

Exploration Atlas



Project Overview

PROJECT OVERVIEW

There is a fair bit to like about this Exploration Project .

Away from known prospects (i.e. Feather Cap, Durack East and Wembley). Mostly at an early exploration stage there are quality datasets that have not been integrated and used in combination to undertake a targeting exercise.

Geology

Most of the FC project tenure covers basement rocks of Paleoproterozoic Bryah Basin units of Narracoota and Ravelstone Formation under variable regolith cover of few metres to >50m in areas associated with Murchison River drainage system

The northernmost tenement areas cover Robinson Range formation including 2 large regional synclinal folds.

Exploration History

Sporadically explored for gold and base metals mainly in 80's and 90's where focus was shallow open-pitabile gold and copper resources

Formed part of Gleneagle's tenure when they still had Fortnum – then went into administration as Grosvenor Gold.

At some point Miles Kennedy got hold of Grosvenor Gold from administrators in RNI after he had a bust up with Karl Simich

This was never a focus package of ground for RNI/Auris and much of the work that they did apart from on known prospects (i.e. Feather Cap, Durack East) seems to be poorly conceived and appears to be done to meet tenement expenditure.

Wembley has pretty much always been separated from tenement ownership until now where RBH has consolidated the tenure

Conservatively there is probably around \$7M historical spend in current \$ terms on the project

Exploration Potential

Gold & Copper

Plenty of Cu smoke in geochem (remembering lots of the surface geochem is ineffective in areas of cover) and drilling over areas of mapped/interpreted Narracoota Formation

Some nice mid-time AEM bedrock conductors (courtesy of Sandfire flown AEM over western half of package) in E 52/4330 not properly drill tested

There is a mapped unit of metabasaltic vent breccia (BRYAH 100k = PANx) in the south central E52/4303 – which is significant as it says that you are close to a volcanic vent.

This same unit was intersected in Geopecko BD1 (12km south of the SE corner of E

52/4302) and that hosts the Cashman's VMS deposit. It suggests that basal sequences of Narracoota (ie Karalundi Fm that hosts Degrussa Cu-Au-Ag) may be present throughout much of E 52/4302, E 52/4303, E 52/4330.

The actual outcrop of PANx and a fault breccia to the south which is all good exposure has never had any reported surface geochem (rockchips)!!

The learnings of Degrussa and Monty discoveries was that you need to be near or in Karalundi Fm / hyaloclasite

There is leaching of Cu and need to be guided by >= 100ppm in the drilling in meaningful weathering profile (i.e. lower saprolite and below)

The supergene blanket at Degrussa is 100m below surface so away from drilled prospects (Feather Cap, Durack East-Jigsaw) none of the drilling which has an average depth of 30m has tested most of the Narracoota for Cu

Gold is a bit tricky and moves around on REDOX fronts in the Ravelstone and Narracoota – key is pinning down regional structures where they intersect favourable competency contrasts between the Narracoota and Ravelstone contacts

Wembley and along strike (particularly to the NW) need more drilling

The Fortnum (Starlight) ore is seriously hard and West Gold (WGX) are keen for softer/oxide sources to blende up to 20% with Fortnum ore – so toll treatment of small gold resources is real thing here

Iron

PepinNini Minerals Ltd JV'd into large package of ground covering Robertson Range granular iron formation (GIF = itabirite) and BIF including parts of current RBH tenure.

Initial rock chipping in NW E52/4303 returned a lot of 50-60% Fe and some > 60% Fe – they

never drill tested any of this!!In addition, they (or anyone else) never sampled the synformal closure of the Robertson Syncline in the NE E52/4303.

Both of these units have additional strike extent (as can be seen in the magnetics) along strike in areas of lower relief / covered by colluvium and alluvium.

Apart from magnetite there is potential for hematite DSO.

If any of the GIF and BIF has decent width extent then it will be very appealing to Fenix who are looking to monetise any bulk in the Muchison/Gascoyne

There are a couple of holes in DB with interesting Fe grades (at Durack East 5m @ 41.5% Fe from 40m in DEAC0004 and 5m @ 40.6% Fe from 20m in DEAC0044; at Feather Cap 8m @ 42.3% Fe from 16m in FCAC025) that appear to be unrelated to Robinson

Range Fm? (there are BIF in Horseshoe Formation which may occur in the more northern tenement areas)

Critical Minerals

A quick scan of the DH Assay file shows there are some interesting Ni, Ti and REE results but there might be others too...

Exploration Summary

Matt

With these exploration Atlas's I like to give the end user descriptions of who completed the database, their role in the process, as much info about the contractors as possible, I think its good to tell the end user where, when , who and how this production was assembled.

Could I ask you or Richard just to give me descriptions of the contractors involved in the database setup, collection and publication.

I didn't have a TERRAMIN LOGO for you, if you have one could I request a copy (PNG) or vector graphic arts file would be good.

If not then I made a logo for TERRAMIN

If you like it , then let me know and I'll send a copy



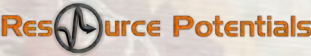
Feather Cap 100% RBH The Feather Cap Project is prospective for both orogenic gold and Horseshoe Lights style Cu-Au VHMS mineralisation
RBH has two priority gold targets, being the Durack East and Feather Cap Prospects Gold potential of the area is highlighted by Westgold Resources' 112,000 ounce Durack Gold Resource west of Durack East and Sandfire significant gold intersections within Air Core drilling at Morck Well to the east.
Potential for 2.5km gold prospective trend at Durack East Prospect, of a total 5.7km inclusive of SFR Morck Well Air Core gold anomalism along strike to the east
Historic intersections in the west of Durack East include –
20m @ 3.01g/t Au incl 4m @ 10.7g/t Au (JR60)35m @ 1.80g/t Au incl 8m @ 5.19g/t Au (JRB43)

High-grade gold intercept of 8m @ 5.44g/t Au from 87m including 1m @ 26.7g/t Au from 87m (DEAC0089) returned from initial recent Air Core drilling at Durack East Prospect. Above high grade mineralisation is located 560m along strike to northwest of previous intersection 4m @ 0.69g/t Au from 141m including 2m @ 1.26g/t Au from 142m (DEAC0009 – returned within 2020 drill program), which supports RBH' interpretation that gold mineralisation extends into the Feather Cap Project from the Morck Well Project



(A summary to be completed) Recommend that we have a description of all the work that Kenex has been tasked to investigate, manage, & allocate all the data & mapping in the following exploration atlas describing the high level of detail that has gone into this publication

TO BE COMPLETED



(A summary to be completed) Recommend that we have a description of all the work that Resource Potentials has been tasked to investigate, manage, & allocate all the data & mapping in the following exploration atlas describing the high level of detail that has gone into this publication

TO BE COMPLETED



(A summary to be completed) Recommend that we have a description of all the work that Map Digital has been tasked to investigate, manage, & allocate all the data & mapping in the following exploration atlas describing the high level of detail that has gone into this publication

TO BE COMPLETED



The Feather Cap Database is in MapInfo Pro / Discover GIS software format, the table files are also accessed for viewing in QGIS Open Source Software.



A QGIS Project link has been included in the database for end users that prefer the Open source QGIS software, QGIS accesses the MapInfo Table files and imagery in the database.

Atlas Contents

Matt
The Contents and pages are still work
in progress; this contents page will be
updated once we have all the atlas in
its correct order

Introduction

1. Exploration Atlas
2. Project Overview
3. Exploration Summary
4. Atlas Contents

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6. RBH Exploration Licences & Mine Lease
7. Exploration Licences (Adjacent)
8. Native Titles
9. Mines-Prospects-Deposits & Mineral occurrences
10. Satellite Imagery
11. Digital Earth Model (DEM)

Geology

12. Historical Surface Geology Map
13. Digitised Surface Geology Map
14. Bedrock Interpretation Map
15. Bedrock Interpretation Map with Prospects

Geophysical Imagery

16. TMI – 1VD RTP
17. TMI – as-nsun-m50
18. TMI – rtp-psc-vsun-m50
19. TMI – rtp-rbw-vsun-m50

Drillhole Collars & Costeans

20. Collar Locations
21. Feather Cap Drill Results (Historical Highlights)
22. Jigsaw Drill Results (Historical Highlights)
23. Drill Results (Au ppm)
24. Drill Results (Co ppm)
25. (RAB) Collar Locations & Depth
26. (AC) Collar Locations & Depth
27. (RC) Collar Locations & Depth
28. (AUG) Collar Locations & Depth
29. Costean Locations & Length

Geochemistry Samples

30. Surface Sample Locations
31. Surface Sample Density
32. Au – Rock Sample Locations
33. Cu – Rock Sample Locations
34. Co – Rock Sample Locations
35. Au – Soil Sample Locations
36. Cu – Soil Sample Locations
37. Au – Stream Sample Locations
38. Cu – Stream Sample Locations
39. Au – Lag Sample Locations
40. Cu – Lag Sample Locations

Areas of Interest

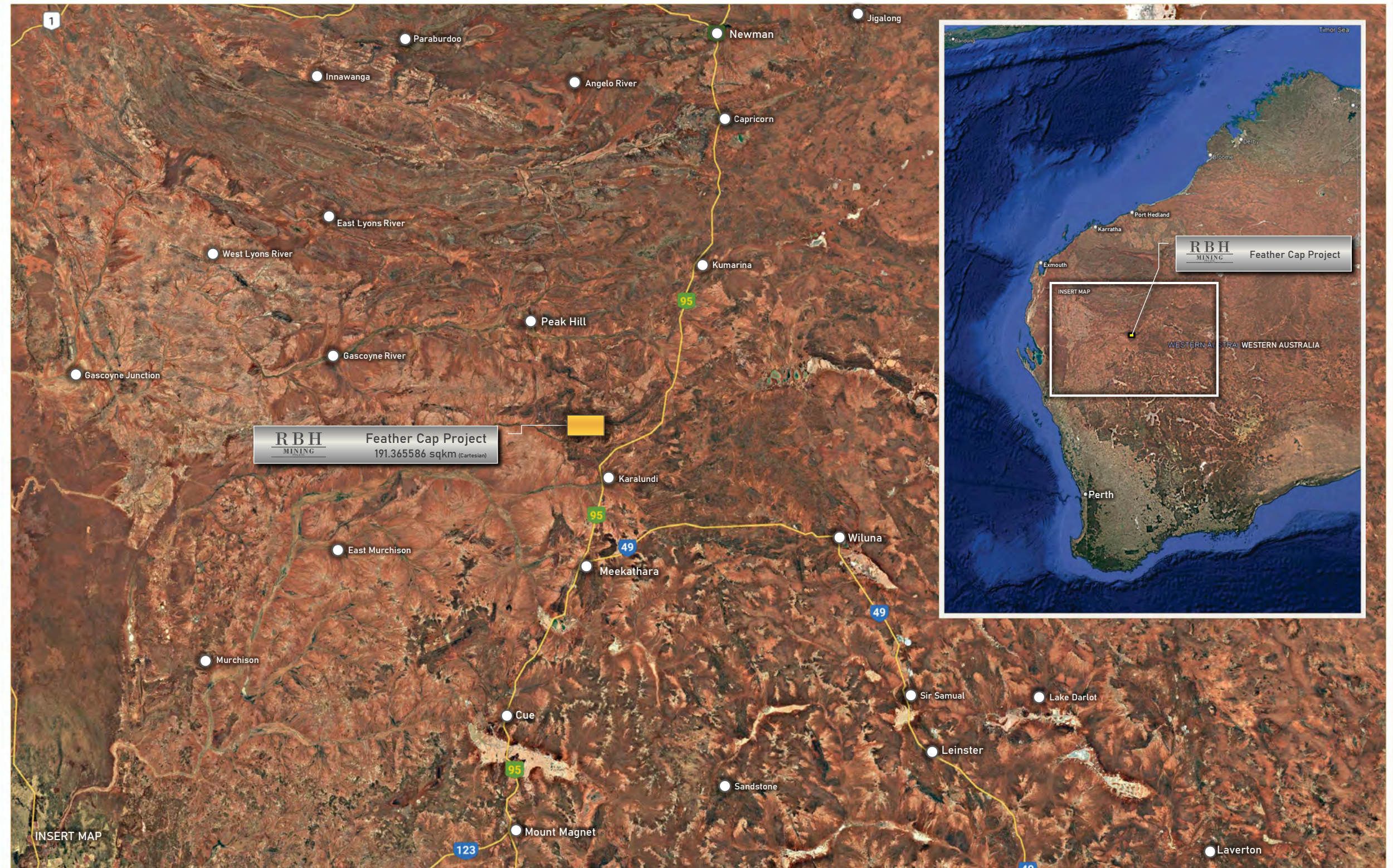
41. Au – Geochemistry
42. Cu – Geochemistry

Regional Location

The Feather Cap Project is in Western Australia and is about 740km north-northeast of [Perth](#) . and is at an altitude of about 541m above sea level.

The nearest populated place is the township of [Meekatharra](#) which is 93km away with a population of around 960 ([show me a map with Wembley Mine and Meekatharra](#)).

The nearest sealed road to the Feather Cap Project is the [Great Northern Highway](#) (25.3km away).



The Feather Cap Project covers 4 Exploration licences and 1 Mining lease for the Wembley Gold Mine

E5204303	76.14184	sq-km (Cartesian)
E5204204	6.077969	sq-km (Cartesian)
E5204302	74.079483	sq-km (Cartesian)
E5204330	30.857369	sq-km (Cartesian)

M5200760 0.094504 sq-km (Cartesian)



25k Geological Map Series Feather Cap Project

Exploration Licences & Mine Leases (Adjacent to the RBH Mining Licences)

This map displays the adjacent Exploration Licences and the holders

Exploration Licences

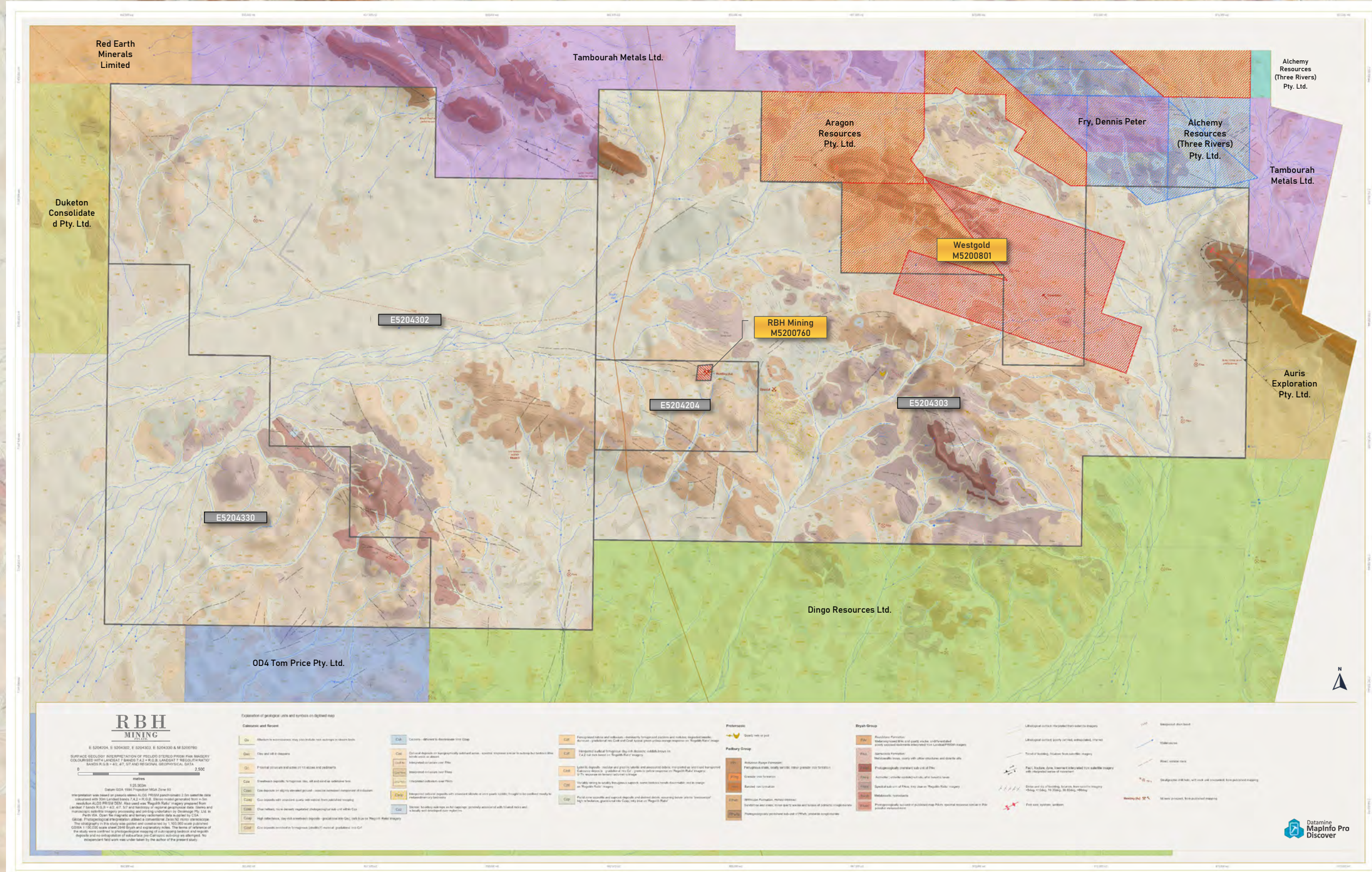
- Auris Exploration Pty. Ltd.
- OD4 Tom Price Pty. Ltd.
- Tambourah Metals Ltd.
- Duketon Consolidated Pty. Ltd.
- Red Earth Minerals Limited
- Aragon Resources Pty. Ltd.
- Fry, Dennis Peter
- Alchemy Resources (Three Rivers) Pty. Ltd.
- Dingo Resources Ltd.

Mining Leases

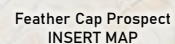
- RBH Mining , Westgold Resources

Prospecting Licences

- Alchemy Resources (Three Rivers) Pty. Ltd.



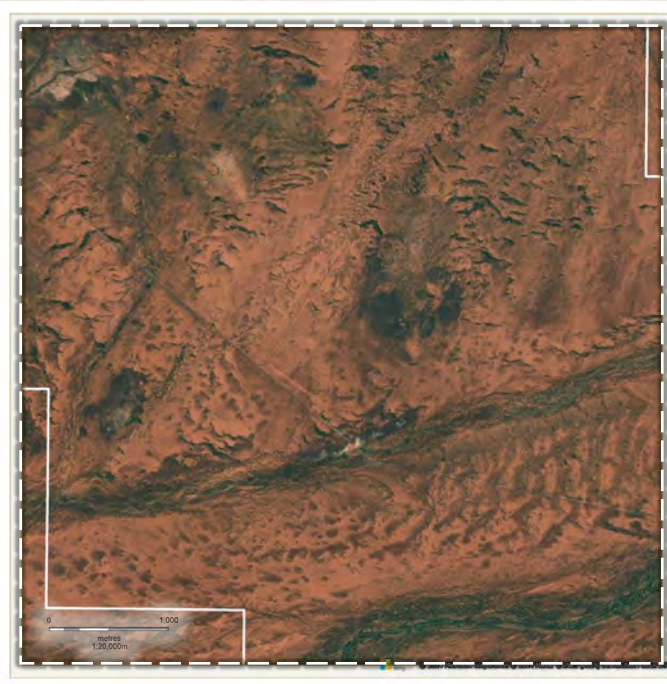
Mines, Prospects, Deposits & Mineral Occurrences are referenced from the Minedex DMIRS Database



Satellite Imagery

World Imagery (Maxar-CNES 2024 Distribution Airbus DS)

At this stage Satellite Imagery is online and available in the GIS software package as open-source link.



Feather Cap Prospect
INSERT MAP



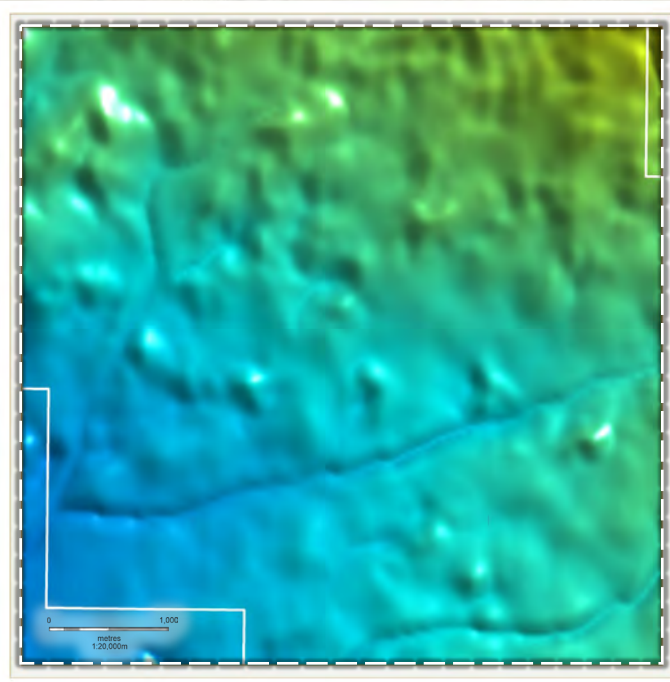
25k Geological Map Series
Feather Cap Project

Digital Earth Model (DEM)

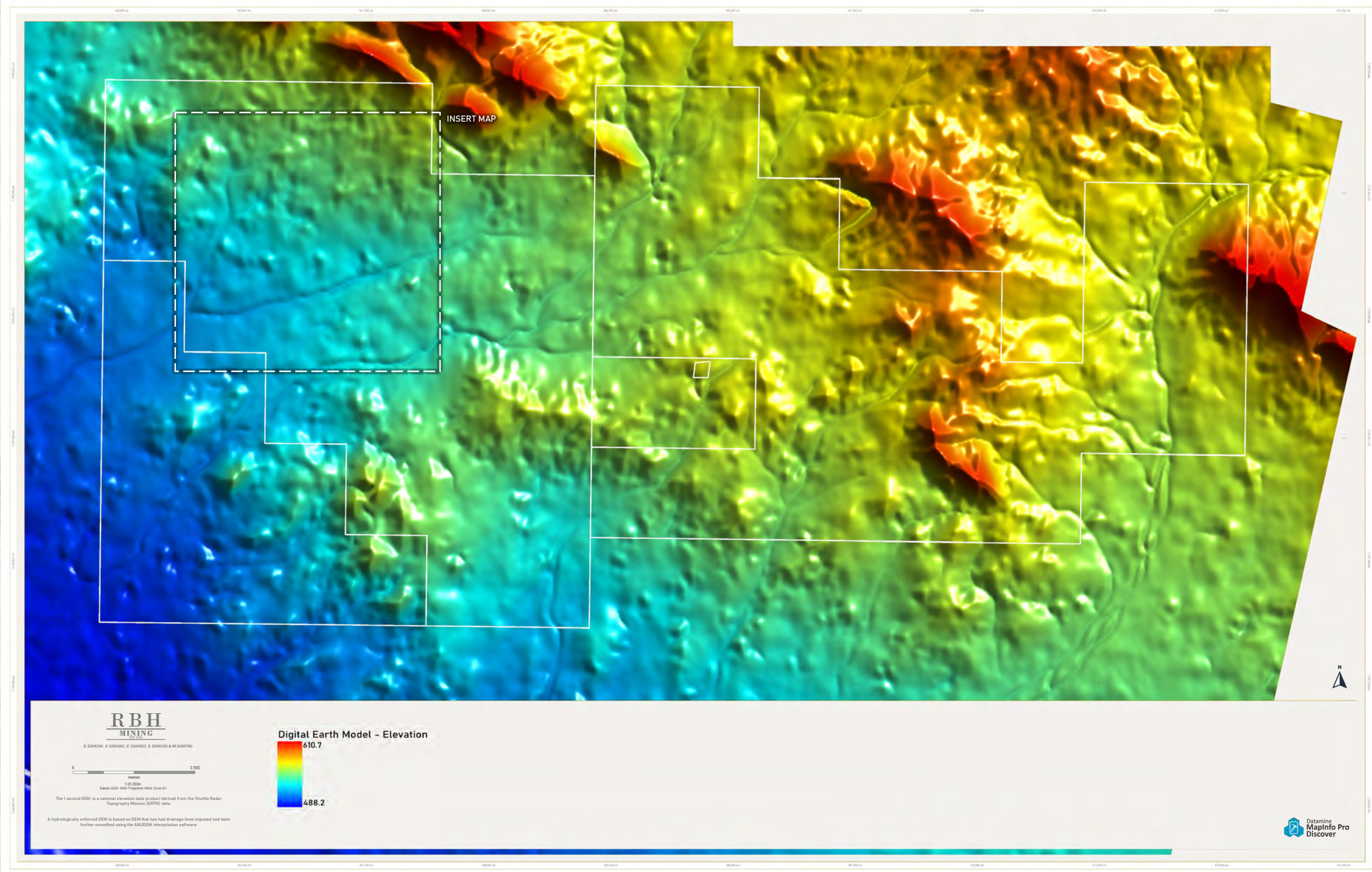
Hydro-Enforced 1 Second DEM

The 1 second DEM, is a national elevation data product derived from the Shuttle Radar Topography Mission (SRTM) data.

A hydrologically enforced DEM is based on DEM that has had drainage lines imposed and been further smoothed using the ANUDEM interpolation software.



Feather Cap Prospect
INSERT MAP



25k Geological Map Series Feather Cap Project

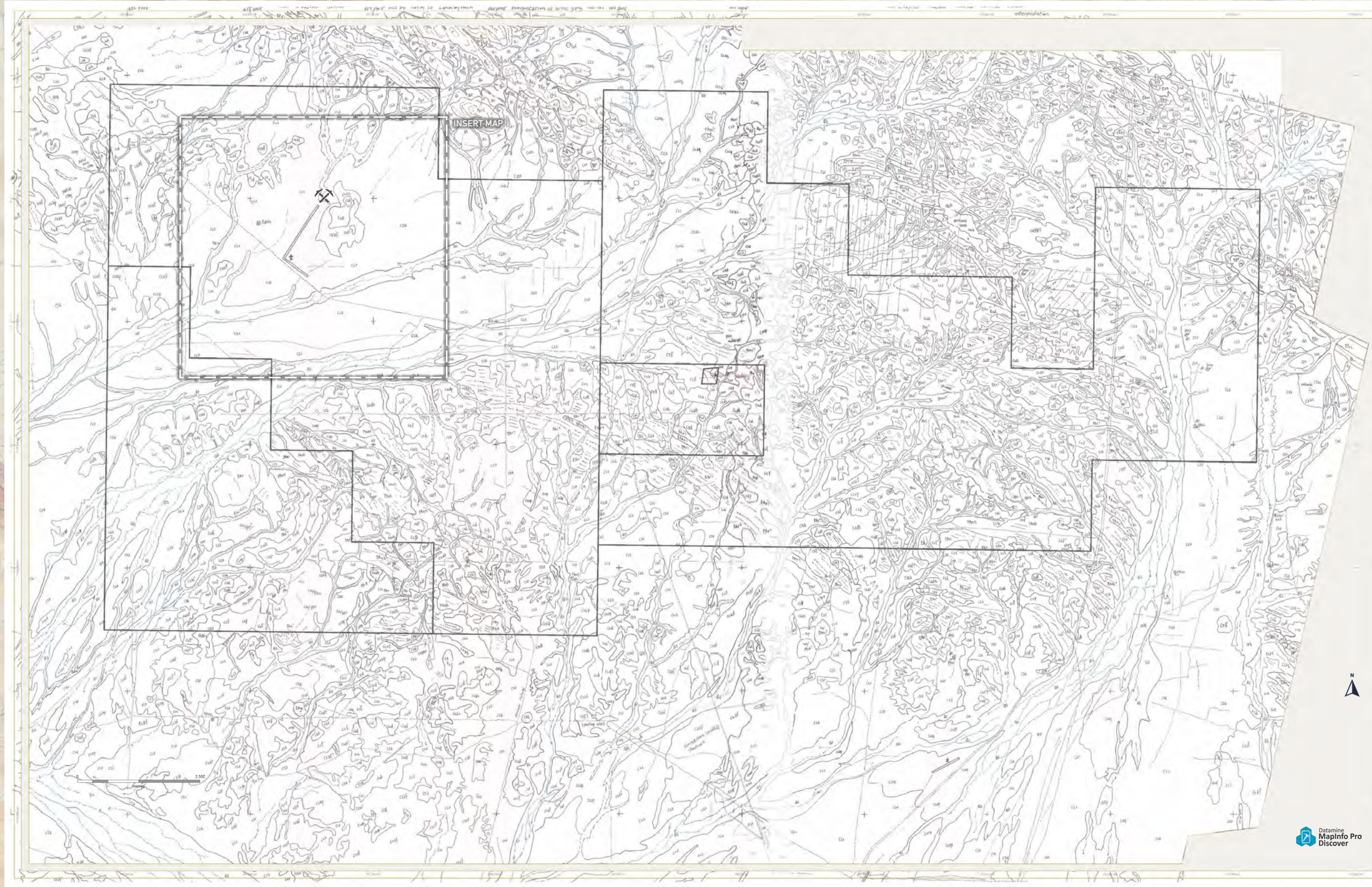
Historical Surface Geology Map

Nick Lockett & Associates Pty. Ltd. 2012

Photogeological interpretation of regolith, bedrock geology and structure using the supplied stereo and monoscopic Landsat imagery and available geophysical data.

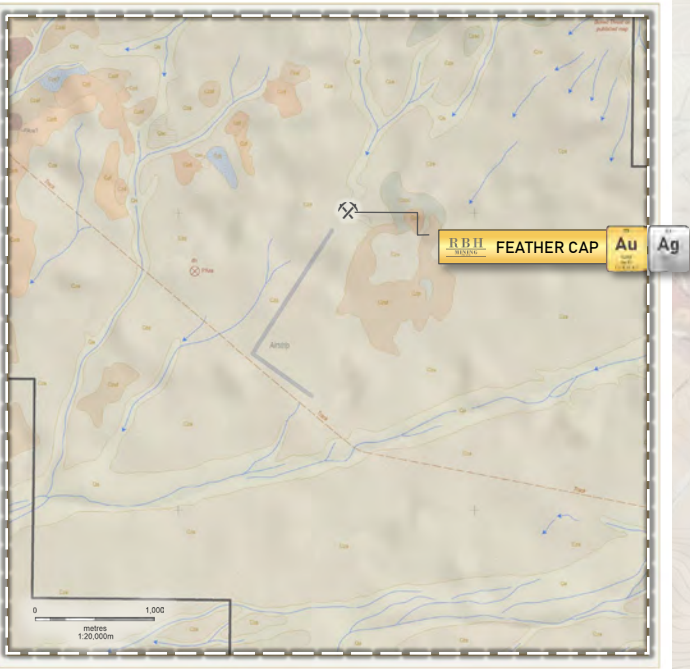


Feather Cap Prospect
INSERT MAP



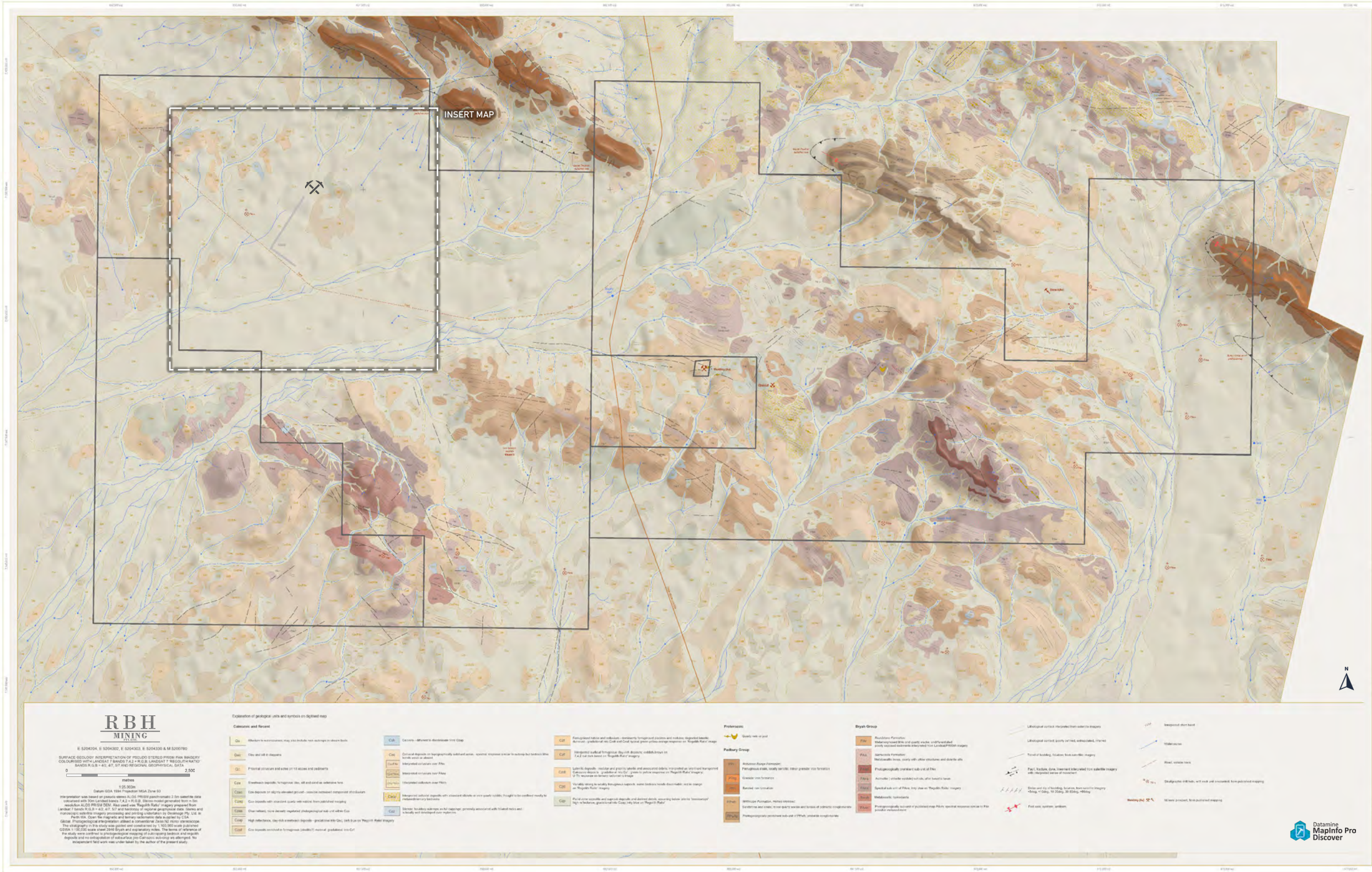
Map Digital 2024

A surface geology map has been fully digitised & attributed and would be available upon request.
This mapping has been completed by hand drawn sheets for Grosvenor Gold in 2012 and digitised in 2024 from 2012 scans by David Hantke Map Digital GIS



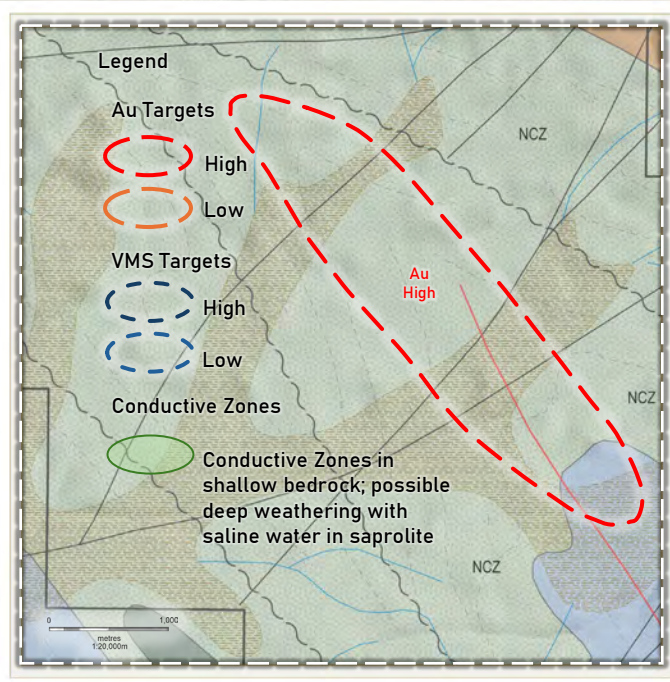
Feather Cap Prospect

INSERT MAP



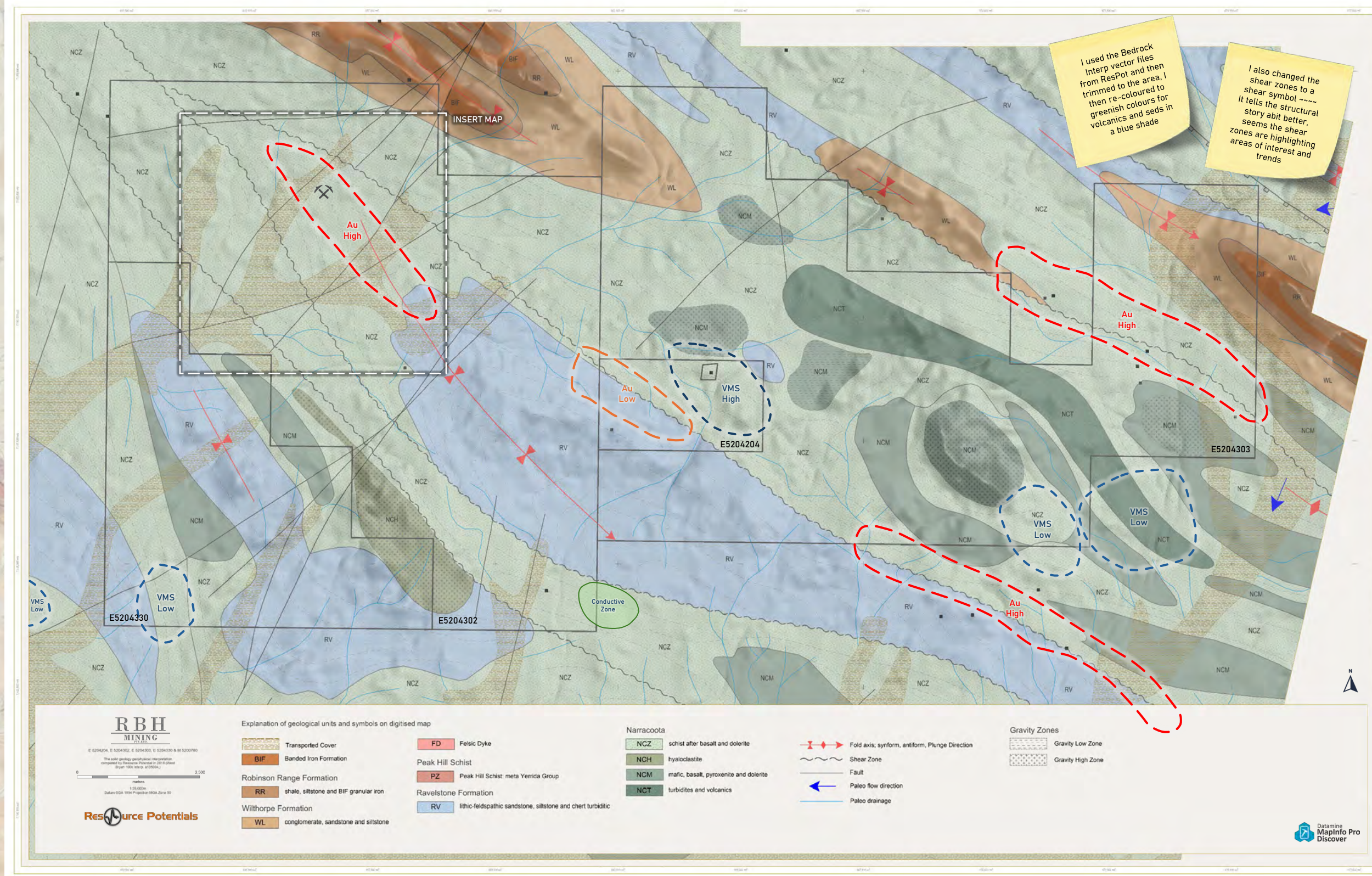
Bedrock Interpretation Map Resource Potentials 2018

The solid geology geophysical interpretation completed by Resource Potentials in 2018 (West Bryah 100k Interp, a135004.).



Feather Cap Prospect
INSERT MAP

Resource Potentials

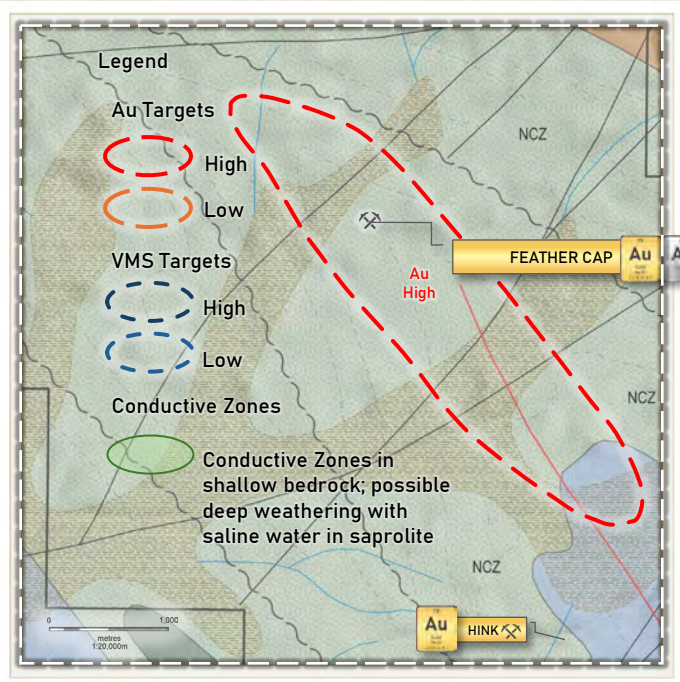


25k Geological Map Series Feather Cap Project

Bedrock Interpretation Map

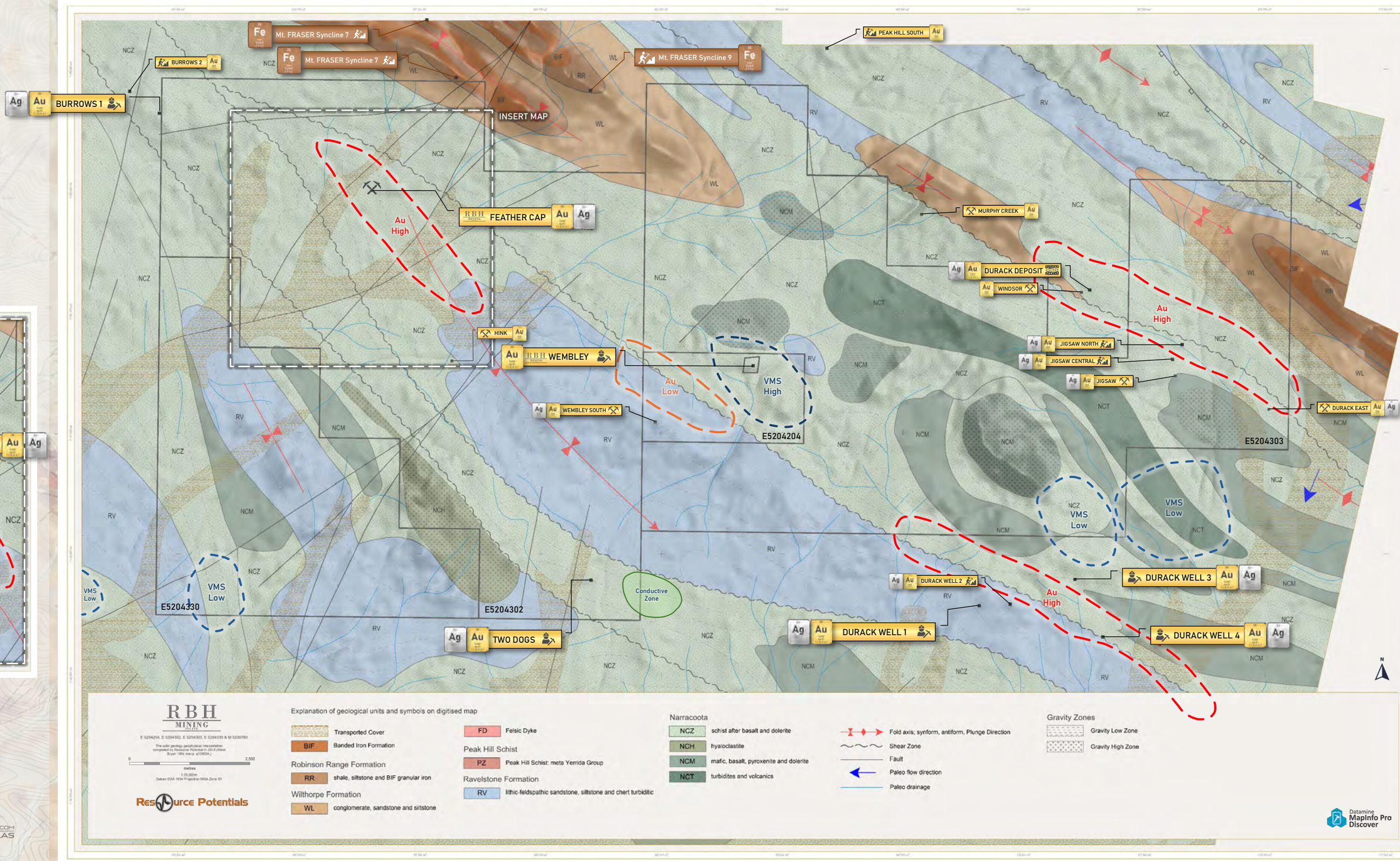
Prospects, Mines, Deposits, Mineral Occurrences

The solid geology geophysical interpretation completed by Resource Potentials in 2018 (West Bryah 100k Interp, a135004.). Mines, Prospects, Deposits & Mineral Occurrences are referenced from the Minedex DMIRS Database



Feather Cap Prospect
INSERT MAP

Resource Potentials

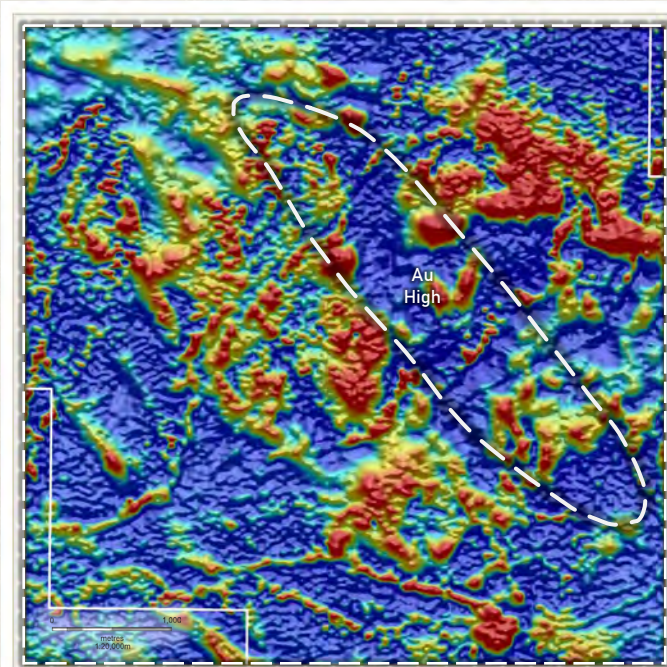


25k Geological Map Series Feather Cap Project

Geo Physical Imagery

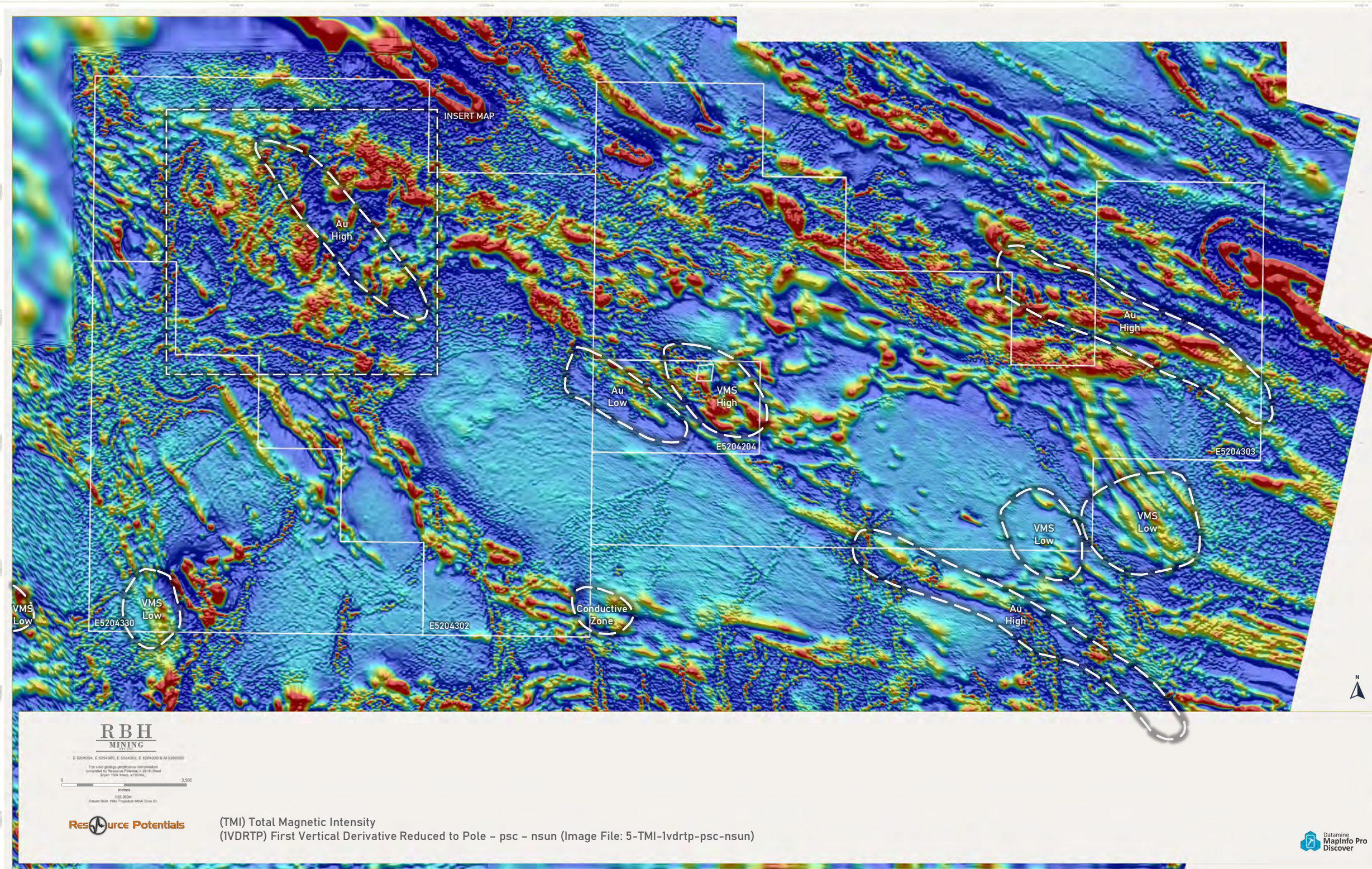
Resource Potentials 2018

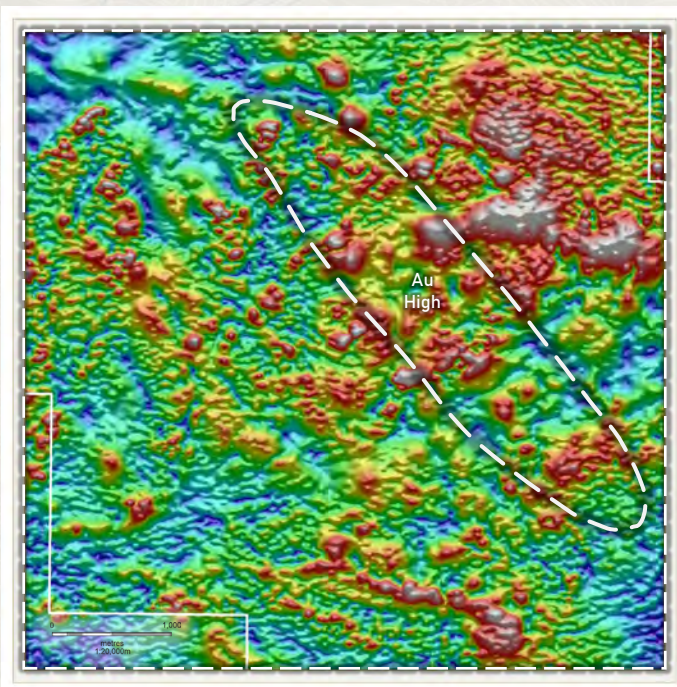
(TMI) Total Magnetic Intensity
(IVDRTP) First Vertical Derivative Reduced to Pole
Image File: 5-TMI-1vdrtp-psc-nsun



Feather Cap Prospect
INSERT MAP

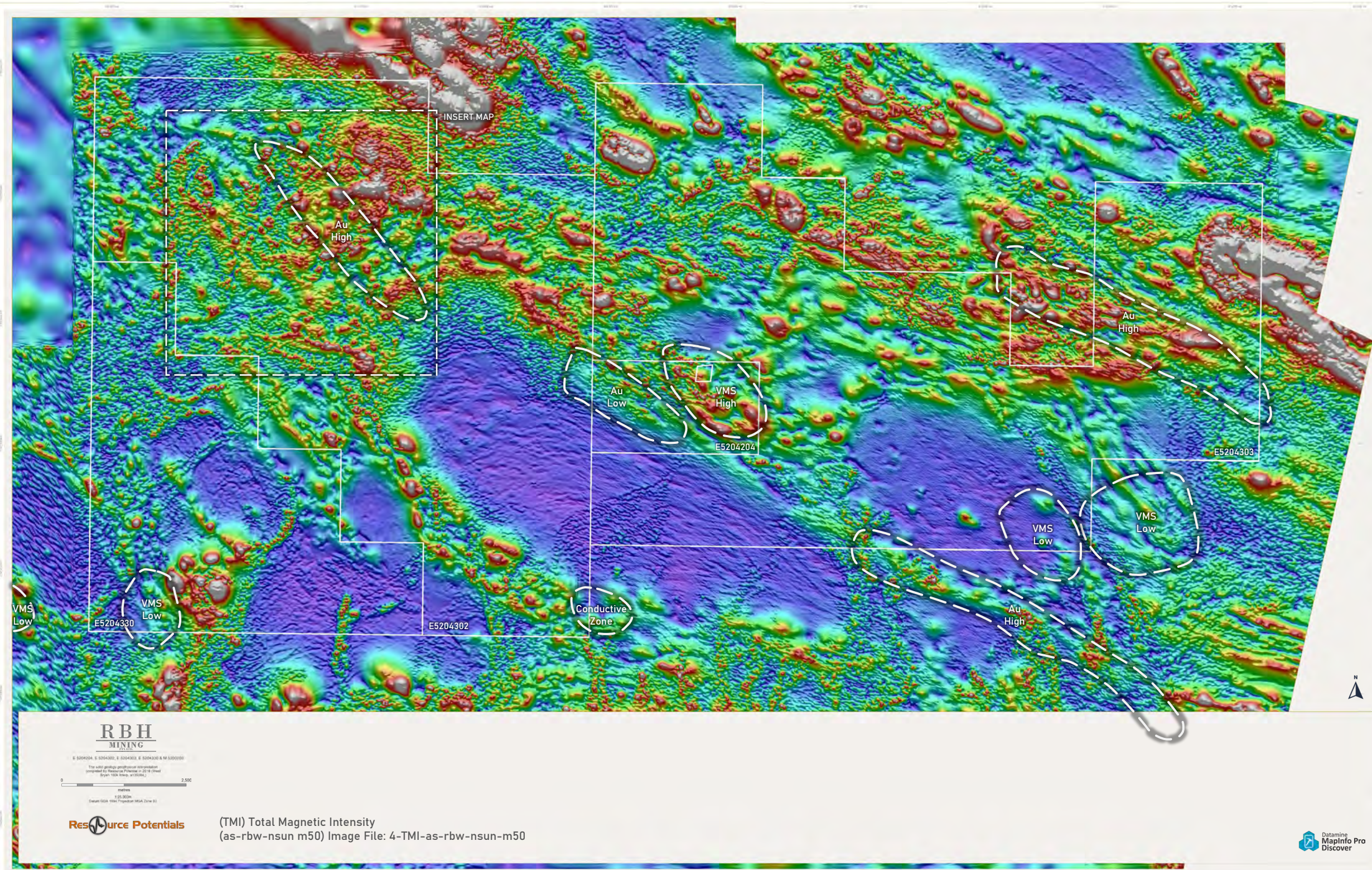
Resource Potentials





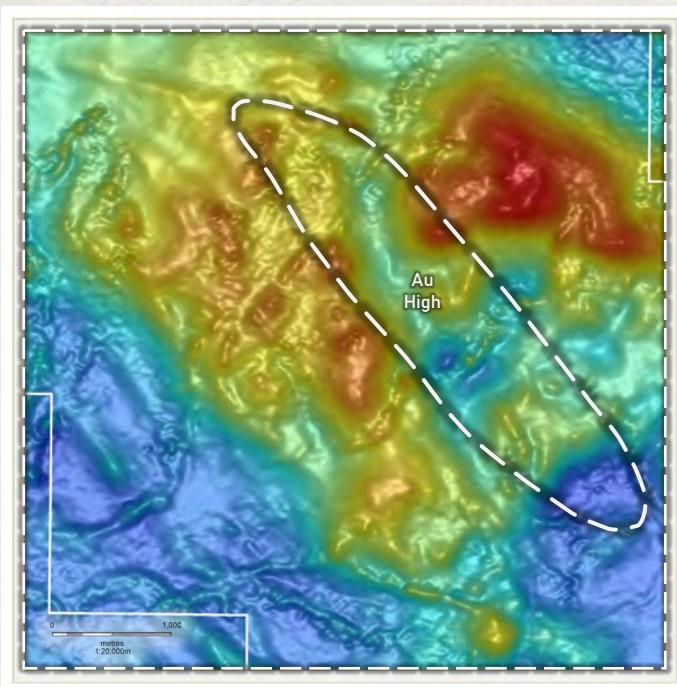
Feather Cap Prospect
INSERT MAP

Resource Potentials



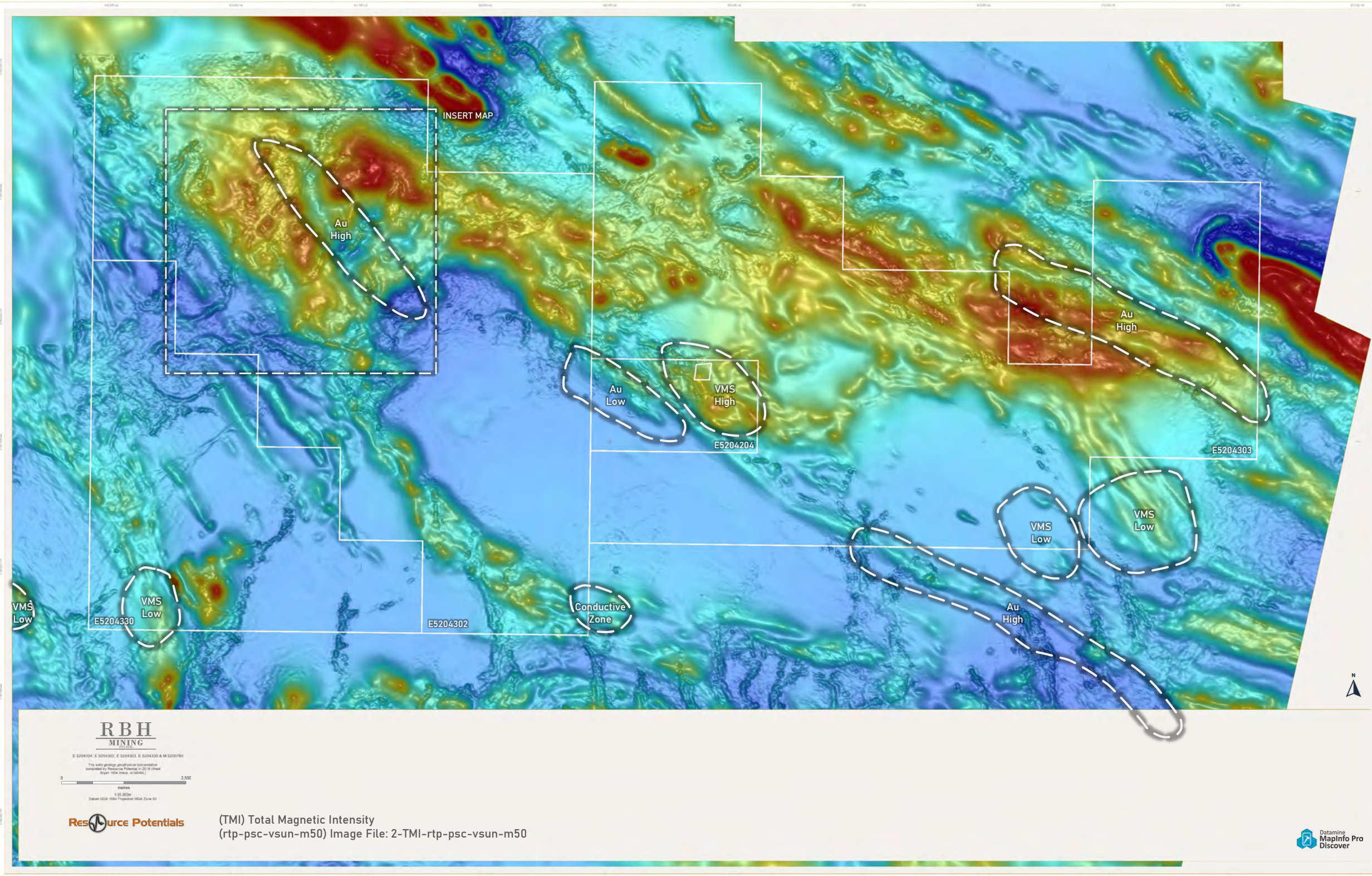
Geo Physical Imagery Resource Potentials 2018

(TMI) Total Magnetic Intensity
(rtp-psc-vsun-m50)
Image File: 2-TMI-rtp-psc-vsun-m50



Feather Cap Prospect
INSERT MAP

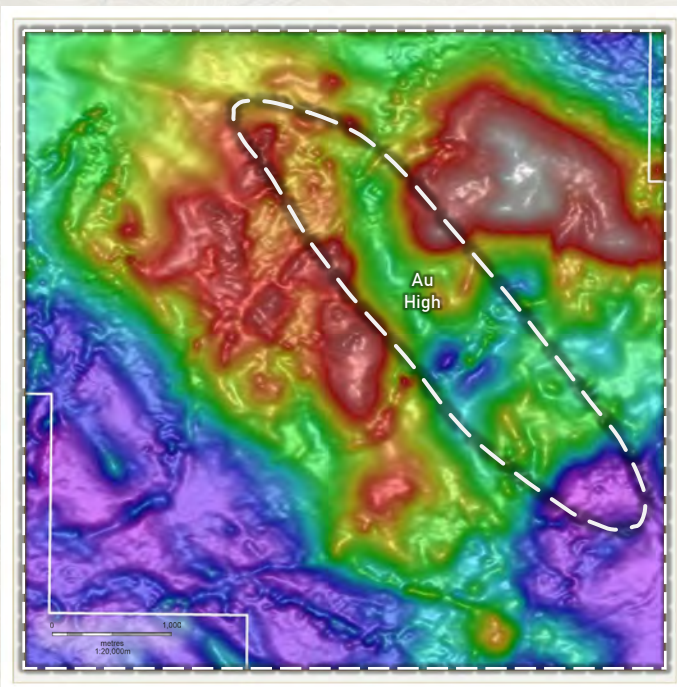
Resource Potentials



25k Geological Map Series Feather Cap Project

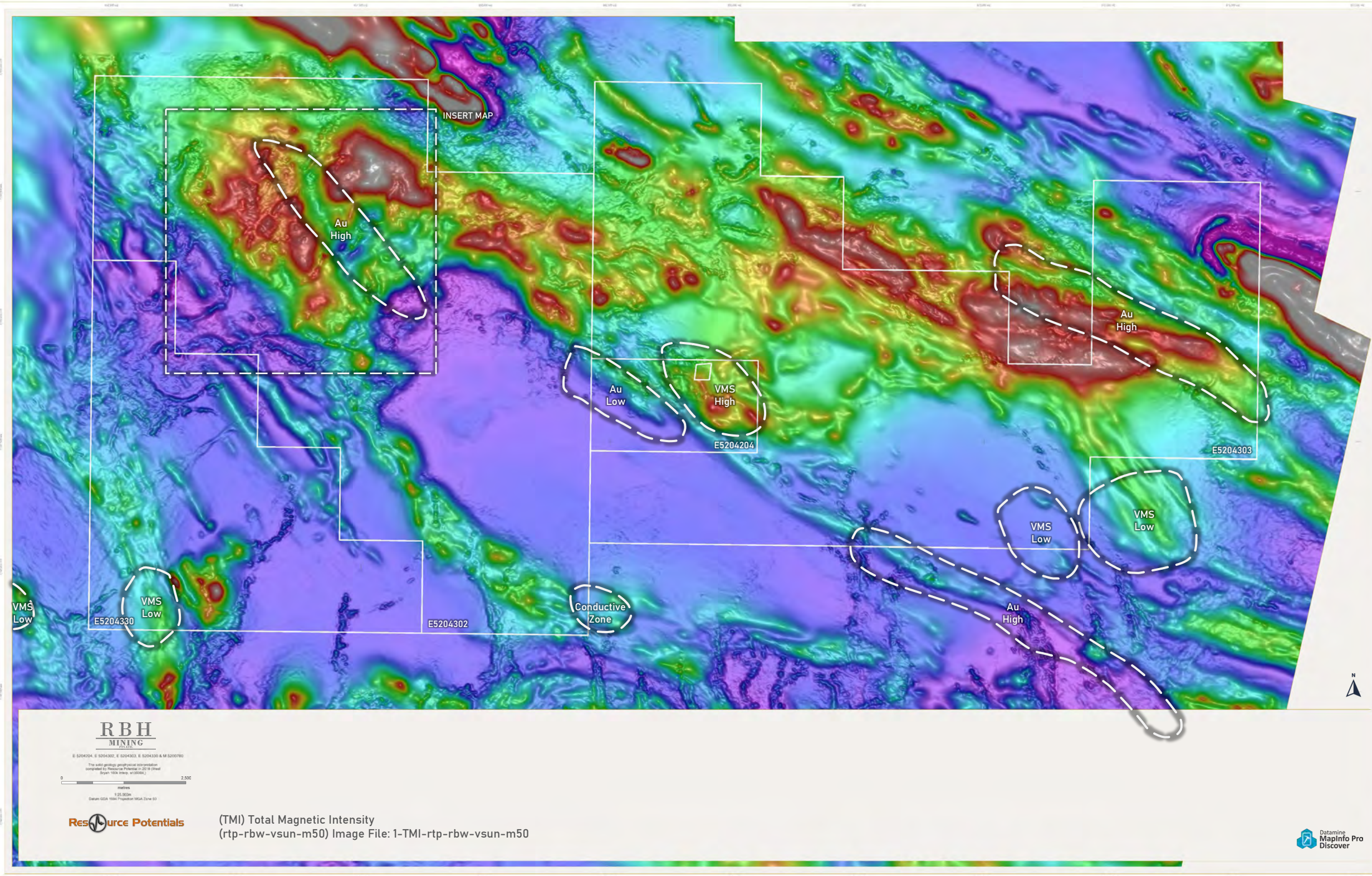
Geo Physical Imagery Resource Potentials 2018

(TMI) Total Magnetic Intensity
(rtp-rbw-vsun-m50)
Image File: 1-TMI-rtp-rbw-vsun-m50

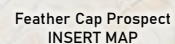


Feather Cap Prospect
INSERT MAP

Resource Potentials



AC	● AC	(318)
RAB	● RAB	(1796)
RC	● RC	(20)
AUG	● AUG	(748)

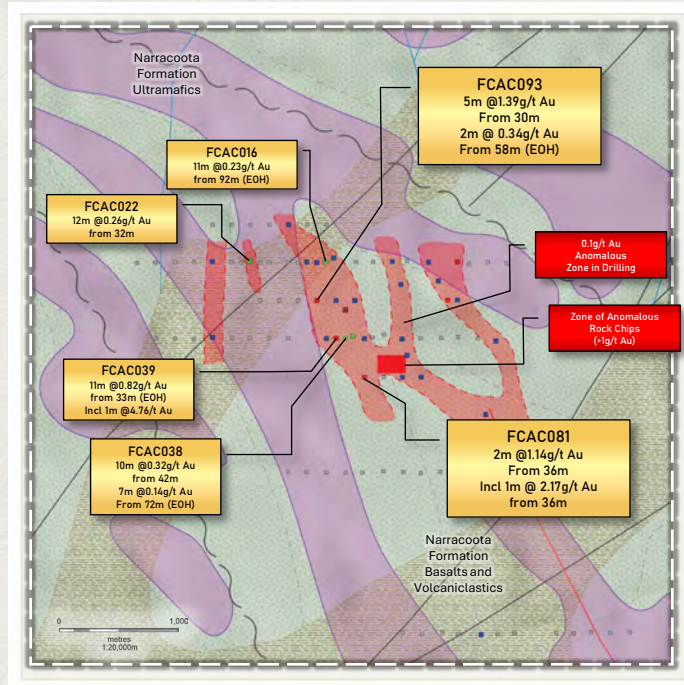


25k Geological Map Series Feather Cap Project



Feather Cap Drill Results (Maximum Gold Downhole)

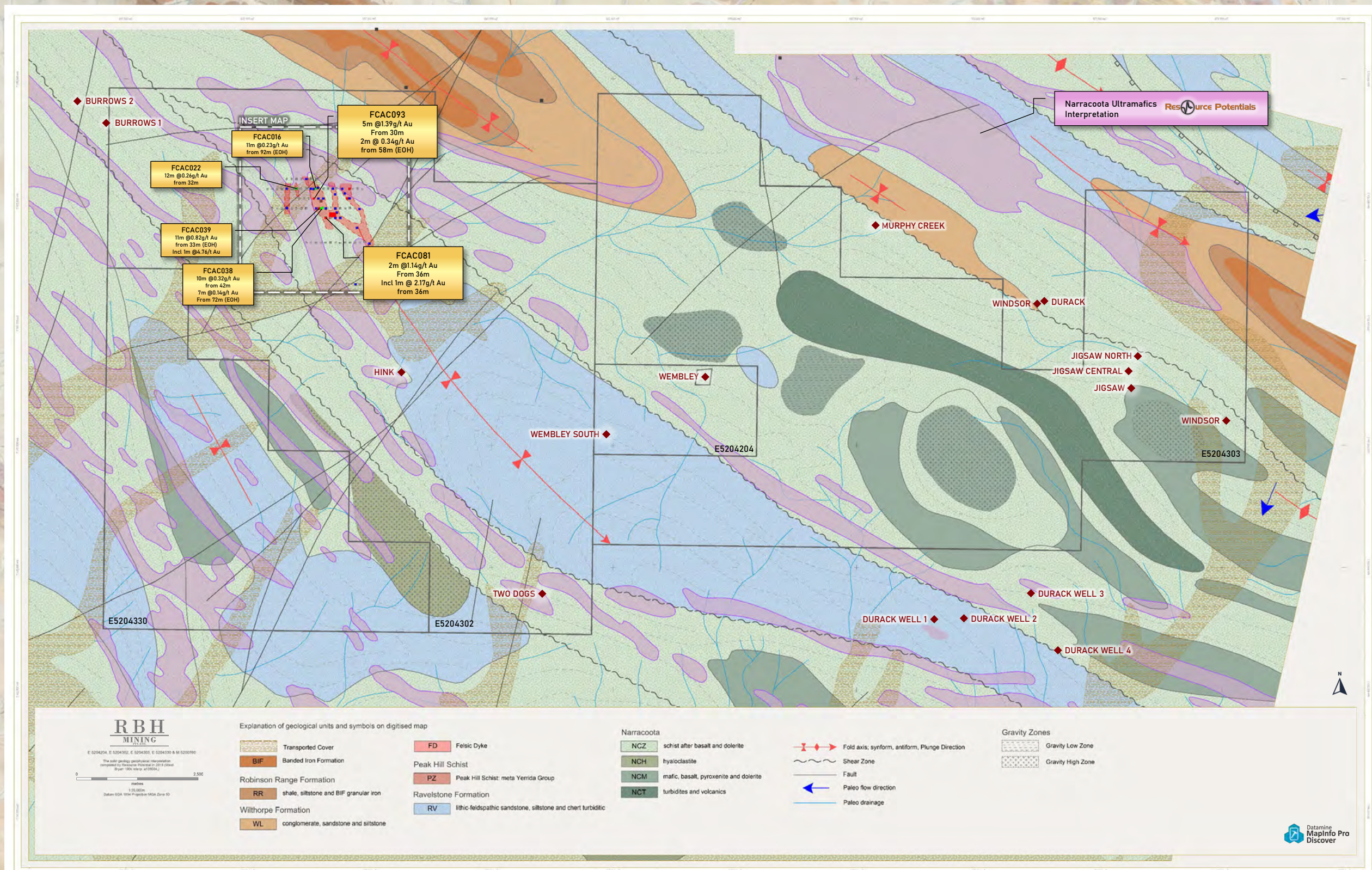
- < 0.1g/t Au
- 0.1 – 0.5g/t Au
- 0.5 – 1.0g/t Au
- 1.0 – 5.0g/t Au



Feather Cap Prospect
INSERT MAP



TERRAMIN
GEOSCIENCES

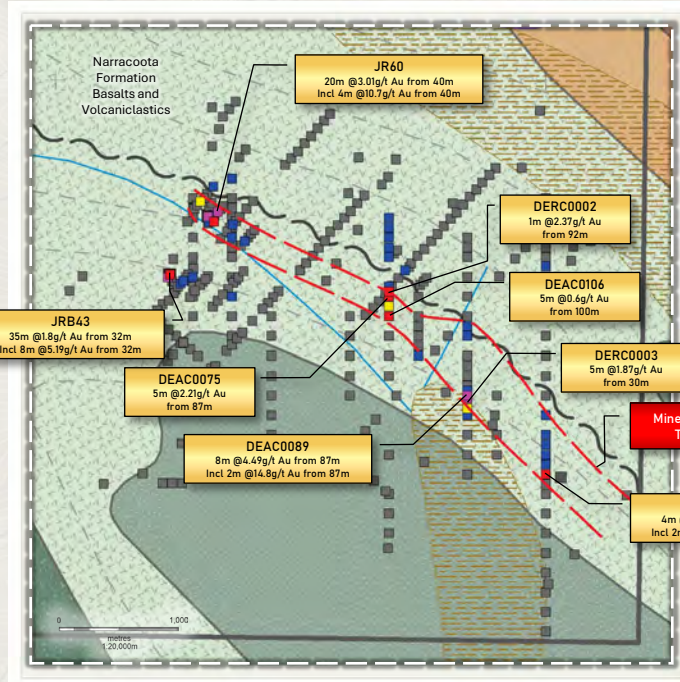


25k Geological Map Series Feather Cap Project



Jigsaw Prospect Drill Results (Maximum Gold in drilling)

- < 0.1g/t Au
- 0.1 – 0.5g/t Au
- 0.5 – 1.0g/t Au
- 1.0 – 5.0g/t Au
- > 5g/t Au



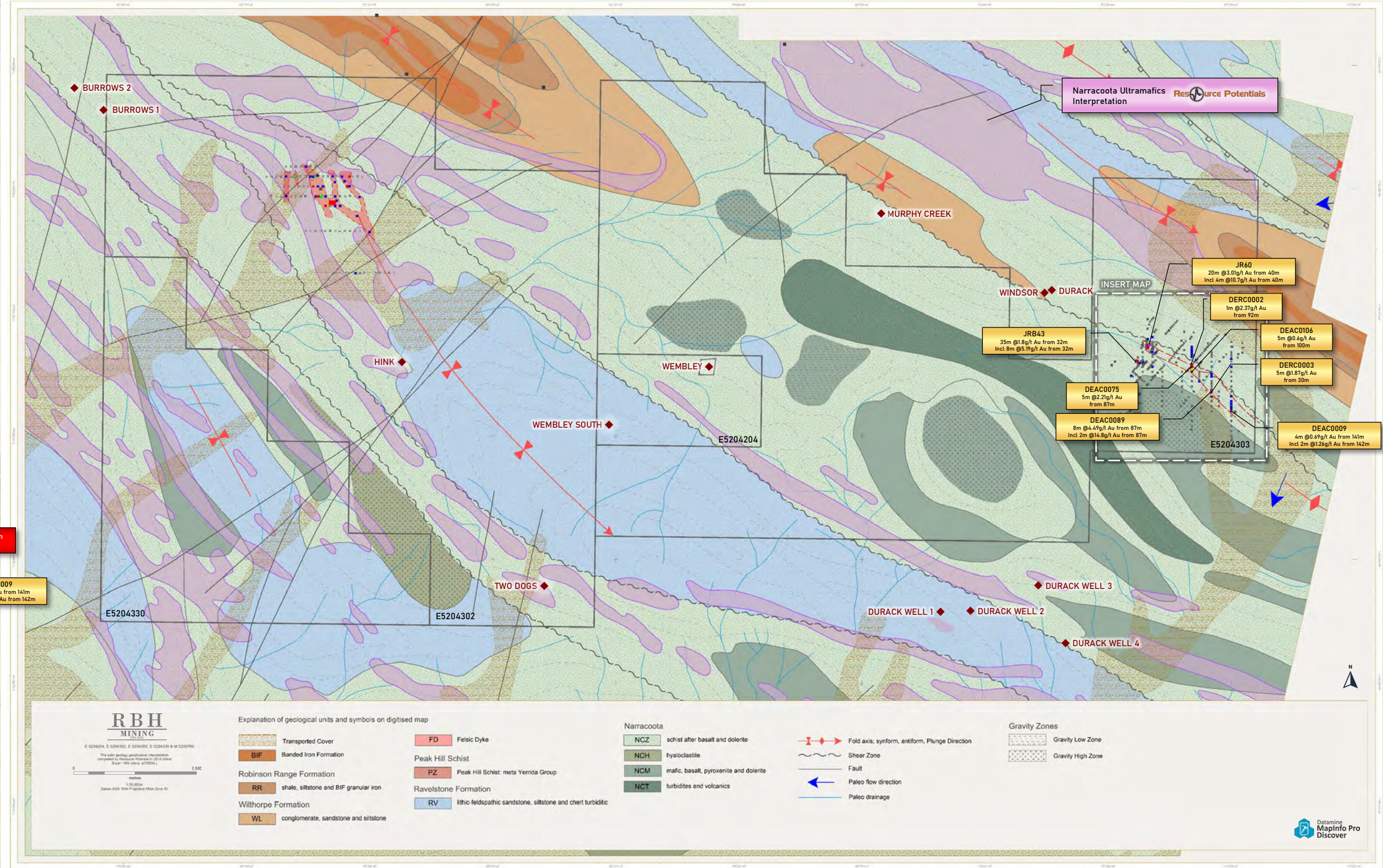
Jigsaw Prospect
INSERT MAP



TERRAMIN
GEOSCIENCES



MAP DIGITALGIS.COM
EXPLORATION ATLAS



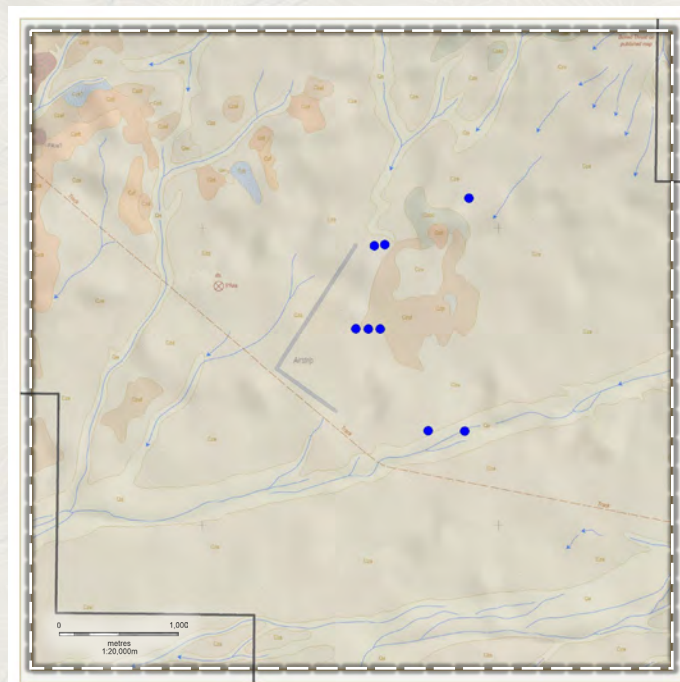
Datamine
MapInfo Pro
Discover

25k Geological Map Series
Feather Cap Project

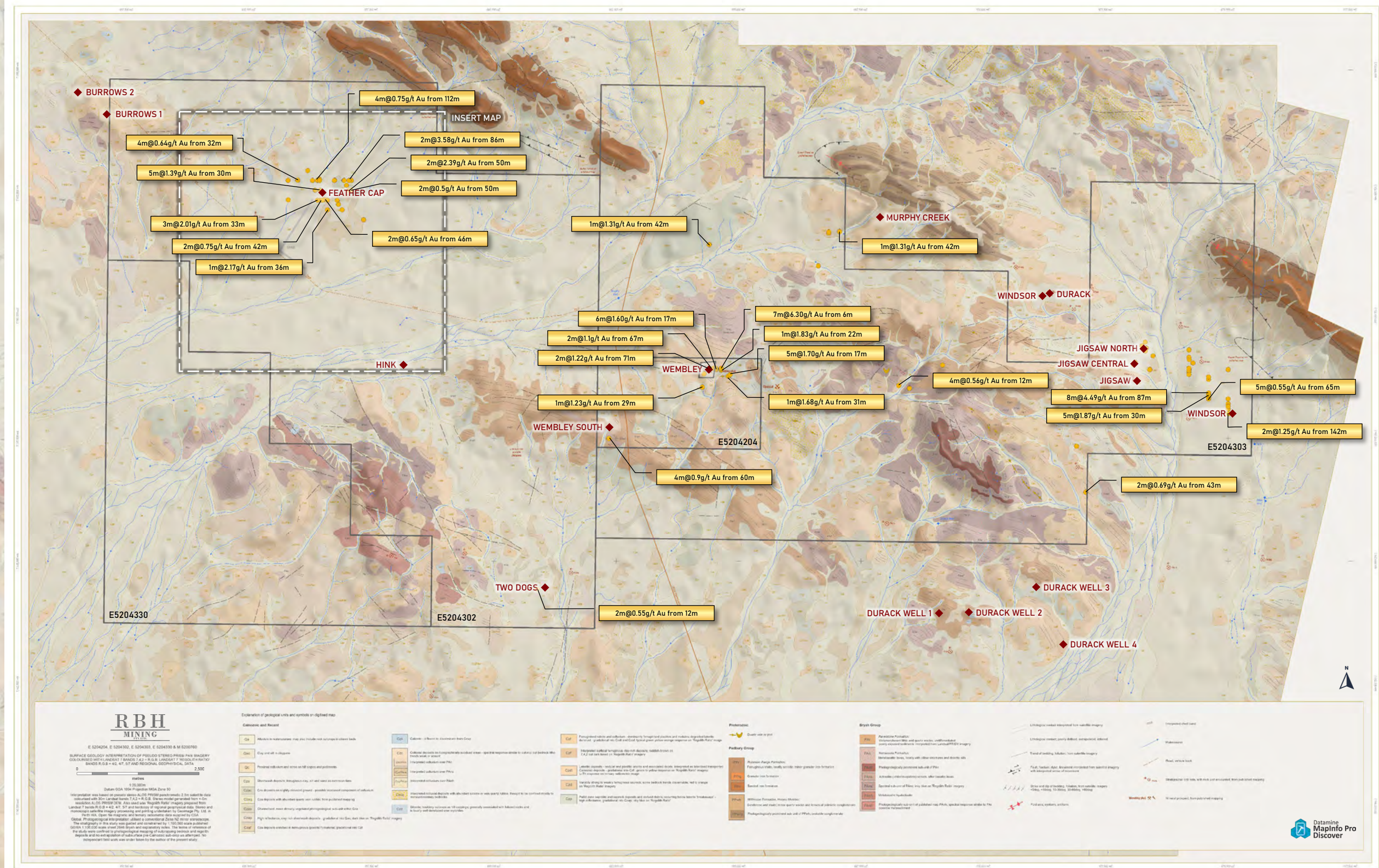
79
Au
Gold
196.97
1 6 9 6 9 7

Drilling Results

Gold (Au-ppm)



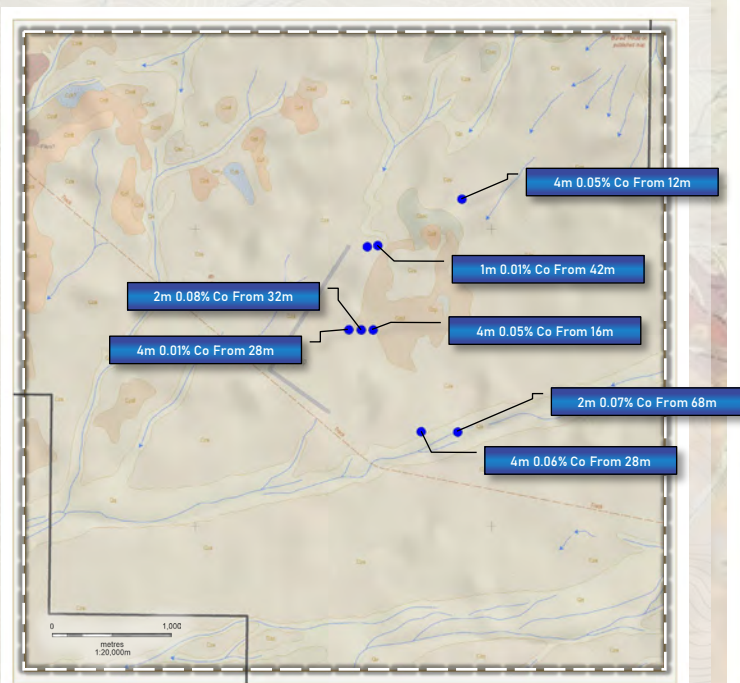
Feather Cap Prospect
INSERT MAP



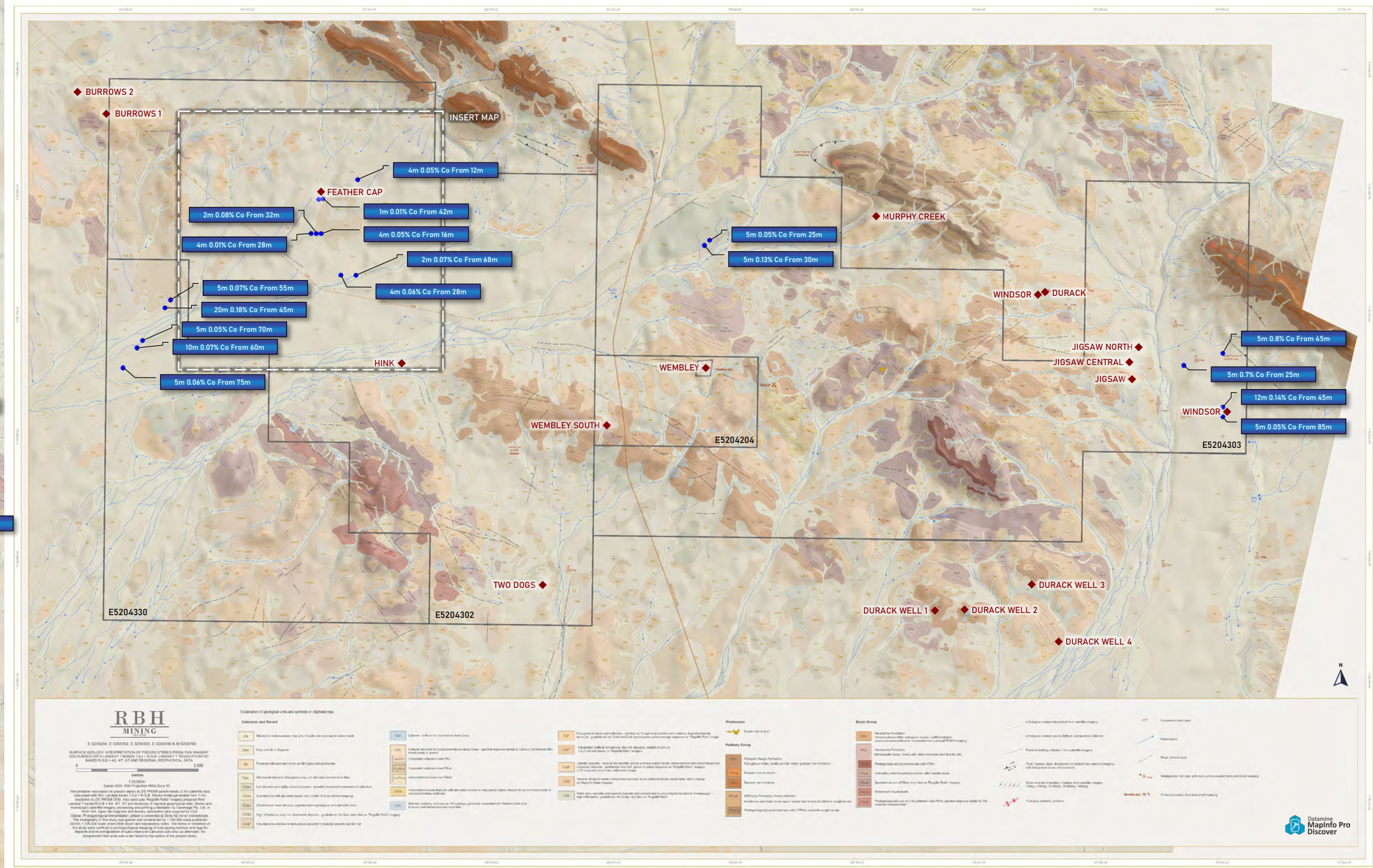
25k Geological Map Series
Feather Cap Project

27
Co
Cobalt
58.933
[Ar] 3d⁷ 4s²

Drilling Results Cobalt (Co-ppm)

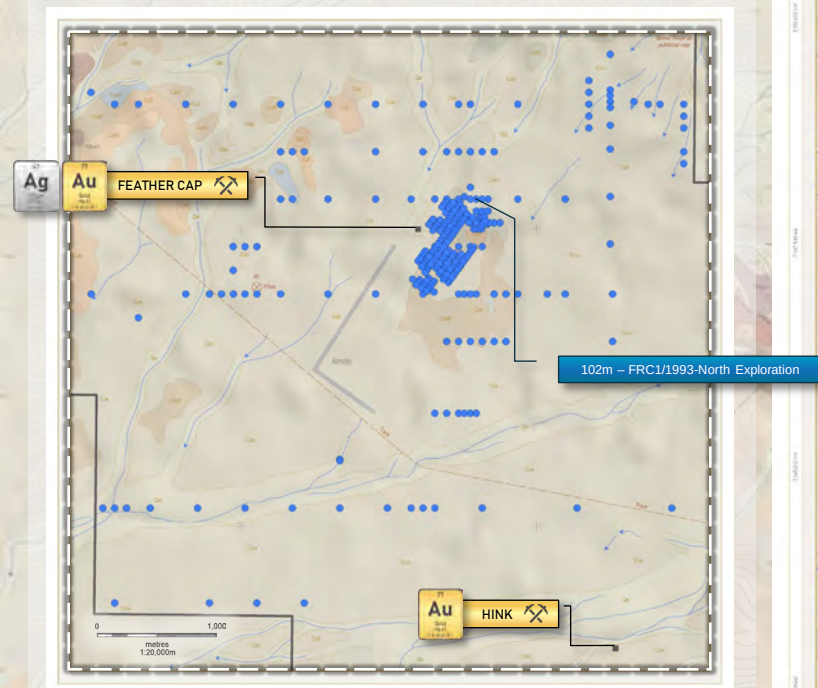


Feather Cap Prospect
INSERT MAP

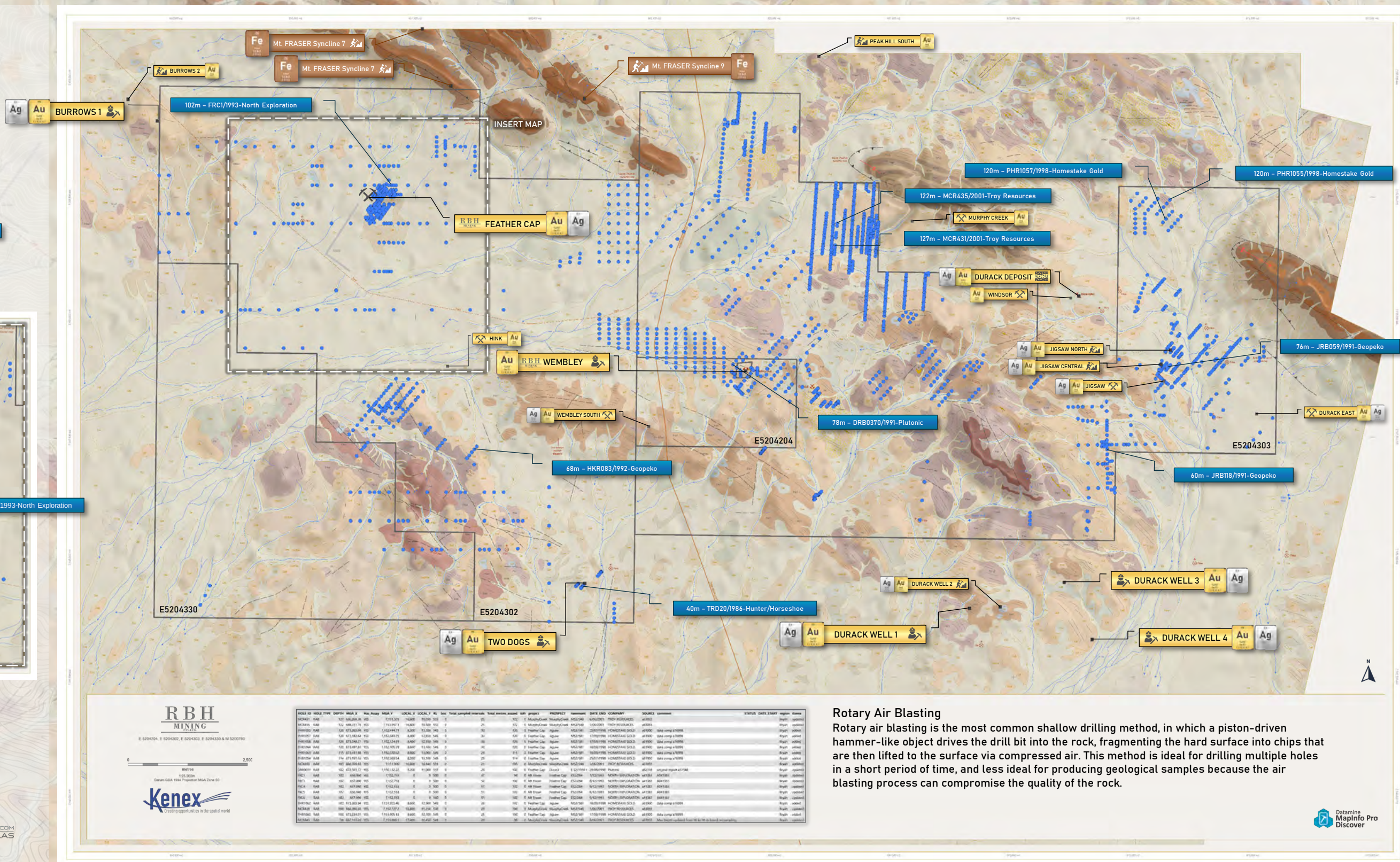


Highlighted – depth / ID / year / company

- RAB (1796 Collars)



Feather Cap Prospect
INSERT MAP



Rotary Air Blasting

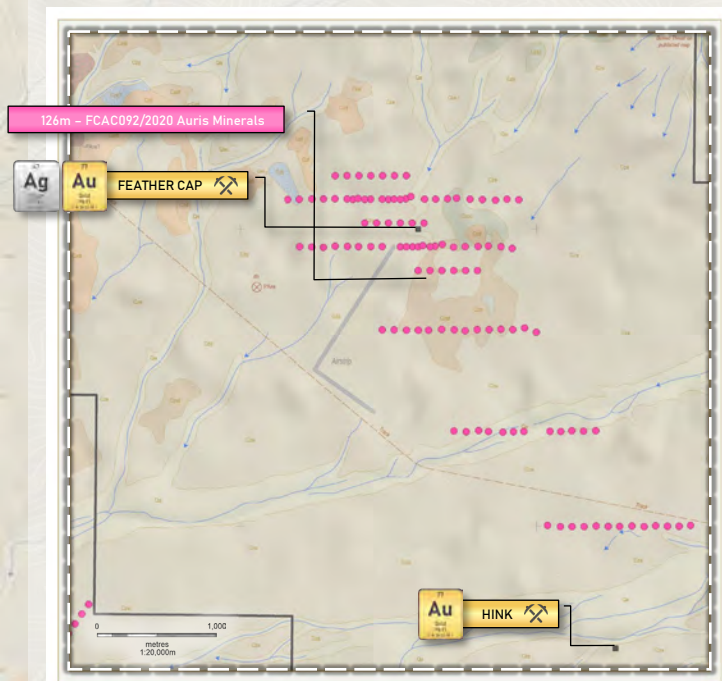
Rotary air blasting is the most common shallow drilling method, in which a piston-driven hammer-like object drives the drill bit into the rock, fragmenting the hard surface into chips that are then lifted to the surface via compressed air. This method is ideal for drilling multiple holes in a short period of time, and less ideal for producing geological samples because the air blasting process can compromise the quality of the rock.

25k Geological Map Series
Feather Cap Project

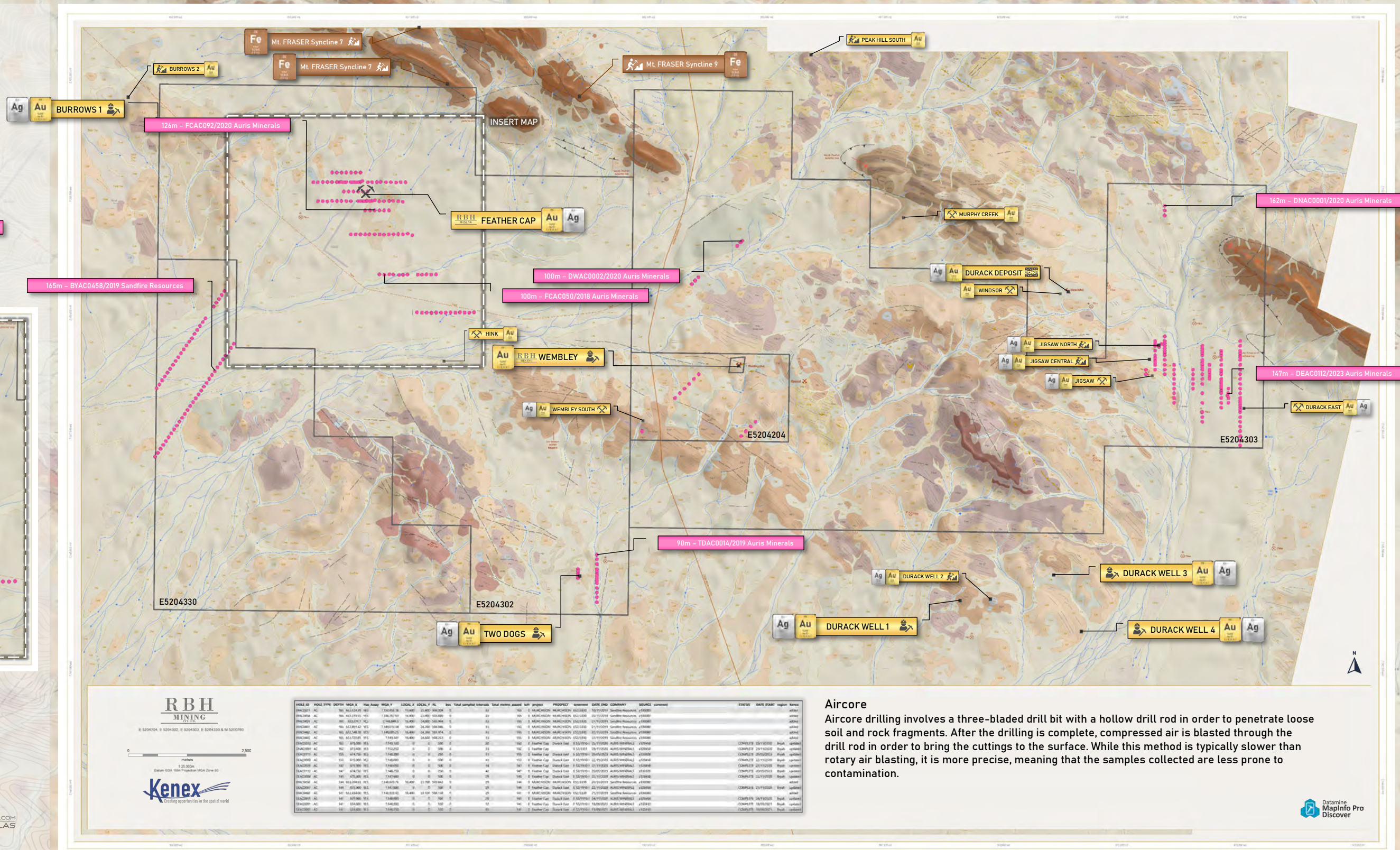
(AC) Collar Location & Depth
(Historical) 318 Collars

Highlighted – depth / ID / year / company

- AC (318 Collars)



Feather Cap Prospect
INSERT MAP



Aircore

Aircore drilling involves a three-bladed drill bit with a hollow drill rod in order to penetrate loose soil and rock fragments. After the drilling is complete, compressed air is blasted through the drill rod in order to bring the cuttings to the surface. While this method is typically slower than rotary air blasting, it is more precise, meaning that the samples collected are less prone to contamination.

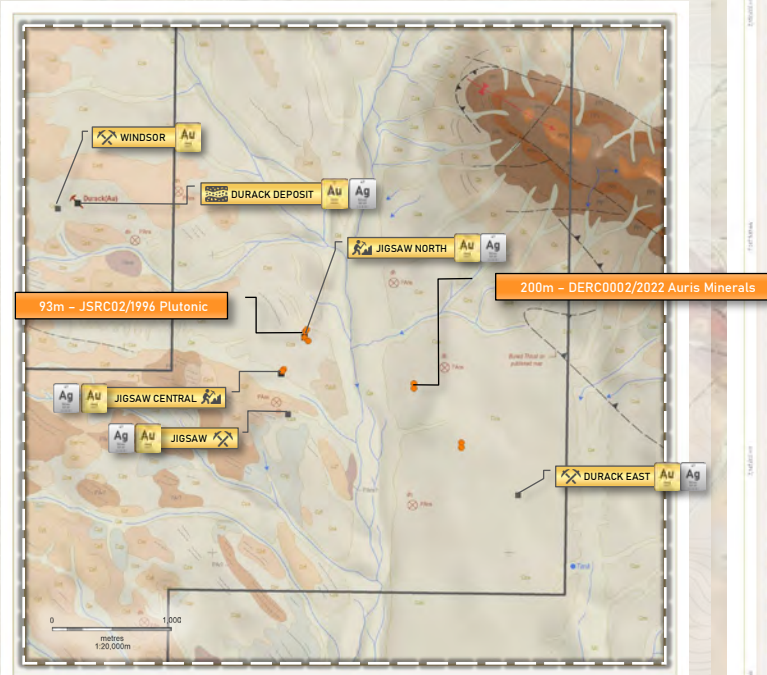
25k Geological Map Series
Feather Cap Project

(RC) Collar Location & Depth

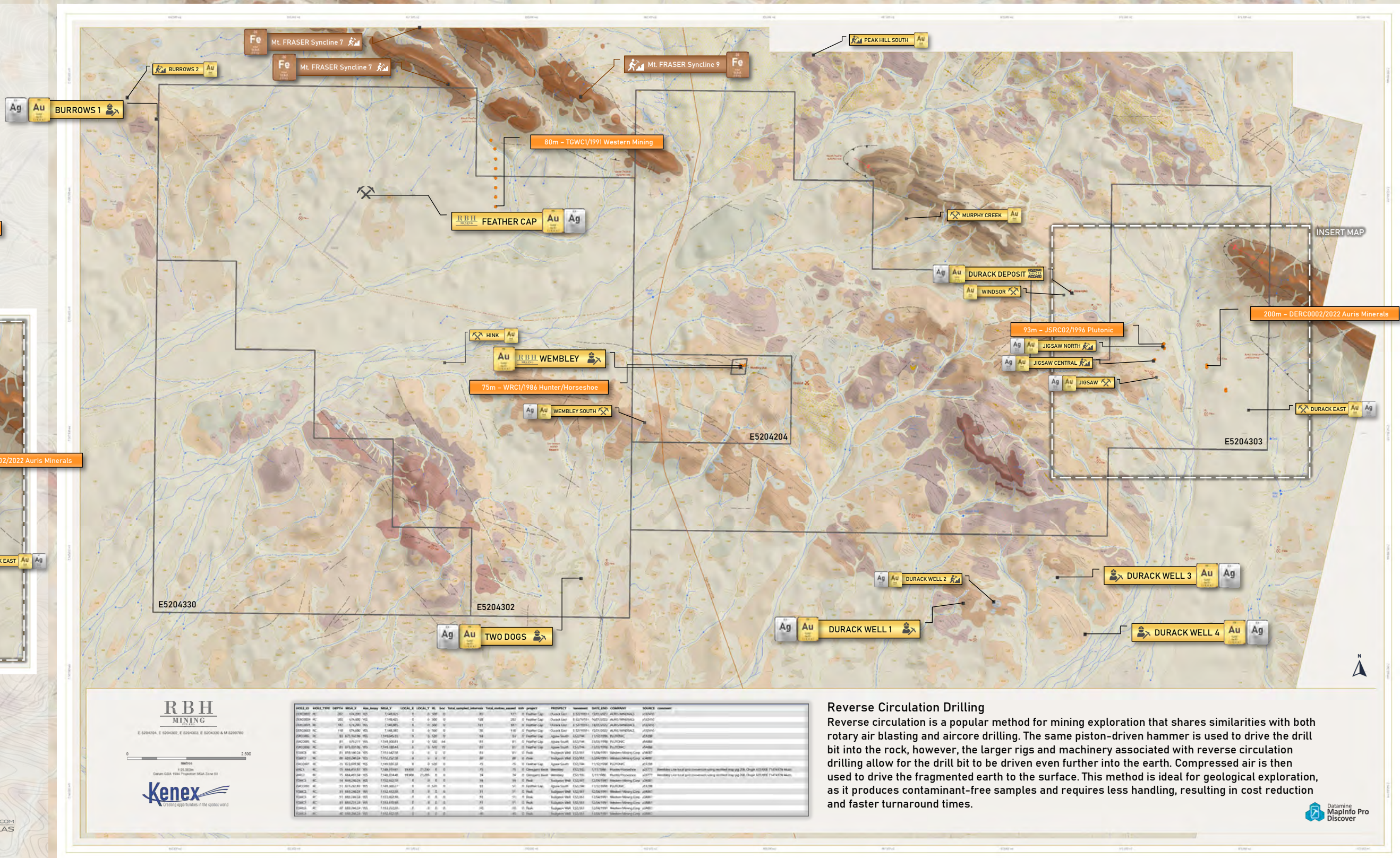
(Historical) 20 Collars

Highlighted – depth / ID / year / company

- RC (20 Collars)



Jigsaw Prospect
INSERT MAP



Reverse Circulation Drilling

Reverse circulation is a popular method for mining exploration that shares similarities with both rotary air blasting and aircore drilling. The same piston-driven hammer is used to drive the drill bit into the rock, however, the larger rigs and machinery associated with reverse circulation drilling allow for the drill bit to be driven even further into the earth. Compressed air is then used to drive the fragmented earth to the surface. This method is ideal for geological exploration, as it produces contaminant-free samples and requires less handling, resulting in cost reduction and faster turnaround times.

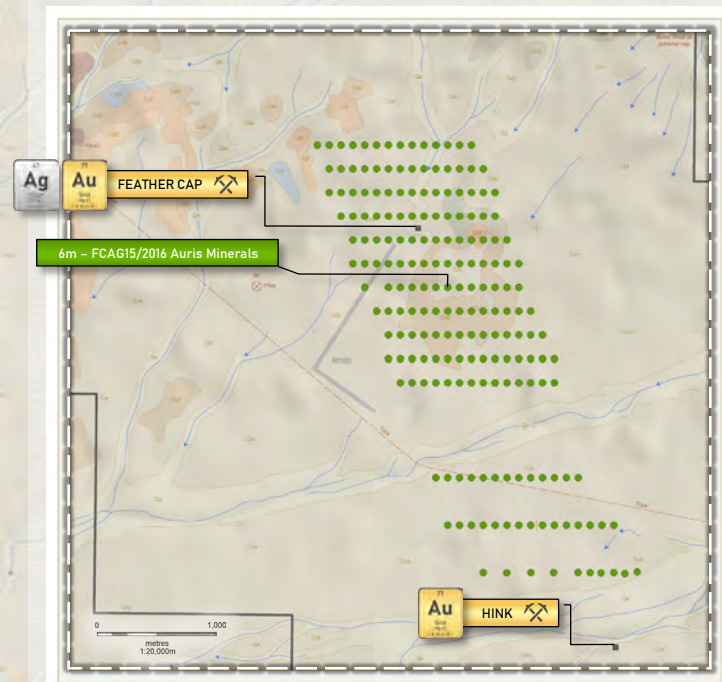
25k Geological Map Series
Feather Cap Project

(AUG) Collar Location & Depth

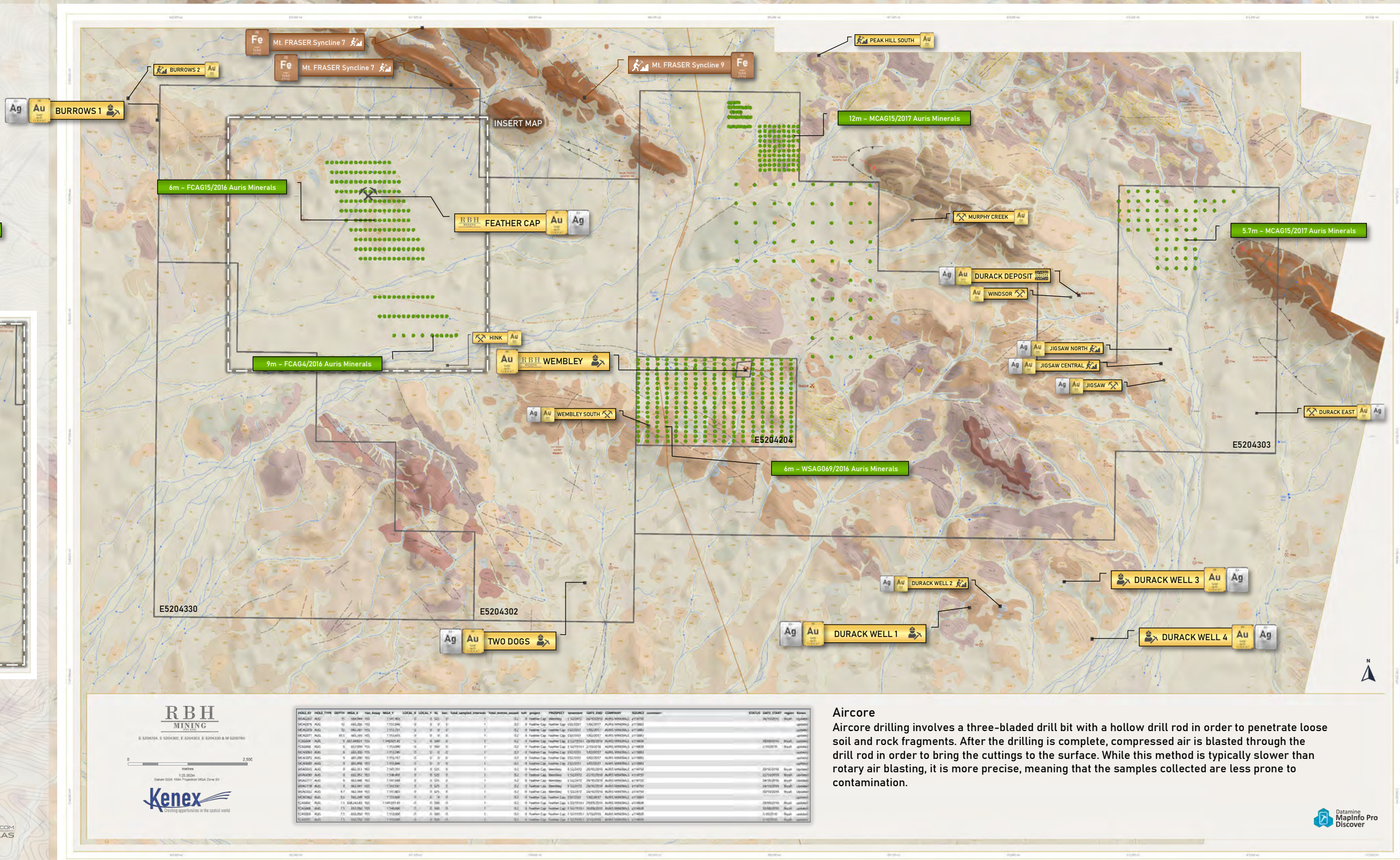
(Historical) 748 Collars

Highlighted – depth / ID / year / company

- AUG (748 Collars)



Feather Cap Prospect
INSERT MAP



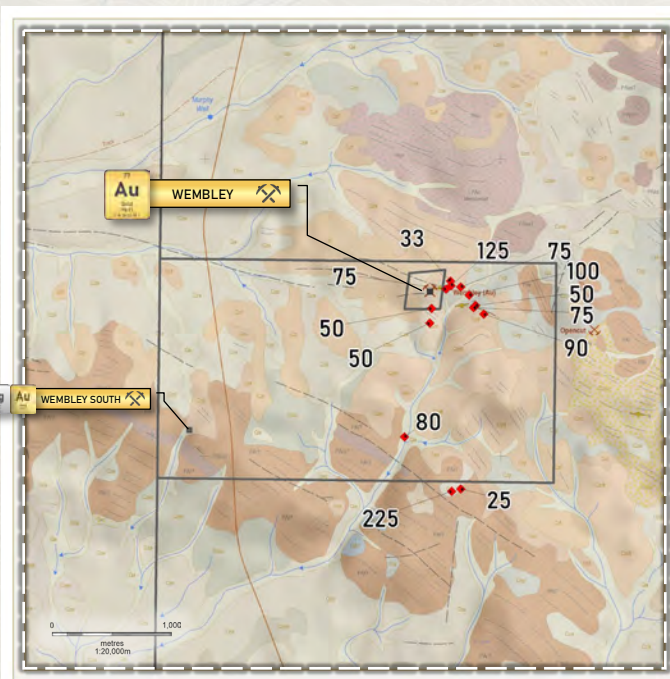
Aircore

Aircore drilling involves a three-bladed drill bit with a hollow drill rod in order to penetrate loose soil and rock fragments. After the drilling is complete, compressed air is blasted through the drill rod in order to bring the cuttings to the surface. While this method is typically slower than rotary air blasting, it is more precise, meaning that the samples collected are less prone to contamination.

Costean Locations & Length (Historical) 15 Costeans

Highlighted - length / ID / Name

◆ COSTEANS (15)



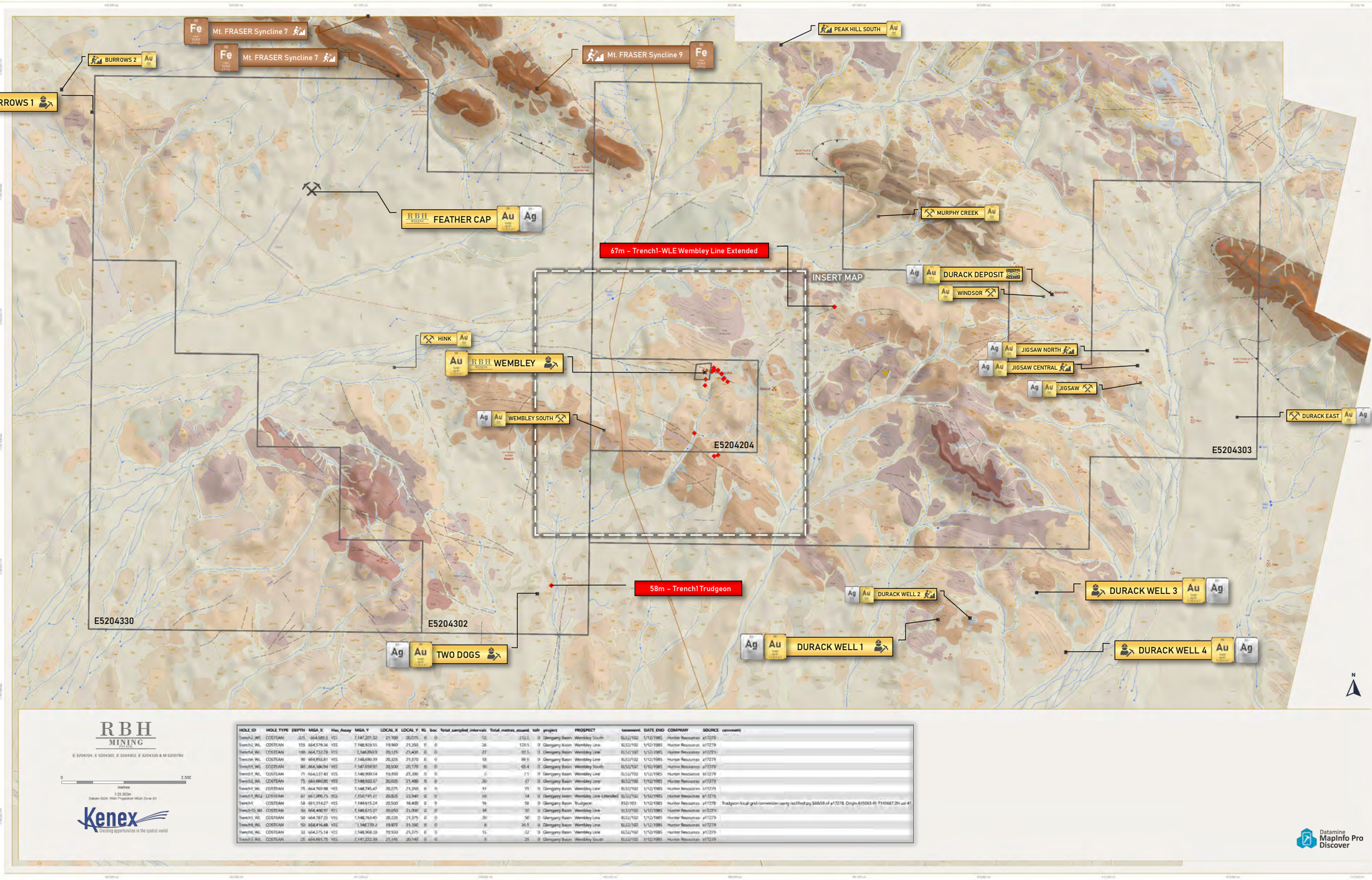
Wembley Prospect
INSERT MAP



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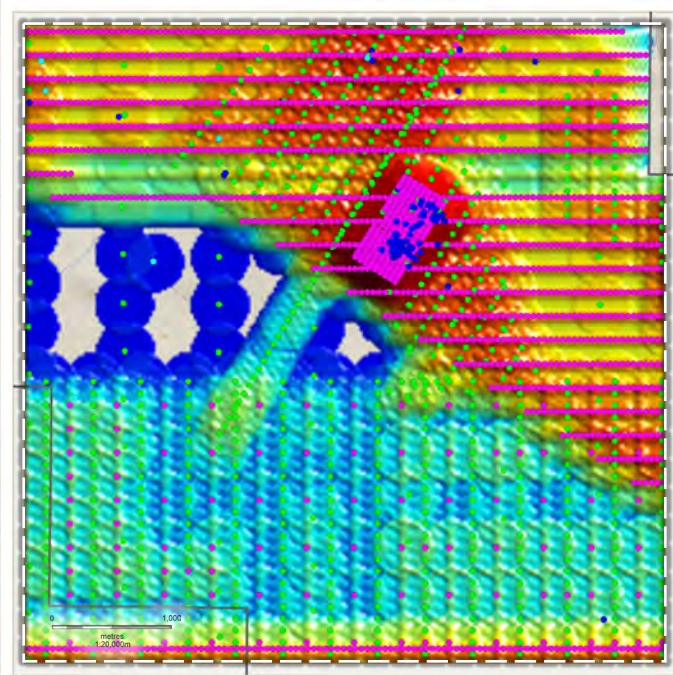


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Feather Cap Project

Surface Sample Density

Soil, Lag, Rock, Stream, Float, Spoil, V.

- | | | | |
|---------|---------|----------|------|
| ● Float | (3) | ● Spoil | (1) |
| ● Lag | (4,713) | ● Stream | (86) |
| ● Rock | (462) | ● Vac | (29) |
| ● Soil | (8,902) | | |



Feather Cap Prospect
INSERT MAP



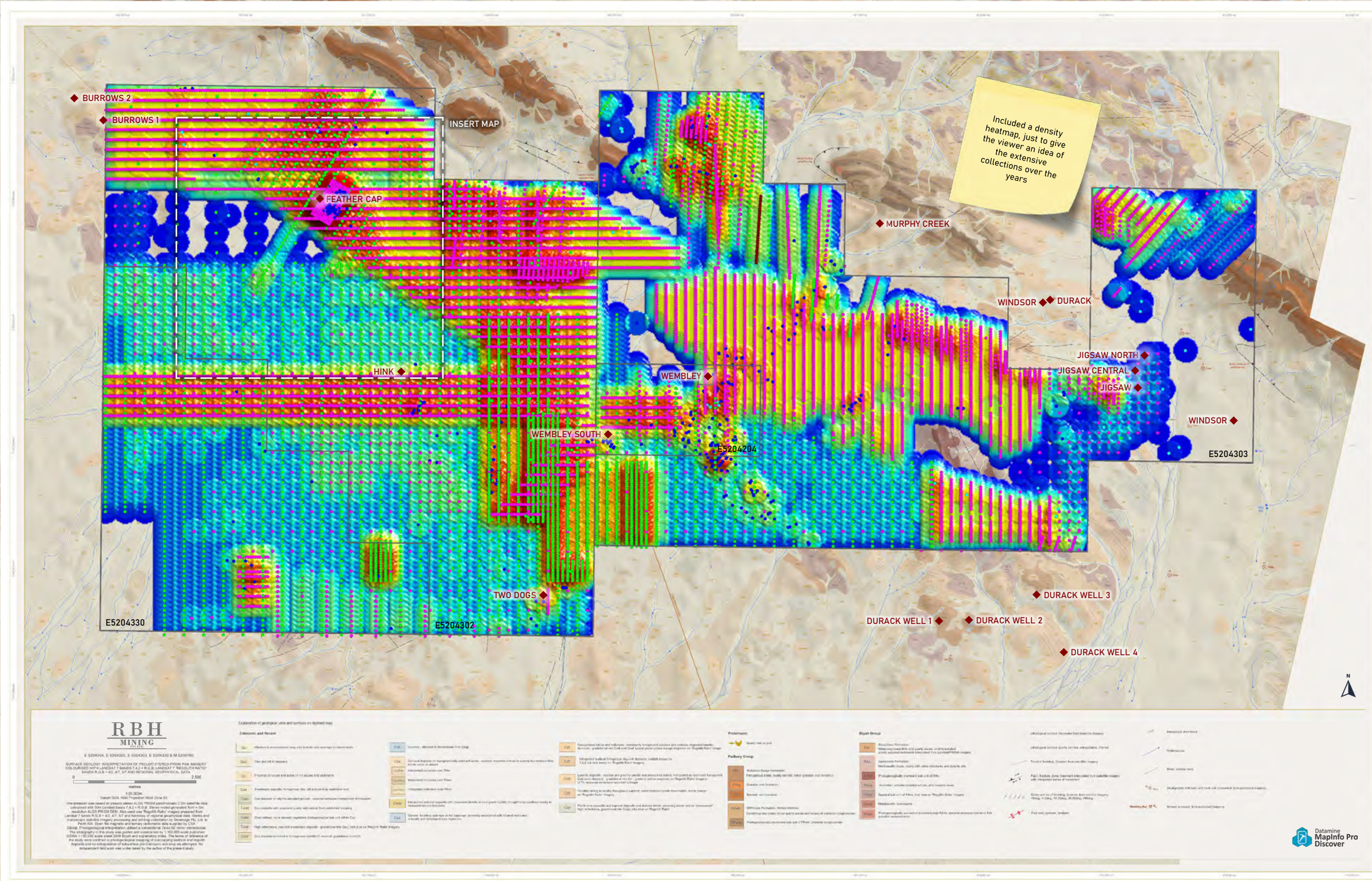
Heatmap of the Geo Chemistry sample location density



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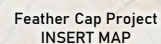


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Discover

- Rock (462)



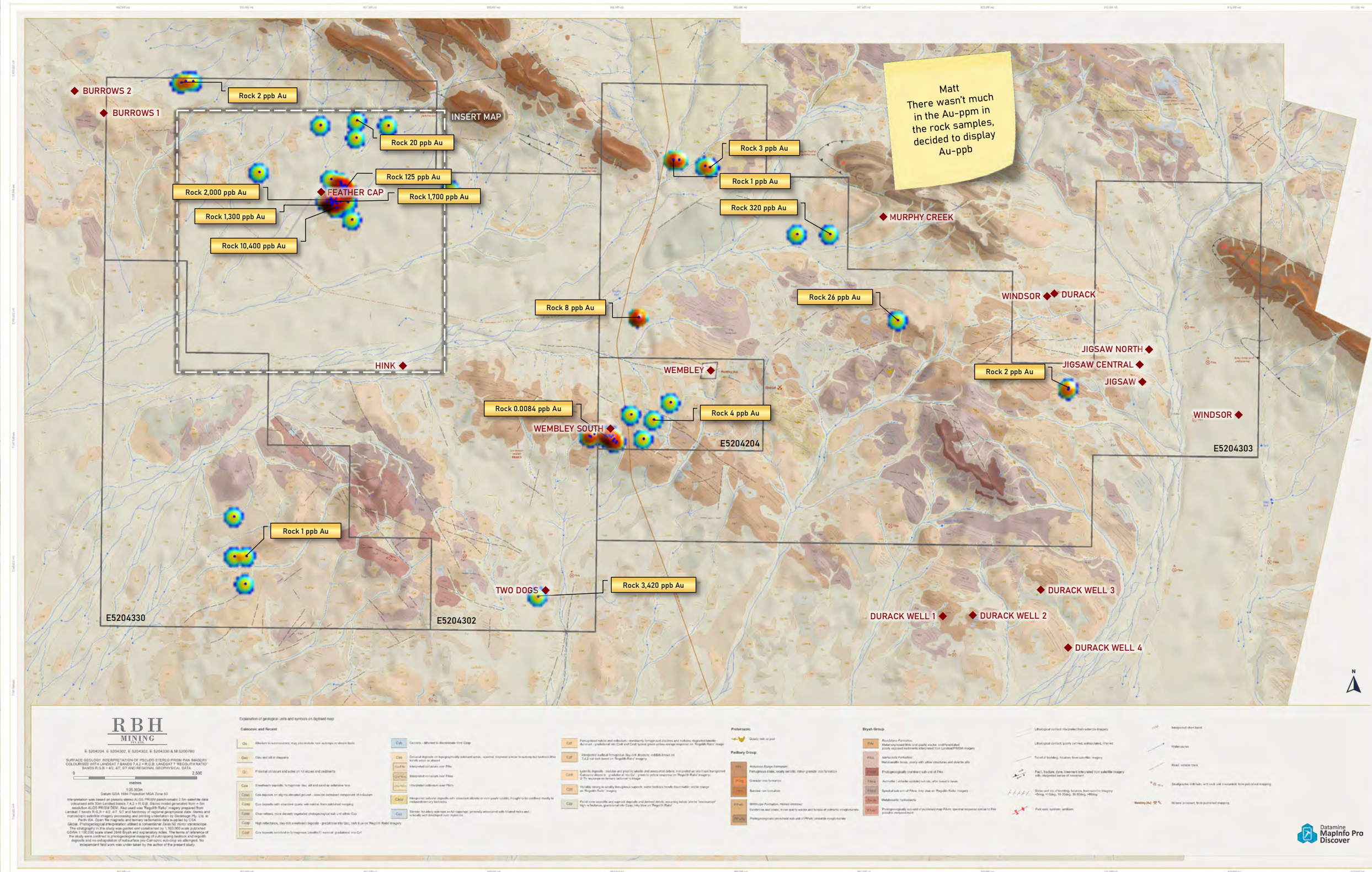
 **Heatmap** of the Rock sample locations showing Au-ppb



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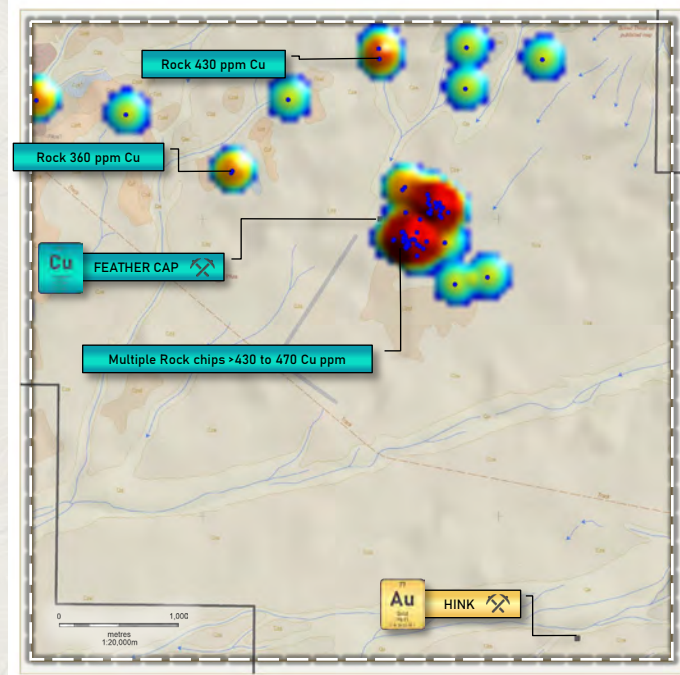
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Rock Sample Locations Copper (Cu-ppm)

● Rock (462) with 0.1 > 47ppm Cu



Feather Cap Project
INSERT MAP



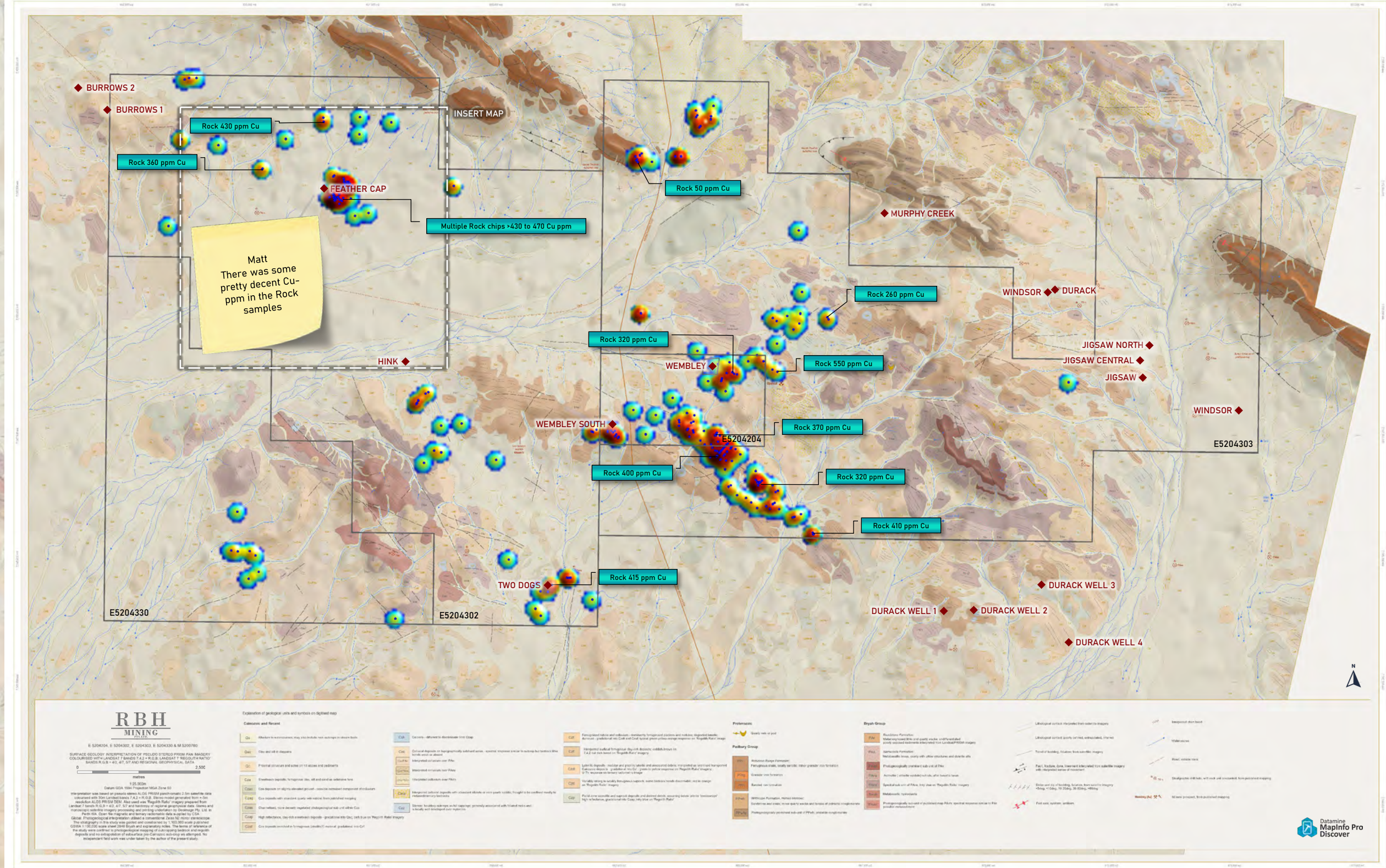
Heatmap of the Rock sample locations showing Cu-ppm



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**MAP
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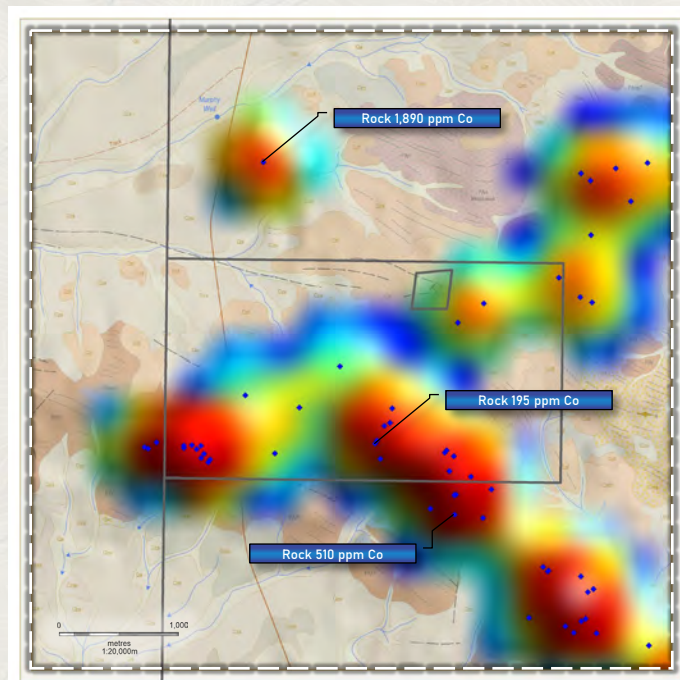


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Feather Cap Project



Rock Sample Locations Cobalt (Co-ppm)

- Rock (96) with $0.5 > 1,890\text{ppm Cu}$



WembleyProject
INSERT MAP



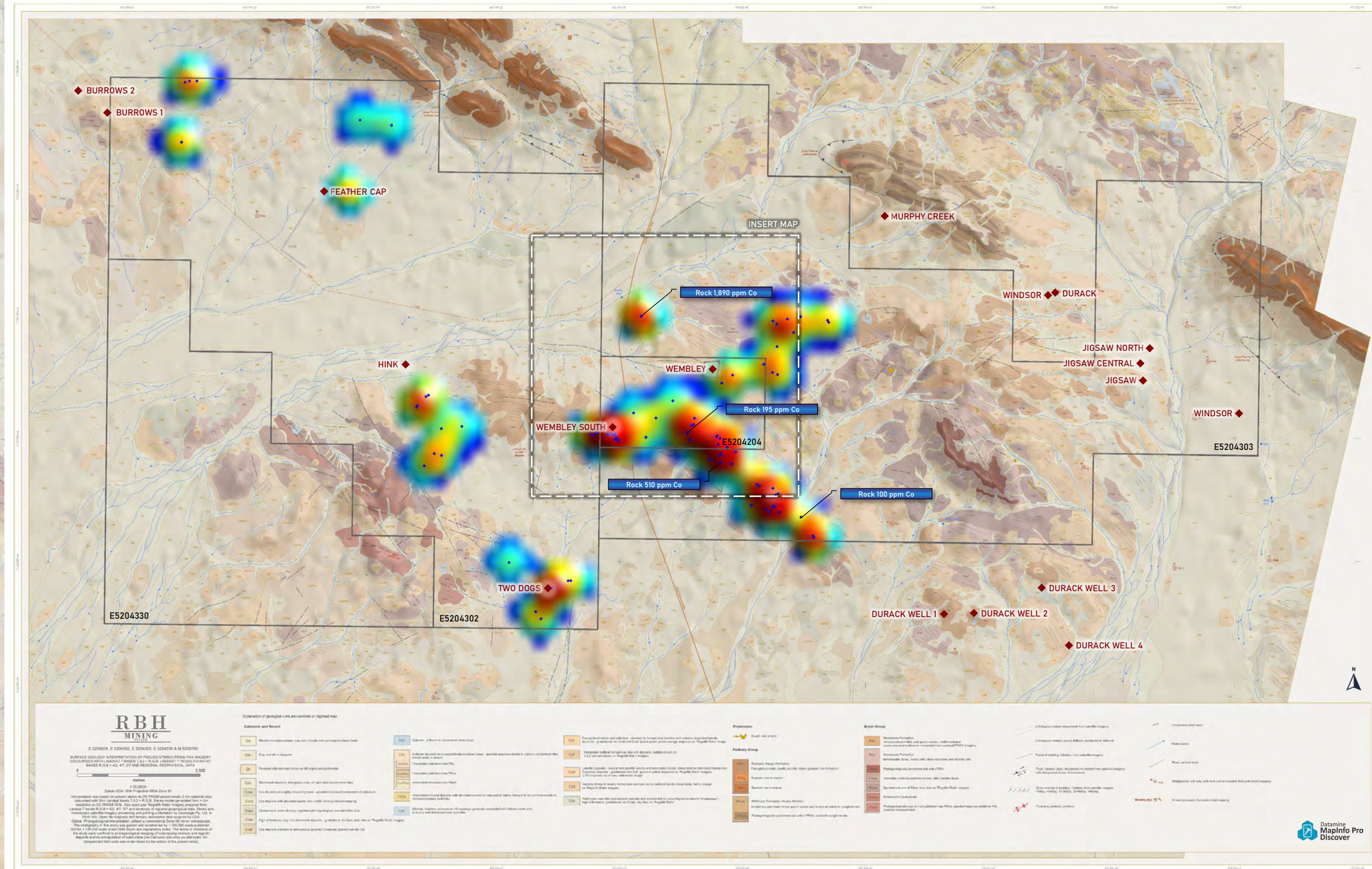
Heatmap of the Rock sample locations showing Co-ppm



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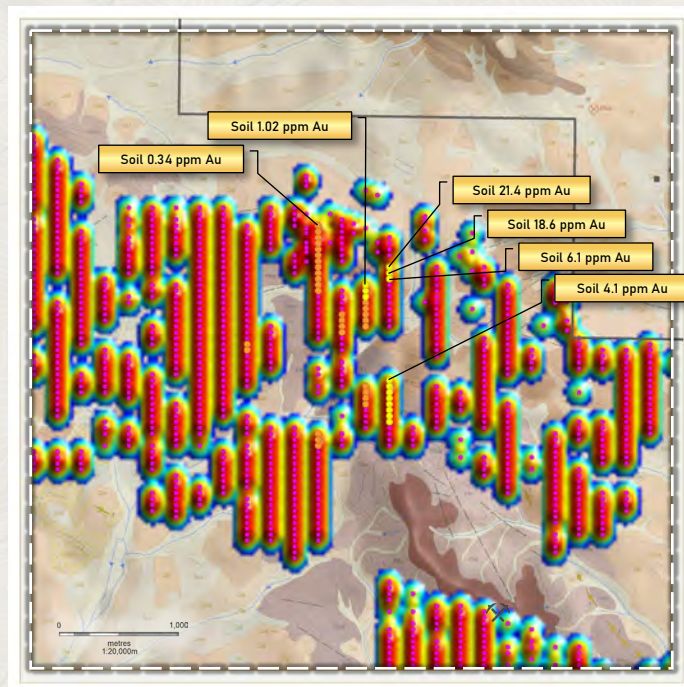
25k Geological Map Series
Feather Cap Project



Soil Sample Locations

Gold (Au-ppm)

- Soil (2137) with $0.1 > 21.4\text{ppm Au}$



Area of Interest
INSERT MAP



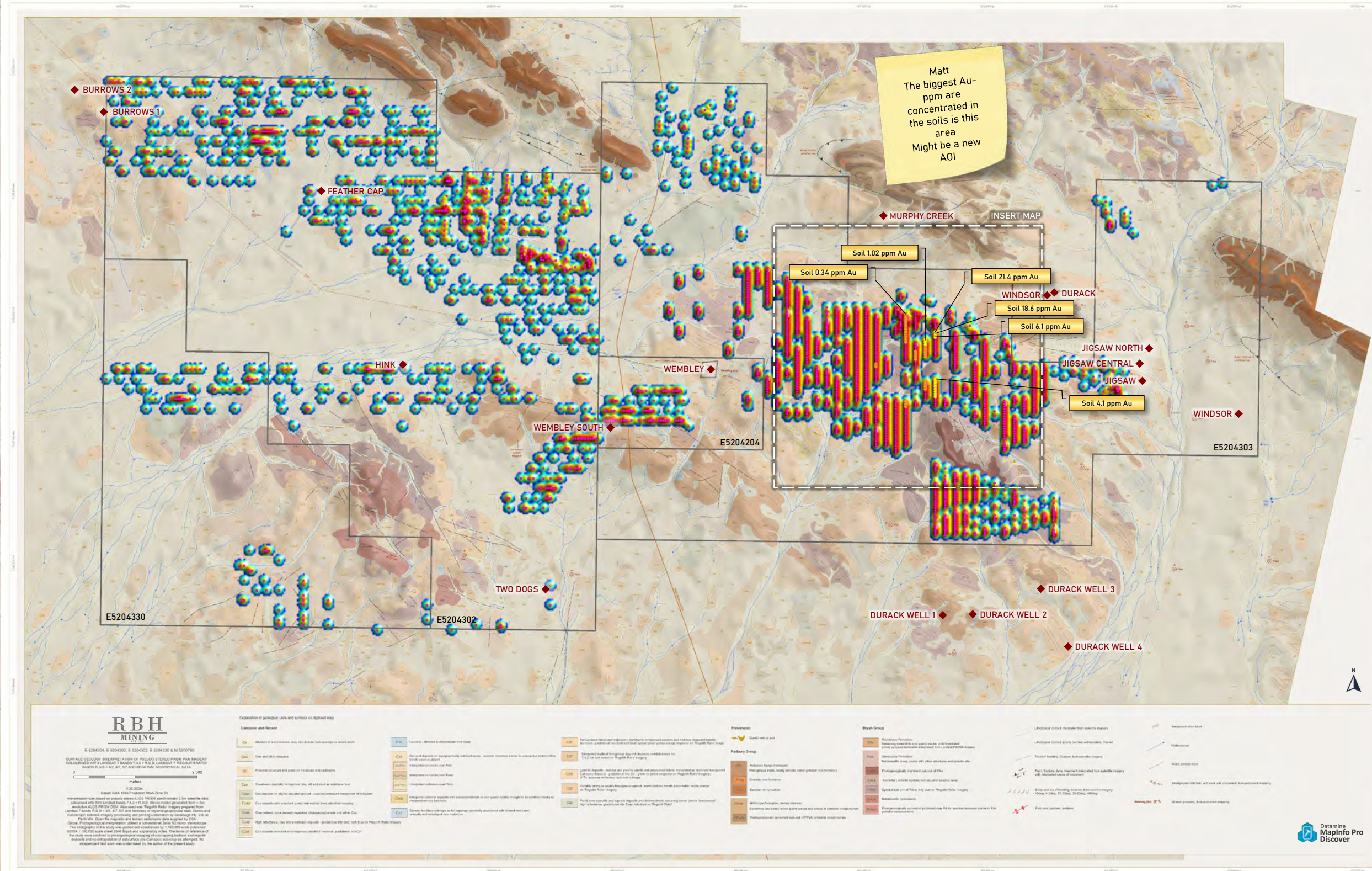
Heatmap of the Soil sample locations showing Au-ppm



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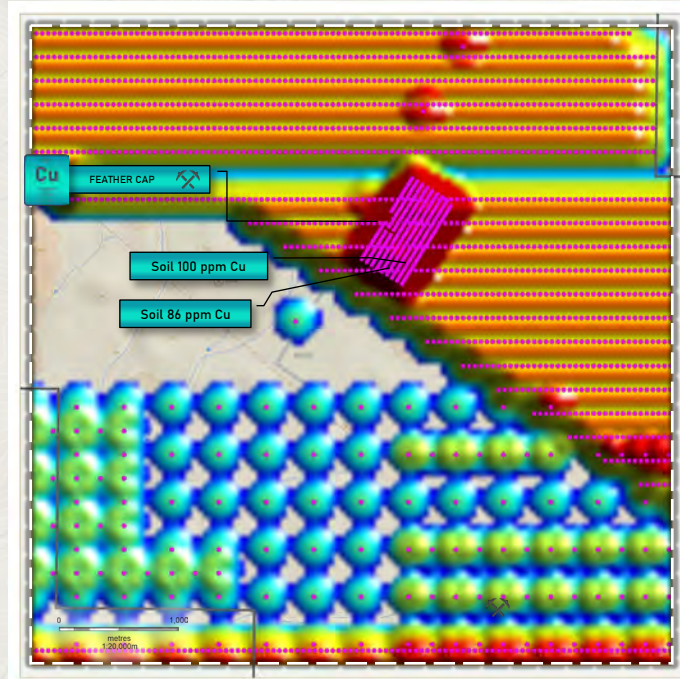
Datamine
MapInfo Pro
Discover

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Soil Sample Locations Copper (Cu-ppm)

● Soil (5237) with 0.1 > 215ppm Cu



Feather Cap Prospect
INSERT MAP



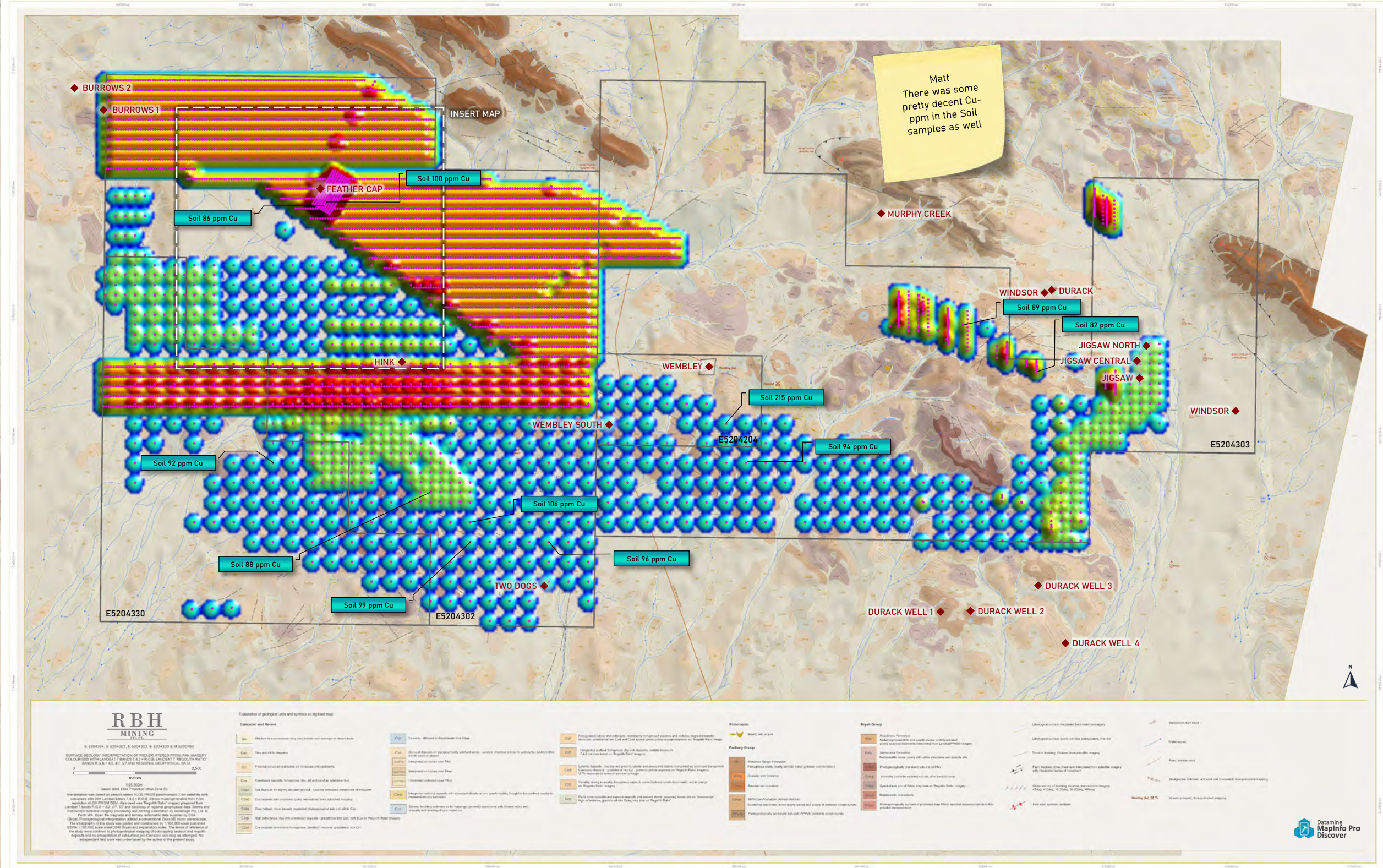
Heatmap of the Soil sample locations showing Cu-ppm



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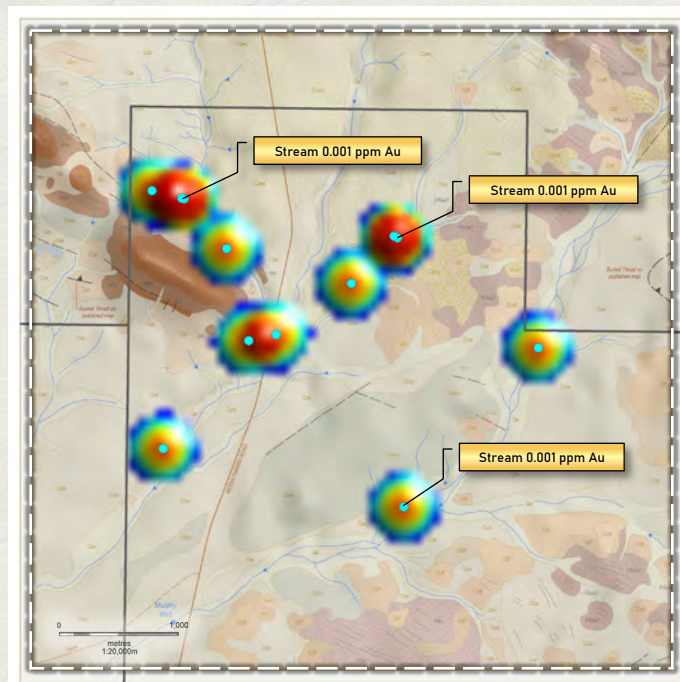
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Stream Sample Locations

Gold (Au-ppm)

- Stream (28) with $0 > 0.002\text{ppm Au}$



Area of Interest
INSERT MAP



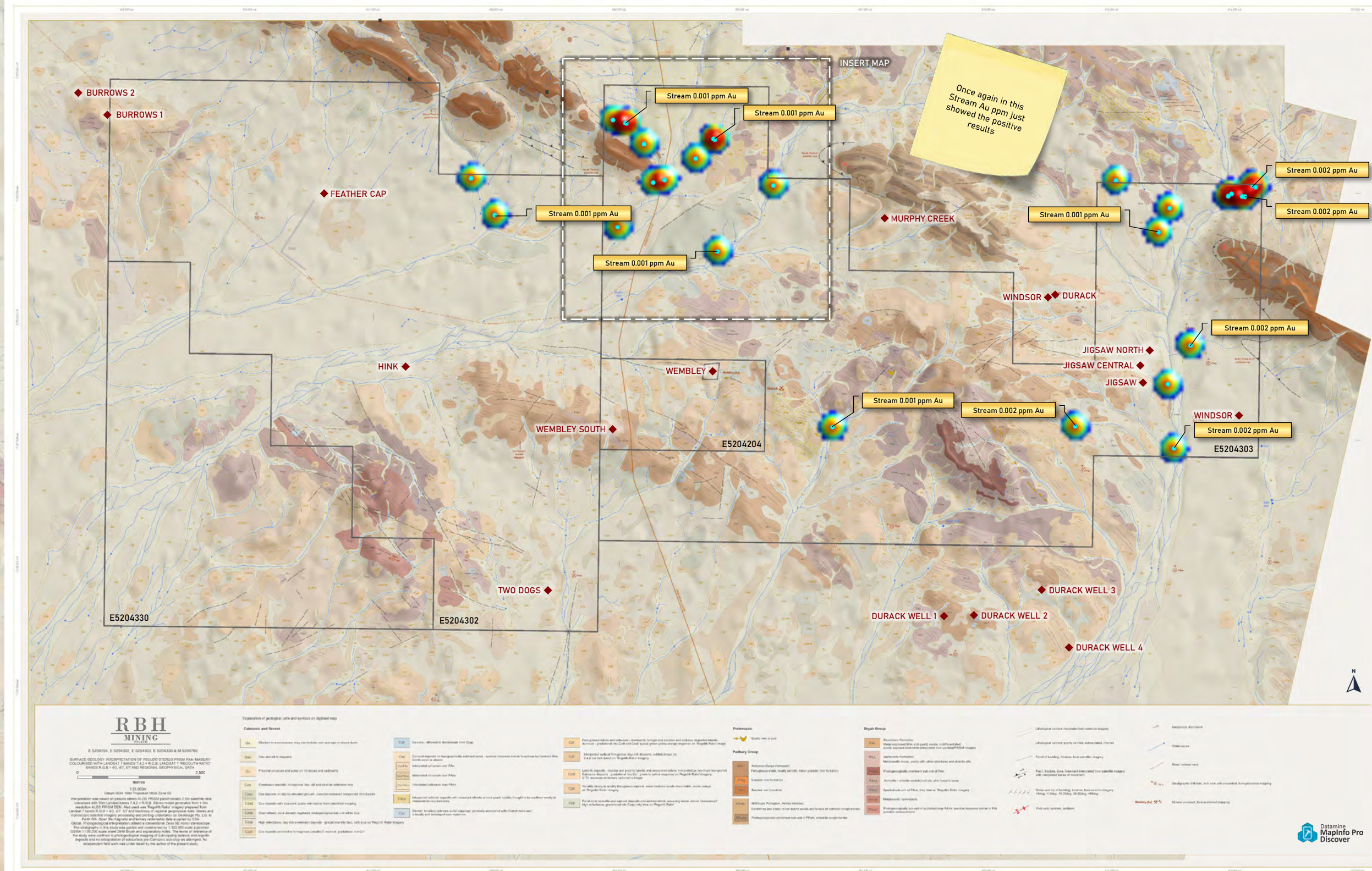
Heatmap of the Stream sample locations showing Au-ppm



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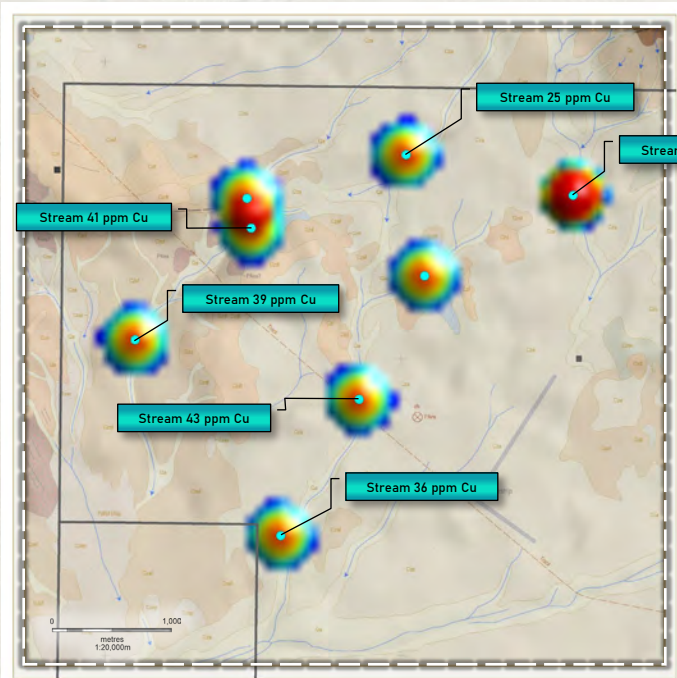
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Stream Sample Locations

- Stream (10) with $0 > 43\text{ppm Cu}$



Area of Interest
INSERT MAP



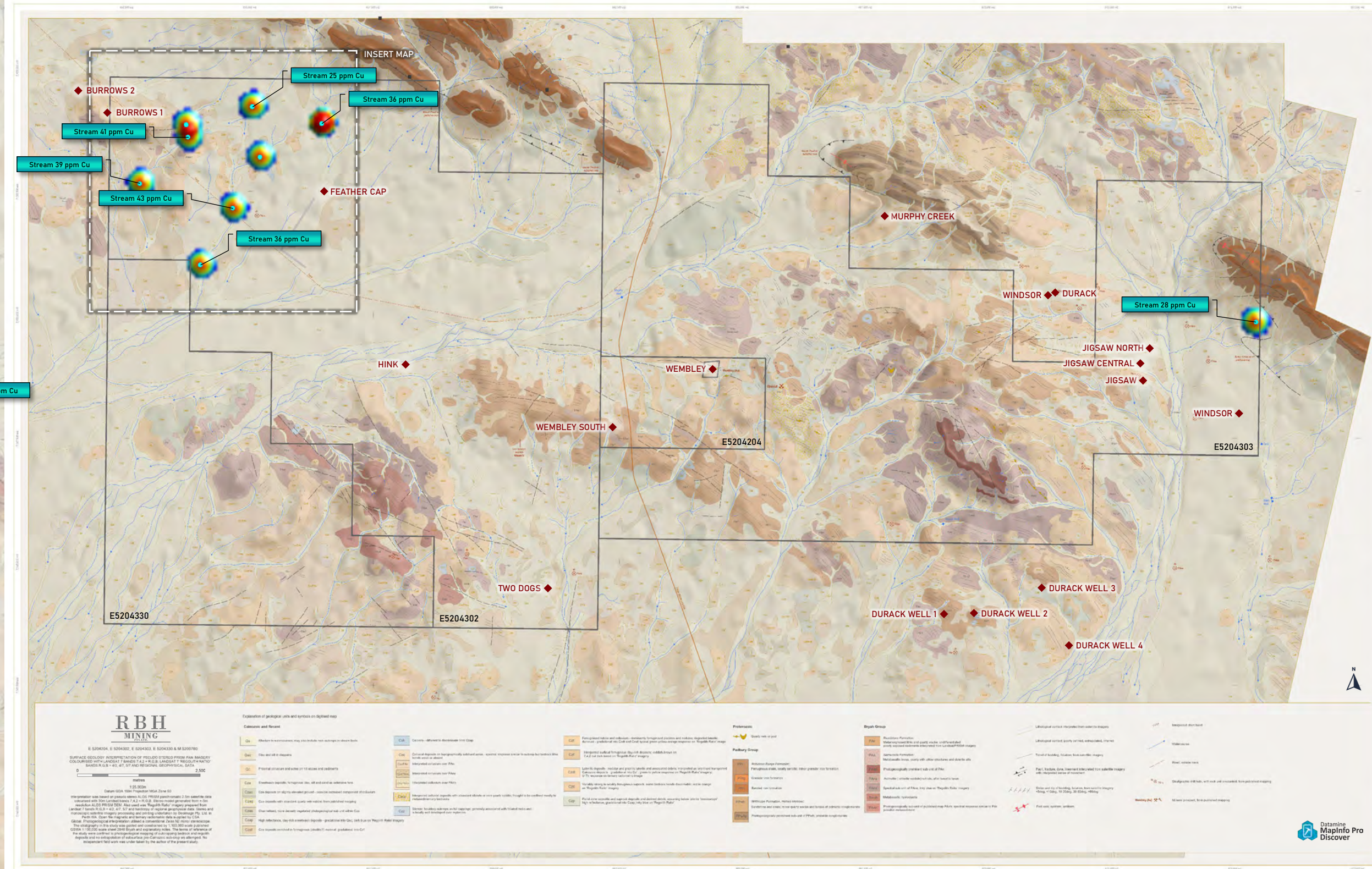
Heatmap of the Stream sample locations showing Cu-ppm



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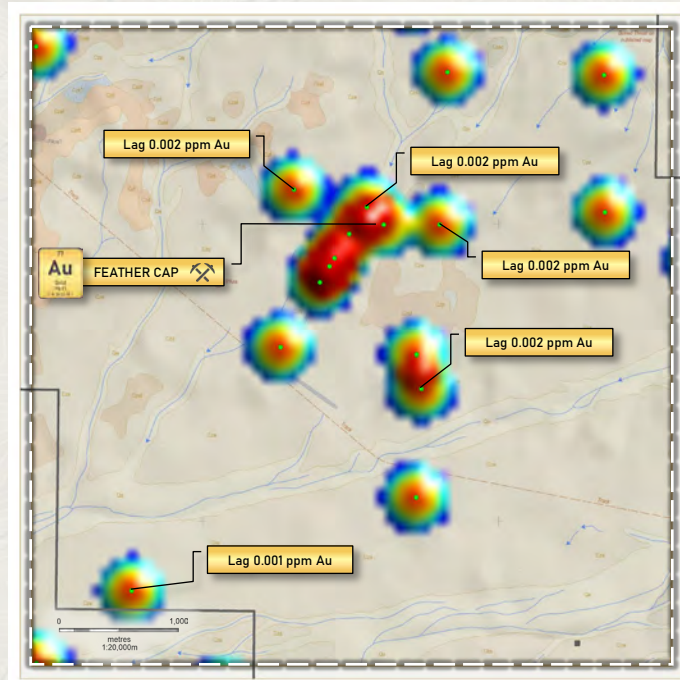
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Lag Sample Locations Gold (Au-ppm)

● Lag (38) with 0.001 > 0.002ppm Au



Feather Cap Prospect
INSERT MAP



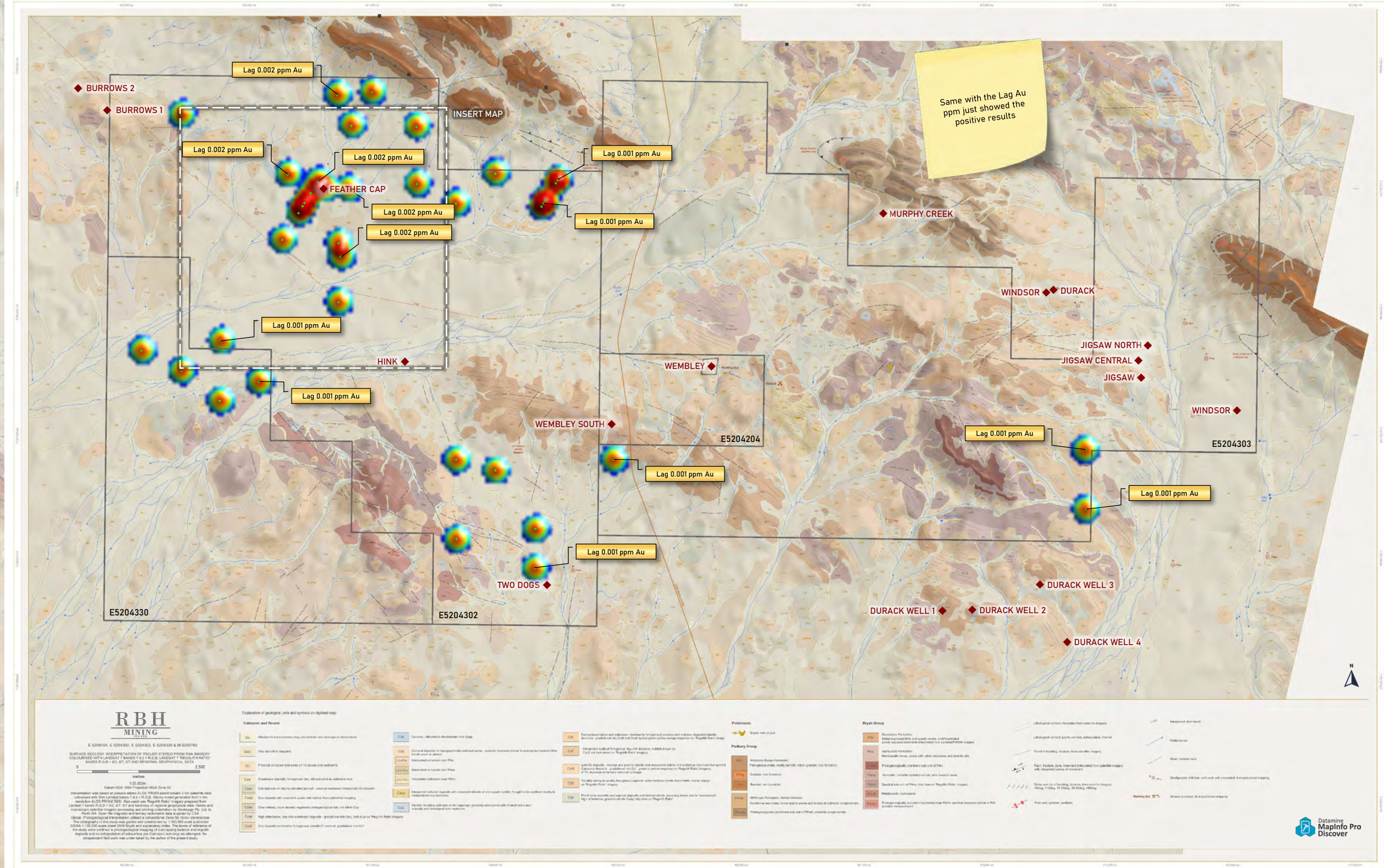
Heatmap of the Lag sample locations showing Au-ppm



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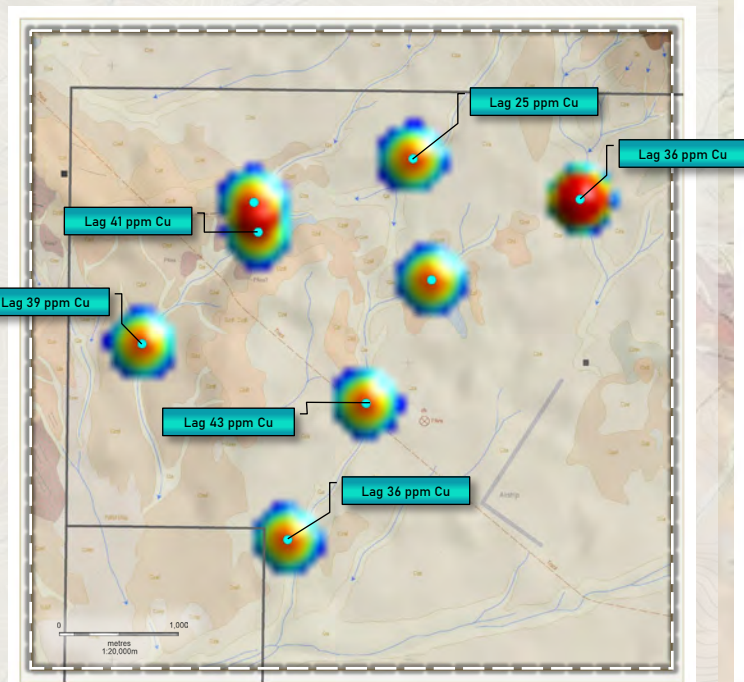


Same with the Lag Au ppm just showed the positive results

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Lag Sample Locations Copper (Cu-ppm)



Feather Cap Prospect
INSERT MAP



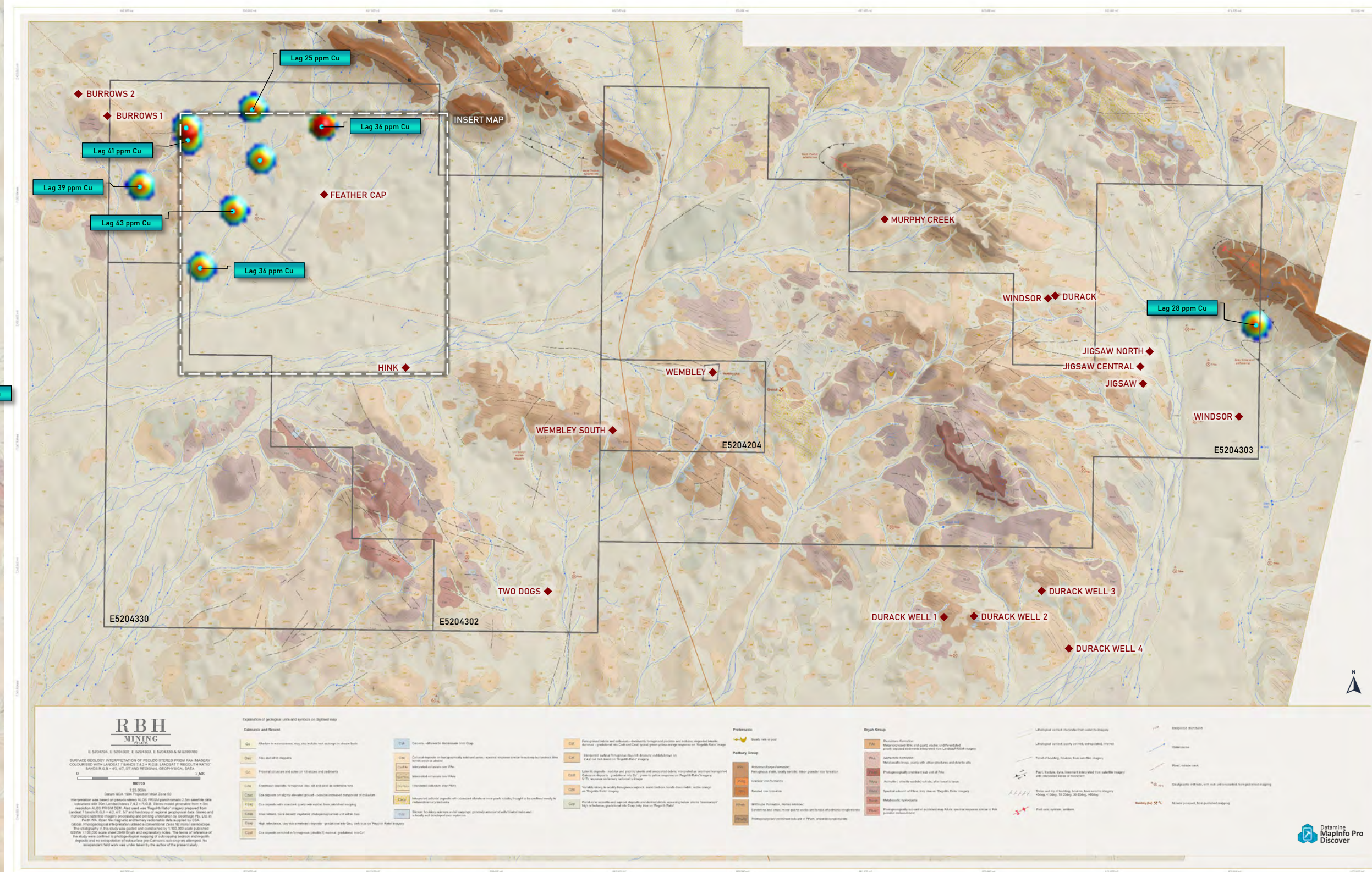
Heatmap of the Stream sample locations showing Cu-ppm



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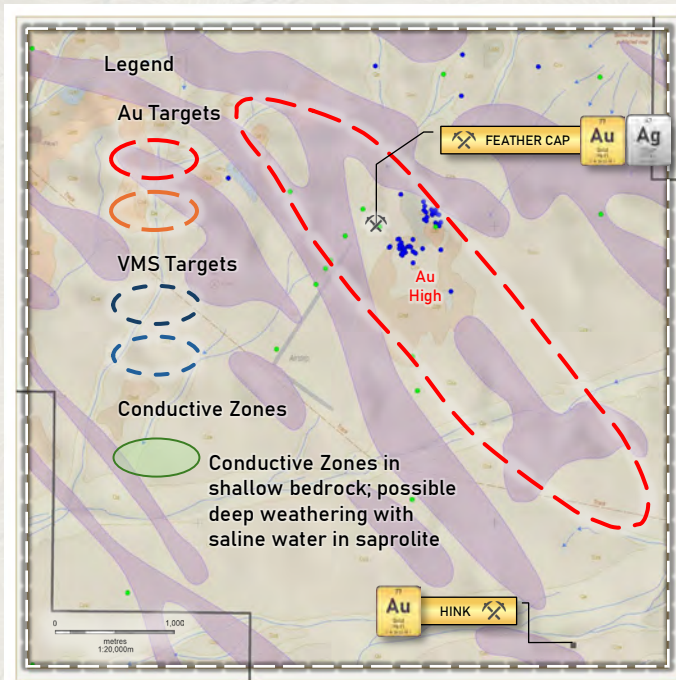


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 Area of Interest
Geo Chemistry

- Stream
- Lag
- Rock
- Soil



Feather Cap Prospect
INSERT MAP

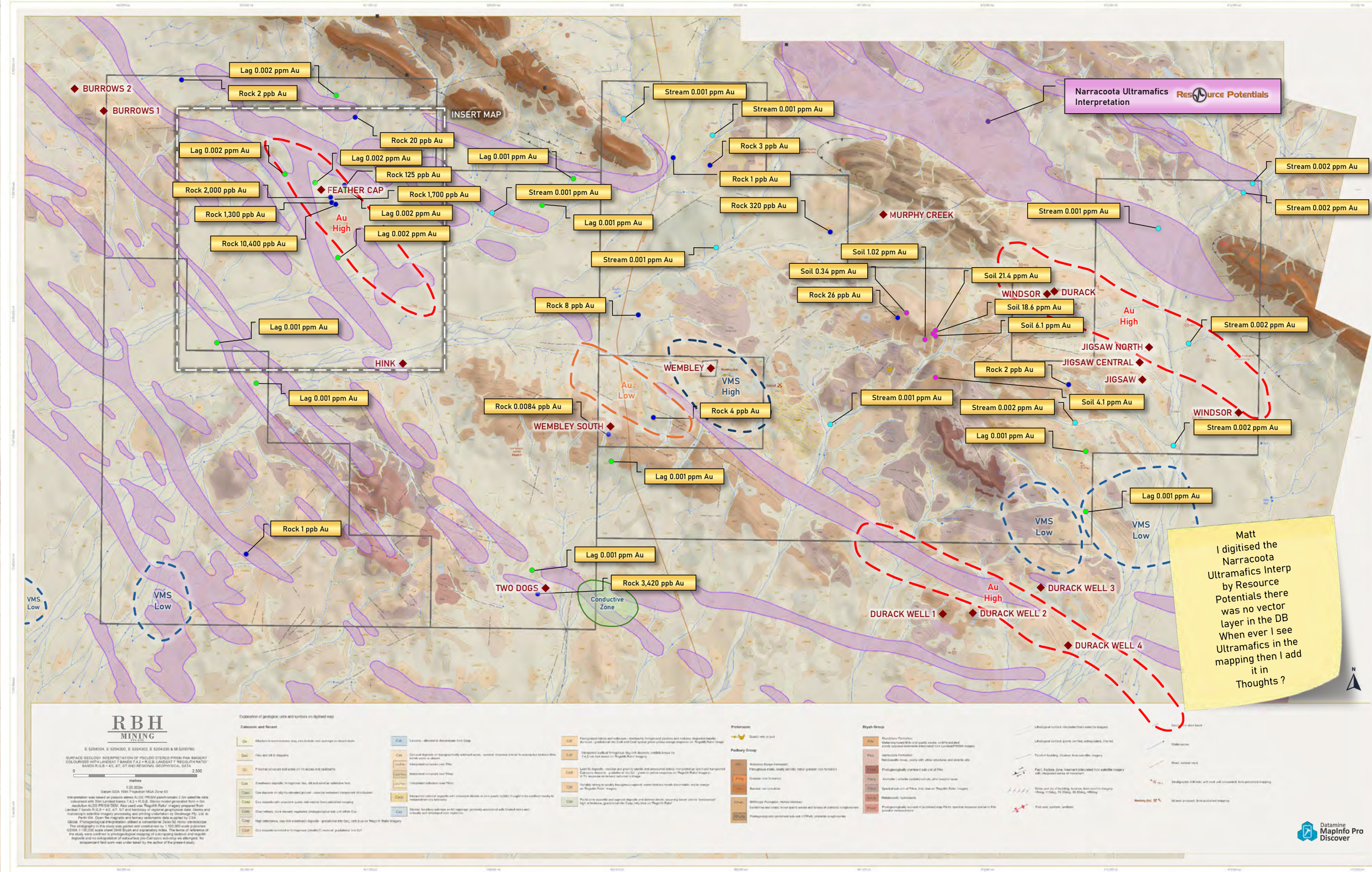
Areas of Interest map showing Au highs in the Geo Chemistry Lags, Rock, Stream & Soils, also Resource potentials target areas plus, the Ultramafic Interp layer



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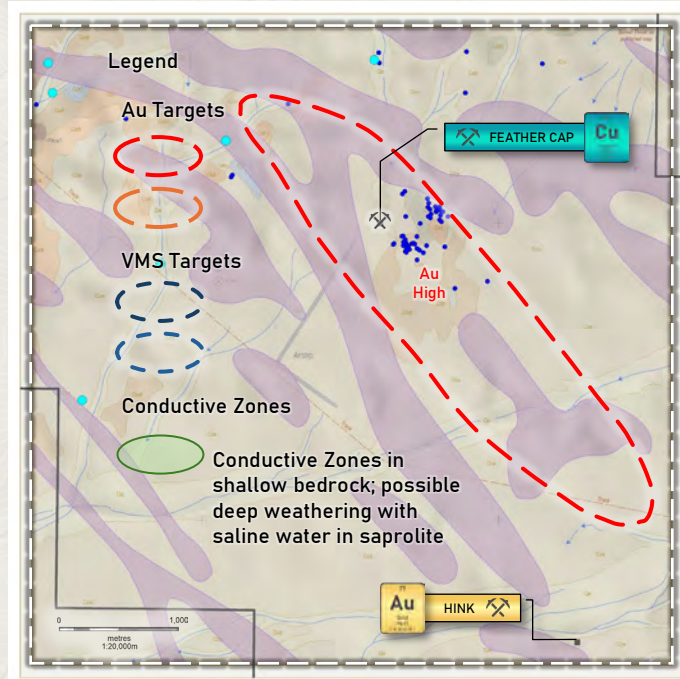


Matt
I digitised the
Narracoota
Ultramafics Interp
by Resource
Potentials there
was no vector
layer in the DB
When ever I see
Ultramafics in the
mapping then I add
it in
Thoughts ?

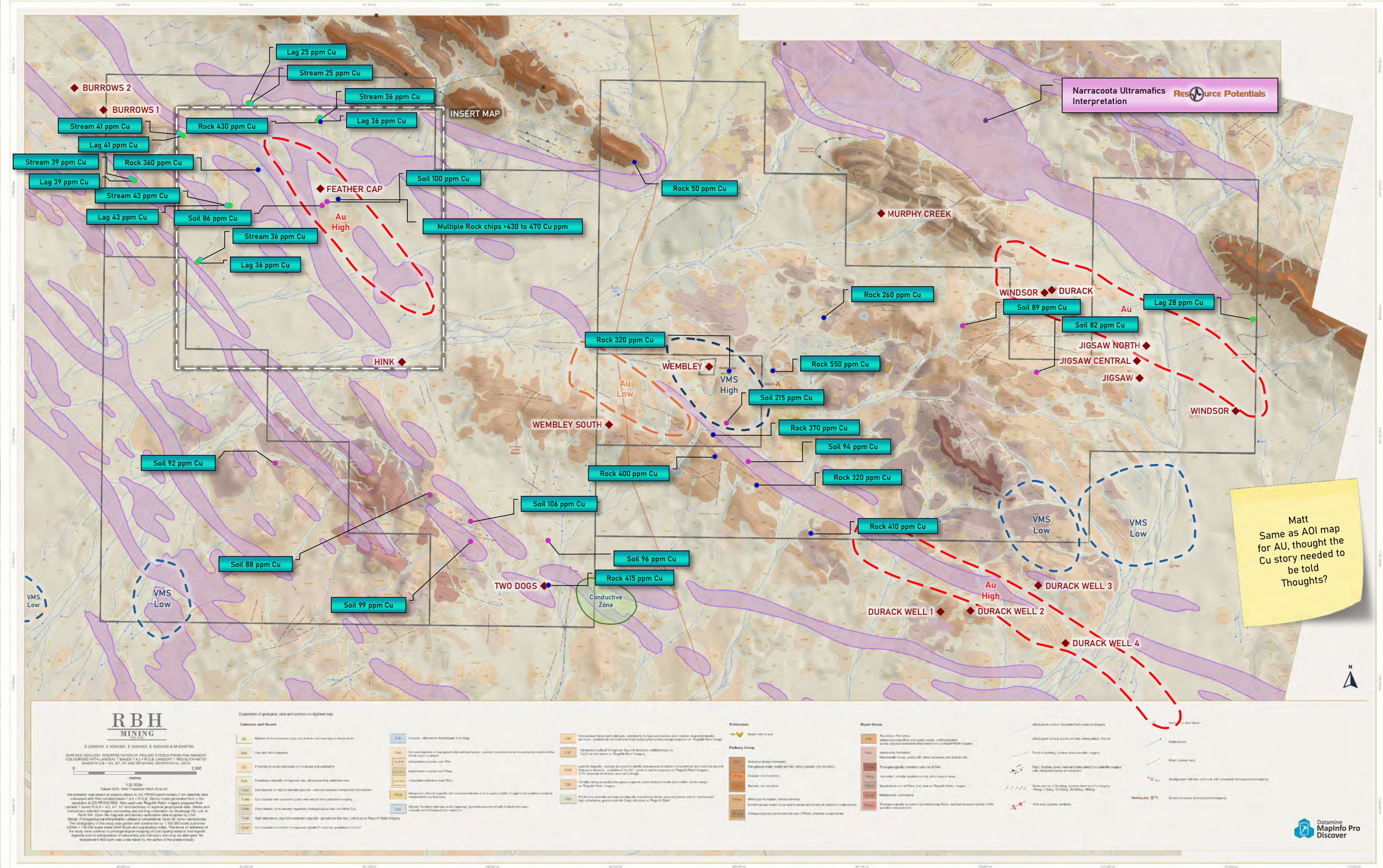
25k Geological Map Series Feather Cap Project

Cu Area of Interest Geo Chemistry

- Stream
- Lag
- Rock
- Soil



Areas of Interest map showing Cu highs in the Geo Chemistry Lags, Rock, Stream & Soils, also Resource potentials target areas plus, the Ultramafic Interp layer

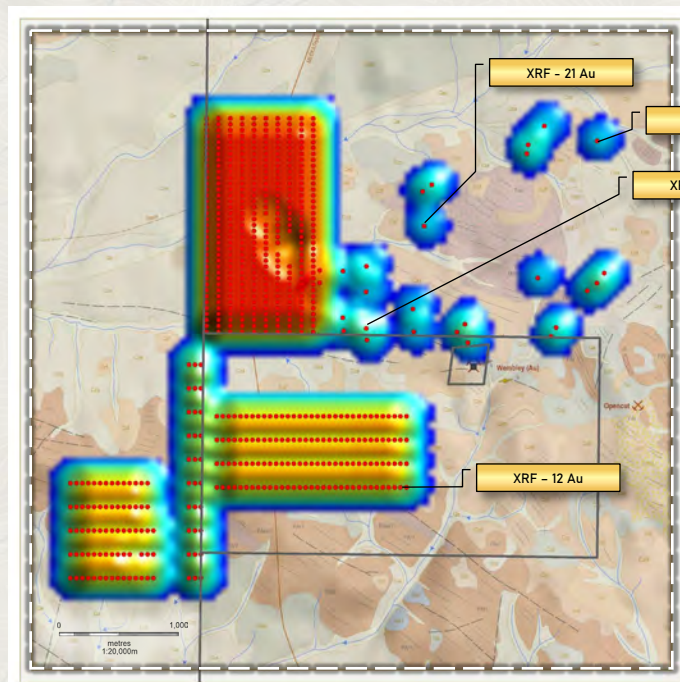


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Feather Cap Project



XRF Sample Locations (Au-ppm)

- XRF (624) with 1.9 > 21 Au



Wembley Prospect
INSERT MAP



Heatmap of the XRF sample locations showing Au-ppm



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