Anfield Completes Confirmation Drill Program at JD-7 Mine and Prepares for Resource Update

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VANCOUVER, Oct. 21, 2025 - <u>Anfield Energy Inc.</u> (TSX.V: AEC; NASDAQ: AEC; FRANKFURT: 0AD) ("Anfield" or "the Company") is pleased to announce the completion of a 20-hole, 8,000-foot confirmation drill program at its JD-7 mine, one of the five mines (JD5, JD-6, JD-7, JD-8 and JD-9) which make up the Company's Paradox Mine Complex. The drill results will be incorporated into a new uranium and vanadium resource report in Q1/26, alongside the additional drilling to be completed at the other JD mines.

Significant intercepts of mineralization from the program include:

- 17.0 ft grading an average of 5,190 ppm (0.519%) eU3O8 in Hole JD7-25-004B, with a peak of 14,850 ppm (1.485%) eU3O8 at 153.5 ft;
- 19.0 ft grading an average of 2,380 ppm (0.238%) eU3O8 in Hole JD7-25-005, with a peak of 9,240 ppm (0.924%) eU3O8 at 170.0 ft;
- 17.0 ft grading an average of 1,620 ppm (0.162%) eU3O8 in Hole JD7-25-012, with a peak of 5,990 ppm (0.599%) eU3O8 at 185.0 ft; and
- 21.0 ft grading an average of 2,500 ppm (0.250%) eU3O8 in Hole JD7-25-014B, with a peak of 7,770 ppm (0.777%) eU3O8 at 212.5 ft.

Corey Dias, Anfield's CEO, commented: "We are very pleased with the drill results as they not only underscore the potential for resource confirmation and possible expansion at JD-7 but also align with Anfield's broader strategy to advance its portfolio of near-term uranium and vanadium projects toward production. To that end, the creation of the Paradox Mine Complex reflects our plans to create specific targeted uranium and vanadium production centers as we advance these grouped assets through mine planning and, ultimately, production through Anfield's Shootaring Canyon mill.

Following the success of the Company's drill program at JD-7, Anfield will commence underground drilling at its remaining JD mines, after which the Company will aim to issue an updated uranium resource for the Paradox Mine Complex which will now also incorporate the more-recently acquired JD-5 mine."

Drill program results

Drilling commenced on September 15th, 2025, and preliminary downhole gamma results have been highly encouraging. A total of 23 drill holes were performed over the 20 planned drilling targets. All drilling activities were completed on October 9th, 2025, with reclamation activities ongoing to date. A total of 7,564 ft of drilling was performed of which 149 ft was performed by split barrel coring and the remainder was air rotary.

Drill hole results including Depth, Thickness and Grade, as determined by downhole geophysical logging, are shown on Figure 1. Uranium grade is reported as equivalent weight per cent. For sandstone hosted uranium the Grade Thickness product (GT) is commonly used as an indication of the intensity of mineralization. Gamma ray logging results indicate elevated uranium mineralization exceeding the typical minimum cutoff grade of 0.02 %eU₃O₈ (200 ppm) eU3O8 and minimum Grade Thickness (GT) of 0.2 in 15 of the 23 drill holes completed. These findings verify the presence of uranium mineralization at depths and locations consistent with the historical drilling dataset for the JD-7 mine.

The drilling results demonstrate robust uranium mineralization across the targeted areas, with eleven holes yielding a Grade Thickness (GT) over 0.5, indicating high-potential zones; six holes showing GT values between 0.1 and 0.5, reflecting moderate mineralization; five holes containing only trace mineralization, and one drill hole containing no mineralization over the 0.02% eU3O8 grade cutoff. The lower-strength intercepts are associated with the program's objective to delineate the outer boundaries of the mineralization, providing valuable data for refining resource models and supporting future mine planning and development at JD-7.

16.12.2025 Seite 1/3

Next steps include obtaining assay of the core sample for closed can (radiometric) and chemical uranium and vanadium grades. This data will be used along with correlation to downhole geophysical logging to assess radiometric equilibrium and to verify the vanadium to uranium ratio (V:U).

The verification of the historic drill data, confirmation of radiometric equilibrium and verification of the vanadium uranium ratio will allow re-assessment of the uranium and associated vanadium mineral resources at JD-7. The drill results will provide a higher level of confidence in the uranium and vanadium resource estimates.

Figure 1: Drill results

Split barrel core intervals were obtained from 5 of the 23 drill holes at 5 of the 20 planned drilling locations. These corings will be employed to provide physical samples of mineralized material. Cored intervals were completed using split-barrel core aimed at drilling through the mineralized zones. Four of the five cored locations intercepted mineralization above the minimum grade cutoff.

The core samples were analyzed by two arms-length laboratories: Pace Analytical of Sheridan, Wyoming and Hazen Research of Golden, Colorado. These labs used chemical methods to: 1) determine both uranium and vanadium content to evaluate the vanadium-to-uranium ratio of the mineralization; 2) to provide data to validate the uranium gamma ray logging results; and 3) further refine the uranium and vanadium resource estimates for JD-7 lease. The cores can also be used for mineralogical and metallurgical testing. This data will enhance the accuracy of the geological model and supports Anfield's efforts to advance the project toward production readiness.

Qualified Persons

Douglas L. Beahm, P.E., P.G., principal engineer at BRS Inc., is a Qualified Person as defined in NI 43-101 and has reviewed and approved the technical content of this news release.

About Anfield

Anfield is a uranium and vanadium development company that is committed to becoming a top-tier energy-related fuels supplier by creating value through sustainable, efficient growth in its assets. Anfield is a publicly traded corporation listed on the NASDAQ (AEC-Q), the TSX-Venture Exchange (AEC-V) and the Frankfurt Stock Exchange (0AD).

On behalf of the Board of Directors ANFIELD ENERGY INC. Corey Dias, Chief Executive Officer

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16.12.2025 Seite 2/3

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16.12.2025 Seite 3/3