



Nevada Division of Minerals – Open Data Website

Presented by:

Garrett Wake, Nevada Division
of Minerals

Created by:

Lucia Patterson MS CPG,
Nevada Division of Minerals



Overview

- (1) Accessing and overview of NDOM Open Data Site
- (2) Featured apps
- (3) Other resources
- (4) Questions

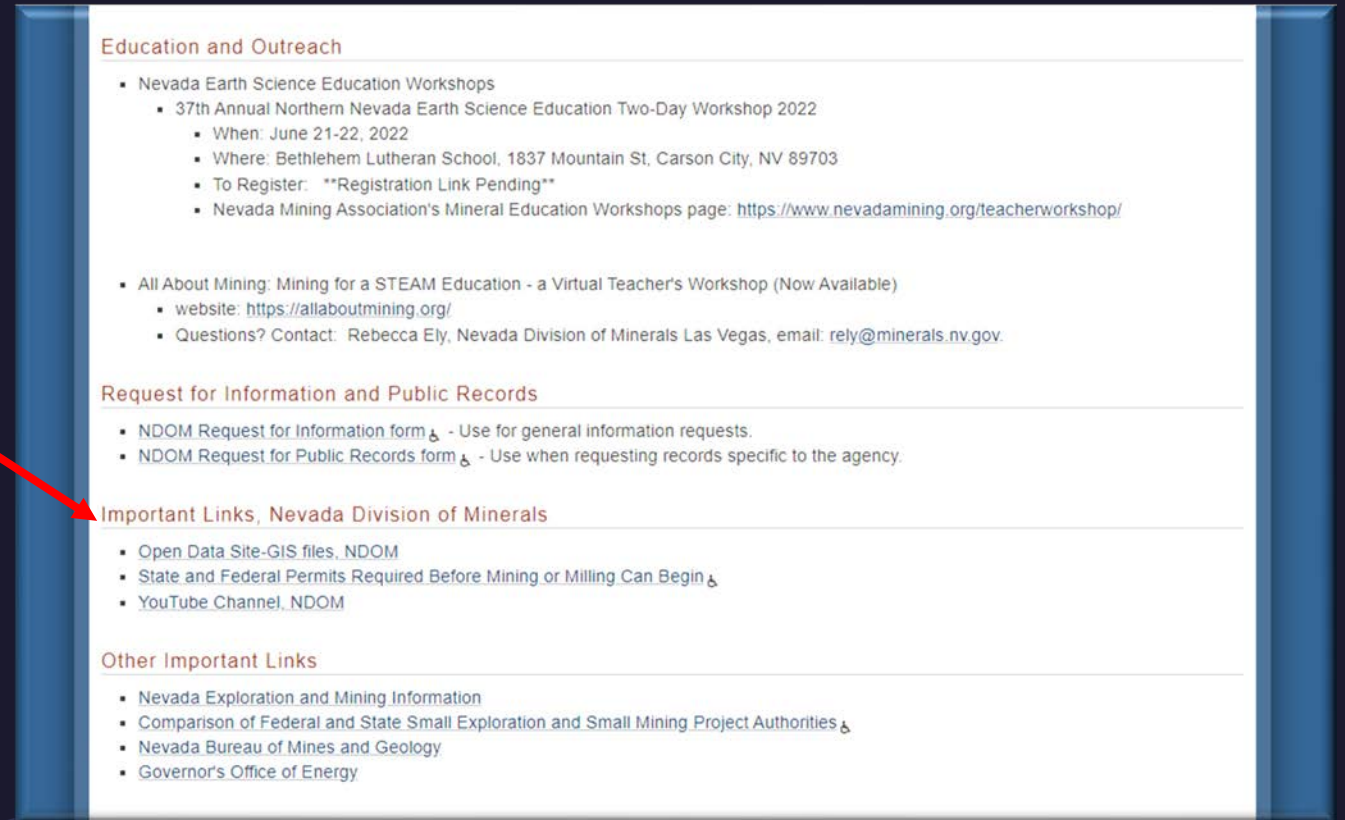




Nevada Division of Minerals (NDOM)
Open Data Site

The Nevada Division of Minerals Open Data Site

- To access, visit minerals.nv.gov
- Scroll down near bottom and click “Open Data Site – GIS Files, NDOM”



Education and Outreach

- Nevada Earth Science Education Workshops
 - 37th Annual Northern Nevada Earth Science Education Two-Day Workshop 2022
 - When: June 21-22, 2022
 - Where: Bethlehem Lutheran School, 1837 Mountain St, Carson City, NV 89703
 - To Register: **Registration Link Pending**
 - Nevada Mining Association's Mineral Education Workshops page: <https://www.nevadamining.org/teacherworkshop/>
- All About Mining: Mining for a STEAM Education - a Virtual Teacher's Workshop (Now Available)
 - website: <https://allaboutmining.org/>
 - Questions? Contact: Rebecca Ely, Nevada Division of Minerals Las Vegas, email: rely@minerals.nv.gov.

Request for Information and Public Records

- [NDOM Request for Information form](#) - Use for general information requests.
- [NDOM Request for Public Records form](#) - Use when requesting records specific to the agency.

Important Links, Nevada Division of Minerals

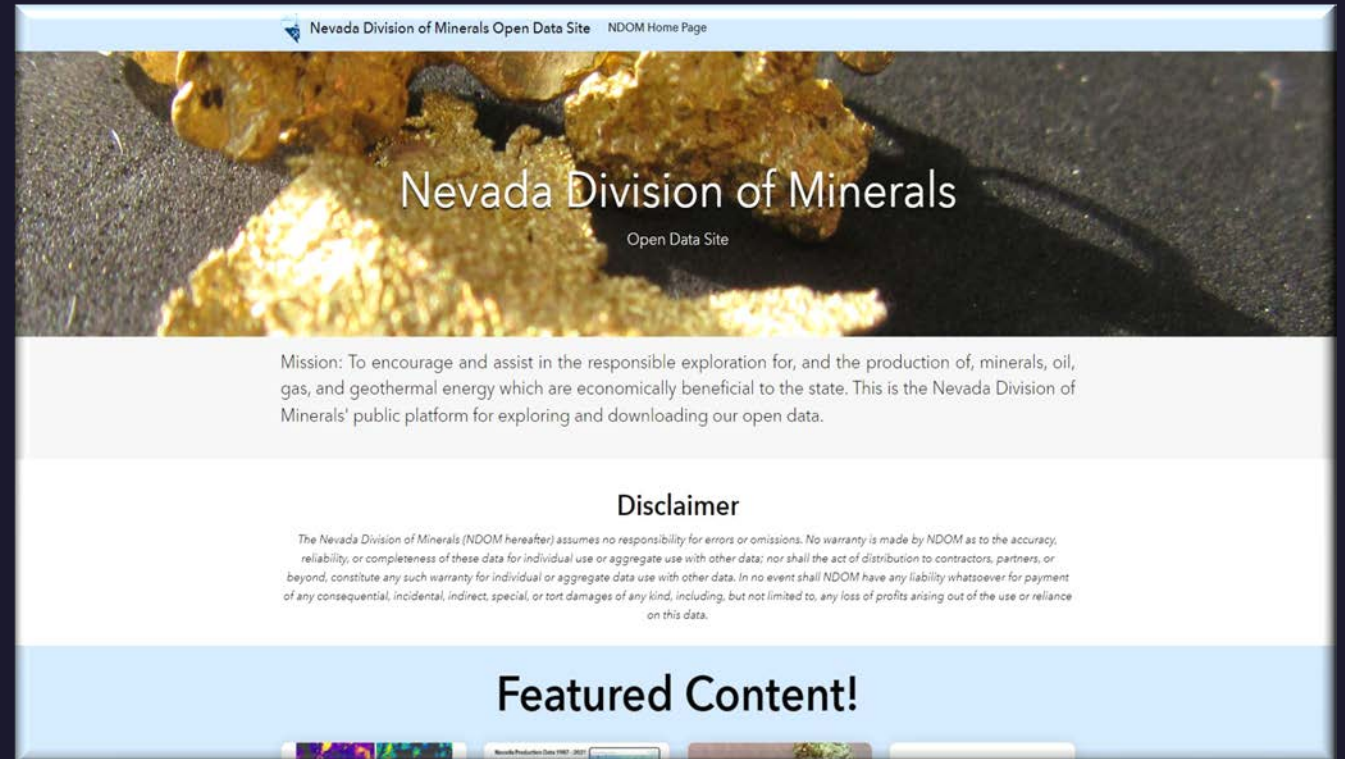
- [Open Data Site-GIS files, NDOM](#)
- [State and Federal Permits Required Before Mining or Milling Can Begin](#)
- [YouTube Channel, NDOM](#)

Other Important Links

- [Nevada Exploration and Mining Information](#)
- [Comparison of Federal and State Small Exploration and Small Mining Project Authorities](#)
- [Nevada Bureau of Mines and Geology](#)
- [Governor's Office of Energy](#)

The Nevada Division of Minerals Open Data Site

- Interactive data including:
 - Active mining claims in Nevada (inc. historic claims)
 - Inferred Lithium placer claims in Nevada
 - Nevada Notices and Plans of Operation (current and historic)
 - Current and past mineral producers, commodities and occurrences, including critical minerals
 - Information on public land withdrawals and other issues
 - Mining production and wage statistics
 - Education and outreach information (videos, activities, etc.)



Nevada Division of Minerals Open Data Site NDOM Home Page

Nevada Division of Minerals

Open Data Site

Mission: To encourage and assist in the responsible exploration for, and the production of, minerals, oil, gas, and geothermal energy which are economically beneficial to the state. This is the Nevada Division of Minerals' public platform for exploring and downloading our open data.

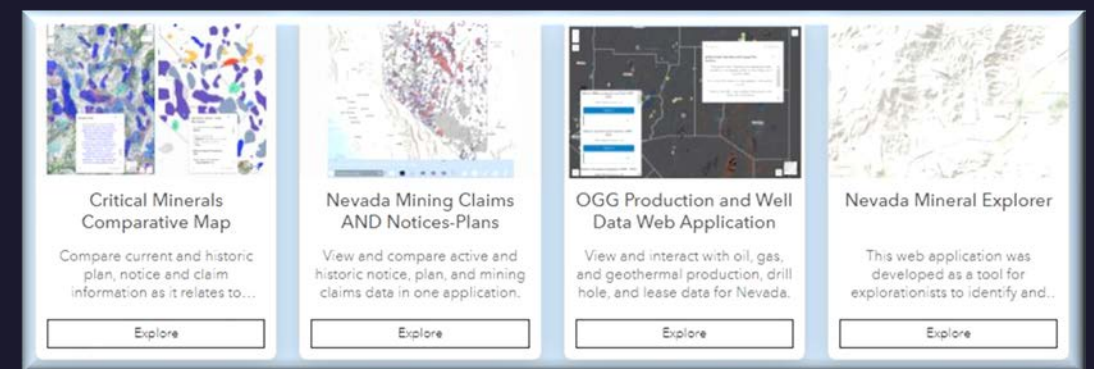
Disclaimer

The Nevada Division of Minerals (NDOM hereafter) assumes no responsibility for errors or omissions. No warranty is made by NDOM as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data; nor shall the act of distribution to contractors, partners, or beyond, constitute any such warranty for individual or aggregate data use with other data. In no event shall NDOM have any liability whatsoever for payment of any consequential, incidental, indirect, special, or tort damages of any kind, including, but not limited to, any loss of profits arising out of the use or reliance on this data.

Featured Content!



- C.H.I.M.E. Claims Habitation Interactive...**
This map is a spatial representation of claims density and fees paid through time, p...
[Explore](#)
- The Nevada Mineral Production Experience!!**
View and filter annual production data for Nevada.
[Explore](#)
- Historic Mineral Production in Nevada**
To spatially display historic mineral production in Nevada.
[Explore](#)
- Nevada County Claims Summary Dashboard**
View active and historic claims for Nevada on a per-county basis.
[Explore](#)

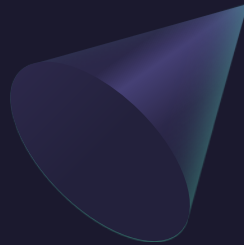


- Critical Minerals Comparative Map**
Compare current and historic plan, notice and claim information as it relates to...
[Explore](#)
- Nevada Mining Claims AND Notices-Plans**
View and compare active and historic notice, plan, and mining claims data in one application.
[Explore](#)
- OGG Production and Well Data Web Application**
View and interact with oil, gas, and geothermal production, drill hole, and lease data for Nevada.
[Explore](#)
- Nevada Mineral Explorer**
This web application was developed as a tool for explorationists to identify and...
[Explore](#)

The Nevada Division of Minerals Open Data Site

Featured Content:

- CHIME – Claims Habitation Interactive Map Experience
- Nevada Mineral Production Experience
- Historic Mineral Production in NV
- Nevada County Claims Summary Dashboard
- Critical Minerals Comparative Map
- Nevada Mining Claims and Notices-Plans
- OGG Production and Well Data Web App
- Nevada Mineral Explorer (NBMG product)
- Mineral Entry Conflicts Web Map



Nevada Division of Minerals Open Data Site NDOM Home Page

Featured Content!



C.H.I.M.E. Claims Habitation Interactive...

This map is a spatial representation of claims density and fees paid through time, p...

Explore



The Nevada Mineral Production Experience!!

View and filter annual production data for Nevada.

Explore



Historic Mineral Production in Nevada

To spatially display historic mineral production in Nevada.


Explore



Nevada County Claims Summary Dashboard

View active and historic claims for Nevada on a per-county basis.

Explore



Critical Minerals Comparative Map

Compare current and historic plan, notice and claim information as it relates to...

Explore



Nevada Mining Claims AND Notices-Plans

View and compare active and historic notice, plan, and mining claims data in one application.

Explore



OGG Production and Well Data Web Application

View and interact with oil, gas, and geothermal production, drill hole, and lease data for Nevada.

Explore



Nevada Mineral Explorer

This web application was developed as a tool for explorationists to identify and...

Explore



Lands with, or Having the Potential for, Mineral Entry Conflicts

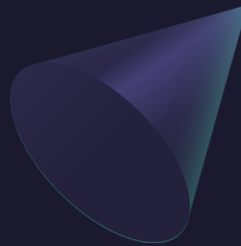
Analyze impacts from existing or proposed land withdrawals with respect mineral production, occurrence, and potential, along with BLM plans, notices, and mining claim...

Explore

The Nevada Division of Minerals Open Data Site

Featured Content:

- [CHIME – Claims Habitation Interactive Map Experience](#)
- [Nevada Mineral Production Experience](#)
- [Historic Mineral Production in NV](#)
- [Nevada County Claims Summary Dashboard](#)
- [Critical Minerals Comparative Map](#)
- [Nevada Mining Claims and Notices-Plans](#)
- [OGG Production and Well Data Web App](#)
- [Nevada Mineral Explorer \(NBMG product\)](#)
- [Mineral Entry Conflicts Web Map](#)



Nevada Division of Minerals Open Data Site NDOM Home Page

Featured Content!

- C.H.I.M.E. Claims Habitation Interactive...**
This map is a spatial representation of claims density and fees paid through time, p...
[Explore](#)
- The Nevada Mineral Production Experience!!**
View and filter annual production data for Nevada.
[Explore](#)
- Historic Mineral Production in Nevada**
To spatially display historic mineral production in Nevada.
[Explore](#)
- Nevada County Claims Summary Dashboard**
View active and historic claims for Nevada on a per-county basis.
[Explore](#)
- Critical Minerals Comparative Map**
Compare current and historic plan, notice and claim information as it relates to...
[Explore](#)
- Nevada Mining Claims AND Notices-Plans**
View and compare active and historic notice, plan, and mining claims data in one application.
[Explore](#)
- OGG Production and Well Data Web Application**
View and interact with oil, gas, and geothermal production, drill hole, and lease data for Nevada.
[Explore](#)
- Nevada Mineral Explorer**
This web application was developed as a tool for explorationists to identify and...
[Explore](#)
- Lands with, or Having the Potential for, Mineral Entry Conflicts**
Analyze impacts from existing or proposed land withdrawals with respect mineral production, occurrence, and potential, along with BLM plans, notices, and mining claim...
[Explore](#)

The Nevada Division of Minerals Open Data Site

- Choose which application best fits the data you're looking for
 - Many of these apps contain overlapping data sets
 - Apps configured to have the appropriate datasets you're most likely interested in
 - If you don't see what you need in the first app, try another app
 - E.g. If you're interested in NOI and POO information, click on that app
 - You will still be able to access mining claim filing data, land status data, and other relevant data within this app

The screenshot displays the 'Resources' and 'Pages' sections of the Nevada Division of Minerals Open Data Site. The 'Resources' section includes four items: 'Data Download Gallery' (with a download icon), 'Open Data Site Help Documentation' (with a question mark icon), 'CLAIMS' (with a map icon), and a QR code linking to a LinkedIn profile. The 'Pages' section includes eight items: 'Mining Claims' (with a pickaxe icon), 'Lithium Claims' (with a lithium map icon), 'Plan, Notice, & Mining Claim Data' (with a magnifying glass icon), 'Claims Commodities, Occurrences &...' (with a cart icon), 'Nevada Public Land Issues' (with a mountain icon), 'Mining in Nevada' (with a map icon), 'Oil Gas And Geothermal Production' (with a power icon), and 'Education And Outreach' (with a presentation icon). Each item has a brief description and an 'Explore' button.

Resources

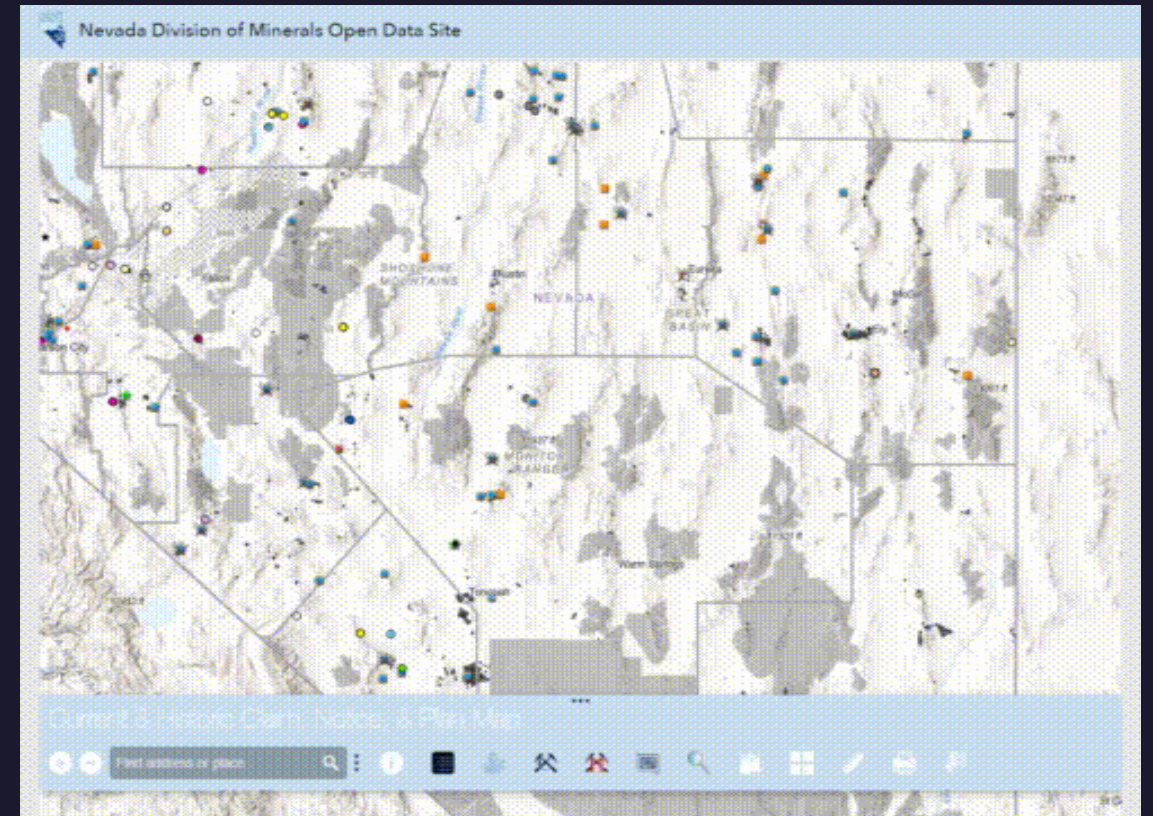
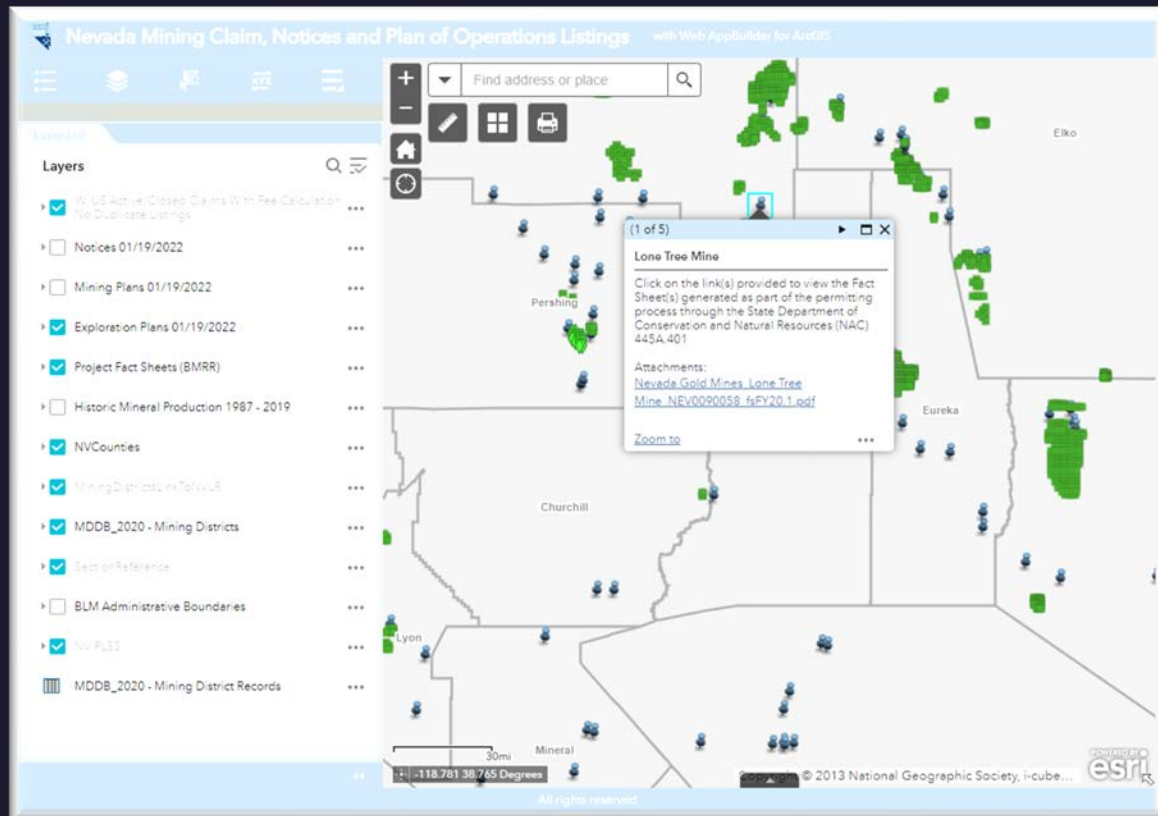
- Data Download Gallery**
Download view/datasets used within this website.
- Open Data Site Help Documentation**
Help documentation with demos.
- CLAIMS**
This is a platform for exploring and downloading Mining Claims GIS data. Unpatented mining...
- Lucia Peterson MS CPD**
All data and website updates are posted to my LinkedIn account. Click on the image above to be redirected to my profile.

Pages

- Mining Claims**
Active mining claims and other tools to assist in land research.
Explore
- Lithium Claims**
Inferred Li placer claims & DMRE data.
Explore
- Plan, Notice, & Mining Claim Data**
Historic and current plan, notice, and mining claim data.
Explore
- Claims Commodities, Occurrences &...**
Nevada commodities, occurrences & production data.
Explore
- Nevada Public Land Issues**
Nevada Public Land Issues and withdrawal statistics.
Explore
- Mining in Nevada**
Mining impacts in Nevada, employment and claims per county, disturbance, and Net...
Explore
- Oil Gas And Geothermal Production**
Oil, Gas, and geothermal drilling, lease and production data for Nevada.
Explore
- Education And Outreach**
Geology-based educational videos, activities, story maps, and tours for all ages.
Explore

The Nevada Division of Minerals Open Data Site

- Some apps have more than one way to visualize data
 - The NOI and POO app has two different windows which enable you to visualize the data in different ways
 - The window on the left is the traditional “basic” web application where you may add or remove layer data
 - The window on the right uses a comparative/contrasting feature



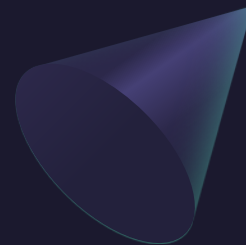
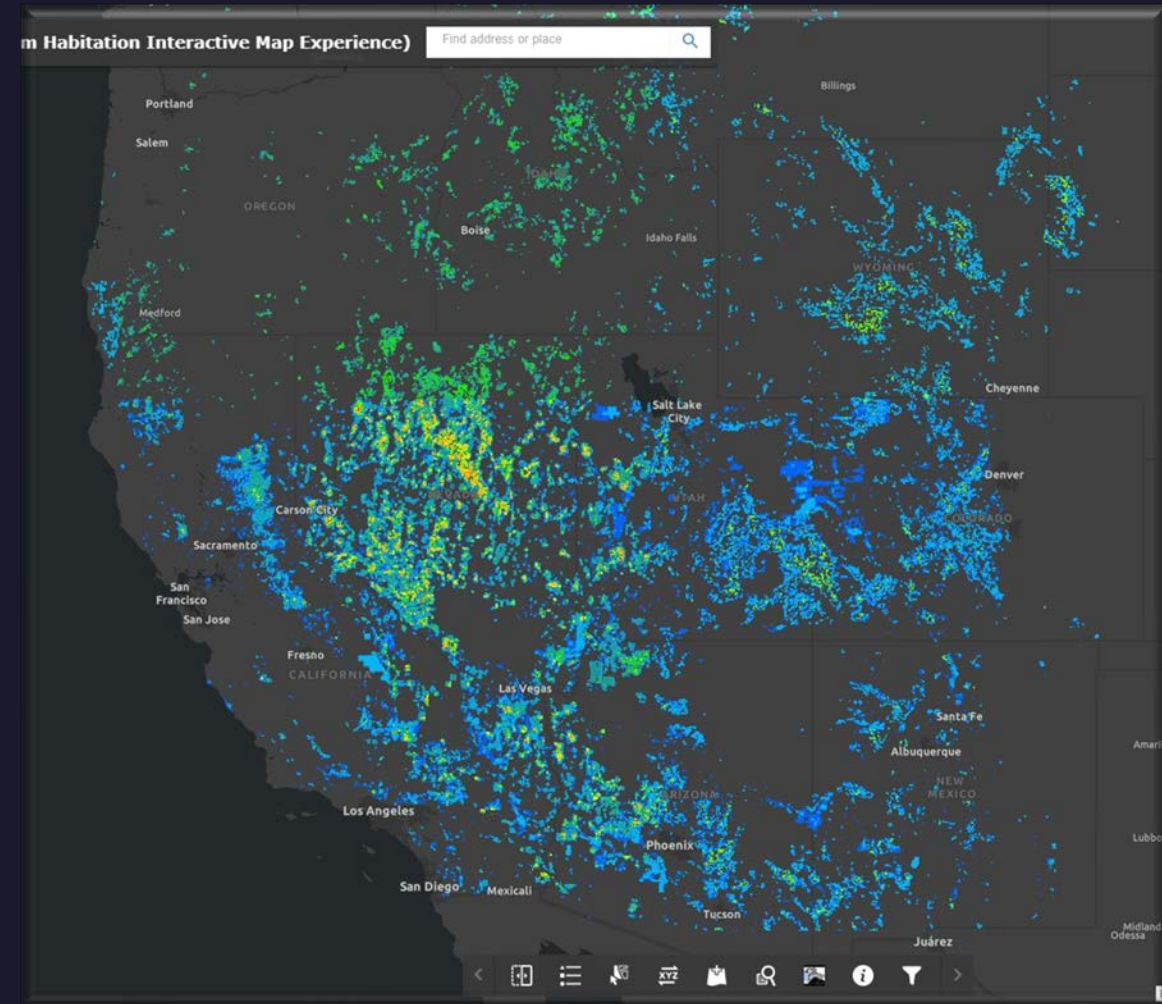


Featured App: C.H.I.M.E. (Claims Habitation
Interactive Map Experience)

The Nevada Division of Minerals Open Data Site

- **CHIME App**

- Looking at spatially referenced data throughout the western U.S.
 - Mining claims, NOI, POO, fees assessed per section, USGS mineral occurrences (MRDS)
 - Quickly see where there are active mining claims per section
- Visually represented filing trends via annual assessment fees
 - How much money was spent on claim filings per section historically

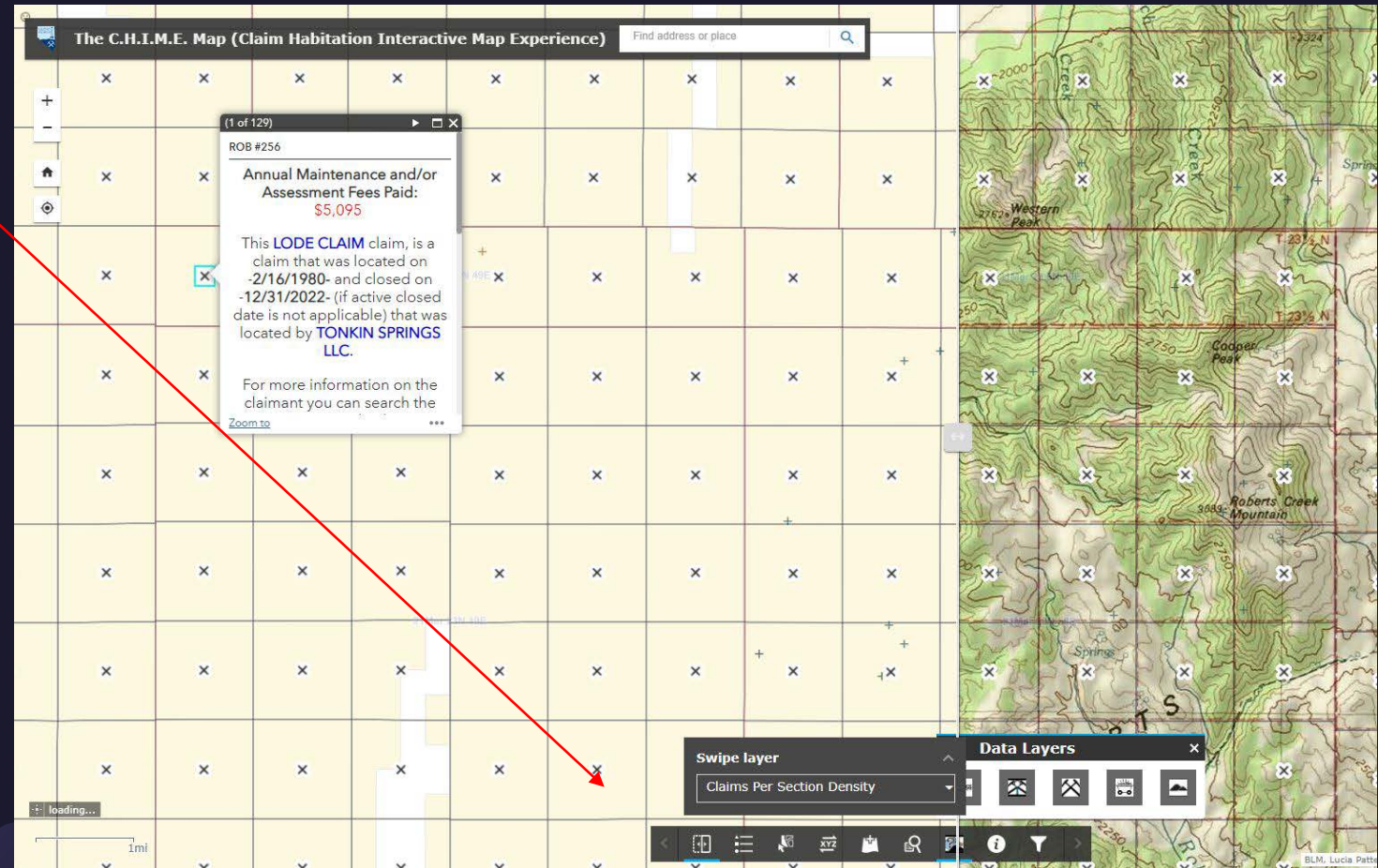


The Nevada Division of Minerals Open Data Site

- **CHIME App (cont.)**

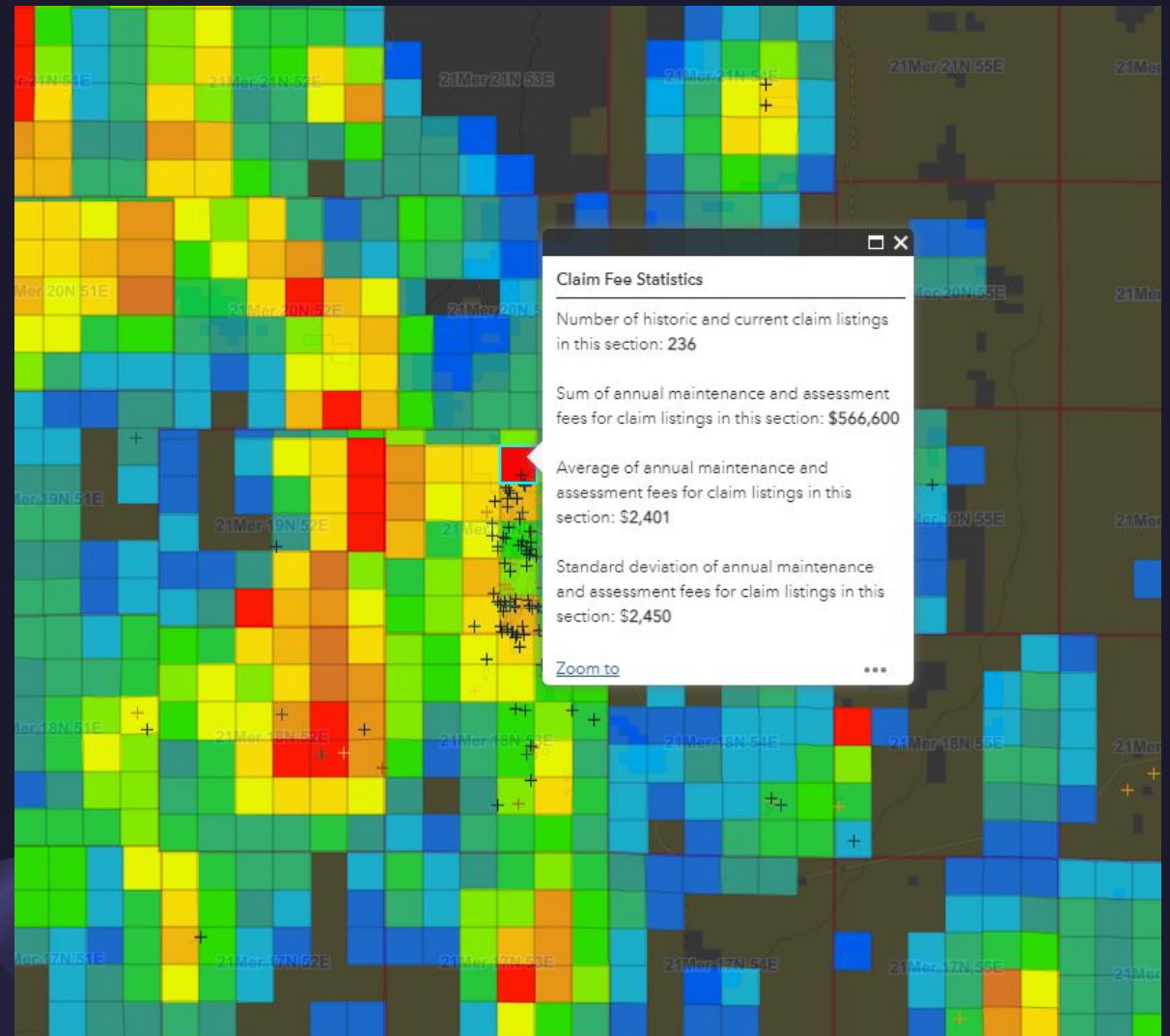
- **App configurations on bottom toolbar**

- **Swipe feature to compare/contrast**
- **View legend**
- **On/off selectable layers**
- **Convert coordinates**
- **Add your own data to the map**
- **Query data**
- **On/off data layers**
- **About (demo video & documentation)**
- **Filter data by MRDS commodity**



The Nevada Division of Minerals Open Data Site

- **CHIME App (cont.)**
 - **Interactive datasets**
 - Each data layer is selectable and presents information when clicked
 - May need to “cycle” through pages to find overlapping data
 - **Configurable workspace**
 - Show only the data that is relevant to you
 - Quickly and easily add or remove data from the workspace





Featured App: Nevada Mineral Production
Experience

The Nevada Division of Minerals Open Data Site

- **Mineral Production Experience App**
 - **Current and historic mineral production within Nevada filterable by year or commodity**
 - **Map shows all major mines within filtered years, their commodity and production**

Nevada Production Data 1987 - 2021

By year → Select Year to Display Production Totals:

By commodity →

[Click Here to view Major Mine Publications](#)

< 1 of 44 >	
Year	2021
Silver (oz)	6,218,814
Gold (oz)	4,502,365
Copper (Lbs)	163,732,694
Molybdenum (Lbs)	240,000
Barite Shipped (Tons)	283,779
Clay (Tons)	1,259,728
Diatomite (Tons)	311,700
Dolomite (Tons)	339,175
Gypsum (Tons)	2,538,598
Limestone (Tons)	2,941,577
Lithium Carbonate (Tons)	12,693,382
Perlite (Tons)	3,728
Quartzite (Tons)	5,300
Salt (Tons)	16,000
Silica Sand (Tons)	1,000,000
Oil (Barrels)	223,233
Geothermal K MWh	3,972

Search Sort By Operation ▾

- 327 Apex Mine - Gold
- 327 Apex Mine - Silver
- Ach-dayton Joint Venture - Mercury
- Adams Claim Gypsum Mine - Gypsum
- Adams Claim Gypsum Mine - Limestone
- Adelaide Crown Mine - Gold
- Adelaide Crown Mine - Silver
- Alligator Ridge Mine - Gold
- Alligator Ridge Mine - Silver
- Alligator Ridge Mine - Mercury
- Amargosa Clay Operation - Bentonite
- Amargosa Clay Operation - Sepiolite
- Amargosa Clay Operation - Saponite
- Amy Mine - Gold
- Ana Mine - Copper
- Ana Mine - Molybdenum
- Apex Plant - Limestone
- Apex Quarry And Plant - Dolomite

100 km / 60 mi

California State Parks, Esri, HERE, Garmin, Mapbox, NOAA, USGS, Bureau of Land Management, ... Powered by Esri

The Nevada Division of Minerals Open Data Site

- **Mineral Production Experience App**
 - Current and historic mineral production within Nevada filterable by year or commodity
 - Map shows all major mines within filtered years, their commodity and production

Nevada Production Data 1987 - 2021

Select Year to Display Production Totals: **Gold -> 2021 only**

[Click Here to view Major Mine Publications](#)

Year	2021
Silver (oz)	6,218,814
Gold (oz)	4,502,365
Copper (Lbs)	163,732,694
Molybdenum (Lbs)	240,000
Barite Shipped (Tons)	283,779
Clay (Tons)	1,259,728
Diatomite (Tons)	311,700
Dolomite (Tons)	339,175
Gypsum (Tons)	2,538,598
Limestone (Tons)	2,941,577
Lithium Carbonate (Tons)	12,693,382
Perlite (Tons)	3,728
Quartzite (Tons)	5,300
Salt (Tons)	16,000
Silica Sand (Tons)	1,000,000
Oil (Barrels)	223,233
Geothermal K MWh	3,972

Production Filters 2

- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

Search

- Carlin Ops. - Gold
- Coeur Rochester M
- Cortez Hills Mine -
- Cortez Pipeline Mi
- Denton-Rawhide M
- Florida Canyon Mi
- Gold Bar Mine (Atl
- Goldrush - Gold
- Hycroft Mine - Gold
- Isabella Pearl Mine - Gold
- Jerritt Canyon Mine - Gold
- Lone Tree Complex - Gold
- Long Canyon Mine - Gold
- Marigold Mine - Gold
- Meikle Mine - Gold
- Mineral Ridge Mine - Gold
- Pan Mine - Gold
- Phoenix Mine - Gold

Map

Selectable Points

Operation Name: Carlin Ops.

Operation Name: **Carlin Ops.**

Historic production of **Gold** from this site is listed below. Gold values are in **Ounces**.

Historic Gold Production - Ounces

Total Historic Production: **41,775,232.00 Ounces**

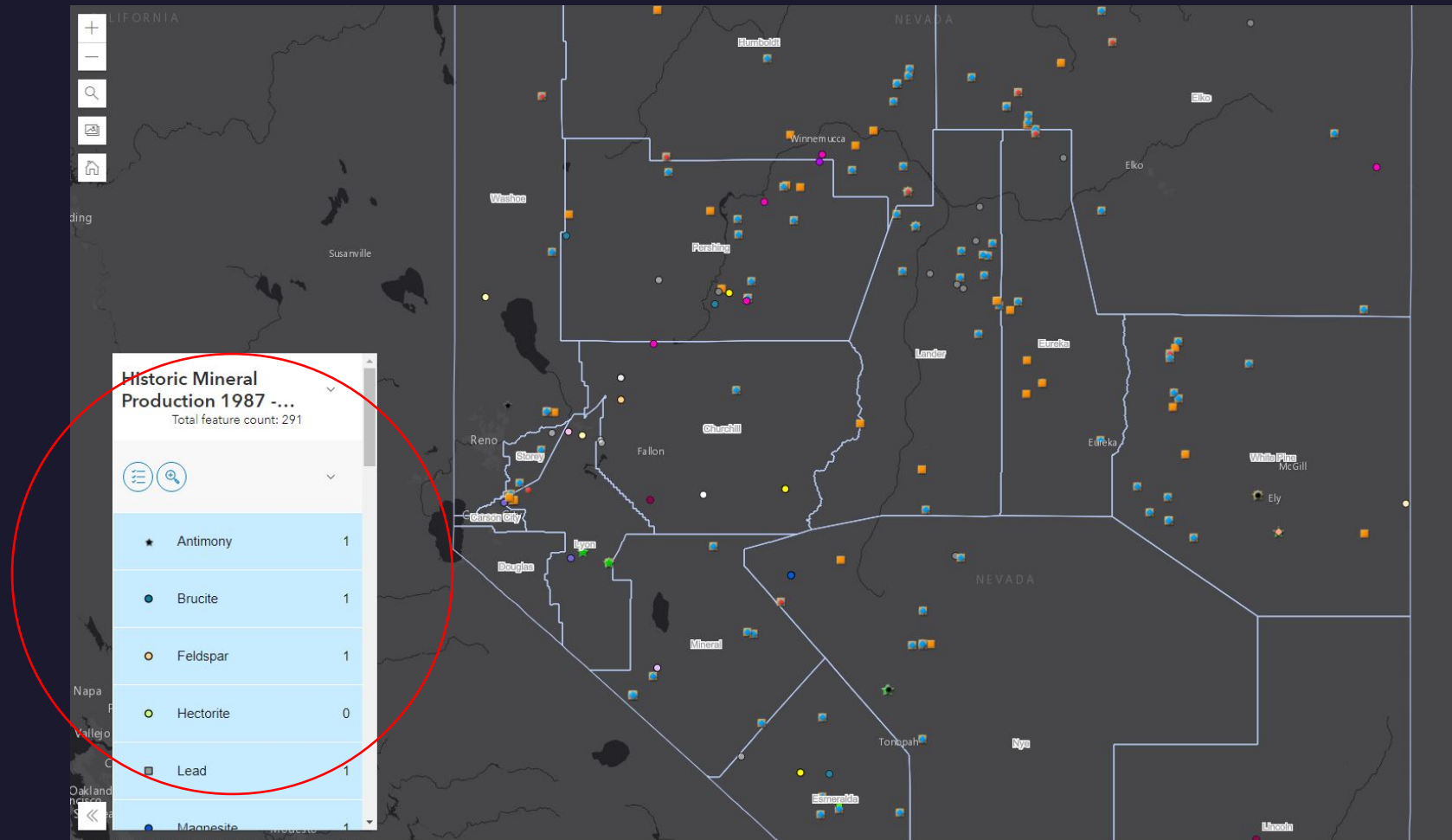
Selected features: 1



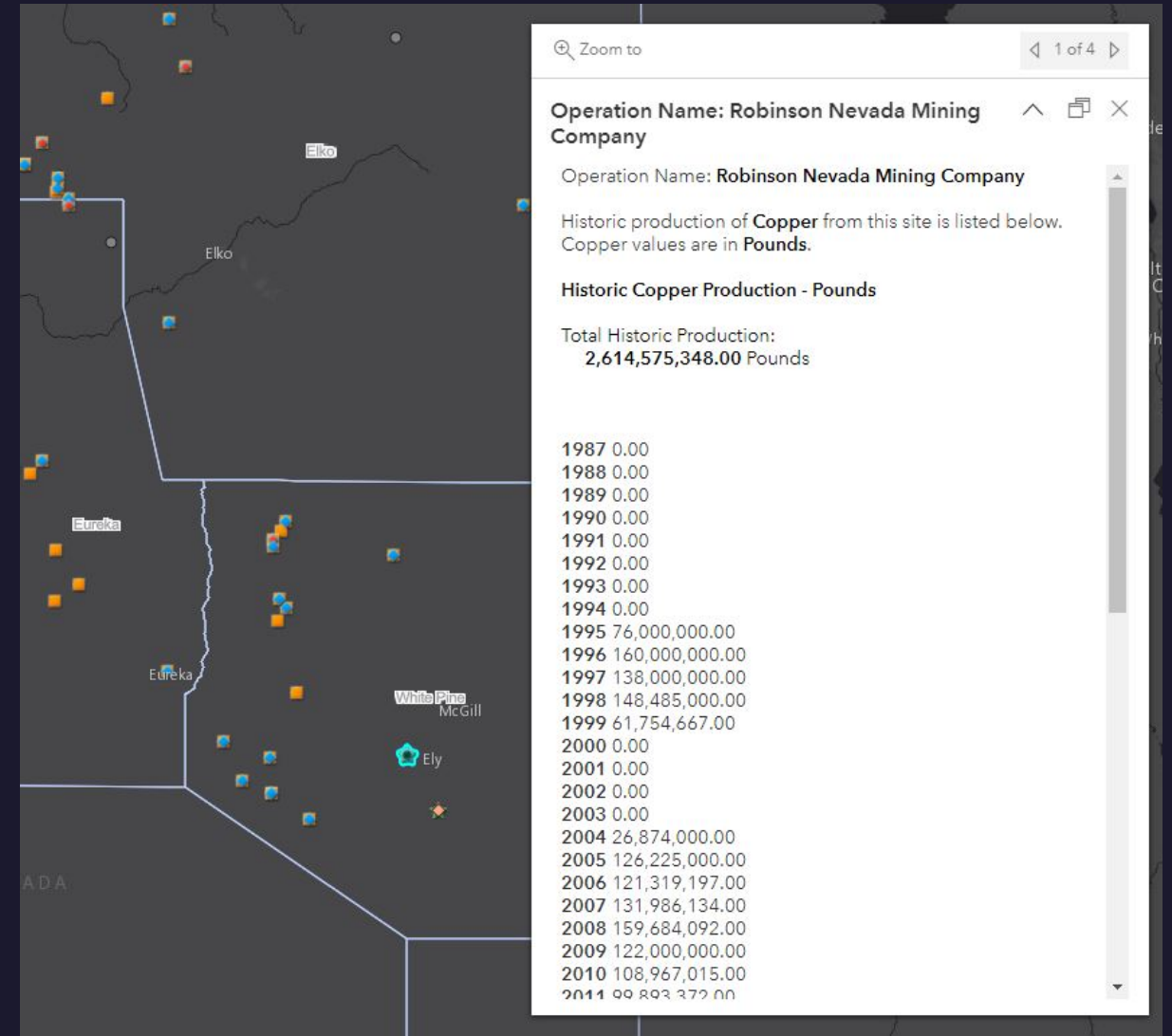
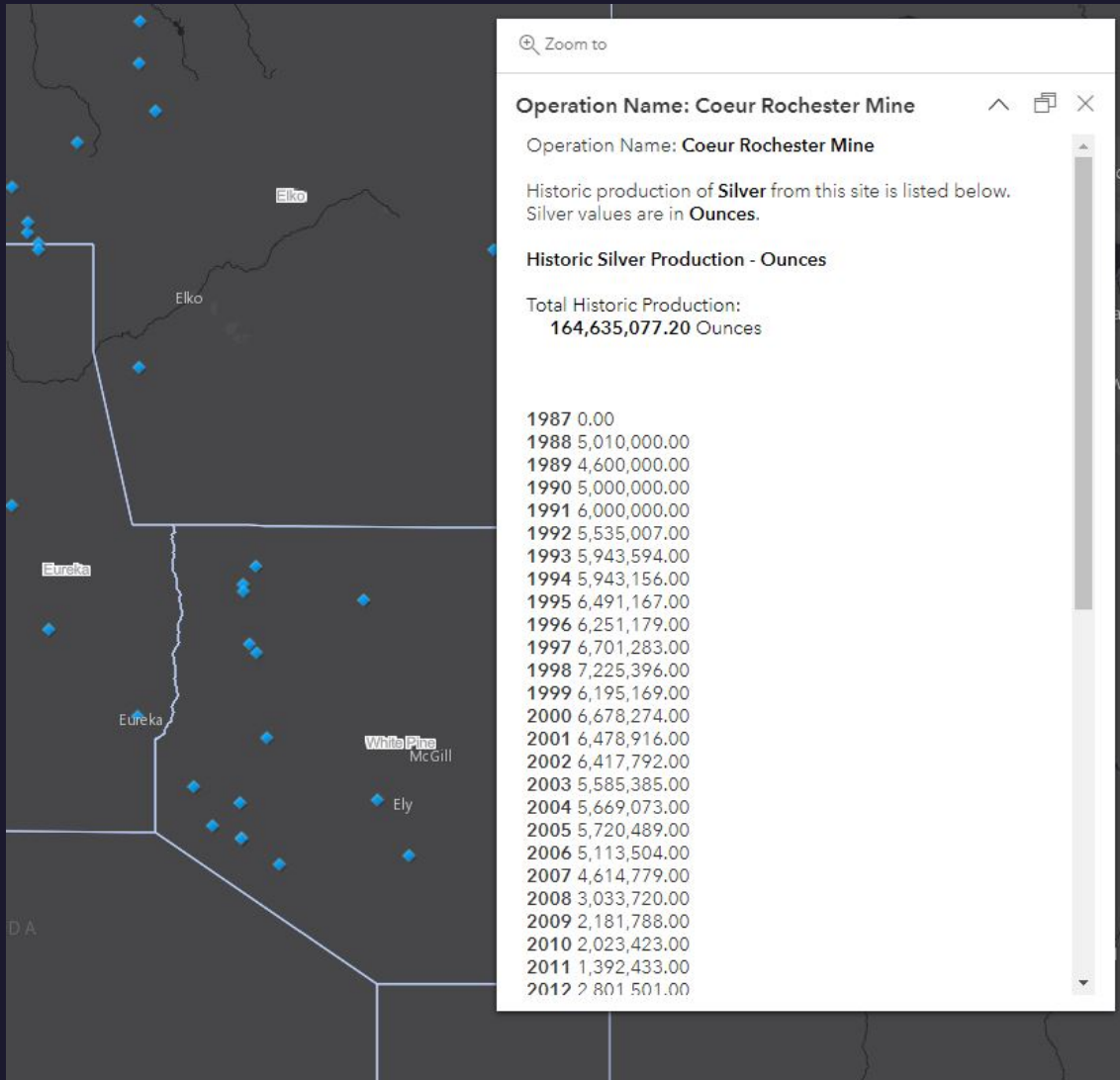
Featured App: Historic Mineral Production in NV

The Nevada Division of Minerals Open Data Site

- **Historic Mineral Production App**
 - **Map showing all Nevada mines, current and historic, filterable by commodity type**
 - **Data points show historic production values dating back to 1987**



The Nevada Division of Minerals Open Data Site

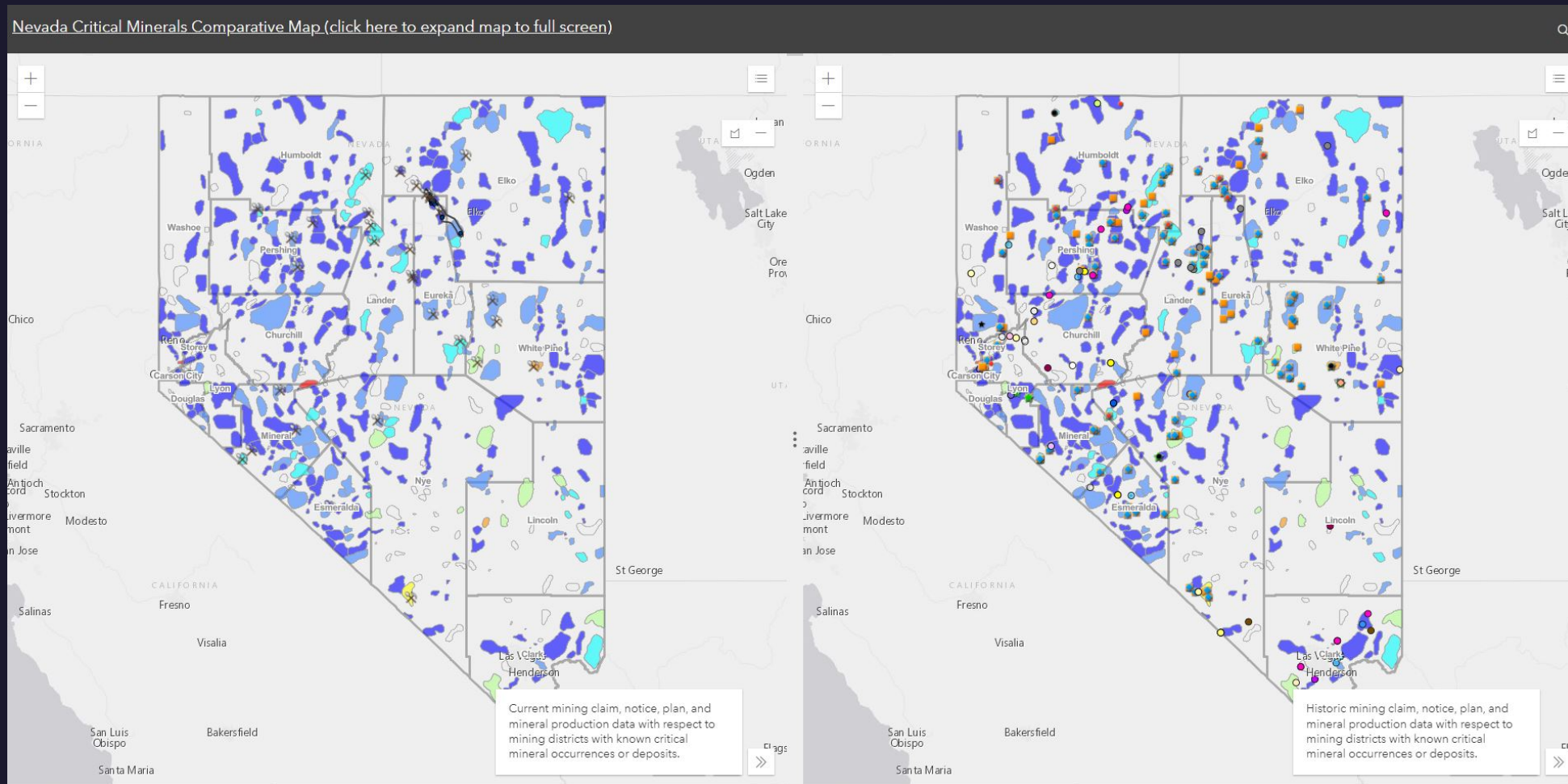




Featured App: Critical Minerals Comparative Map

The Nevada Division of Minerals Open Data Site

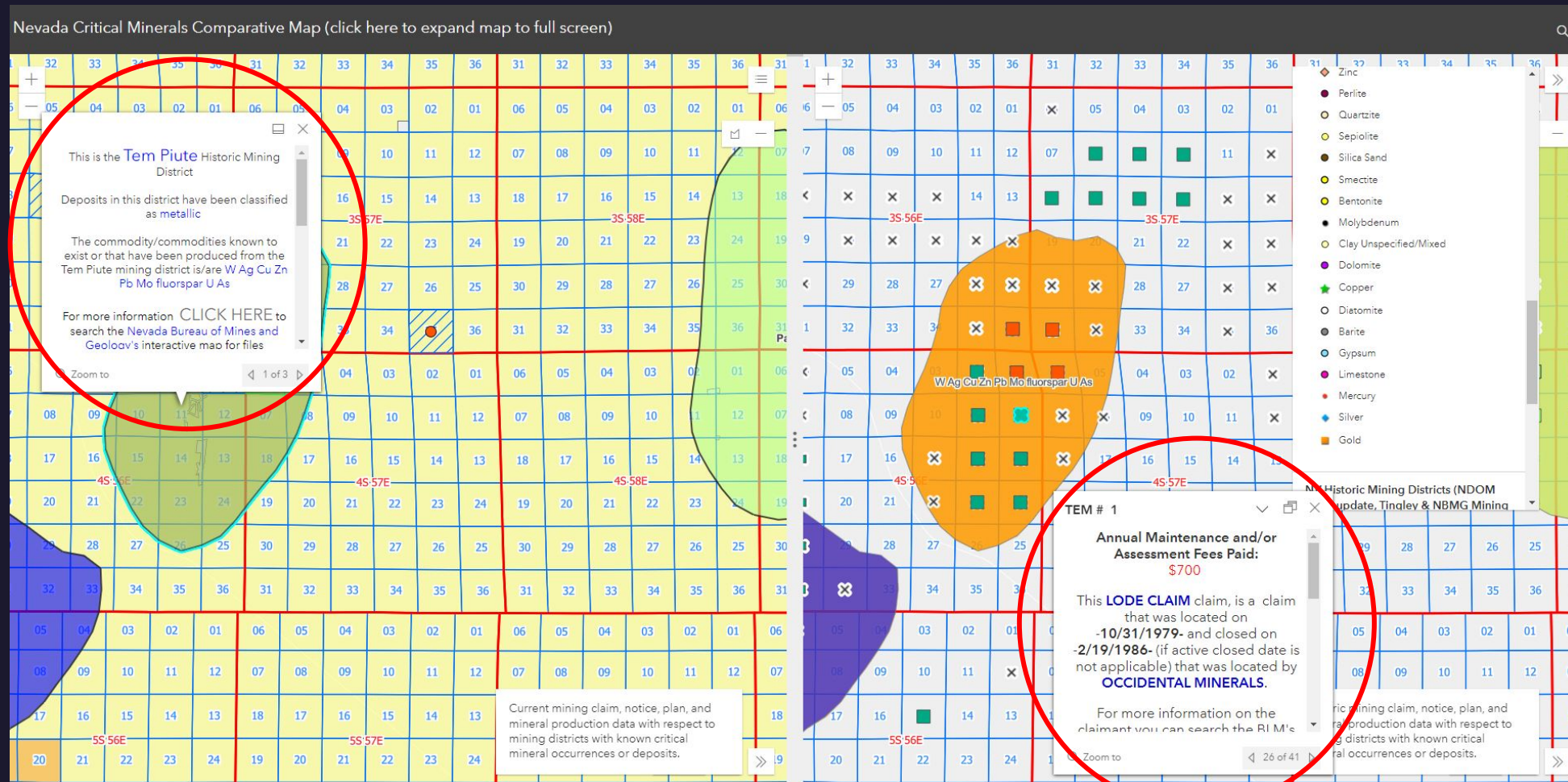
- **Critical Minerals Comparative App**
 - **Map showing mineral occurrences, active and historic mines, mining claims and NOI/POO filings**



The Nevada Division of Minerals Open Data Site

- **Critical Minerals Comparative App**

- Identify districts that were known to have occurrences of critical minerals, produced critical minerals in the past or currently produce critical minerals

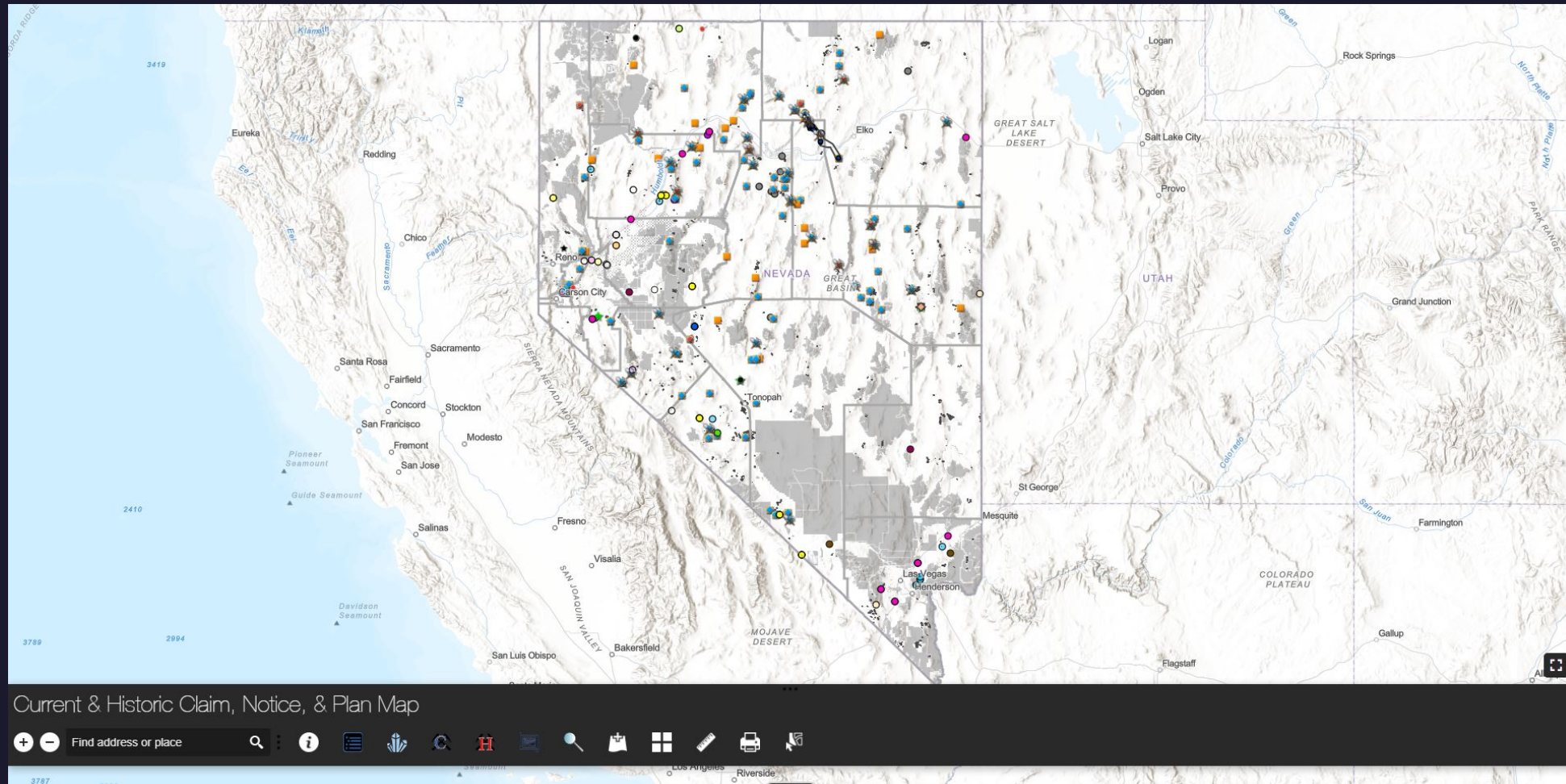




Featured App: Nevada Mining Claims and
Notices-Plans

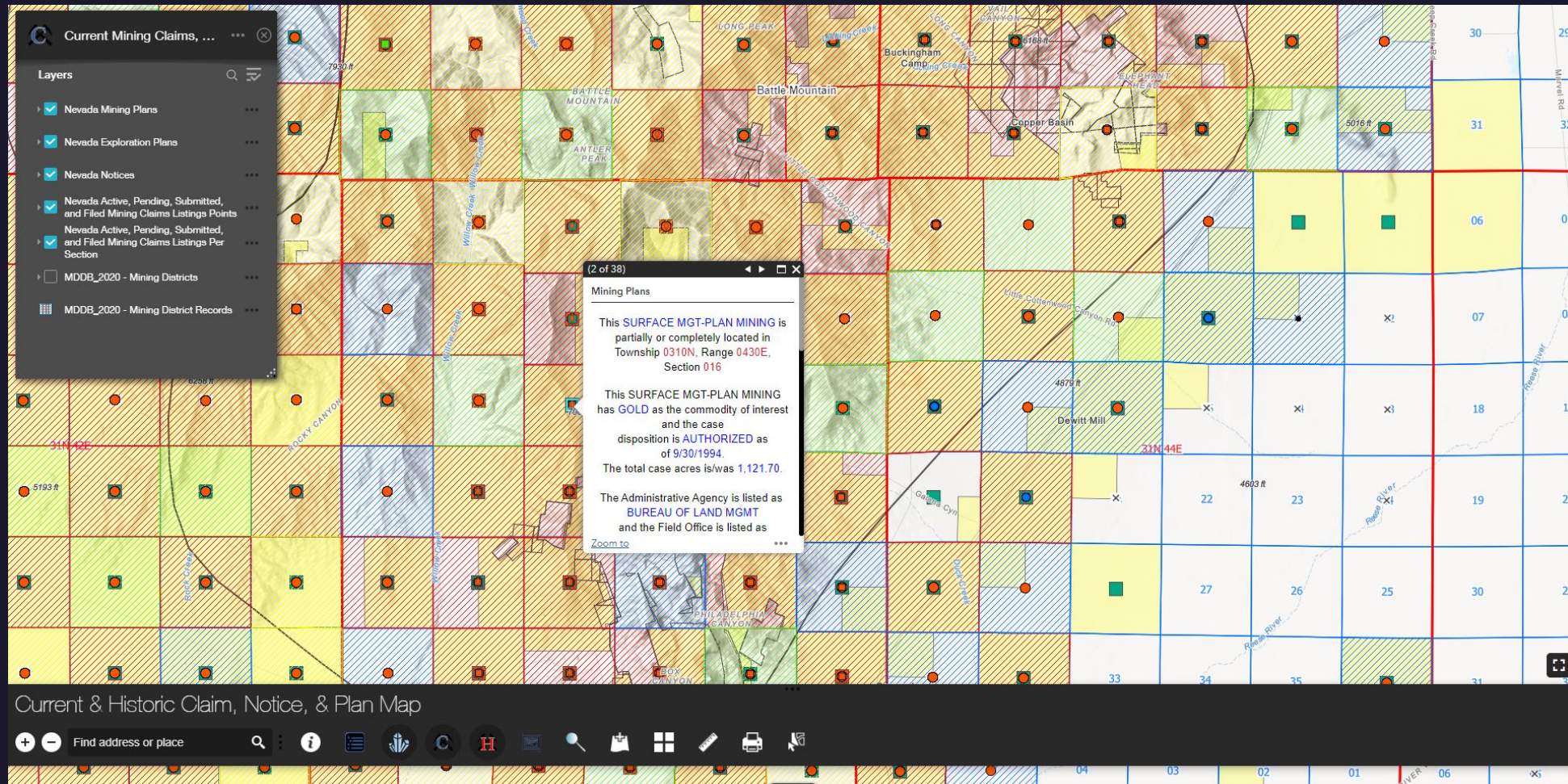
The Nevada Division of Minerals Open Data Site

- Mining Claims, Notice and Plan-level Filings
 - Map showing current and historic mining claims, notice and plan level filings



The Nevada Division of Minerals Open Data Site

- Mining Claims, Notice and Plan-level Filings
 - Map showing current and historic mining claims, notice and plan level filings

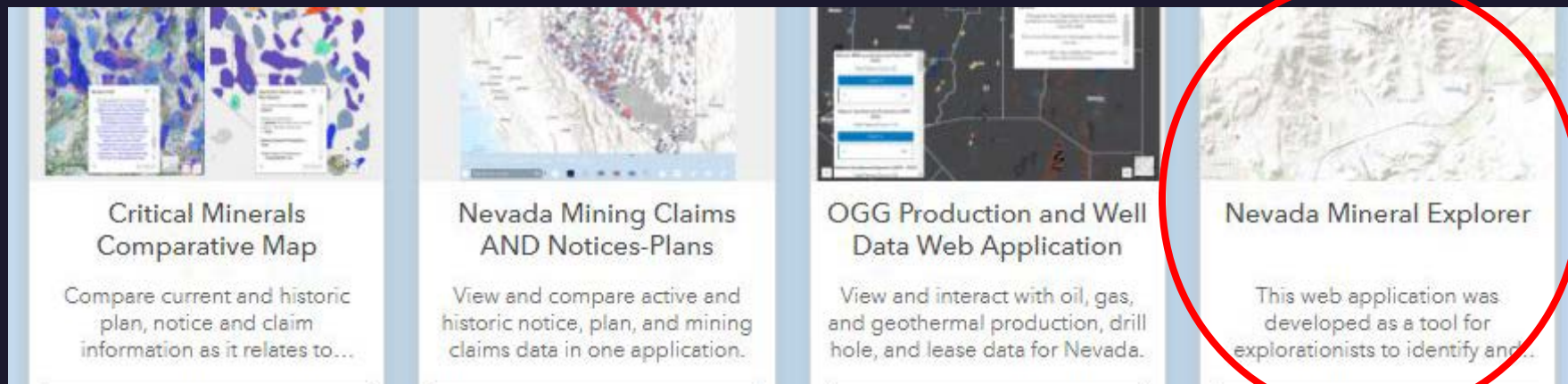
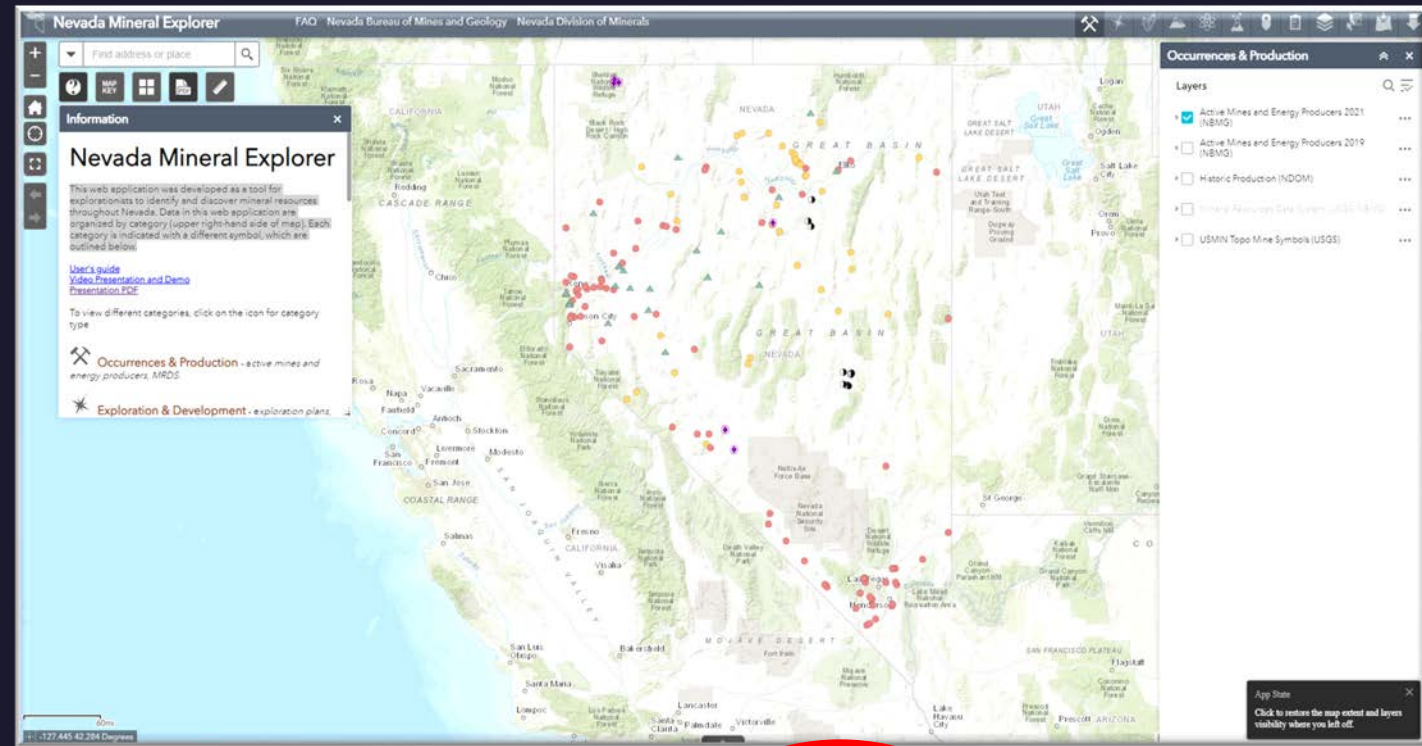




The Nevada Mineral Explorer Web App

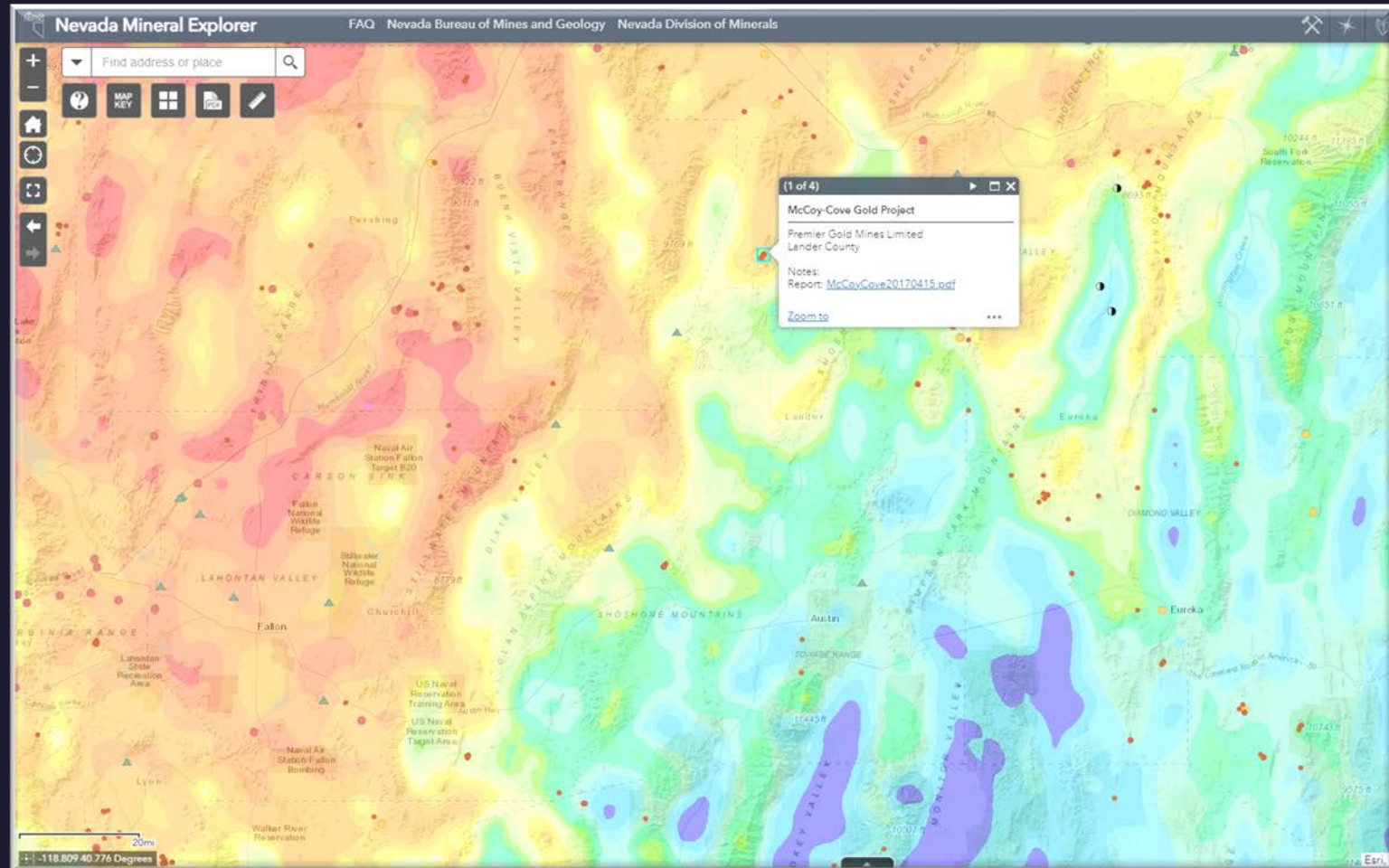
The Nevada Mineral Explorer

- This web application was developed as a tool for explorationists to identify and discover mineral resources throughout Nevada.
 - Data in this web application are organized by category (upper right-hand side of map)
 - Each category is indicated with a different symbol, which are outlined below



The Nevada Mineral Explorer

- Interactive map with more technical information
 - Various statewide and localized geologic data sets
- Also includes filing data
 - Mining claims, NOI & POO, NI 43-101



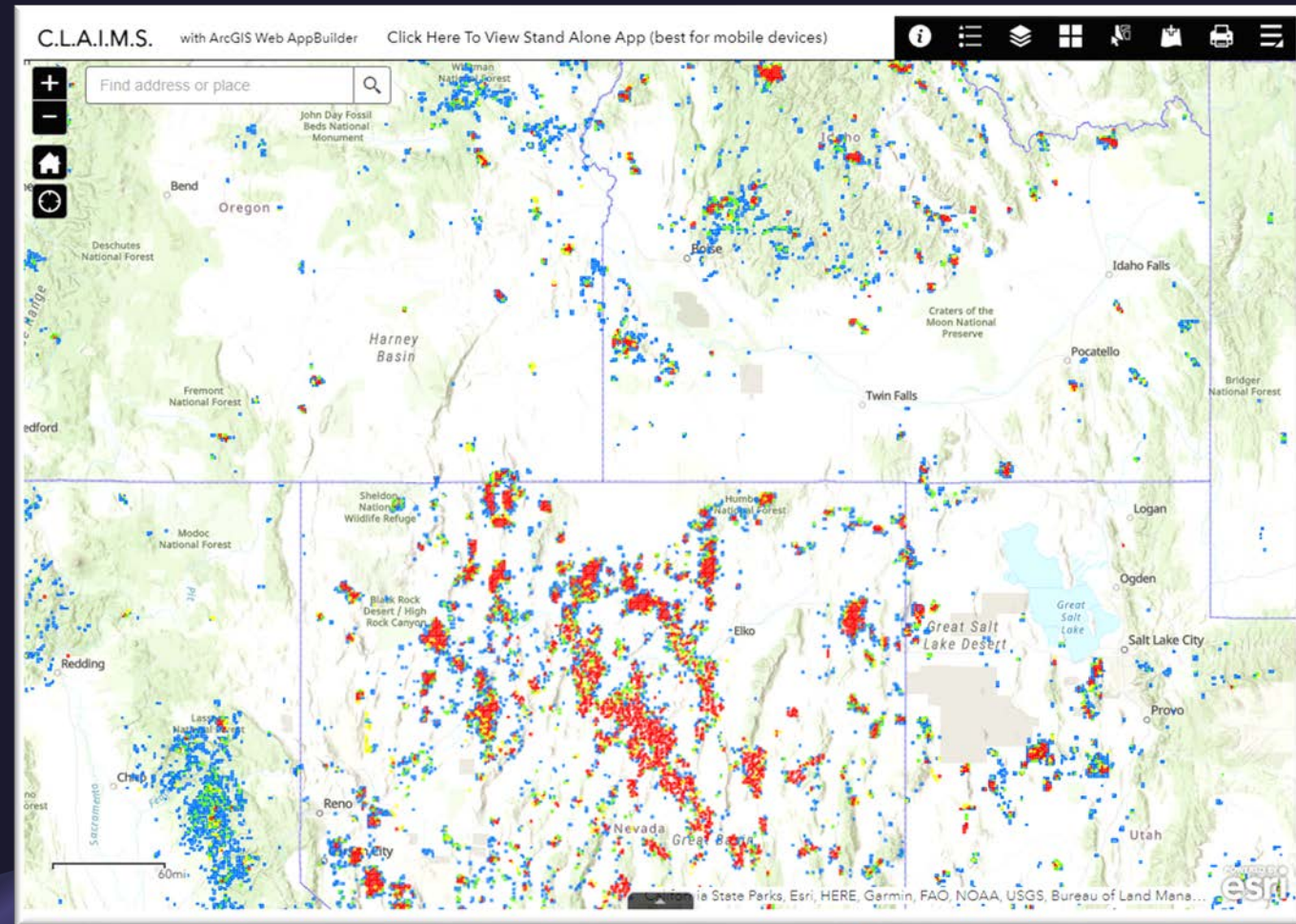
The background features a complex network of white nodes connected by thin white lines, set against a dark blue gradient. The nodes are arranged in a non-uniform pattern, with some clusters and some isolated points, creating a sense of interconnectedness and data flow.

Claims Location Array Map Service (C.L.A.I.M.S.) Hub Site

The C.L.A.I.M.S Hub Site



- When to choose the C.L.A.I.M.S Hub Site
 - Looking for filing data for the western U.S.
 - More than just Nevada
 - Links and resources to other states' data
 - Several important exploration-related information websites all aggregated in one place
 - Interactive map showing claims density and fees paid on claims through time
 - Shows where exploration was focused across the west during different time intervals



Summary

- Many tools and datasets available
 - More than one app will accomplish what you're looking to do
- Test each feature out, use the one that works best for you
- Let us know if you have any input
- Get out there and explore!



Other Resources

- Nevada Division of Minerals Website
- NBMG Publications webpage
- NV State Office of the BLM
- BLM MLRS
- Geological Society of Nevada
- Nevada Mining Association
- Nevada Mineral Exploration Coalition
- PDACNV.COM
- U.S. Geological Survey



Thank You

Garrett Wake – NDOM

gwake@minerals.nv.gov

Office: 702-486-4344

