CAT STRATEGIC METALS CORP
South Preston Uranium Project
Athabasca Basin , Saskatchewan
Summer 2022 Exploration Plan
WGM
Geological and Mining Consultants | Since 1962

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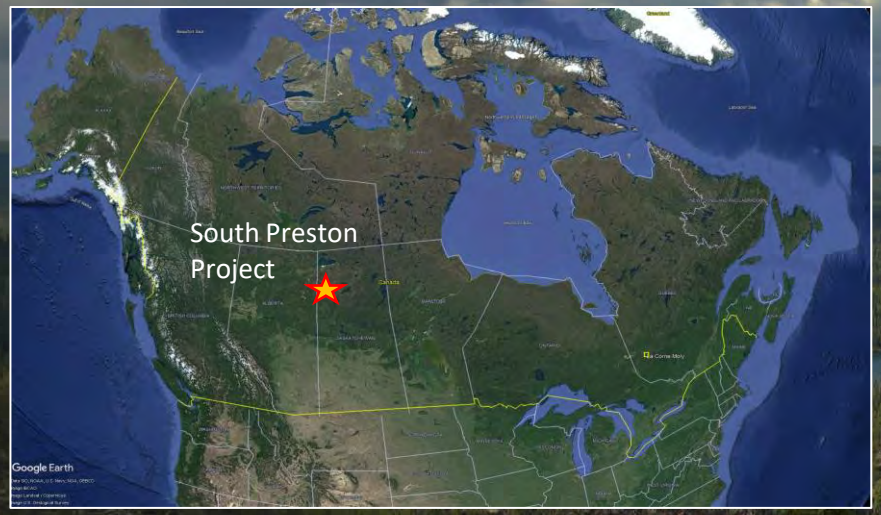

Figure 1: General location of the CAT South Preston project

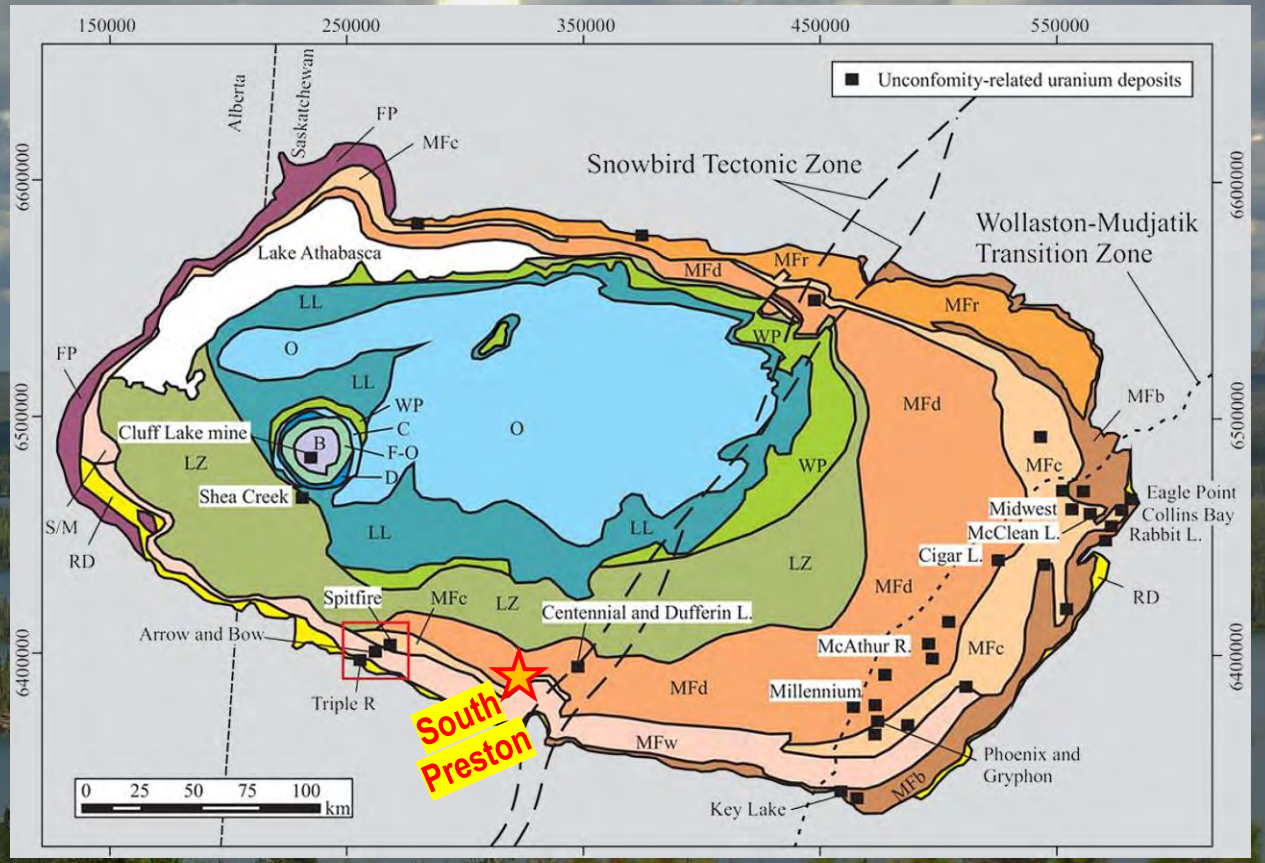

Figure 2: South Preston project situated on southwestern margin of the Athabasca Basin

- located adjacent to SW margin of the Athabasca Basin
- 12 secure exploration licences covering 206.8 km^2 and measuring 57 km east to west parallel to the basin margin
- centred 50 km east of the Patterson Lake South area, the location of the Fission Uranium and Nexgen Energy deposits highlighted in the red box in Figure 2

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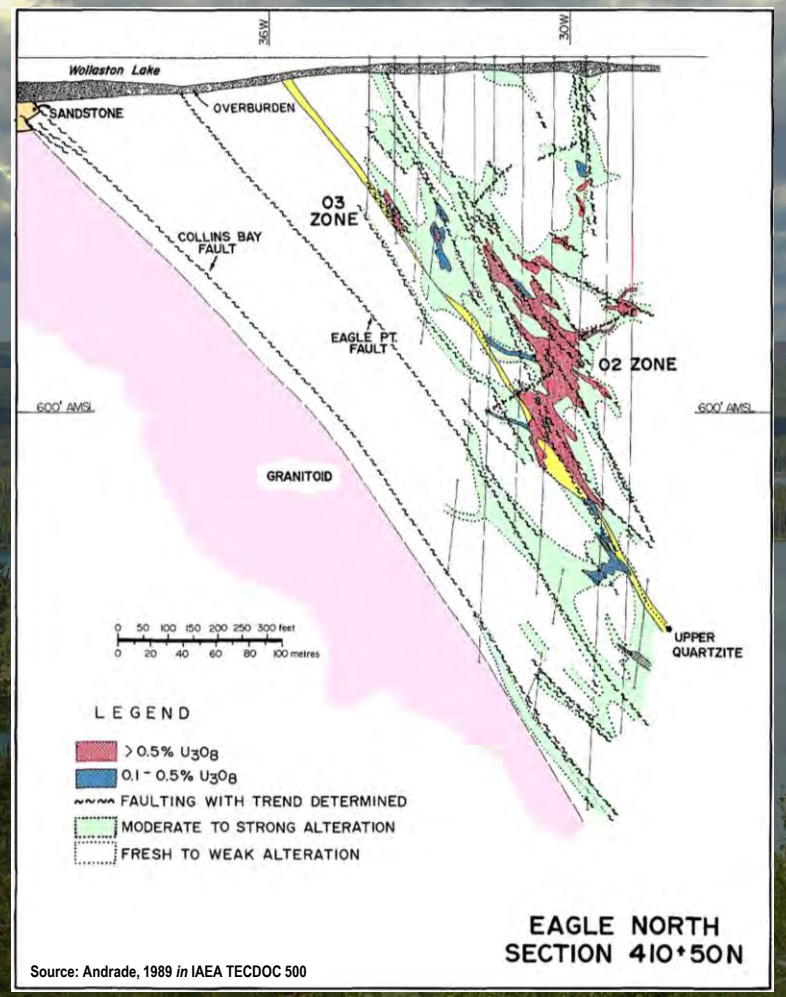
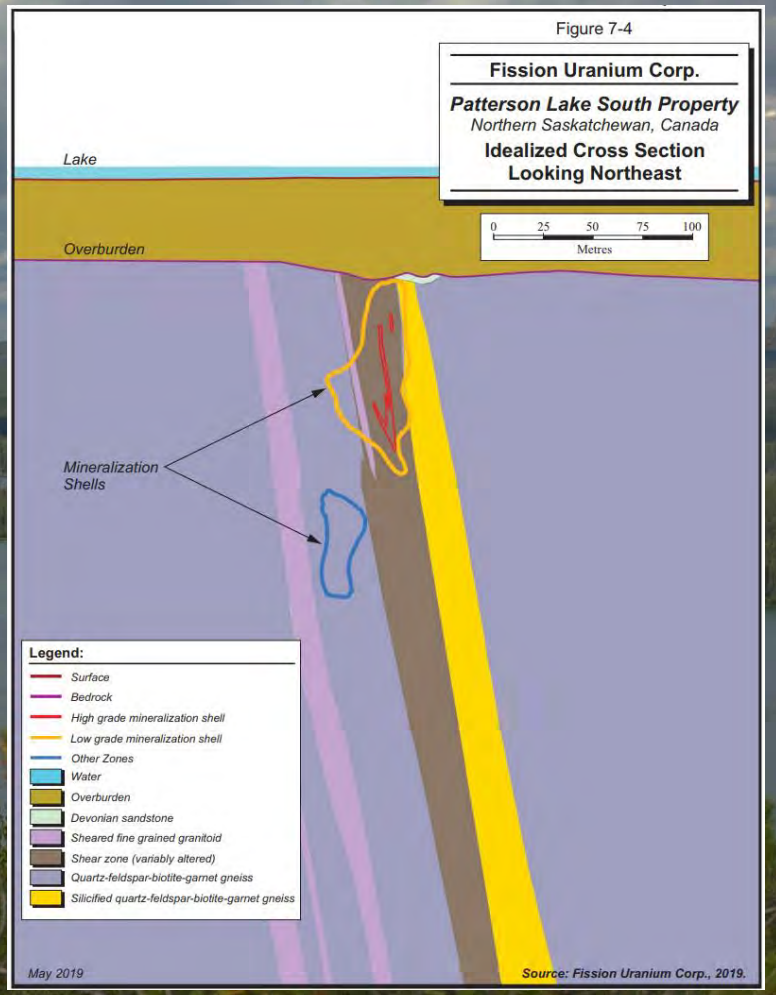
- geological setting of the CAT property is conventional in respect to other known unconformity-type uranium deposits in the Athabasca Basin
- pathways to discovery are provided by well established geological models that have been developed since the mid-1970s (e.g. the Eagle Point and Triple R deposits).
- exploration can be carried out using well-tested, conventional methods wioth a focus on geophysics, geochemical surveying and geology.





Figures 3 & 4: Typical vertical section through the Eagle Point Deposit (left) and an idealized vertical section through the Triple R deposit (right).

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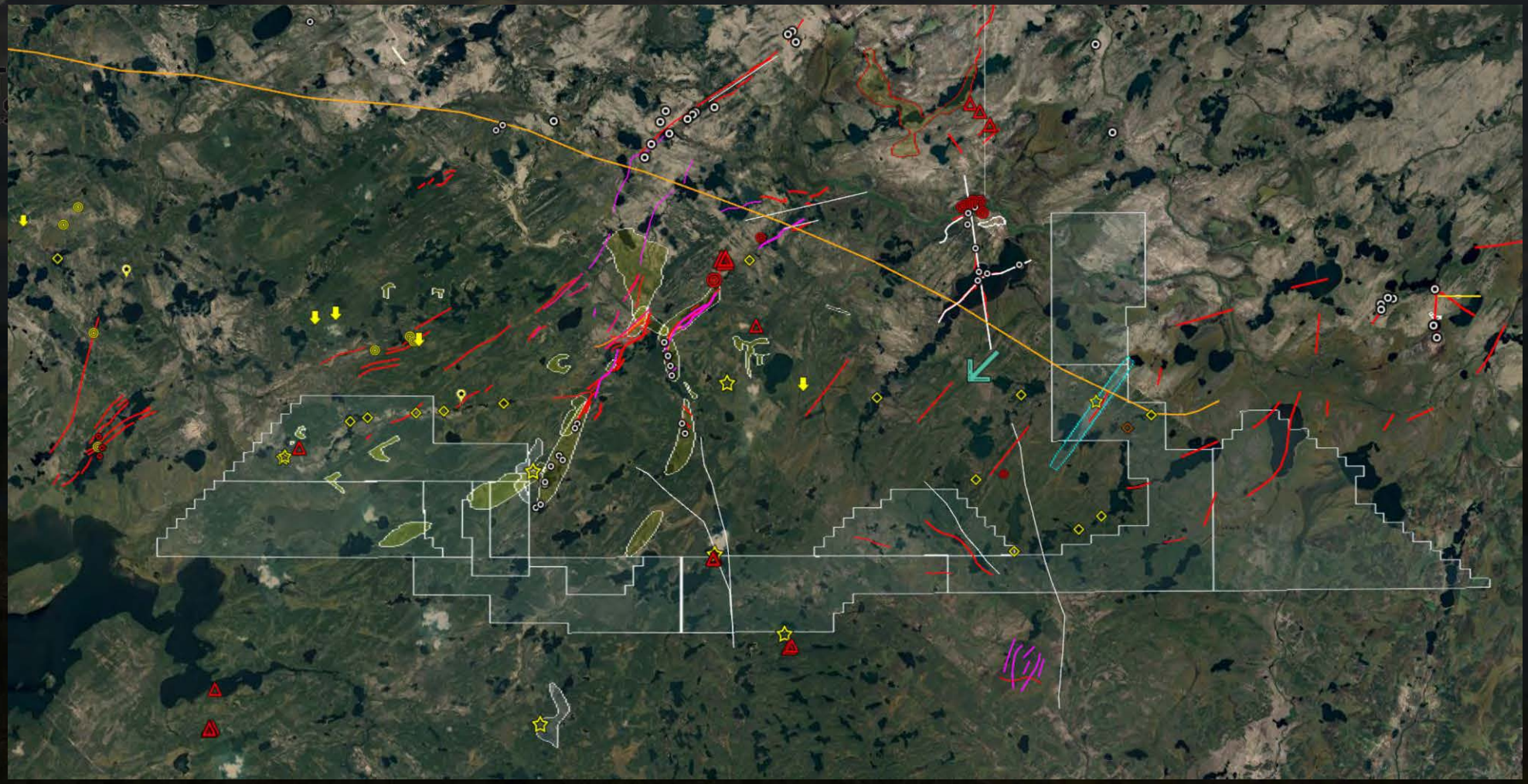

Figure 5: CAT licences showing historical exploration results.

- Athabasca unconformity crosses the eastern exploration licences
- Historical exploration focused along the unconformity and areas to the north – no recent work in the area of the CAT licences

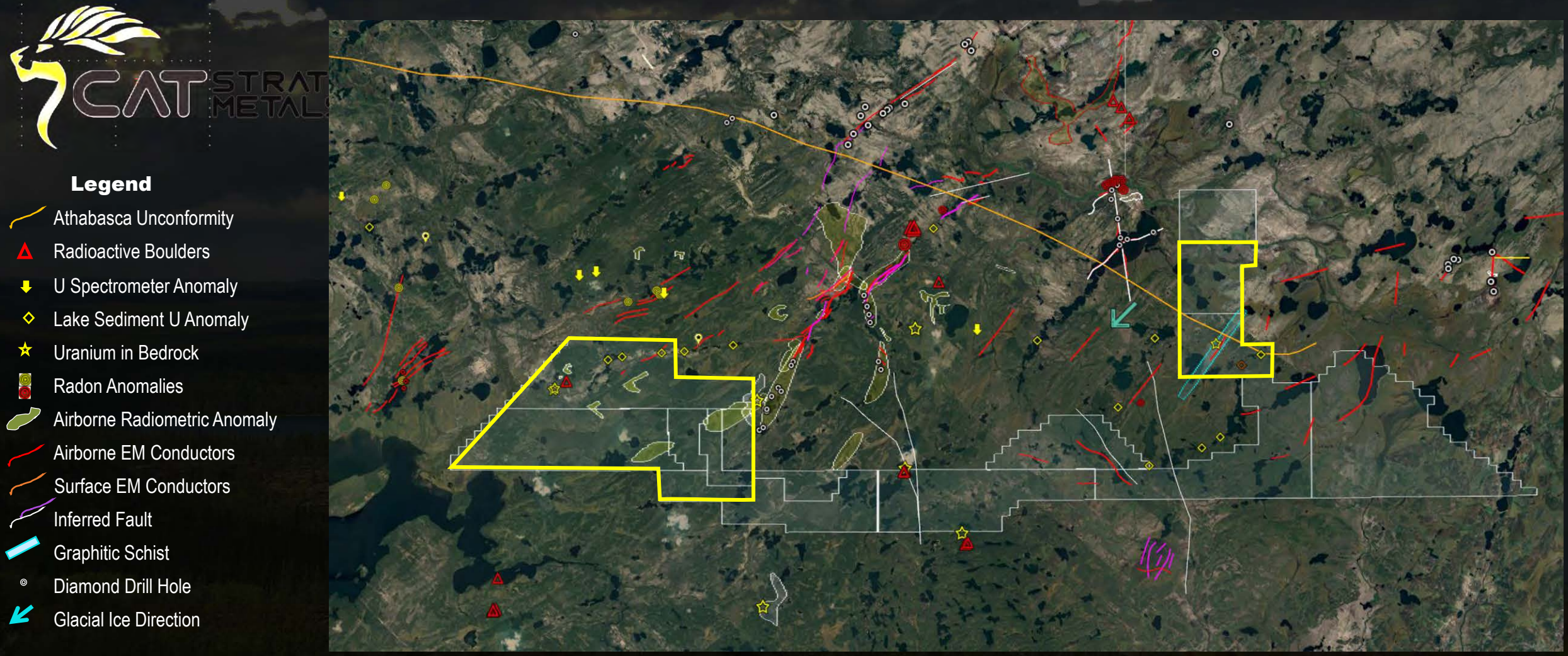

Figure 6: Two higher-potential target areas currently identified on the CAT licences.

- Priority areas selected on the basis of historical exploration programs that extended partially into the South Preston area.
- Historical exploration discounted the South Preston area due to the current lack of Athabasca sandstone cover

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- Area 1 selected on the basis of:
  - ✓ radioactive bedrock 10-15 X background levels;
  - ✓ airborne radiometric anomalies coincident with the projection of known conductors to the northeast currently being drilled by Azincourt;
  - ✓ uranium lake sediment anomalies in the general area; and,
  - ✓ a cluster of radioactive boulders on the southern shore of Lloyd Lake.
- The target area is scheduled for 868 line-kilometres of airborne EM and magnetometer surveying during May, 2022
- Follow-up ground exploration will consist of geological mapping, bedrock sampling and bio-geochemical sampling of spruce trees in areas overlying conductors.

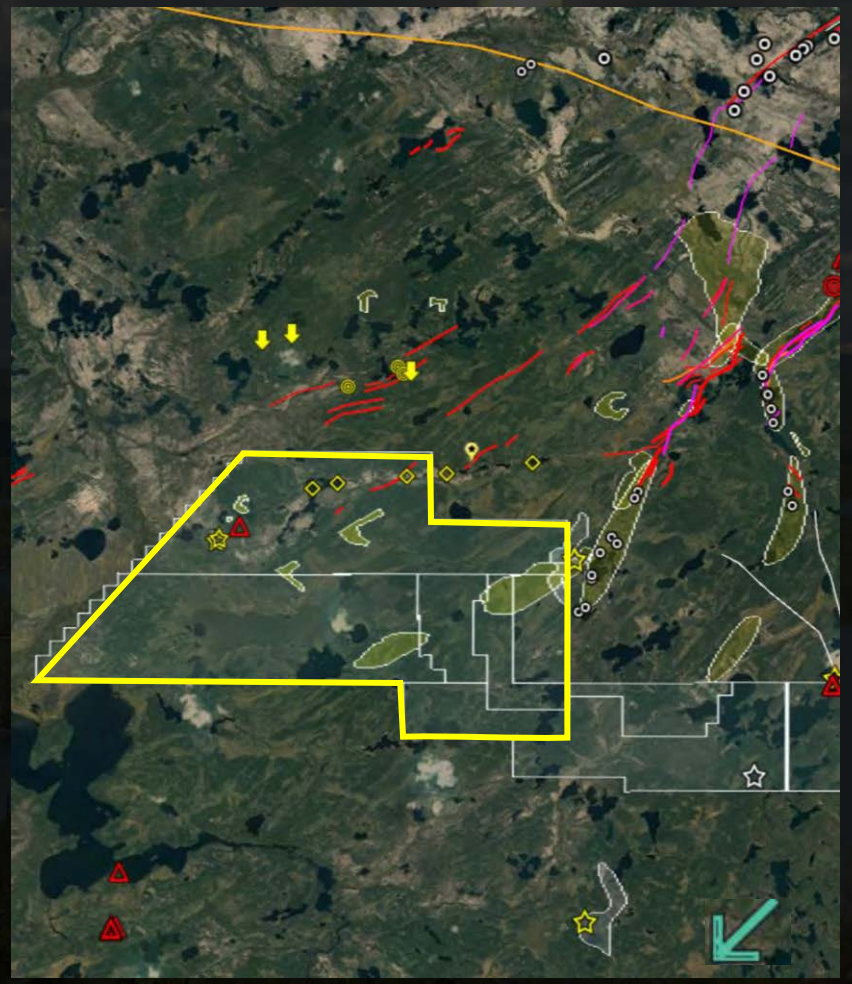

Figure 7: The western target area is outlined in yellow.

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- Area 2 selected on the basis of:
  - ✓ Uranium mineralization described in graphite-bearing structure with a coincident EM conductor (Denison Mines, 1969 surface exploration);
  - ✓ Outliers of Athabasca sandstone indicate proximity to the unconformity (currently removed by erosion);
  - ✓ lake sediment and radon anomalies in the general area
- The target area is scheduled for approximately 120 line-kilometres of airborne EM and magnetometer surveying during May, 2022
- Follow-up ground exploration will consist of geological mapping, bedrock sampling and bio-geochemical sampling of spruce trees in areas overlying conductors.

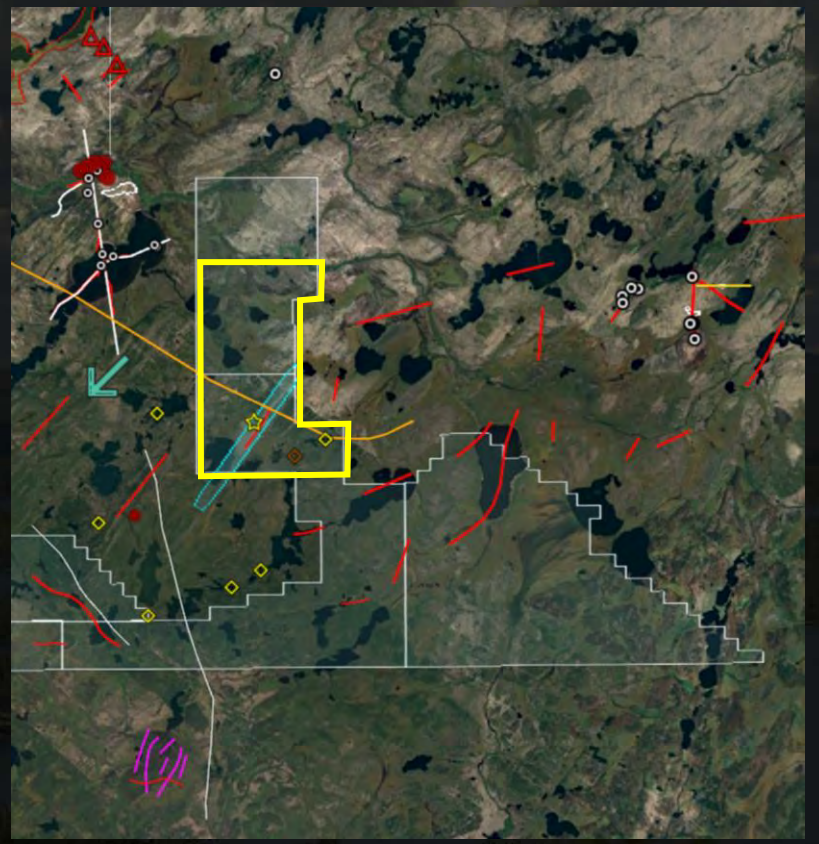

Figure 8: The eastern target area is outlined in yellow.

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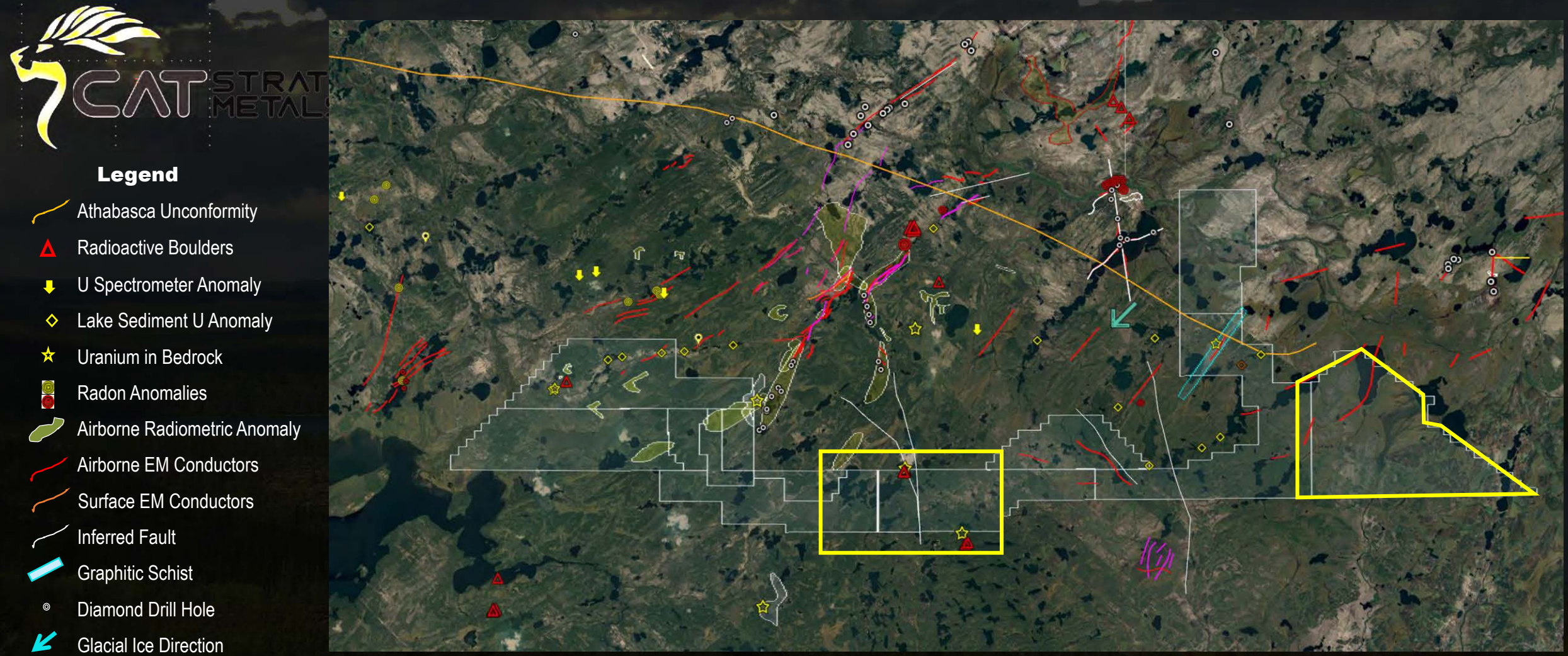

Figure 9: Other potential focus areas on the CAT licences.

- Central area contains radioactive boulders on or near northern and southern margins and is essentially unexplored
- Eastern area is overburden covered and has not been systematically explored with appropriate technology

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