Basin ENERGY

QUARTERLY ACTIVITIES REPORT FOR THE PERIOD ENDING 31 MARCH 2024

Key Highlights

- **Active exploration of all three of Basin's Athabasca uranium properties including:**
  - **Phase 2 exploration drilling at Geikie**
  - **Ground geophysics at Marshall and North Millennium**
- **Significantly oversubscribed $3.3 million capital raise completed**
- **Continued engagement and consultation with stakeholder groups**
- **U_3O_8 spot price[1] surpasses US$100/Lb; hitting 16-year high, with uranium spot price trading as high as US$106/Lb during January 2024**

Basin Energy Ltd (**ASX: BSN**) ('**Basin**', or the '**Company**') is pleased to provide an overview of activities for the period ending 31 March 2024 ('**Quarter**', '**Reporting Period**') and an accompanying Appendix 5B.

Exploration for the Quarter occurred on all of Basin's Athabasca Basin uranium projects (the **'Projects**') (**Figure 1**). Phase 2 exploration drilling at the Geikie Project ('**Geikie**') commenced, with more than 2,000 metres of drilling completed, and maiden ground electromagnetic surveys at the North Millennium and Marshall projects ('**North Millennium**', '**Marshall'**) with 86-line kilometres of data acquired.

In February, the Company raised A$3.3 million (before costs) via a share placement to institutional, sophisticated, and professional investors. The treasury remained over $5 million at the end of the Reporting Period.

Basin's Managing Director, Pete Moorhouse, commented:

"The first quarter of 2024 has been a busy period for Basin, with exploration happening concurrently on all three of our Athabasca Uranium projects.

Basin is in a strong position with funding in place to allow continued exploration in the heartland of the world's premier uranium district.

We look forward to updating the market in the coming weeks on the outcomes of the drilling and geophysics."

[1] *Refer Tradetech https://www.uranium.info/*

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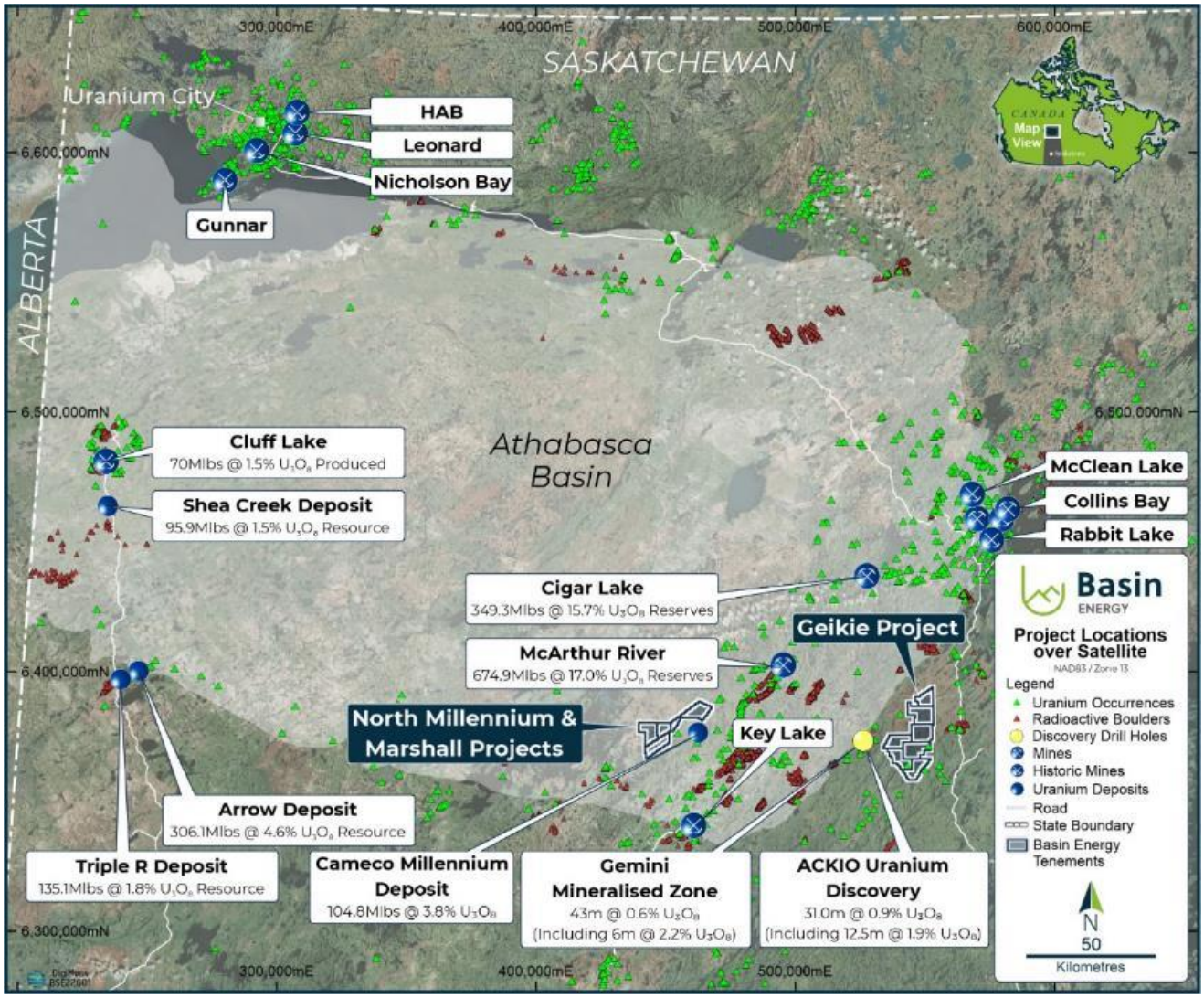

Figure 1[2]*: Project locations in relation to the Athabasca Basin*

Winter 2024 Geikie Drilling

The Geikie phase 2 drill program mobilised in February with the program estimated to take 6 to 8 weeks to complete. Subsequent to the Reporting Period, the program has been completed for a total of 2,295 metres over 8 drill holes, with demobilisation underway. Drilling services were contracted by Athabasca Catering Limited Partnership, a 100% First Nations-owned company, who are partnered with ITL Diamond Drilling Ltd.

[2] *Refer to Basin Energy ASX Prospectus dated 22/08/2022 for quoted mineralisation, resources figures and background information.*

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Drilling data interpretation and analysis is now being reviewed, with final assay results expected to be received in the next few weeks. The Company will provide an update on interpreted results and next steps as soon as practical.

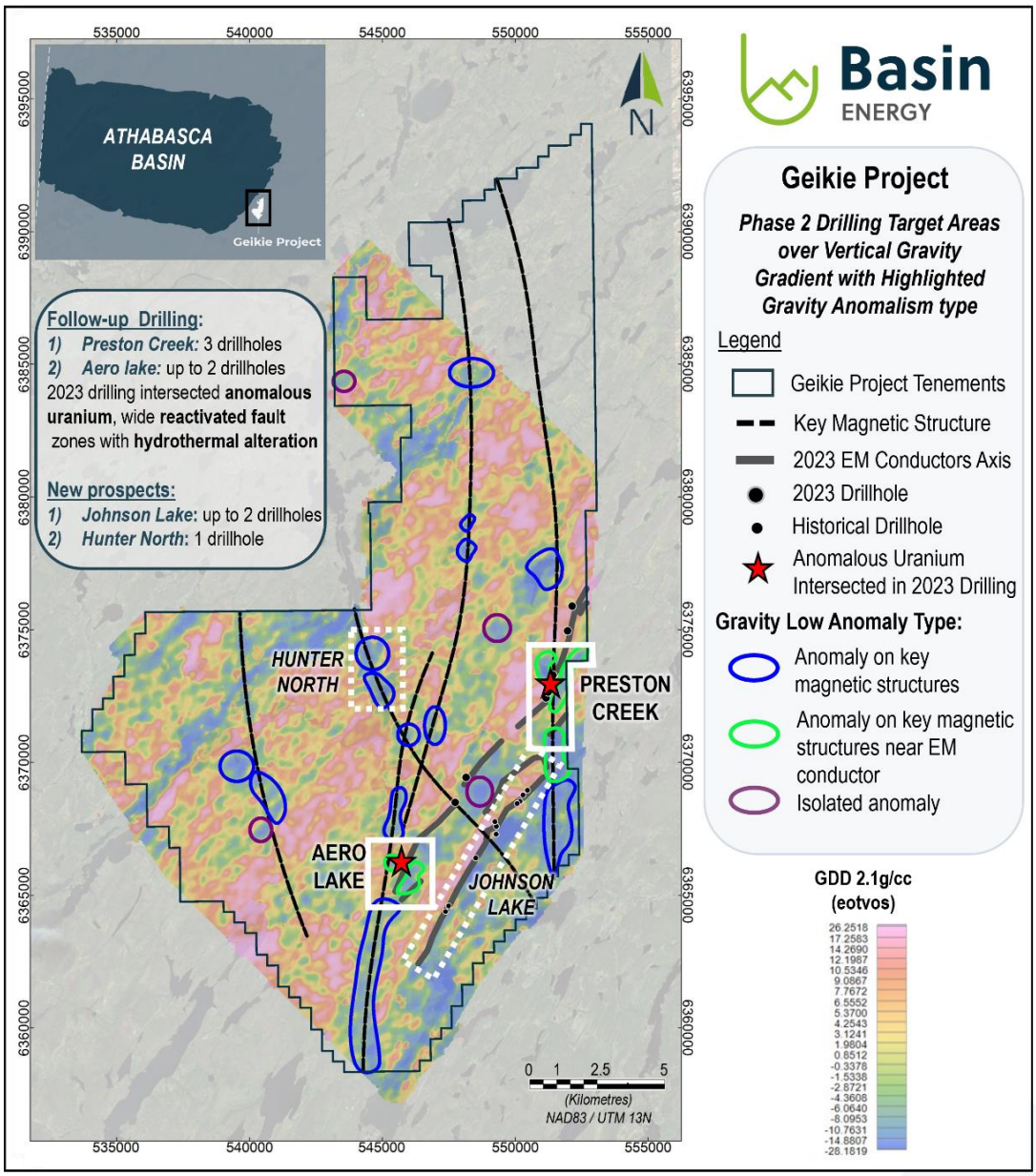

***Figure 2**: 2024 Exploration drilling priorities at Geikie*

Basin's 2023 maiden drill program successfully identified large complex fault systems associated with locally extensive hydrothermal alteration[3,4]. Assay results returned anomalous uranium intersected in four of the eight holes drilled and pathfinder element anomalism for uranium mineralisation, specifically lead isotopes, in five of the eight holes[4] drilled. Core logging data, combined with previous ground

[3] *Refer Basin Energy ASX release dated 10/08/2023 "Elevated Radioactivity and Significant Hydrothermal Alteration Identified at Geikie".*
[4] *Refer Basin Energy ASX release dated 20/09/2023 "Basin Energy Intersects Uranium Mineralisation up to 0.27% in Maiden Drilling at Geikie".*

prospecting results[5], have allowed increased confidence levels on lithological interpretations in areas of primary interest at the Geikie Project.

Subsequent to the completion of the 2023 maiden drilling programme, Basin acquired high resolution Airborne Gravity Gradiometer ("AGG") data targeting areas of enhanced basement alteration associated with drill defined uranium fertile structural corridors. The AGG data highlighted a series of gravity low anomalies[6] coincident with key structural features identified through high-resolution magnetic data[7], some of which have been intersected in the 2023 drillholes. Modelling of select gravity low anomalies supports interpretation of active hydrothermal systems adjacent to drilling prospects.

Phase 2 drill targets have been designed to follow-up on the encouraging results from the 2023 maiden drill program and to test high-priority gravity anomalies defined from the AGG survey. The drill targets have been designed to focus on specific fault zones in key prospect areas. These fault zones provide an ideal location for mineralised fluids to focus and precipitate. This is evident by the nearby GMZ-ACKIO mineralised zone discovery on neighbouring tenements owned by Atha Energy and Baselode Energy, respectively. Basin's Geikie Project is located less than 10 kilometres east of the GMZ-ACKIO mineralised zone and within a similar geological setting (Figure 1).

Winter 2024 Geophysics

Work at the North Millennium and Marshall projects included a high-resolution ground Stepwise Moving Loop Time-Domain Electromagnetic ('**EM**') survey**.** The survey was designed to enable target optimisation following the success in identifying anomalism from modelling and inverting historic geophysical data[8],[9]. The survey has now been completed and final data is expected imminently.

The North Millennium and Marshall projects are located in the southeastern portion of the Athabasca Basin and situated 7 km north of Cameco's Millennium uranium deposit, host to 104.8 million pounds U_3O_8 at 3.76% and just 40 kilometres from the prolific McArthur River Mine host to 674.9 million pounds U_3O_8 at 17.0%[10] (Figure 3).

A ground-based high-resolution Stepwise Moving Loop Time-Domain EM survey has been completed consisting of 86-line kilometres, with Discovery International Geophysics Inc. conducting the work.

At North Millennium, Basin is exploring along the interpreted extension of the "Mother Fault", which is host to the Cameco majority owned Millennium deposit (Figure 3). Despite its proximity and geological similarities to significant uranium deposits, there has been minimal mineral exploration at the Project with no known historical exploration drill holes. Historical drilling near a neighbouring project intersected a mineralized fracture immediately above the unconformity (0.05 m at 0.13% U_3O_8) and a wide graphitic-pyritic pelite interval in the basement[11]. Modelling of historic geophysical data by Basin in 2023 defined

[5] *Refer Basin Energy ASX release dated 14/12/2022 "Airborne EM survey commence at Geikie".*
[6] *Refer Basin Energy ASX release dated 15/11/2023 "Gravity Survey Identifies Significant Anomalies at the Geikie Uranium Project*
[7] *Refer Basin Energy ASX release dated 13/10/2022 "Maiden geophysical survey defines multiple priority targets at Geikie"*
[8] *Refer Basin Energy ASX release dated 28/09/2023 "Priority Targets Identified at Marshall Uranium Project".*
[9] *Refer Basin Energy ASX release dated 15/09/2023 "Unconformity Uranium Targets Identified at North Millennium".*
[10] *Refer to Basin Energy ASX Prospectus dated 22/08/2022 for quoted mineralisation, resources figures and background information*
[11] Refer to https://www.canalaska.com/project/mctavish/.

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the extension potential of the Millennium Mother fault, known to be the conduit for uranium mineralisation.

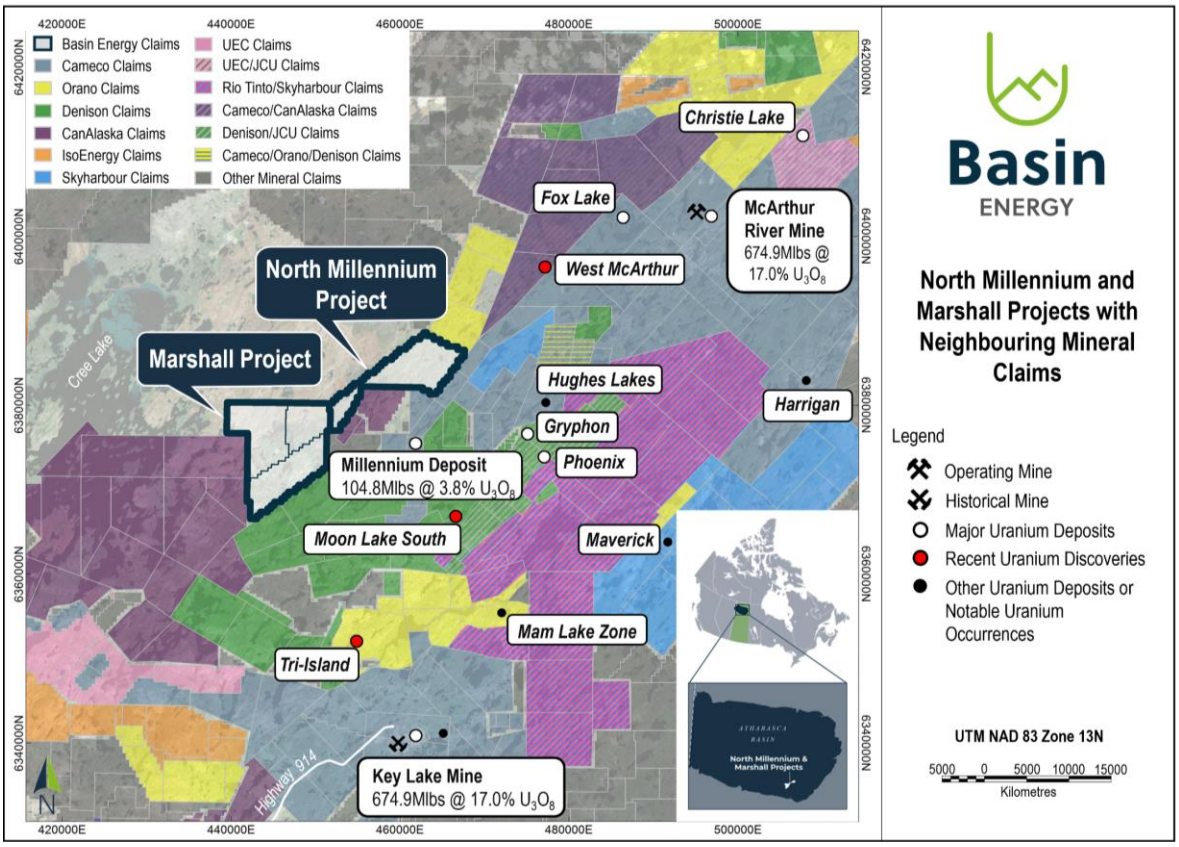

Figure 3: *Basin's North Millennium and Marshall uranium project locations*[10]

A ground-based high-resolution Stepwise Moving Loop Time-Domain EM survey has been completed consisting of 86-line kilometres, with Discovery International Geophysics Inc. conducting the work.

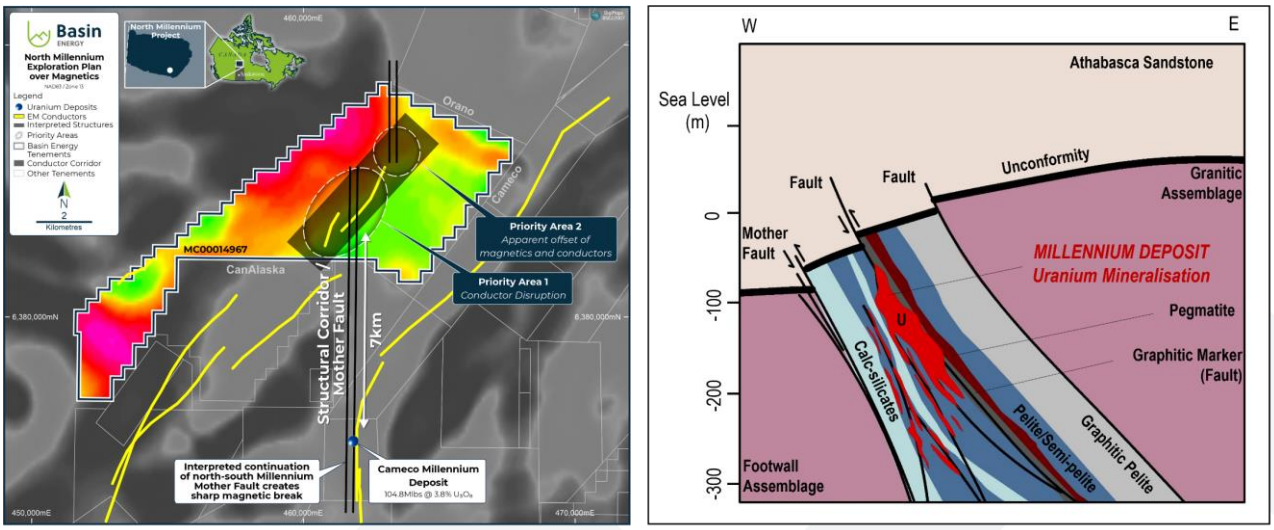

Figure 4: *North Millennium Project Exploration Plans (left) and Cameco's Millennium Deposit type section (right)*[12].

[12] *After Wood, G., et al, 2012, An interpretation of surface and borehole seismic surveys for mine planning at the Millennium uranium deposit, northern Saskatchewan, Canada. Geophysics, Vol.77, No.5 (September-October 2012).*

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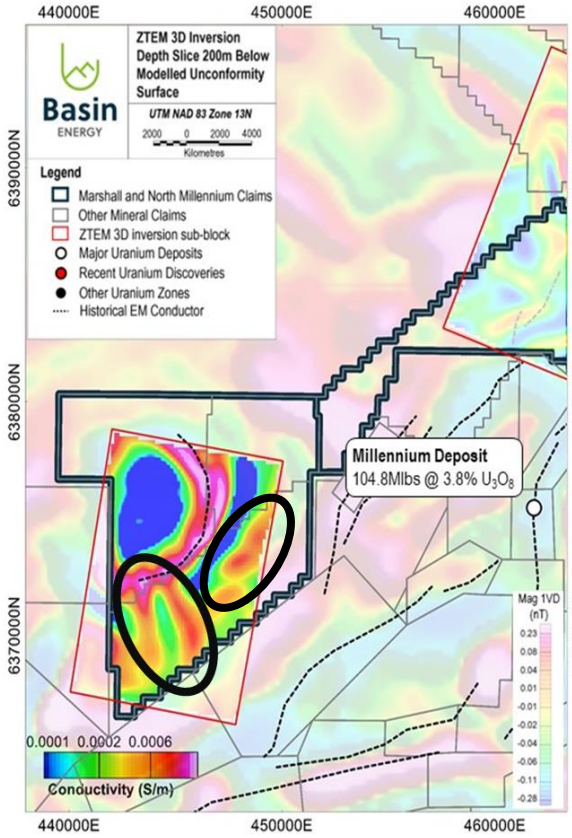
At the Marshall Project, Basin is exploring a series of large-scale geophysical features. Modelling of historic geophysical data by Basin in 2023 defined a series of anomalies both below and above the Athabasca unconformity contact[8].

The ground EM survey at the Marshall and North Millennium is a crucial extra data layer to de-risk future drill targeting on the projects.



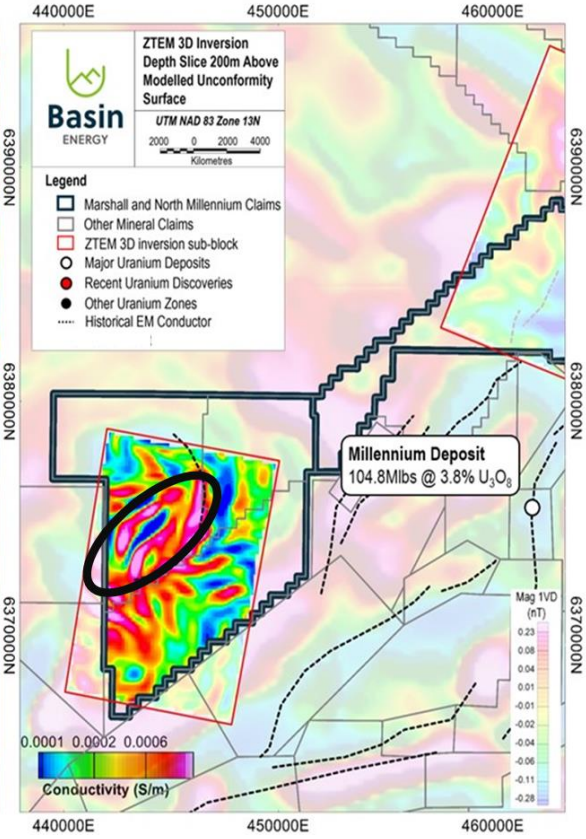


Figure 5 (left): *3D inversion ZTEM depth slice 200m below modelled unconformity surface over first vertical derivative magnetics.*
Figure 6 (right): *3D inversion ZTEM depth slice 200m above modelled unconformity surface over first vertical derivative magnetics.*

Corporate and Other Business

The Company successfully raised A$3.3 million (before costs) via a share placement ('**Placement'** or '**Offer'**) to institutional, sophisticated, and professional investors. The Placement issued 20,869,923 new fully paid ordinary shares at $A0.16 per share, representing a 10% discount to 15-day volume weighted average price. Canaccord Genuity, Discovery Capital and Cumulus Wealth Management acted as joint lead managers for the Offer.

The Placement provides the Company with funding capacity to expand the ongoing exploration programs at its Athabasca uranium projects.

The Company was successfully admitted to the ASX on 30 September 2022 and commenced trading on 4 October 2022.

- As of 31 March 2024, the Company held A$5.1 million in cash. Full details of the Company's cash movements during the Quarter are detailed in the attached Appendix 5B.

- As per ASX Listing Rule 5.3.1, incurred exploration expenditures were primarily related to geophysical surveys and technical surveys at the North Millennium and Marshall Projects, and exploration drilling at the Geikie Project. Exploration expenditures incurred during the Quarter are reported at A$1,134,000.

- As per ASX Listing Rule 5.3.2, there were no substantive mining production and development activities undertaken during the Quarter.

- In accordance with Listing Rule 5.3.5, the Company advises that payments made to related parties as disclosed in the Appendix 5B for the Quarter were A$136,000 for Director fees and Managing Director salary.

- In accordance with Listing Rule 5.3.4, below is a comparison of the Company's actual expenditure to 31 March 2024 against the estimated expenditure in the 'use of funds' statement:

Use of Funds	Per IPO Prospectus 2 year period	Expenditure to date to 31 March 2024
	$	$
Direct Exploration Costs	$7,176,321	$5,231,193
Working Capital	$1,489,960	$1,959,325
Costs of the Offer	$958,367	$834,995
TOTAL	**$9,624,648**	**$8,025,513**

Table 1: *Use of funds*

The Company confirms that the use of funds is consistent with statements made in the prospectus.

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Mining Tenement Status

The Company holds interests in three projects located within or adjacent to the Athabasca Basin in Northern Saskatchewan, Canada. The following information is provided pursuant of Rule 5.3.3 for the current Reporting Period:

Project	Permit Number	Basin Ownership[1] at 1 January 2024	Basin Ownership* at 31 March 2024	Area, ha
Geikie	*MC00015156*	*60%*	*60%*	*3,312*
	MC00015157	*60%*	*60%*	*5,998*
	MC00015158	*60%*	*60%*	*5,548*
	MC00015160	*60%*	*60%*	*5,788*
	MC00015161	*60%*	*60%*	*4,308*
	MC00015162	*60%*	*60%*	*4,468*
	MC00015165	*60%*	*60%*	*4,475*
	MC00017352	*60%*	*60%*	*661*
	MC00017353	*60%*	*60%*	*526*
Marshall	*MC00015073*	*100%*	*100%*	*4,232*
	MC00015074	*100%*	*100%*	*2,417*
	MC00015075	*100%*	*100%*	*4,576*
North Millennium	*MC00014967*	*40%*	*40%*	*5,873*

Table 2: *Basin Energy mining tenement / mineral claim status*

**Basin entered a property option agreement for 100% of the Marshall Project, and a joint venture agreement to earn up to 80% of the Geikie and North Millennium Projects on 22 April 2022.*

This announcement has been approved for release by the Board of Basin Energy.

Enquiries

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Company Overview

About Basin Energy

Basin Energy (ASX: **BSN**) is a uranium exploration and development company with an interest in three highly prospective projects positioned in the southeast corner and margins of the world-renowned Athabasca Basin in Canada.

Directors & Management

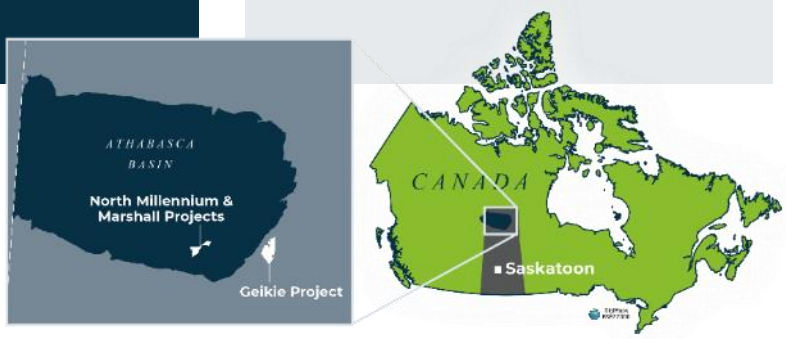
Pete Moorhouse	**Managing Director**
Blake Steele	**Non-executive Chairman**
Cory Belyk	**Non-executive Director**
Jeremy Clark	**Non-executive Director**
Peter Bird	**Non-executive Director**
Ben Donovan	**NED & Company Secretary**
Odile Maufrais	**Exploration Manager**

Basin Energy
ACN 655 515 110

Projects
North Millennium
Geikie
Marshall

Shares on Issue
104,104,697

ASX Code
BSN



Investment Highlights

Pureplay Uranium Company Leveraged to the global low carbon economy megatrends, with a North American focus

Well funded – Cash in bank to complete ongoing work, and conduct follow up drilling at Geikie to advance initial success exploring for shallow high-grade uranium

Direct exposure to high grade uranium within the world class uranium mining district of the Athabasca Basin, Saskatchewan, Canada – a top three global uranium producer for over 45 years

Strategically located near world-class high-grade uranium discoveries, mining and processing operations with a constant uranium mining industry for 65 years

Located in Saskatchewan, a globally attractive and proven mining jurisdiction – Ranked 2nd in Fraser Institute 2021 global mining investment attractiveness index

Systematic exploration approach Clear exploration strategy allowing a gated approach to target generation and testing

Leveraging an extensive high-quality geological database assembled over decades, with significant recent exploration success

Experienced and dedicated team with relevant uranium exploration and development track record

Competent Persons Statement, Resource Figure Notes and Forward-Looking Statement

The information in this announcement that relates to exploration results was first reported by the Company in accordance with ASX listing rule 5.7 in the Company's prospectus dated 22nd August 2022 and announced on the ASX market platform on 30th September 2022, and data announced in subsequent ASX press releases by Basin Energy relating to exploration activities. The information included within this release is a fair representation of available information compiled by Odile Maufrais, a competent person who is a Member of the Australian Institute of Geoscientists. Odile Maufrais is employed by Basin Energy Ltd as Exploration Manager. Odile Maufrais has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves. Odile Maufrais consents to the inclusion in this presentation of the matters based on his work in the form and context in which it appears.

All resource figures shown within this document of deposits within the Athabasca, unless stated are quoted from the International Atomic Energy Agency (IAEA) Tecdoc 1857. Resources are global and include mined resource and all classification of remaining resource. Resource Size (U3O8) is the amount of contained uranium (in Mlbs U3O8) and average grade (in % U3O8) of the deposit/system. This number is presented without a specific cut-off grade, as the cut-off value differs from deposit to deposit and is dependent on resource calculation specifications. Discrepancies between values in this field and other values in the public domain may be due to separate cut-off values used, or updated values since the writing of this document. For system entries, the values for the size were obtained by adding the individual deposits values whereas average grade values were derived using a weighted average of the individual deposits.

This announcement includes certain "Forward-looking Statements". The words "forecast", "estimate", "like", "anticipate", "project", "opinion", "should", "could", "may", "target" and other similar expressions are intended to identify forward looking statements. All statements, other than statements of historical fact, included herein, including without limitation, statements regarding forecast cash flows and future expansion plans and development objectives of Basin Energy involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements.

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