

IsoEnergy's Hurricane Deposit – A New High-Grade Uranium Discovery in the Athabasca Basin, Saskatchewan

A. Carmichael¹, J. Rodko², F. Shah³ and C. Parry⁴

1. Senior Geologist acarmichael@isoenergy.ca
2. Project Geologist jrodko@isoenergy.ca
3. Exploration Geologist fshah@isoenergy.ca
4. Director cparry@isoenergy.ca

1-4. IsoEnergy Ltd, Suite 200 – 475 2nd Avenue S, Saskatoon, SK, Canada S7K 1P4

IsoEnergy's Hurricane zone is a new discovery of high-grade unconformity-related uranium mineralization in the northeastern Athabasca Basin of Saskatchewan. The Hurricane zone was discovered with IsoEnergy's first drill hole on the Larocque East property just 10 weeks after the property was acquired.

The discovery drill hole targeted the unconformity beneath a zone of sandstone alteration and elevated uranium geochemistry in historical drill hole KER-12, located immediately east of the western property boundary along the Larocque conductor trend. This fertile trend hosts significant uranium mineralization at the Larocque North, Larocque Lake, and Alligator Lake zones, all of which are located on the neighboring properties to the west and southwest. Although several features contributed to the top tier ranking of the discovery target, its location along the Larocque trend and proximity to several weakly mineralized drill holes was paramount.

Located 320m below surface, mineralization is polymetallic (U, Ni and Co) and straddles the flat-lying sub-Athabasca unconformity or is perched in the sandstone immediately above it. Anomalous concentrations of uranium and uranium pathfinder elements have been intersected throughout the overlying Athabasca Group sandstone in several drill holes. Like many Athabasca uranium deposits, mineralization is strongly structurally controlled and is spatially related to the intersection of graphitic basement fault zones with the unconformity. At Hurricane, brittle reactivation of east-west oriented fault zones has created a subtle ridge in the basement, the top of which is the preferred location for uranium mineralization. The best intersection to date is 8.5m @ 34% U₃O₈ in drill hole LE20-34, including 5.0m @ 57% U₃O₈

The Larocque East property encompasses approximately 15 km of the Larocque conductor trend, much of which is characterized by highly illitic sandstones above strong basement conductors that are only sparsely drilled.

¹IsoEnergy Ltd, Suite 200 – 475 2nd Avenue S, Saskatoon, SK, Canada S7K 1P4