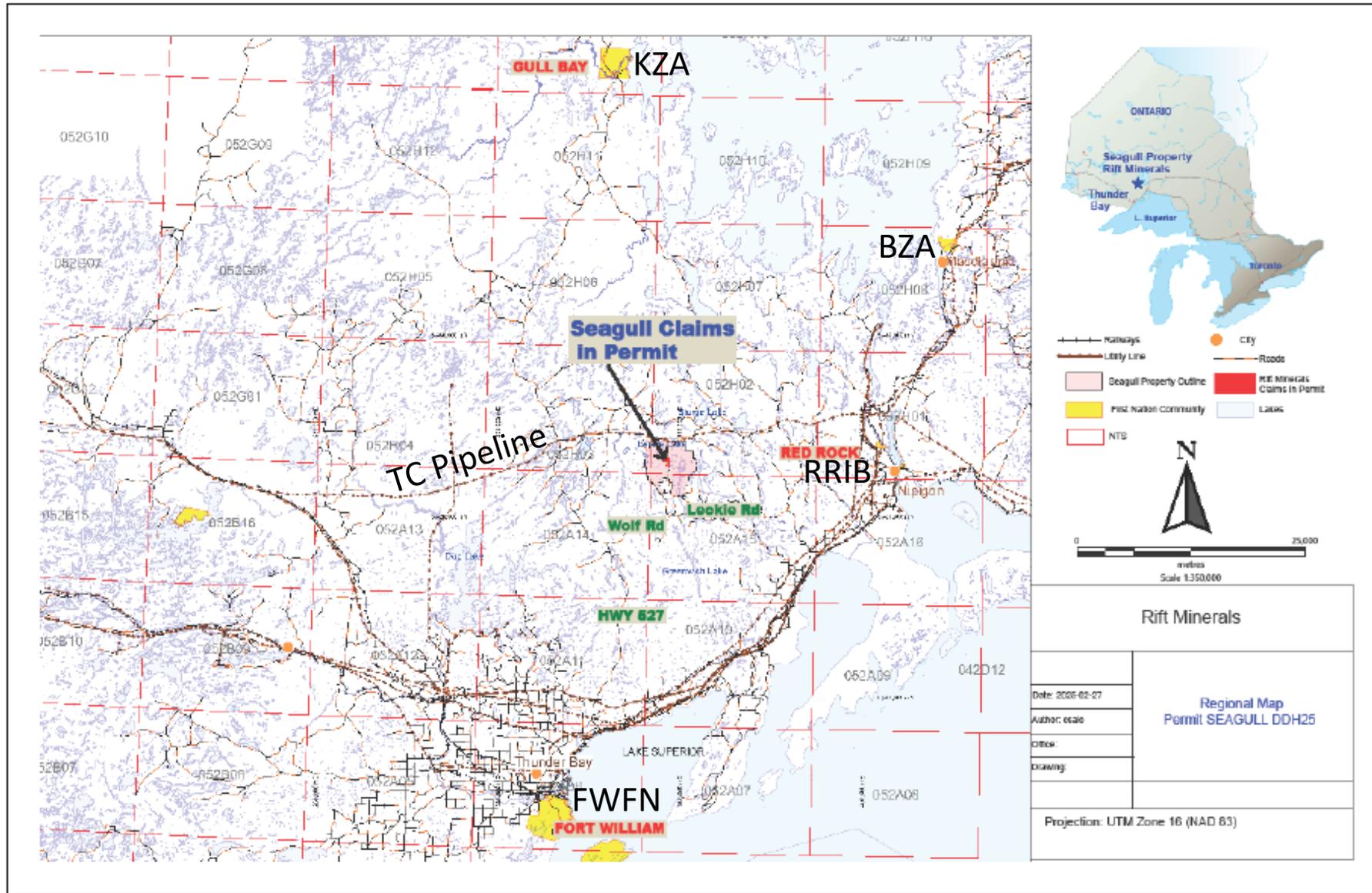
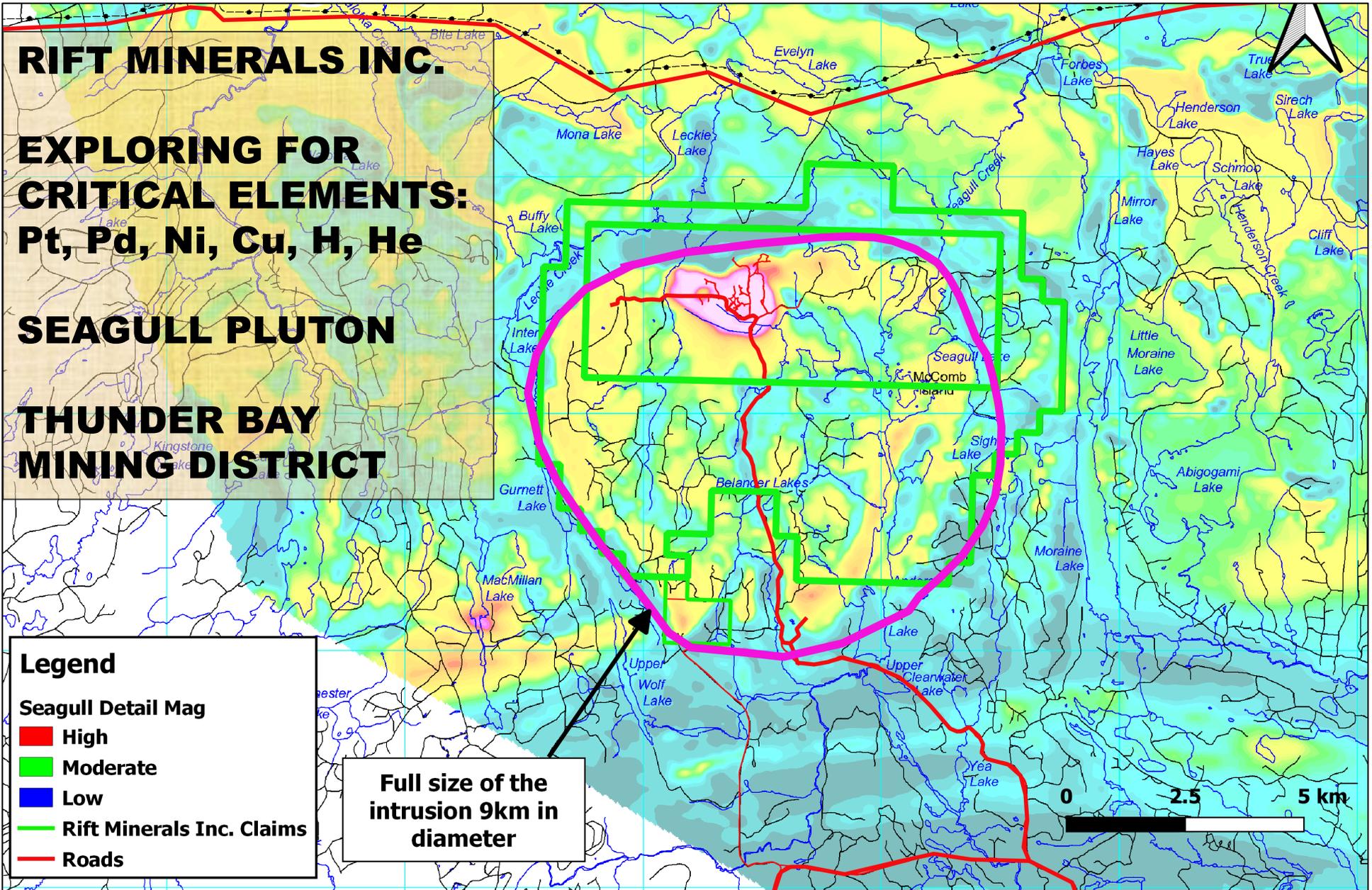


THE RIFT MINERALS INC. STORY UNFOLDS 80km NE OF THUNDER BAY, ONTARIO





RIFT MINERALS INC.

**EXPLORING FOR
CRITICAL ELEMENTS:
Pt, Pd, Ni, Cu, H, He**

SEAGULL PLUTON

**THUNDER BAY
MINING DISTRICT**

Legend

Seagull Detail Mag

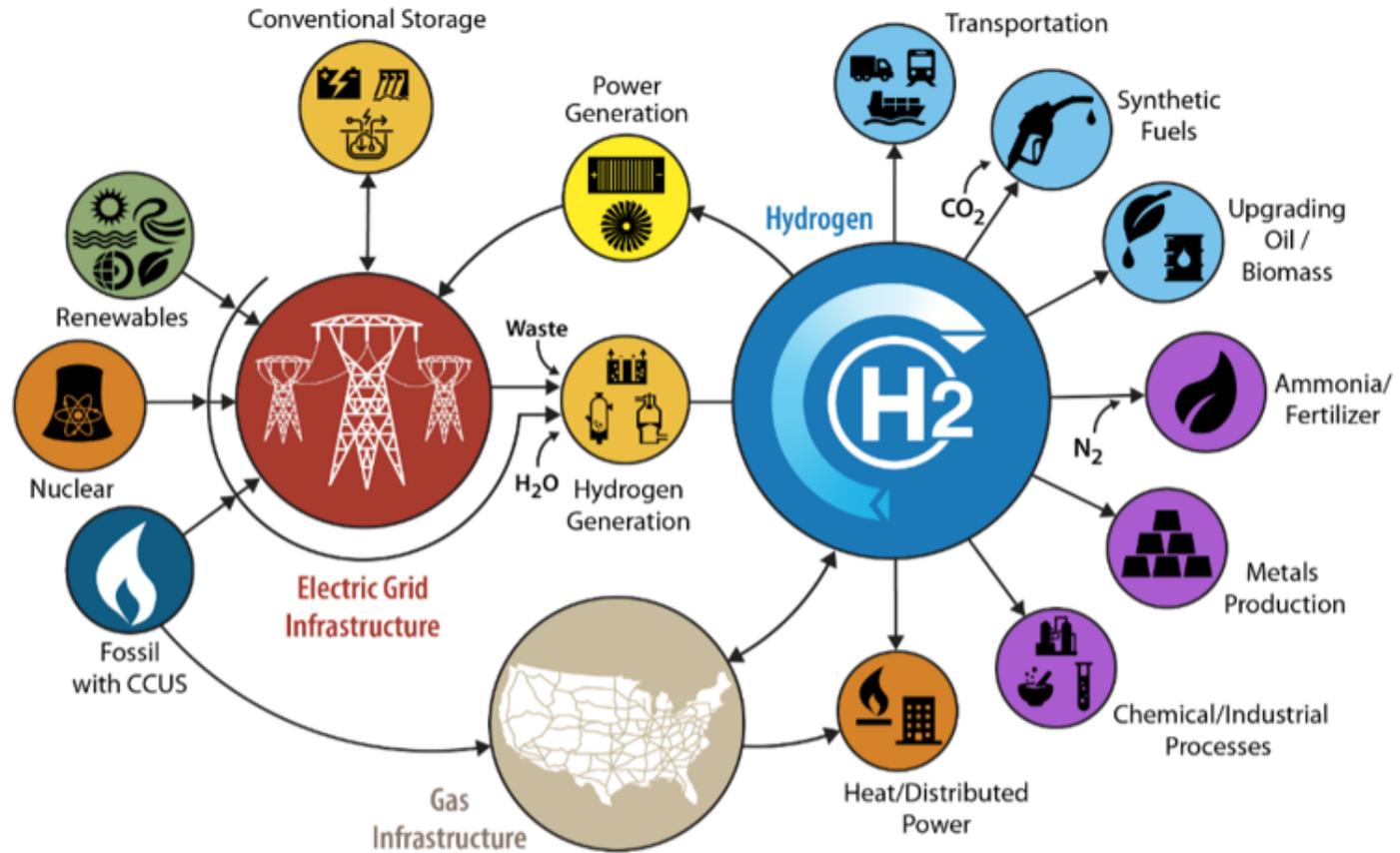
- High
- Moderate
- Low
- Rift Minerals Inc. Claims
- Roads

Full size of the
intrusion 9km in
diameter



“Blue” Hydrogen – Cracked from methane (CH₄)
 “Green” Hydrogen – by Electrolysis of water – Zero Emissions
 “Golden” Hydrogen – Naturally Occurring – Zero Emissions

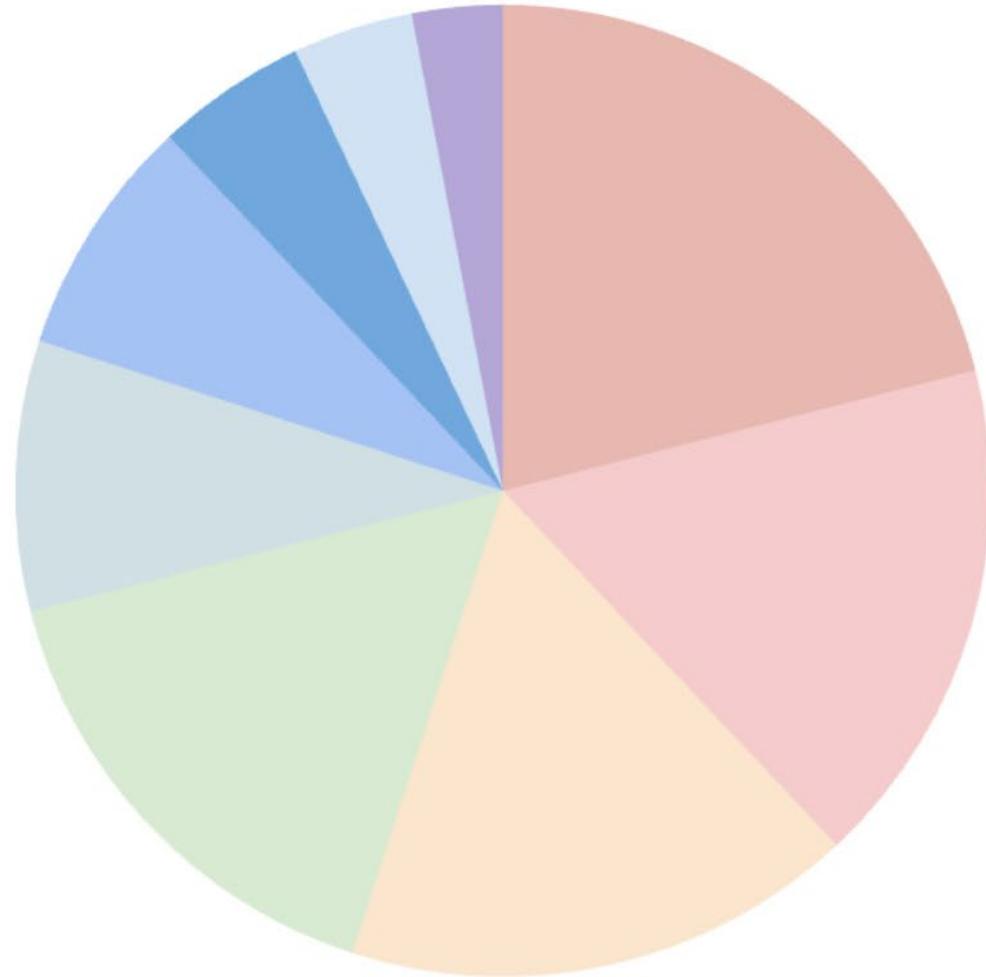
Conceptual H₂@scale (hydrogen at scale) energy system

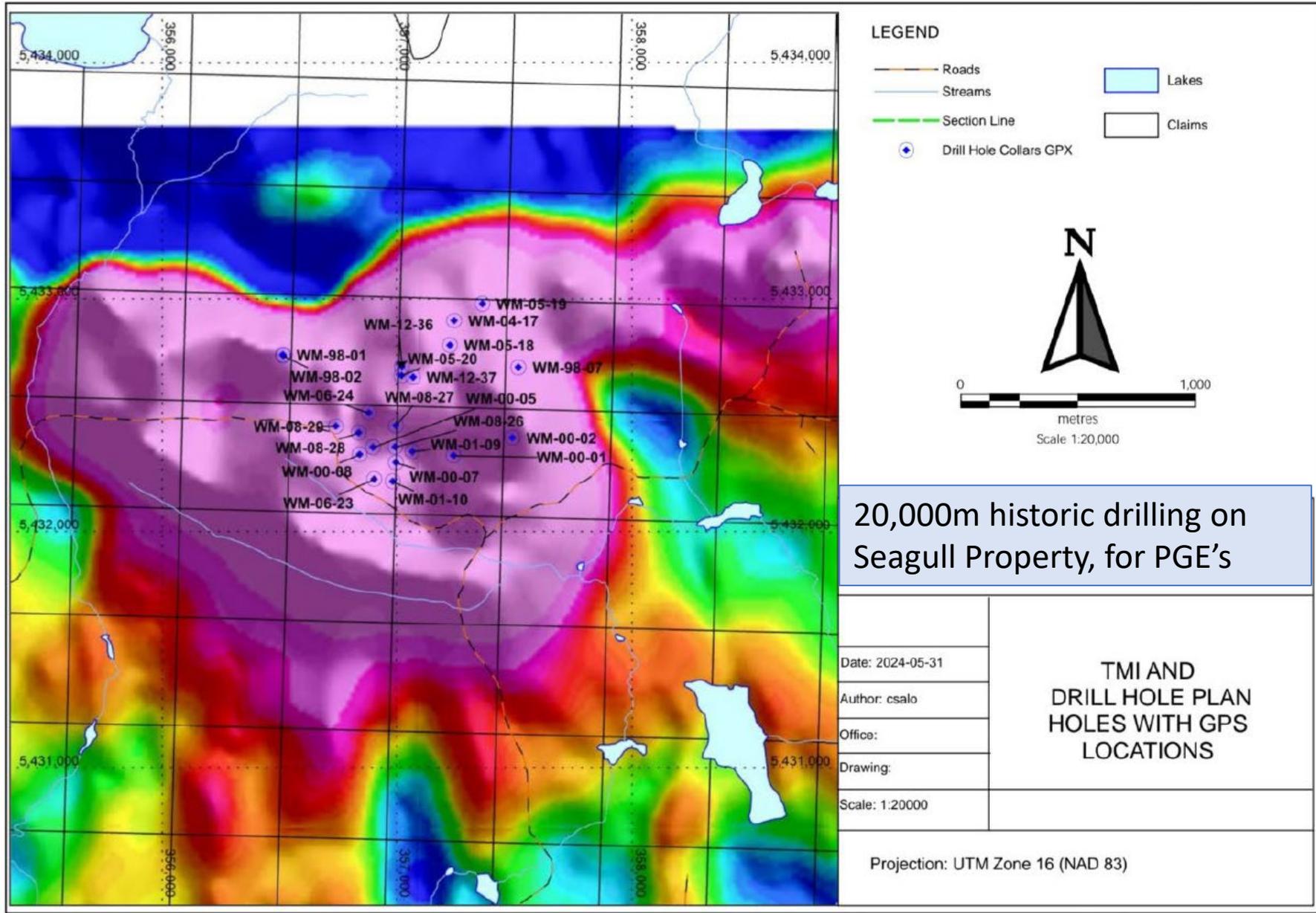


Source: U.S. Department of Energy, *Hydrogen Program Plan*, Figure 3, November 2020
 Note: CCUS is carbon capture, utilization, and storage.

Helium Uses in 2023 (USGS)

- Analytical, engineering, lab, science, and specialty gases (21%)
- Controlled atmospheres, fiber optics, and semiconductors (17%)
- Magnetic resonance imaging (17%)
- Lifting gas (16%)
- Aerospace, pressuring, and purging (9%)
- Welding (8%)
- Leak detection (5%)
- Diving (4%)
- Other (3%)

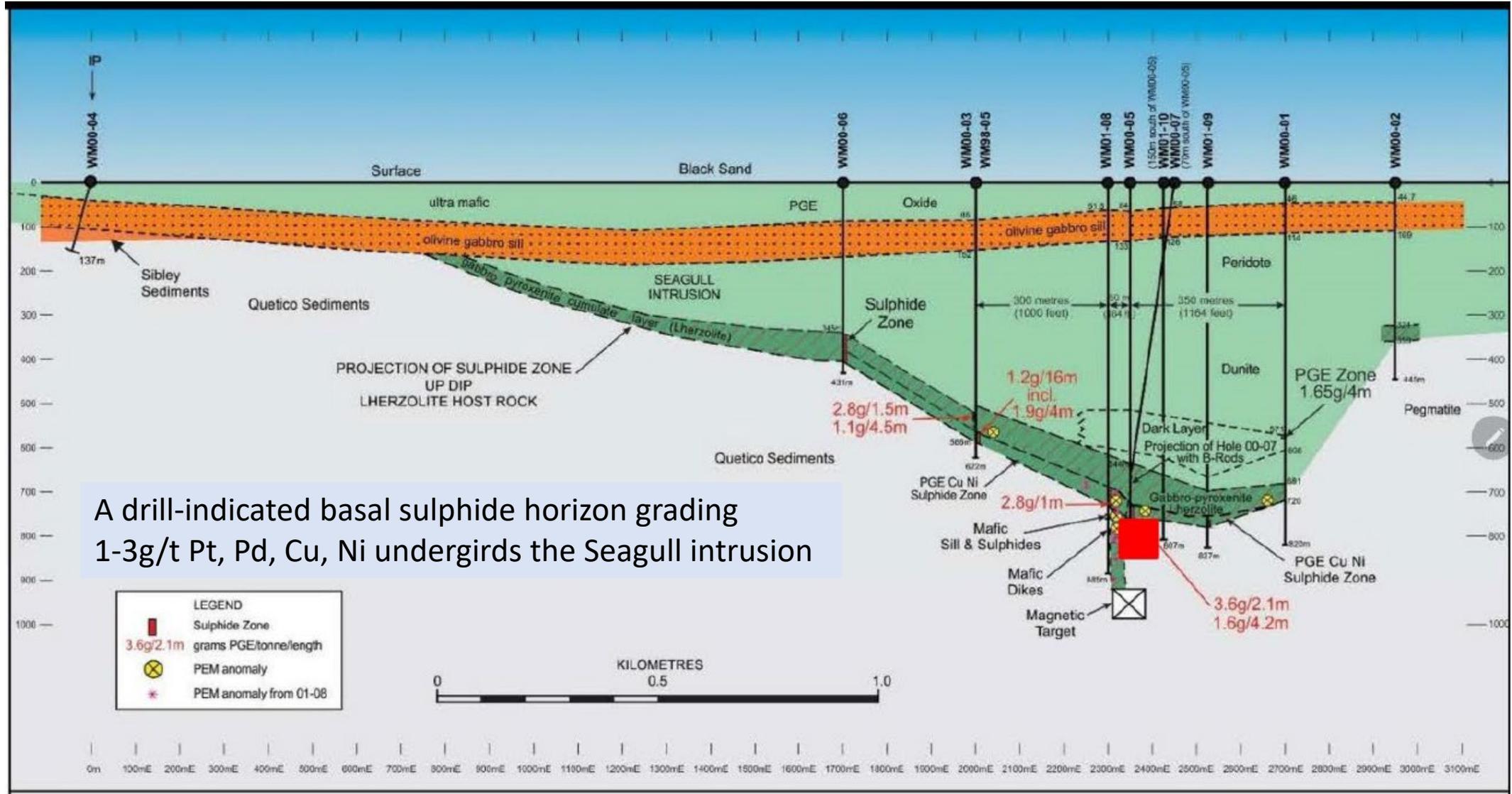




20,000m historic drilling on Seagull Property, for PGE's

Date: 2024-05-31	TMI AND DRILL HOLE PLAN HOLES WITH GPS LOCATIONS
Author: csalo	
Office:	
Drawing:	
Scale: 1:20000	
Projection: UTM Zone 16 (NAD 83)	

Historic Section – Seagull Pluton - 2009



A drill-indicated basal sulphide horizon grading 1-3g/t Pt, Pd, Cu, Ni undergirds the Seagull intrusion

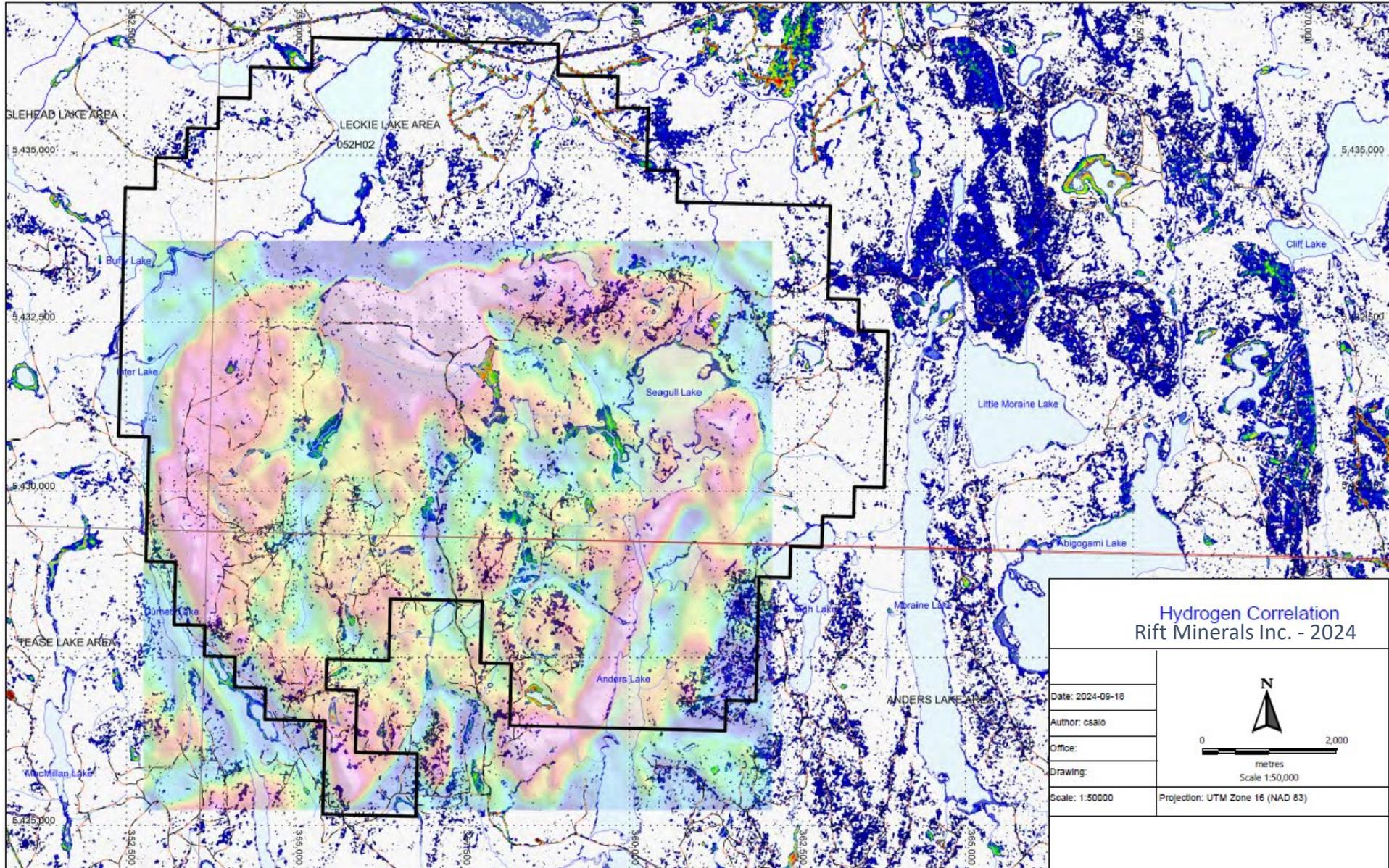
Satellite Spectral Imaging – Rift Minerals Inc. - 2024

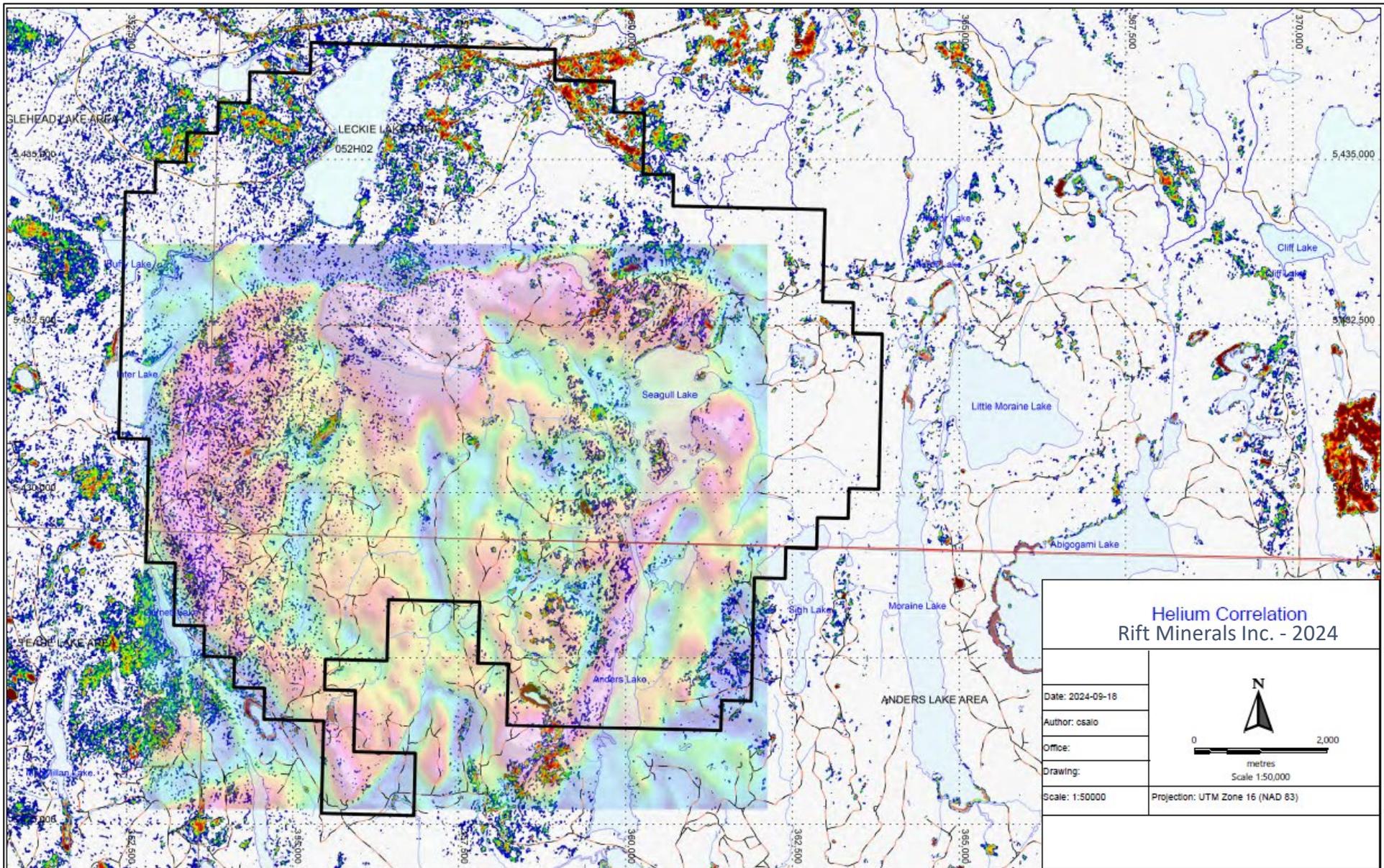
The Seagull Pluton and proximal geological environment was remotely surveyed In October, 2024 by satellite spectral imagery. Slide 9,10 images that follow show the spectral signatures for Hydrogen and Helium on a total field magnetic map, which outlines the Seagull intrusion.

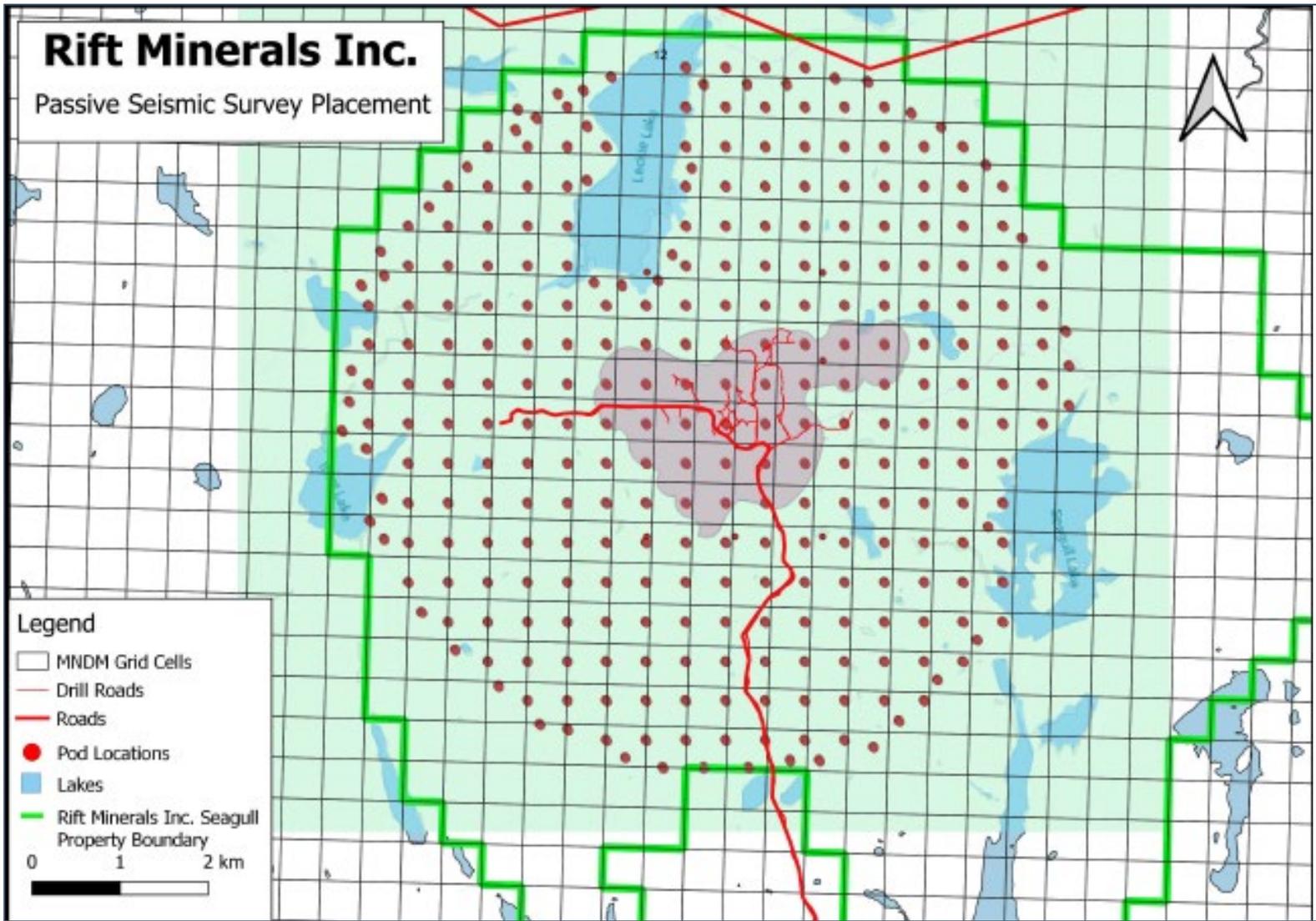
The host environment features the Proterozoic Mafic/Ultramafic Seagull Pluton intruded into Archean Quetico metasediments. Uranium pegmatites are ubiquitous in the Quetico sediments, within the Nipigon Rift Structure, part of the Mid-Continent Rift.

Hydrogen is a naturally occurring byproduct of the serpentinization (alteration) of ultramafic rocks. Hydrogen can be synthesized, most commonly by electrolysis of water. Helium is a natural, inert, lighter than air, daughter product of U235 decomposition. It cannot be synthesized.

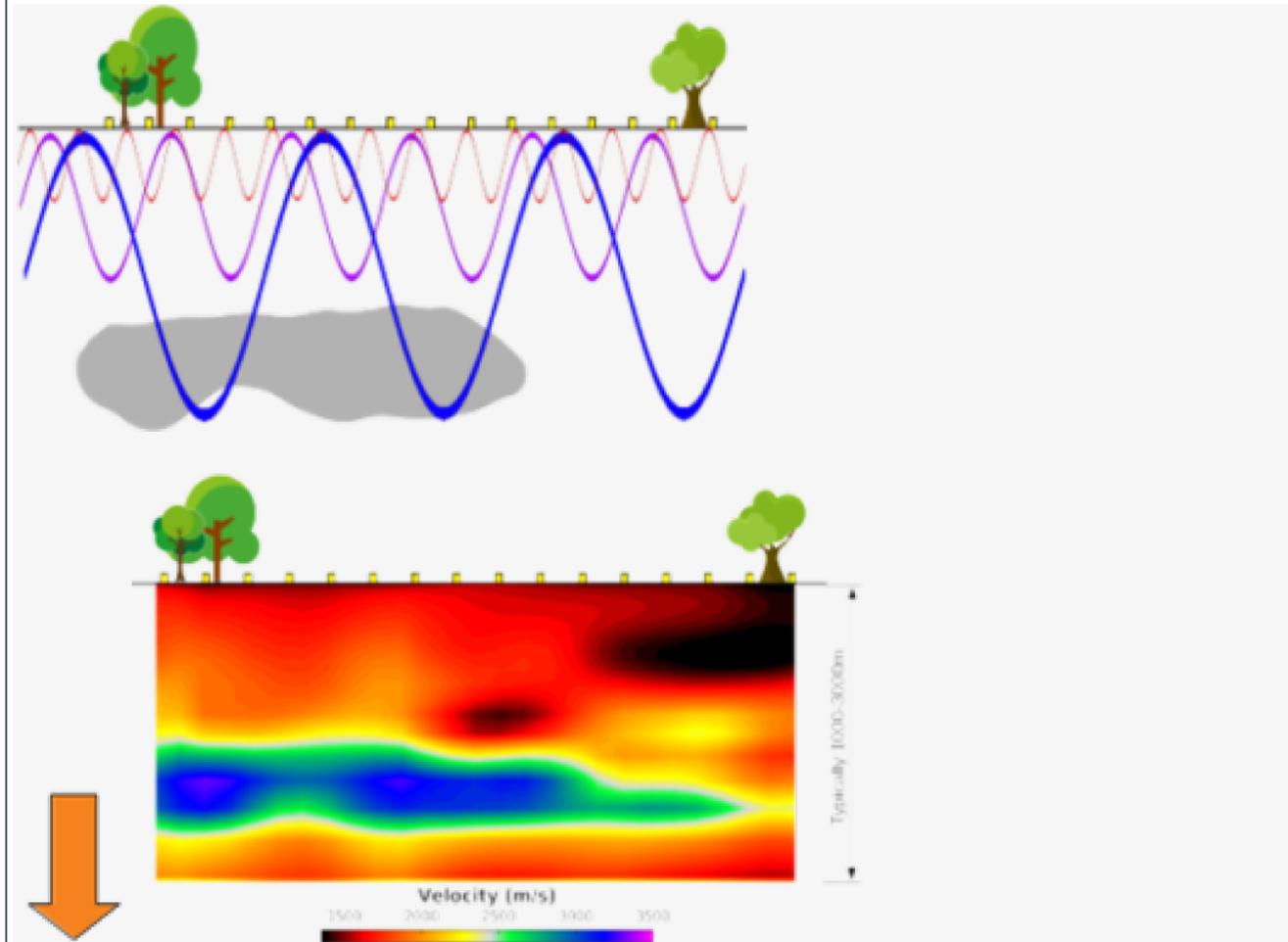
Notably, the geological environment is spontaneously producing both gases as shown in the following image Slides 9,10. The 64 sq km area of the Seagull Pluton may act as a stratigraphic trap, with evident seepage of both Hydrogen and helium locally within and around the Seagull Pluton, likely through fractures or faults. The AMT Block Model image in Slide 13 shows a prominent low velocity anomaly feature topping out at ~1km depth. This is consistent with high-pressure gas in a fracture gas zone and also, possible platinum-palladium rich massive sulphides in an intrusive Feeder Zone.







APPENDIX 2 – Conceptual Passive Seismic Survey Array Layout

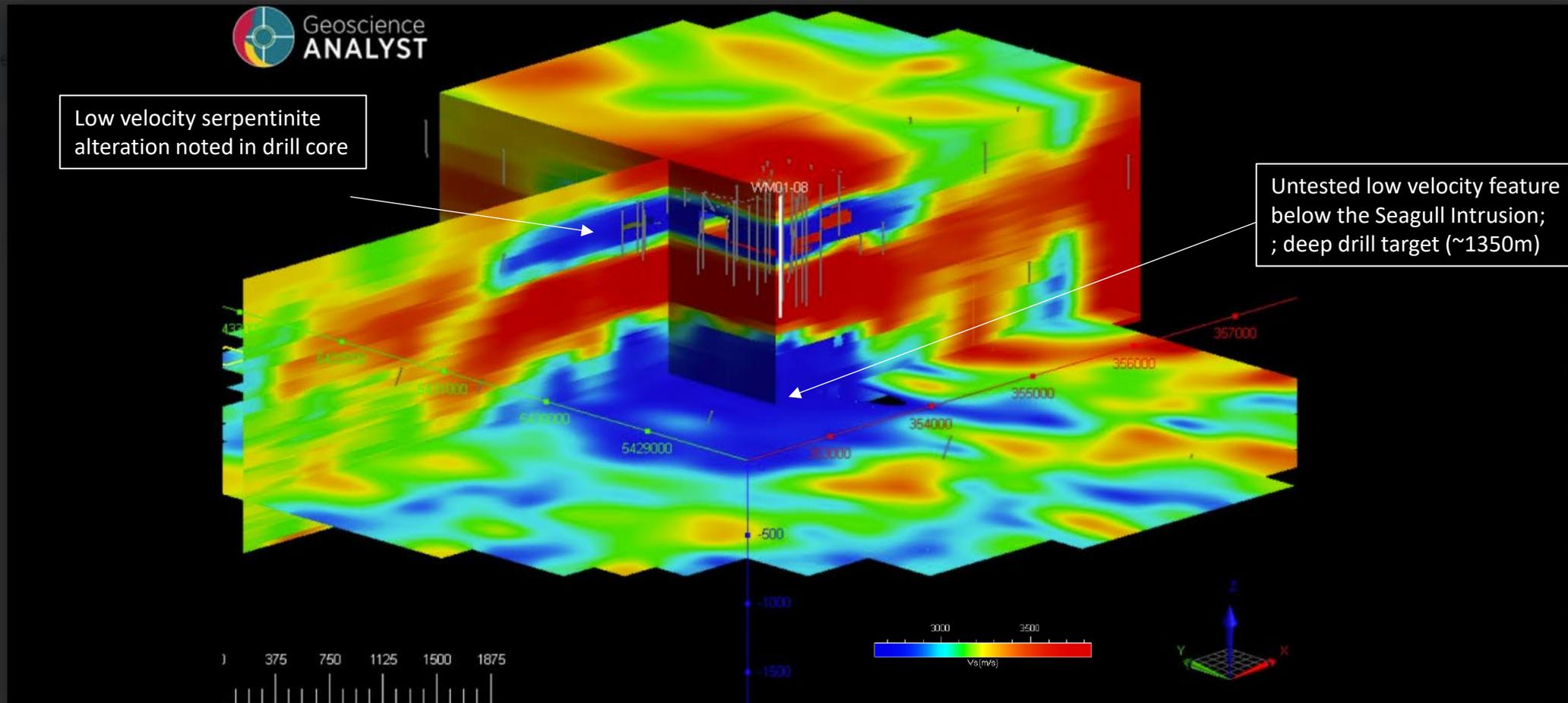


The basic principles of surface wave dispersion have been known for decades.

Tomography. *Sisprobe has developed techniques, and workflows to treat massive amounts of data recorded in month-long surveys by large surface arrays (100 to >2000 sensors). This produces 3D tomographic images of the subsurface.*

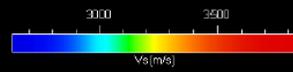
SEAGULL PLUTON - AMBIENT NOISE TOMOGRAPHY (PASSIVE SEISMIC) BLOCK MODEL

RIFT MINERALS INC. - 2024

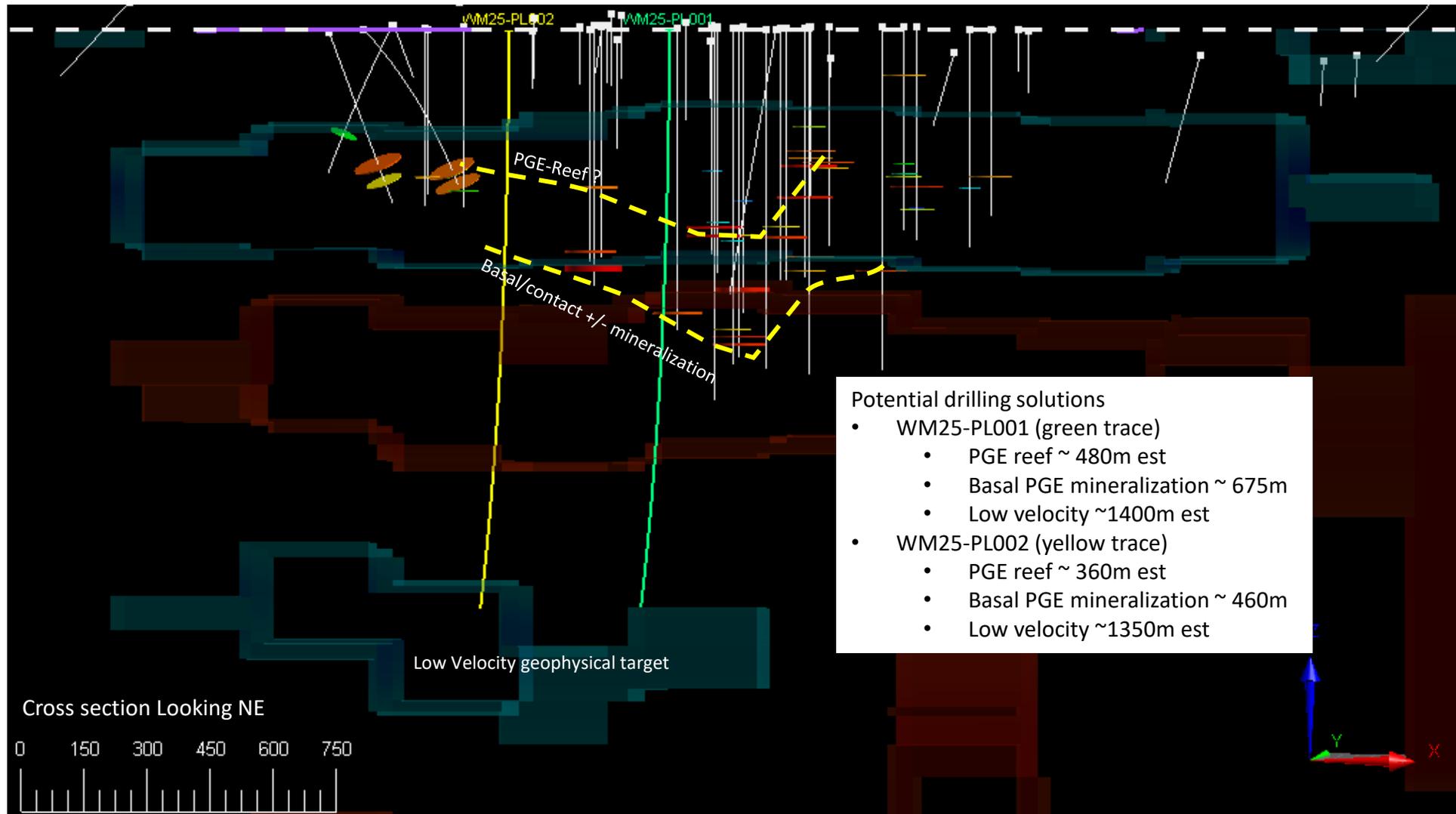


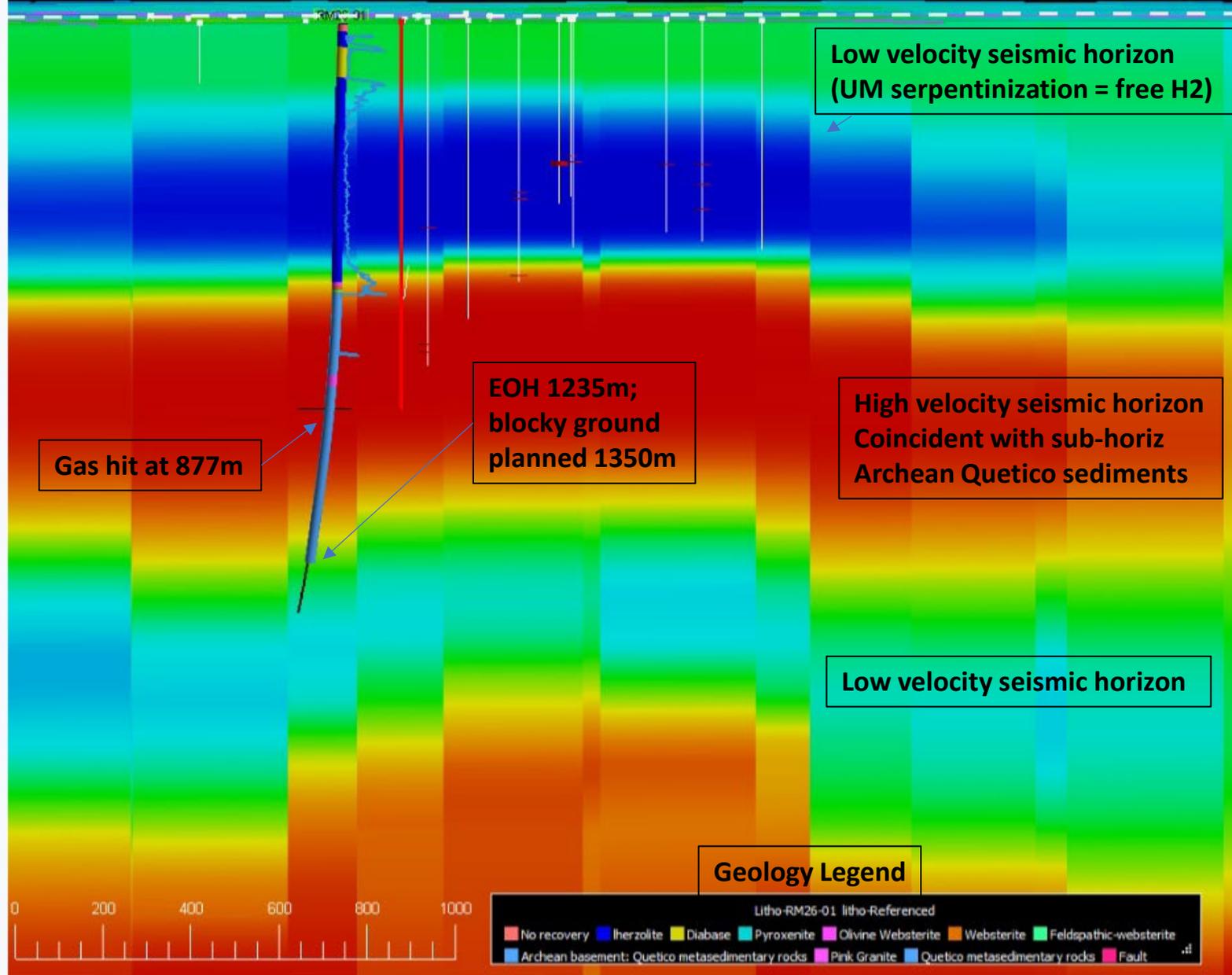
Low velocity serpentine alteration noted in drill core

Untested low velocity feature below the Seagull Intrusion; ; deep drill target (~1350m)



Inversion block model: High velocity >3500m/s (red) & Low velocity <2980m/s (blue)

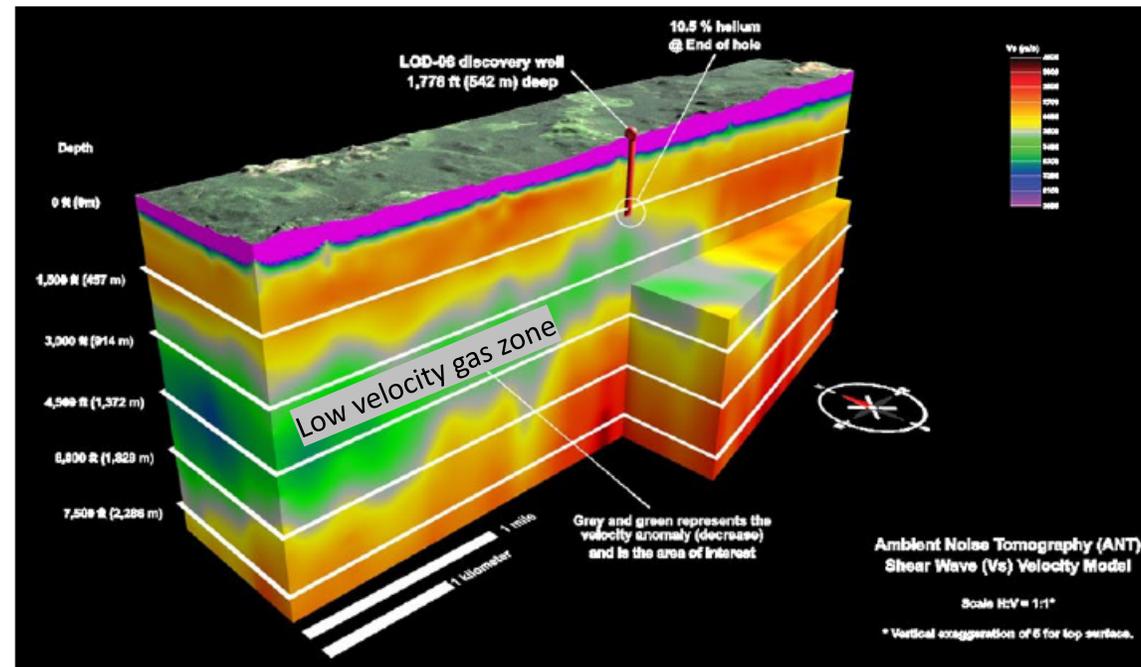




CORPORATE COMPARABLE – PULSAR HELIUM (PLSR: TSXV)

2024 work program

The Jetstream #1 appraisal well produced highly positive results from wireline logging, flow and pressure testing. As a result, Pulsar is now planning to deepen Jetstream by an additional 700m, as well as drill two step out wells within a 5km radius to substantiate liquid helium production. In addition, further seismic surveys will be conducted to add to the interpretation from a high-resolution airborne gravity survey.



Link to Pulsar Helium Inc. Topaz Project

<https://pulsarhelium.com/projects/topaz/default.aspx>