

17 May 2021

92 Energy stakes two highly prospective projects

HIGHLIGHTS

- 92 Energy Limited (92E) has expanded its portfolio of projects in the Athabasca Basin region (Canada), with the acquisition of two new project areas, covering a total of 23,000 hectares.
- The projects were identified using 92E's prospectivity modelling of the Athabasca Basin region, highlighting the strength of the Company's technically driven approach.
- While there has been significant historical exploration in and around the project areas, most of this was conducted prior to the 1980s and without the use of modern techniques.
- Historical exploration located numerous instances of outcropping uraninite veins.
- Initial analysis suggests the new projects are prospective for shallow, basement-hosted unconformity-type uranium deposits, aligned with 92E's strategy of exploring for large, high-grade uranium deposits.
- Further comprehensive analysis of the historical exploration is underway and the Company will provide an update and more detailed update on its exploration plans upon completion.

Uranium exploration company, 92 Energy Limited (ASX:92E) ('92E' or 'the Company'), has expanded its portfolio of projects with the pegging of two uranium exploration projects which cover 23,000 hectares, close to the north western edge of the Athabasca Basin in Saskatchewan Province, Canada.

The Company's Chief Executive Officer, Siobhan Lancaster, said of the new project areas:

"We are very pleased to add two highly prospective projects to our existing project areas, expanding our footprint in the globally recognised Athabasca Basin."

"These project areas have been identified and ultimately selected using our in-house uranium prospectivity model. The abundance of uraninite vein occurrences, and limited exploration activity over the past 35 years, adds weight to the selection of these projects."

"We are in the process of carrying out further analysis, based on historical data, to classify the significance of these uranium occurrences. This analysis will assist the Company in determining our exploration plans and priorities within these projects."

Background

92 Energy is pleased to announce that it has confirmed 100% ownership of two newly pegged projects, consisting of seven mineral claims (MC14849-55) at the north-western edge of the Athabasca Basin, Canada. The **Cypress River** project consists of a single claim of 3,474 hectares and the **Powerline Creek** project consists of six claims of 19,572 hectares. These areas were identified as highly prospective for unconformity-type uranium deposits by the Company's mineral prospectivity analysis.

92 Energy's projects are located immediately to the west of the historic **Beaverlodge** uranium district, which contained the **Eldorado** and **Gunnar** mines. Eldorado and Gunnar produced 47 Mlb and 18 Mlb U_3O_8 respectively (Fig. 1)¹. The Hab, Cinch, Cayzor, Rix Smith and Cenex mines collectively produced a further 2.5 Mlb². The deposits can be regarded as a variant of the basement-hosted sub-type of the unconformity-type deposit which is the company's main target type. The overall grade of Beaverlodge production was 0.25% U_3O_8 ³.

The enormous number of uranium occurrences (Fig. 1) reflects the extraordinary prospectivity of this area, coupled with a moderate level of outcrop and extensive exploration during the nineteen sixties and seventies. As with many parts of the world, exploration ceased completely in the 1980s and 1990s with only minor activity after this. Consequently, the area remains underexplored by modern methods.

¹ Ward D.M., 1982, Beaverlodge Mine Geology Closure Report: Eldorado Nuclear Ltd. Exploration Division Report, 170 pp

² Ward D.M., 1982, Beaverlodge Mine Geology Closure Report: Eldorado Nuclear Ltd. Exploration Division Report, 170 pp

³ Ward D.M., 1982, Beaverlodge Mine Geology Closure Report: Eldorado Nuclear Ltd. Exploration Division Report, 170 pp

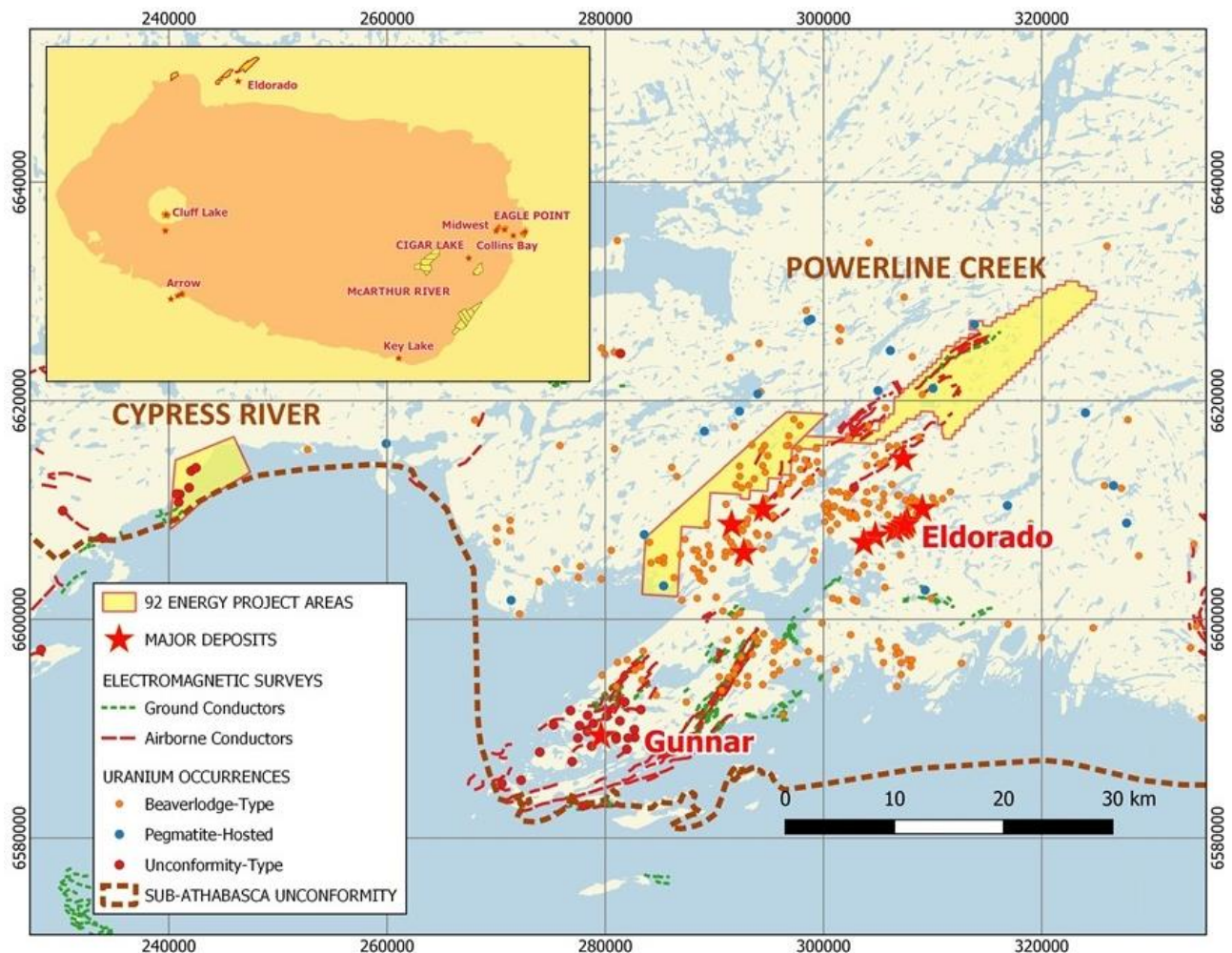


Figure 1: Location of 92 Energy's NW Athabasca projects with respect to uranium mines and occurrences.

Powerline Creek Project

The Powerline Creek project straddles a prominent NE-SW trending structural corridor defined by potential field datasets and the outcropping Powerline Creek and Spot Lake Faults. The dominant rocks are quartzo-feldspathic gneisses and amphibolite of presumed Proterozoic age, part of the Zemlak lithotectonic domain. No rocks equivalent to the Athabasca Formation outcrop in this area.

Thirty-five occurrences of uranium are documented within the project area⁴. These include numerous instances of outcropping uraninite (UO_2) and uranophane ($\text{Ca}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2 \cdot 5\text{H}_2\text{O}$) veins and radioactive breccia in metamorphic basement rocks (principally quartz-feldspathic gneiss). For example, Occurrence 26-1 is a 5m long outcropping vein of massive uraninite within garnet-bearing gneiss. A 47m deep shaft and lateral workings were historically completed at the Beta-Gamma mine and 50 tons of 0.77% U_3O_8 produced⁴.

⁴ Saskatchewan Mineral Deposit Index - <https://applications.saskatchewan.ca/mineral-deposit-index>



Part of the northern portion of this project includes a 16km long zone of airborne and ground EM (electro-magnetic) conductors inferred to be graphitic rocks prospective for unconformity-type uranium (Fig. 1). This together with the widespread occurrence of outcropping massive uraninite veins confirms the prospectivity of this area.

Cypress River Project

The Cypress River project straddles another prominent NE-SW trending structural corridor defined by potential field datasets and includes metamorphic basement rocks outcropping immediately north of the edge of the Athabasca Basin. These rocks are mainly leucogranite and garnet leucogranite commonly showing the effects of mylonitisation and fracturing. This is regarded as a favourable indication of the structural preparation that is essential for the formation of unconformity-type deposits.

There are six known uranium occurrences within this project area, all of which are described as unconformity-type⁴.

Exploration Program

The company is in the process of reviewing previous exploration assessment reports prior to developing an appropriate exploration strategy.

This announcement has been authorised for ASX release by the Board of the Company.

For further information contact:

Siobhan Lancaster
Chief Executive Officer
+ 61 8 9322 7600
siobhan@92energy.com

John Gardner
Citadel-MAGNUS
+61 413 355 997

ABOUT 92E

92 Energy Limited is an Australian, ASX listed, uranium exploration company exploring for high-grade unconformity-type uranium in the Athabasca Basin, Saskatchewan, Canada.

The Company owns 100% interest in its 21 mineral claims in and adjacent to the Athabasca Basin, Canada. These 21 claims make up the Company's 5 projects Gemini, Tower, Clover, Powerline Creek and Cypress River.

Competent Person's Statement

The information in this announcement was provided by Dr Andy Wilde, a Competent Person who is a Fellow and registered professional geoscientist (RPGeo) of the Australian Institute of Geoscientists (AIG) and Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). Dr Wilde is Exploration Manager for 92 Energy Ltd has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking, to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr Wilde consents to the inclusion in this announcement of the matters based on the information in the form and context in which it appears. Dr Wilde holds shares in the Company.

Forward Looking Statements

Some statements in this announcement regarding estimates or future events are forward-looking statements. Forward-looking statements include, but are not limited to, statements preceded by words such as “planned”, “expected”, “projected”, “estimated”, “may”, “scheduled”, “intends”, “anticipates”, “believes”, “potential”, “could”, “nominal”, “conceptual” and similar expressions. Forward-looking statements, opinions and estimates included in this announcement are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on interpretations of current market conditions. Statements regarding plans with respect to the Company’s mineral properties may also contain forward looking statements.

Forward-looking statements are provided as a general guide only and should not be relied on as a guarantee of future performance. Forward-looking statements may be affected by a range of variables that could cause actual results to differ from estimated results expressed or implied by such forward-looking statements. These risks and uncertainties include but are not limited to liabilities inherent in exploration and development activities, geological, mining, processing and technical problems, the inability to obtain exploration and mine licenses, permits and other regulatory approvals required in connection with operations, competition for among other things, capital, undeveloped lands and skilled personnel; incorrect assessments of prospectivity and the value of acquisitions; the inability to identify further mineralisation at the Company’s tenements, changes in commodity prices and exchange rates; currency and interest rate fluctuations; various events which could disrupt exploration and development activities, operations and/or the transportation of mineral products, including labour stoppages and severe weather conditions; the demand for and availability of transportation services; the ability to secure adequate financing and management’s ability to anticipate and manage the foregoing factors and risks and various other risks. There can be no assurance that forward-looking statements will prove to be correct.