costs.
6.1 and 6.2	Payments to Related Parties of \$95,000	Includes directors' fees paid to directors.

The Board has authorised the release of this announcement to ASX.

For further information, please contact:

Trent Spry

Managing Director & CEO

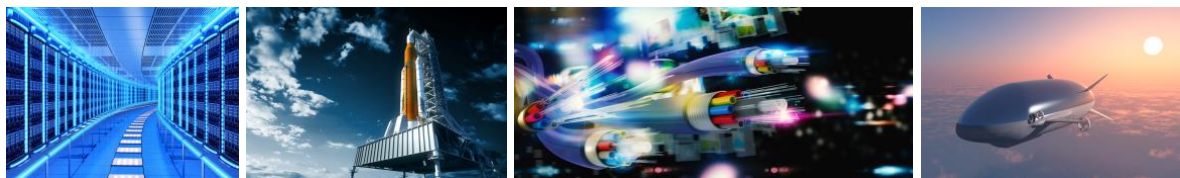
info@bluestarhelium.com

About Blue Star Helium:

Blue Star Helium Ltd (ASX:BNL) is an independent helium exploration and production company, headquartered in Australia, with operations and exploration in North America. Blue Star's strategy is to provide its shareholders with exposure to multiple high-value helium projects in North America. For further information please visit the Company's website at www.bluestarhelium.com

About Helium:

Helium is a unique industrial gas that exhibits characteristics both of a bulk, commodity gas and of a high value specialty gas and is considered a "high tech" strategic element. Due to its unique chemical and physical qualities, helium is a vital element in the manufacture of MRIs and semiconductors and is critical for fibre optic cable manufacturing, hard disc manufacturing and cooling, space exploration, rocketry, lifting and high-level science. There is no way of manufacturing helium artificially and most of the world's reserves have been derived as a by-product of the extraction of natural hydrocarbon gas.



Appendix 1

5.30	Rule Summary	Company Statement
(a)	Name and type of well	State 16 SWSE 3054 helium well
(b)	Location of well and details of lease	<p>Location: Section 16 SWSE Township 30 South Range 54 West (see map in this announcement).</p> <p>Lease: Oil and Gas Lease No.112989 between the State of Colorado and Blue Star's wholly owned subsidiary, Las Animas Leasing Inc (LAL). The lease has an effective date of 21 November 2019, the total area of the leases is 640 gross acres (640 net acres), the term is 5 years from the effective date and so long thereafter as gas is produced in paying quantities, the rental is payable annually at a rate of \$2.50 per acre per year, the royalty is 20% and LAL's working interest in the lease is 100%.</p>
(c)	Working Interest	100%
(d)	Net pay (if gross pay reported)	Production hole section from 1,111.5 to 1,211 feet, containing approximately 96 feet of high-quality gas filled sandstone
(e)	Geological rock type of formation	Lyons sandstone
(f)	Depth of zones tested	1,111.5 to 1,211 feet
(g)	Types of tests and duration	Flow tests comprising a 12 hour natural flow period followed by a 12 hour flow period under vacuum compression after which a 48 hour pressure build up was performed.
(h)	Hydrocarbon phases recovered	Nil
(i)	Any other recovery	Helium, carbon dioxide, nitrogen
(j)	Choke size, flow rates and volumes measured	Natural flow at up to 208 Mcfd through a 1" orifice plate, stabilized at 150 Mcfd. Vacuum flow at up to 313 Mcfd through a 1.375" orifice plate, stabilized at 285 Mcfd.
(k)	Pressures associated with flow and duration of test	See announcement text and paragraph (n) below.
(l)	Number of fracture stimulation stages	Nil
(m)	Material volumes of non-hydrocarbon gases	See paragraph (j) above.
(n)	Any other material information	<p>Gas Sample Analysis</p> <p>While flowing gas samples were taken from a 2" nipple directly after the flow meter.</p> <p>The sample analysis was carried out by Gas Analysis Service, Farmington NM using a single thermal conductivity detector (TCD) for gas compositional analysis for the determination of C1-C6+ hydrocarbons, helium, nitrogen and CO2 adopted from Gas Processors Association standard 2261-00. Concentrations of the compounds are measured using thermal conductivity detectors using ultra-high purity hydrogen as a carrier gas.</p>

		<p>A number of secondary 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> <p>Flow Testing</p> <p>Flow tests were conducted with a ABB XFC 6413 Total Flow Meter using AGA 1992 calculation method . Flow rate calculations used an assumed gas gravity of 1.3 (37.661 molecular weight) based on offset wells and a pressure base of 14.7 psia. Natural flow tests were conducted over a 12 hour period flowing through a 1" orifice plate to atmospheric pressure. Vacuum flow tests were conducted over a 12 hour period flowing through a 1.375" orifice plate to atmospheric pressure.</p> <p>In this announcement, Mcfd means thousand standard cubic feet per day.</p> <p>The information in this table applies to the procedures and results referred to in the original State 16 well results announcement of 4 June 2024 and to the announcement of 6 March 2025 subject to the comments in the following paragraphs.</p> <p>The new samples were taken from a 2" nipple directly from the wellhead. The sample analysis was carried out by Gas Analysis Service, Farmington NM using a single thermal conductivity detector (TCD) for gas compositional analysis for the determination of C1-C6+ hydrocarbons, helium, nitrogen and CO2 adopted from Gas Processors Association standard 2261-00. Concentrations of the compounds are measured using thermal conductivity detectors using ultra-high purity hydrogen as a carrier gas.</p> <p>Independent Project Engineering Analysis of Flow Potential (referred to in this announcement as the Engineering Study)</p>
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		<p>On 1 July 2024 (see BNL ASX announcement of 1 July 2024, State 16 Well Status and Development Update) the Company announced the results of its independent engineering analysis of the wells drilled across the Galactica / Pegasus project establishing maximum stabilised rates and drawdown that will be modelled for incorporation into development planning and economics for the project.</p> <p>At the time the State 16 well results were integrated with the test data from the JXSN#1, JXSN#2, JXSN#3 and JXSN#4 discovery wells drilled by Blue Star and compared to the public information available from the adjacent Red Rocks development.</p> <p>Results show the range of permeabilities calculated in the JXSN discovery wells and State 16 well is 300 to 750 mD which would result in initial flow rates at 6 psia wellhead pressure of between 334 and 780 Mscfd, and that at the State 16 well the calculated permeability for the Lyons formation is 405 mD, with a producing wellhead pressure of 6 psia the well would be capable of 441 Mscfd.</p> <p>As part of the development planning various vacuum compression will be considered for each well from 11 psia (-1 psig) wellhead pressure to 6 psia (-6 psig) wellhead pressure, resulting in stabilised flow rates ranging from 250 Mscfd to 615 Mscfd based on the range of permeabilities seen to date.</p> <p>The State 16 well has shown a natural flow rate of approximately 150 Mcfd. For the State 16 well (405 mD) these rates would equate to 250 Mscfd to 350 Mscfd. These rates represent constrained rates to maximise the initial production rate plateau which is standard practice in gas developments to maximise recovery and reservoir pressure maintenance while providing a more constant feed rate to be achieved through the plant.</p>
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5.30	Rule Summary	Company Statement
(a)	Name & type of well	Jackson 31 SENW 3054 helium development well
(b)	Location of well and permit details	<p>Location: Section 31 SENW Township 30 South Range 54 West (see map in this announcement).</p> <p>Mineral Lease: Oil and gas lease between a private mineral owner and Blue Star's wholly owned subsidiary, Las Animas Leasing Inc (LAL). The lease has an effective date of 22 January 2022, the total area of the lease is 4,895 acres, the term is 5 years from the effective date and so long thereafter as gas is produced in paying quantities, and the royalty is 17.5%.</p>
(c)	Working interest in well	50% (see BNL announcement dated 28 August 2024 <i>Helium One Farms into Galactica / Pegasus Project</i>)

(d)	Net pay	Production hole section from 1,153 to 1,210 feet, containing approximately 57 feet of high-quality gas filled sandstone and remains open at depth.
(e)	Geological rock type drilled	Lyons Formation
(f)	Depth of zones tested	1,153 to 1,210 feet
(g)	Test types	Flow tests were conducted with an orifice plate tester directly off of the well-head (more details below).
(h)	Hydrocarbon phases recovered	Nil
(i)	Other recovery	Helium, carbon dioxide, nitrogen
(j)	Choke size etc	Natural flow at up to 240 Mcfd through a 1.25" orifice plate.
(k)	Pressures etc	See announcement text and paragraph (n) below.
(l)	No. of fracture stimulation stages	Nil
(m)	Other volumes	See paragraph (j) above.
(n)	Other information	<p>Gas Sample Analysis</p> <p>While flowing gas samples were taken from a 2" nipple directly off the well-head.</p> <p>The sample analysis was carried out by Gas Analysis Service, Farmington NM using a single thermal conductivity detector (TCD) for gas compositional analysis for the determination of C1-C6+ hydrocarbons, helium, nitrogen and CO2 adopted from Gas Processors Association standard 2261-00. Concentrations of the compounds are measured using thermal conductivity detectors using ultra-high purity hydrogen as a carrier gas.</p> <p>A number of secondary 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> <p>Flow Testing</p>

	<p>Flow tests were conducted with an orifice plate tester. Specific gravity of the gas was calculated using data obtained from Gas Analysis Services (GAS) (gas gravity of 1.35; 39.096 molecular weight). Tests were conducted over a multiple 15 min (until stabilised flow was established) periods over a number of days flowing through a 1.25" orifice plate to atmospheric pressure at approximately 60° F.</p> <p>Independent Project Engineering Analysis of Flow Potential (referred to in this announcement as the Engineering Study)</p> <p>On 1 July 2024 (see BNL ASX announcement of 1 July 2024, State 16 Well Status and Development Update) the Company announced the results of its independent engineering analysis of the wells drilled across the Galactica / Pegasus project establishing maximum stabilised rates and drawdown that will be modelled for incorporation into development planning and economics for the project.</p> <p>At the time the State 16 well results were integrated with the test data from the JXSN#1, JXSN#2, JXSN#3 and JXSN#4 discovery wells drilled by Blue Star and compared to the public information available from the adjacent Red Rocks development.</p> <p>Results show the range of permeabilities calculated in the JXSN discovery wells and State 16 well is 300 to 750 mD which would result in initial flow rates at 6 psia wellhead pressure of between 334 and 780 Mscfd, and that at the State 16 well the calculated permeability for the Lyons formation is 405 mD, with a producing wellhead pressure of 6 psia the well would be capable of 441 Mscfd.</p> <p>As part of the development planning various vacuum compression will be considered for each well from 11 psia (-1 psig) wellhead pressure to 6 psia (-6 psig) wellhead pressure, resulting in stabilised flow rates ranging from 250 Mscfd to 615 Mscfd based on the range of permeabilities seen to date.</p> <p>The Jackson 31 well has shown a natural flow rate of approximately 250 Mcfd which compares favourably to the State 16 well which showed a sustained natural flow rate of 150 Mscfd. Given the higher natural flow at Jackson 31, due to greater permeability in the high-quality Lyons sand, and the Engineering Study, projected potential stabilized flow rates, constrained for production optimization, are expected to be 300-400 Mscfd with a maximum potential rate of 500 Mscfd.</p> <p>.</p> <p>In this announcement, Mcfd means thousand standard cubic feet per day.</p>
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5.30	Rule Summary	Company Statement
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(a)	Name & type of well	Jackson 4 L4 3154 helium development well
(b)	Location of well and permit details	Location: Section 4 L4 in Township 30 South Range 54 West (see map in this announcement). Mineral Lease: Oil and gas lease between a private mineral owner and Blue Star's wholly owned subsidiary, Las Animas Leasing Inc (LAL). The lease has an effective date of 22 January 2022, the total area of the lease is 4,895 acres, the term is 5 years from the effective date and so long thereafter as gas is produced in paying quantities, and the royalty is 17.5%.
(c)	Working interest in well	50% (see BNL announcement dated 28 August 2024 <i>Helium One Farms into Galactica / Pegasus Project</i>)
(d)	Net pay	Production hole section from 1,198 to 1,260 feet, containing approximately 62 feet of high-quality gas filled sandstone and remains open at depth.
(e)	Geological rock type drilled	Lyons Formation
(f)	Depth of zones tested	1,198 to 1,260 feet
(g)	Test types	Flow tests were conducted with an orifice plate tester directly off of the well-head (more details below).
(h)	Hydrocarbon phases recovered	Nil
(i)	Other recovery	Helium, carbon dioxide, nitrogen
(j)	Choke size etc	Natural flow at up to 190 Mcfd through a 1.25" orifice plate.
(k)	Pressures etc	See announcement text and paragraph (n) below.
(l)	No. of fracture stimulation stages	Nil
(m)	Other volumes	See paragraph (j) above.
(n)	Other information	Gas Sample Analysis While flowing gas samples were taken from a 2" nipple directly off the well-head. The sample analysis was carried out by Gas Analysis Service, Farmington NM using a single thermal conductivity detector (TCD) for gas compositional analysis for the determination of C1-C6+ hydrocarbons, helium, nitrogen and CO2 adopted from Gas Processors Association standard 2261-00. Concentrations of the compounds are measured using thermal conductivity detectors using ultra-high purity hydrogen as a carrier gas. A number of secondary samples were also sent to Dolan Integration Group of 11025 Dover Street, Suite 800, Westminster, Colorado, for cross calibration. 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

	<p>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> <p>Flow Testing</p> <p>Flow tests were conducted with an orifice plate tester. Specific gravity of the gas was calculated using data obtained from Gas Analysis Services (GAS) (gas gravity of 1.43; 41.413 molecular weight). Tests were conducted over a multiple 15 min (until stabilised flow was established) periods over a number of days flowing through a 1.25" orifice plate to atmospheric pressure at approximately 60° F.</p> <p>Independent Project Engineering Analysis of Flow Potential (referred to in this announcement as the Engineering Study)</p> <p>On 1 July 2024 (see BNL ASX announcement of 1 July 2024, State 16 Well Status and Development Update) the Company announced the results of its independent engineering analysis of the wells drilled across the Galactica / Pegasus project establishing maximum stabilised rates and drawdown that will be modelled for incorporation into development planning and economics for the project.</p> <p>At the time the State 16 well results were integrated with the test data from the JXSN#1, JXSN#2, JXSN#3 and JXSN#4 discovery wells drilled by Blue Star and compared to the public information available from the adjacent Red Rocks development.</p> <p>Results show the range of permeabilities calculated in the JXSN discovery wells and State 16 well is 300 to 750 mD which would result in initial flow rates at 6 psia wellhead pressure of between 334 and 780 Mscfd, and that at the State 16 well the calculated permeability for the Lyons formation is 405 mD, with a producing wellhead pressure of 6 psia the well would be capable of 441 Mscfd.</p> <p>As part of the development planning various vacuum compression will be considered for each well from 11 psia (-1 psig) wellhead pressure to 6 psia (-6 psig) wellhead pressure, resulting in stabilised flow rates ranging from 250 Mscfd to 615 Mscfd based on the range of permeabilities seen to date.</p> <p>The Jackson 4 well has shown a natural flow rate of approximately 250 Mscfd which compares favourably to the State 16 well which showed a sustained natural flow rate of 150 Mscfd.</p> <p>Given the higher natural flow at Jackson 4, due to greater permeability in the high-quality Lyons sand, and the Engineering Study, projected potential stabilized flow rates, constrained for</p>
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		<p>production optimization, are expected to be 250-350 Mscfd with a maximum potential rate of 450 Mscfd.</p> <p>In this announcement, Mcfd means thousand standard cubic feet per day.</p>
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5.30	Rule Summary	Company Statement
(a)	Name & type of well	Jackson 29 SWNW 3054 helium development well
(b)	Location of well and permit details	<p>Location: Section 29 in Township 30 South Range 54 West (see map in this announcement).</p> <p>Mineral Lease: Oil and gas lease between a private mineral owner and Blue Star's wholly owned subsidiary, Las Animas Leasing Inc (LAL). The lease has an effective date of 22 January 2022, the total area of the lease is 4,895 acres, the term is 5 years from the effective date and so long thereafter as gas is produced in paying quantities, and the royalty is 17.5%.</p>
(c)	Working interest in well	50% (see BNL announcement dated 28 August 2024 <i>Helium One Farms into Galactica / Pegasus Project</i>)
(d)	Net pay	Production hole section from 1,122 to 1,183 feet, containing approximately 61 feet of high-quality gas filled sandstone and remains open at depth.
(e)	Geological rock type drilled	Lyons Formation
(f)	Depth of zones tested	1,122 to 1,183 feet
(g)	Test types	Flow tests were conducted with an orifice plate tester directly off of the well-head (more details below).
(h)	Hydrocarbon phases recovered	Nil
(i)	Other recovery	Helium, carbon dioxide, nitrogen
(j)	Choke size etc	Natural flow at up to 190 Mcfd through a 1.25" orifice plate.
(k)	Pressures etc	See announcement text and paragraph (n) below.
(l)	No. of fracture stimulation stages	Nil
(m)	Other volumes	See paragraph (j) above.
(n)	Other information	<p>Gas Sample Analysis</p> <p>While flowing gas samples were taken from a 2" nipple directly off the well-head.</p> <p>The sample analysis was carried out by Gas Analysis Service, Farmington NM using a single thermal conductivity detector (TCD) for gas compositional analysis for the determination of C1-C6+ hydrocarbons, helium, nitrogen and CO2 adopted from Gas</p>

	<p>Processors Association standard 2261-00. Concentrations of the compounds are measured using thermal conductivity detectors using ultra-high purity hydrogen as a carrier gas.</p> <p>A number of secondary samples were also sent to EMPACT Analytical Systems, Inc. Address: 365 S. Main Street, Brighton, Colorado. EMPACT uses a two TCD GC system with Ultra High Purity (UHP) carrier gases. Natural Gas Analysis is performed to GPA 2261 and ASTM D1945 standards.</p> <p>Flow Testing</p> <p>Flow tests were conducted with an orifice plate tester. Specific gravity of the gas was calculated using data obtained from Gas Analysis Services (GAS) (gas gravity of 1.43; 41.413 molecular weight). Tests were conducted over a multiple 15 min (until stabilised flow was established) periods over a number of days flowing through a 1.25" orifice plate to atmospheric pressure at approximately 60° F.</p> <p>Independent Project Engineering Analysis of Flow Potential (referred to in this announcement as the Engineering Study)</p> <p>On 1 July 2024 (see BNL ASX announcement of 1 July 2024, State 16 Well Status and Development Update) the Company announced the results of its independent engineering analysis of the wells drilled across the Galactica / Pegasus project establishing maximum stabilised rates and drawdown that will be modelled for incorporation into development planning and economics for the project.</p> <p>At the time the State 16 well results were integrated with the test data from the JXSN#1, JXSN#2, JXSN#3 and JXSN#4 discovery wells drilled by Blue Star and compared to the public information available from the adjacent Red Rocks development.</p> <p>Results show the range of permeabilities calculated in the JXSN discovery wells and State 16 well is 300 to 750 mD which would result in initial flow rates at 6 psia wellhead pressure of between 334 and 780 Mscfd, and that at the State 16 well the calculated permeability for the Lyons formation is 405 mD, with a producing wellhead pressure of 6 psia the well would be capable of 441 Mscfd.</p> <p>As part of the development planning various vacuum compression will be considered for each well from 11 psia (-1 psig) wellhead pressure to 6 psia (-6 psig) wellhead pressure, resulting in stabilised flow rates ranging from 250 Mscfd to 615 Mscfd based on the range of permeabilities seen to date.</p> <p>The Jackson 29 well has shown a natural flow rate of approximately 250 Mcfd which compares favourably to the State 16 well which showed a sustained natural flow rate of 150 Mscfd.</p> <p>Given the higher natural flow at Jackson 29, due to greater permeability in the high-quality Lyons sand, and the Engineering Study, projected potential stabilized flow rates, constrained for production optimization, are expected to be 350-450 Mscfd with a maximum potential rate of 550 Mscfd.</p>
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		In this announcement, Mcfd means thousand standard cubic feet per day.
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5.30	Summary:	Response:
(a)	Name & type of well	Ma State #16 (Current testing program undertaken by Blue Star Helium Ltd)
(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 approximately 1.32%
(j)	Choke size etc	20/64" Choke
(k)	Pressures etc	Final shut in pressures (1293 psi casing and 1106 psi tubing) Estimated reservoir pressure 1,464 psig measured at 7,725'
(l)	No. of fracture stimulation stages	Nil
(m)	Other volumes	~1.1 mmscf flowed during duration of test
(n)	Other information	Flow testing and sampling 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. 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. Gas Analysis samples were also sent to Dolan Integration Group of 11025 Dover Street, Suite 800, Westminster, Colorado, for cross calibration.

		<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> <p>Helium approximately 1.32%. Other raw gas components are 49.48% nitrogen; 33.66% methane; 14% CH4+; 1.27% CO2</p>
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5.30	Summary:	Response:
(a)	Name & type of well	Ma State #16 (Historic testing program undertaken by Wiefking-Fullerton Energy LLC and or its associates)
(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
(k)	Pressures etc	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

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Blue Star Helium Limited

ABN

75 009 230 835

Quarter ended ("current quarter")

31 March 2025

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers	2	2
1.2 Payments for		
(a) exploration & evaluation	(304)	(304)
(b) development	-	-
(c) production	(21)	(21)
(d) staff costs	(412)	(412)
(e) administration and corporate costs	(257)	(257)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	3	3
1.5 Interest and other costs of finance paid	(3)	(3)
1.6 Income taxes paid	-	-
1.7 Government grants and tax incentives	-	-
1.8 Other (provide details if material)	-	-
1.9 Net cash from / (used in) operating activities	(992)	(992)

2. Cash flows from investing activities		
2.1 Payments to acquire or for:		
(a) entities	-	-
(b) tenements / leases	(92)	(92)
(c) property, plant and equipment	(2)	(2)
(d) exploration & evaluation	(525)	(525)
(e) investments	-	-
(f) other non-current assets	-	-

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements / leases	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (farmin share of well drilling costs)	1,718	1,718
2.6	Net cash from / (used in) investing activities	1,099	1,099

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings (includes reimbursement of costs)	4	4
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	4	4

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	2,691	2,691
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(992)	(992)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	1,099	1,099
4.4	Net cash from / (used in) financing activities (item 3.10 above)	4	4

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	(13)	(13)
4.6	Cash and cash equivalents at end of period	2,789	2,789

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	2,789	2,691
5.2	Call deposits	-	-
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	2,789	2,691

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	95
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-
<i>Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.</i>		

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

7. Financing facilities	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
<i>Note: the term "facility" includes all forms of financing arrangements available to the entity.</i>		
<i>Add notes as necessary for an understanding of the sources of finance available to the entity.</i>		
7.1 Loan facilities	-	-
7.2 Credit standby arrangements	-	-
7.3 Other (please specify)	-	-
7.4 Total financing facilities	-	-
7.5 Unused financing facilities available at quarter end		-
7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <p>N/A</p> </div>	

8. Estimated cash available for future operating activities	\$A'000
8.1 Net cash from / (used in) operating activities (item 1.9)	(992)
8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(525)
8.3 Total relevant outgoings (item 8.1 + item 8.2)	(1,517)
8.4 Cash and cash equivalents at quarter end (item 4.6)	2,789
8.5 Unused finance facilities available at quarter end (item 7.5)	-
8.6 Total available funding (item 8.4 + item 8.5)	2,789
8.7 Estimated quarters of funding available (item 8.6 divided by item 8.3)	1.8
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>	
8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
<div style="border: 1px solid black; padding: 5px;"> <p>Answer: The Company notes it has entered into a farmin agreement with Helium One Global Ltd that significantly reduces the capital required from the Company for the Galactica Pegasus project. The first half of 2025 will see a relative increase in net operating cash outflows as the Galactica Pegasus development is finalized easing once turned to sales.</p> </div>	
8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
<div style="border: 1px solid black; padding: 5px;"> <p>Answer: The Board regularly evaluates market appetite for equity financing and believes that the Company will be able to continue to access funding as required.</p> </div>	

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer: Yes, with the new farmin agreement and continued access to funding, the Company expects to be able to meet its business objectives.

Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 29 April 2025

Authorised by: The Board
(Name of body or officer authorising release – see note 4)

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg *Audit and Risk Committee*]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.