

# **Duddridge Lake Project**North Central Saskatchewan

The Duddridge Lake Project consists of six claims totaling 12,954 hectares located thirty kilometres east of the village of Pinehouse in north central Saskatchewan. Access to the site is via float plane from Pinehouse Lake or La Ronge. There is trail (all¬terrain vehicle) access to the southern portion of the property.



Pinehouse

# Geology

The geology underlying the Duddridge Lake project is predominantly from the Wollaston Domain. The western edge of the Wathaman Batholith is present along the eastern side of the property. The Wollaston Domain and the Wathaman Batholith are separated by the Needle Lake Shear Zone. The property geology has a two syncline-anticline pairs present that are separated by northwest trending magnetic low features interpreted as tear faults that separate zone of increasing compressional deformation. A strong northeast trending electromagnetic high is present across the property. The electromagnetic high is coincident with a magnetic low indicating the potential presence of both graphitic and pyritic metasediments.



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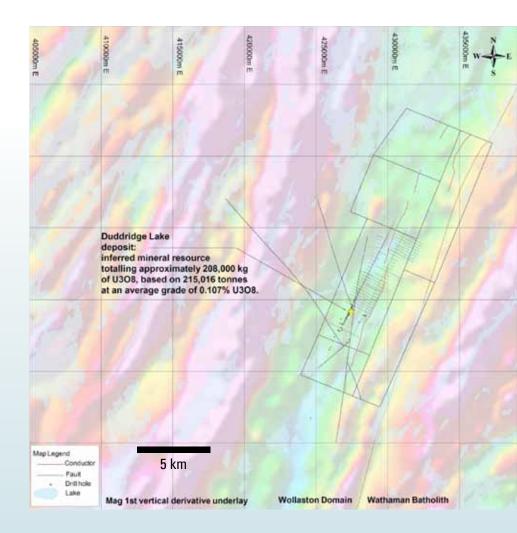
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# **Historic work**

- From 1950 to 1965 the Duddridge Lake area was mapped by the Geological Survey of Canada.
- From 1969 to 1981 the property area was regionally explored for uranium by Thor Explorations and Noranda Exploration. Airborne radiometrics identified thirteen areas of anomalous radioactivity. Followup ground surveys identified a boulder train enriched in both uranium and copper. Drilling identified the source of the uranium and copper mineralization as local carbonaceous metasediments.
- From 1992 to 1994 Noranda conducted further ground surveys and a short drilling program that intersected uranium mineralization over a 760 metre strike length. Subsequent drilling defined a 200 metre uranium-copper anomaly north of the known mineralization.
   Noranda allowed the claims to lapse in 1994.
- From 2004 to 2013 the property received further drilling, airborne surveying and various types of follow up ground sampling from Strathmore Minerals. In 2007 Fission completed a 43-101 compliant resource estimate on the Duddridge Lake deposit. An inferred mineral resource totaling 208,000 kilograms of U<sub>3</sub>O<sub>8</sub> was estimated based on 215,016 tonnes at an average grade of 0.107% U<sub>3</sub>O<sub>8</sub>. A drill program competed in 2008 indicates mineralization has not been cut-off to the north nor down dip.



## **Potential**

- The underlying basement geology belongs almost entirely to the Wollaston Domain and a major structural shear zone underlies the eastern side of the project claims.
- The Duddridge Lake property contains an inferred mineral resource and it is possible that the mineralization is open in two directions.
- The project remains prospective for 'Rabbit Lake' style basement hosted uranium mineralization.

## **Future Work:**

- · Continue to perform surficial ground geochemistry surveys to prioritize prospective drill targets.
- Increase the size of the uranium deposit by drilling potential extensions of known mineralization.
- Continue to drill prospective regional geological and geochemical anomalies on the property.

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