



JOE LOMBARDO
Governor

STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
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MICHAEL VISHER
Administrator

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COMMISSION ON MINERAL RESOURCES
Nevada Bureau of Mines and Geology
Great Basin Science Sample and Records Library
2175 Raggio Pkwy, Reno, NV 89512

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<https://us02web.zoom.us/j/9712825638?pwd=YkZPbHJIdUQ0cUo3bldzb2k3aS9UUT09>

Meeting ID: 971 282 5638

Passcode: NDOM

Thursday May 4, 2023

10:30 A.M.

AGENDA

CALL TO ORDER

The agenda for this meeting of the Commission on Mineral Resources has been properly posted for this date and time in accordance with NRS requirement.

ROLL CALL

PLEDGE OF ALLEGIANCE

COMMENTS BY THE GENERAL PUBLIC

Pursuant to N.R.S. 241, this time is devoted to comments by the public, if any, and discussion of those comments. No action may be taken upon a matter raised under this item on the agenda until the matter itself has been specifically included on a successive agenda and identified as an item for possible action. Public comments may be limited to 5 minutes for each person. **ACTION WILL NOT BE TAKEN**

I. AGENDA

A. Approval of the Agenda

FOR POSSIBLE ACTION

II. MINUTES

A. Approval of the April 17, 2023, meeting minutes

FOR POSSIBLE ACTION

III. NEW BUSINESS

A. Introduction of New Staff

Rebecca Tims was hired to fill the vacant Administrative Assistant IV position in the Carson City office and started on April 10, 2023. - Mike Visher

FOR DISCUSSION ONLY

B. NBMG Online Geothermal Web Application Demonstration

A demonstration of the new Great Basin Center for Geothermal Energy (GBCGE) Subsurface Database and Application Connectivity will be presented.
- Eli Mlawsky, NBMG Data Manager

FOR DISCUSSION ONLY

- C. Review and Status of CMR-Approved NBMG Projects **FOR POSSIBLE ACTION**
A review of the status of current Nevada Bureau of Mines and Geology (NBMG) projects previously approved by the Commission will be provided. This will include a discussion on any changes to deliverables, the timing thereof, and/or associated costs. - Jim Faulds, NBMG Director
- D. Update of NBMG Equipment Matching Funds Request to the Commission **FOR POSSIBLE ACTION**
At the February 1, 2023 CMR meeting, the Commission approved the Nevada Bureau of Mines and Geology request for funds in the amount of \$61,679 as part of a 1:1 match for a grant submission for equipment and enhancements at the Great Basin Science Sample and Records Library. An update on the grant status will be provided and implications to the amount of the CMR-approved match and options moving forward will be discussed.
- Jim Faulds, NBMG Director
- E. NBMG Special Project for Consideration in FY 2024/2025 Biennium **FOR POSSIBLE ACTION**
A Geologic Mapping and Resources Showcase project will be presented for funding consideration as a Special Project by the Commission.
- Jim Faulds, NBMG Director
- F. Legislative updates **FOR DISCUSSION ONLY**
A brief review of legislative activities that may affect the Commission on Mineral Resources and/or the minerals industry. - Mike Visser
- G. Request for support for the Nevada Earth Science Teacher’s Workshop. **FOR POSSIBLE ACTION**
The Education Committee of the Nevada Mining Association has requested support of \$15,000 per fiscal years 2024 and 2025. In the past, the Division has provided this support in the form of rock and mineral kits, reference books, hand lenses, and educational supplies for the workshops. - Rob Ghiglieri
- H. Review of the 2023 NDOM AML Summer Intern Program **FOR DISCUSSION ONLY**
An overview of the 2023 Summer Intern Program will be presented.
- Rob Ghiglieri
- I. 2022 Annual Status and Mineral Production Overview **FOR DISCUSSION ONLY**
An overview of the 2022 mineral production in Nevada will be presented.
- Lucia Patterson
- J. Nevada Mining and Land Withdrawal History Experience **FOR DISCUSSION ONLY**
The recently completed web-app detailing the complex relationship between Nevada’s mining history and federal land withdrawals will be presented along with an online demonstration. - Lucia Patterson
- IV. OLD BUSINESS**
- A. Update of Fiscal Years 2023-25 Budget and Forecast **FOR DISCUSSION ONLY**
An update will be provided on the current status of the proposed FY24/25 budget and the FY23 through FY25 forecast. - Rob Ghiglieri

COMMENTS BY THE GENERAL PUBLIC

Pursuant to N.R.S. 241, this time is devoted to comments by the public, if any, and discussion of those comments. No action may be taken upon a matter raised under this item on the agenda until the matter itself has been specifically included on a successive agenda and identified as an item for possible action. All public comments will be limited to 5 minutes for each person. **ACTION WILL NOT BE TAKEN**

ADJOURNMENT

NOTICE TO PERSONS WITH DISABILITIES

Members of the public who are disabled and require special accommodations or assistance at the meeting are requested to notify the Division of Minerals, 400 W. King Street, Suite 106, Carson City, NV 89703 or contact Rebecca Tims at (775) 684-7043 or by email at rtims@minerals.nv.gov.

II. MINUTES



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Monday April 17, 2023

10:00 A.M.

MINUTES

Commissioners	Staff	Public
Josh Nordquist via Zoom	Mike Visher	Jake Ward-Herzik
Mary Korpi via Zoom	Rob Ghiglieri	Paul Conrad
Art Henderson via Zoom	Rebecca Tims	Sheldon Byde
Bob Felder via Zoom	Anthony Walsh, DAG	Dana Bennett
Nigel Bain via Zoom	Dustin Holcomb	Ben Serrurier
Randy Griffin via Zoom		
Stephanie Hallinan via Zoom		

CALL TO ORDER

10:02 AM

ROLL CALL

All Commissioners present.

PLEDGE OF ALLEGIANCE

COMMENTS BY THE GENERAL PUBLIC

There were no public comments.

I. AGENDA

A. Approval of the Agenda

Motion to approve with no changes made by: Mary Korpi

Seconded by: Randy Griffin

Unanimously approved.

II. MINUTES

A. Approval of the February 1, 2023, meeting minutes

Motion to approve the February 1, 2023, minutes made by: Stephanie Hallinan

Seconded by: Mary Korpi

Unanimously approved.

III. NEW BUSINESS

A. Executive Order 2023-003

Administrator Visher summarized Governor Lombardo's Executive Order 2023-003 for agencies to review regulations for streamlining or reductions. The second part of the executive order is for the removal of not less than 10 recommendations recommended for removal. Administrator Visher stated that the regulations have been updated in the last eight years and that it might be difficult to come up with 10 regulations for elimination. The report is due May 1st and a list of regulation changes needs to be provided in a prioritized order. This is the preliminary step in the rulemaking process. Administrator Visher stated that this is an initial review of the regulations, and if or when we move forward there will be workshops. There is nothing set in stone today and there are opportunities to make additional changes to the regulations. If there are any changes, the entire chapter will be opened up. This is an initial review of the regulations.

Nigel Bain: Is it only regulations or costs that we see from different organizations?

Mike Visher: No, it's just the regulations themselves. We can't start rulemaking until the end of the session. With regards to revenue received, yes, there are opportunities unless we are at a statutory cap. The Legislative cap is \$10 per claim filing and there is no way to change that via regulation.

Mike Visher: Chapter 513 Page 3 section 513110 for regulation language that is proposed for removal should be highlighted in red in brackets. Administrator Visher stated section 513.110 is unnecessary and it's hard to police. This is a notice in writing from the mines. Mine Safety and Training already collects this information. Information is provided on an annual basis and Administrator Visher thinks this is sufficient. Administrator Visher stated that we get very little response on these. Administrator Visher stated this requirement is not necessary and that it's been there since 1988 and there has never been a change.

Arthur Henderson: If we have workshops for different regulations, will it be one workshop or separate workshops for each section?

Mike Visher: One workshop for each chapter of regulation change, workshops can be concurrent.

Arthur Henderson: The reason for this question is after reviewing these regulations, yes some of them could be removed, but as a Commission we need to evaluate whether these workshops are worthwhile use of Commission and Division time.

Mike Visher: Absolutely, that's a good point. This process is queuing things up for the next step. It does not require that you move forward on any of these suggested changes. We are to provide a list of the regulations for changes.

Art: During our evaluation, we struggled to identify these regulations recommended for change, we need to consider that as we move forward, is this a beneficial use of the Division's time to remove these regulations.

Nigel Bain: Does staff think they get a free flow of information from Mine Safety and Training?

Mike Visher: Yes and no. Right now, they are actively recruiting for an Administrator of Mine Safety and Training. They do have a database and provide us the information when requested.

Randy Griffin: Have some things noted for clarification or elimination, did any of these get listed when Governor Sandoval was in office and were they turned down?

Mike Visher: No, when Governor Sandoval put a hold on rulemaking, it was to request all the agencies to review their regulations but there was no priority list. The reporting requirements in Governor Lombardo's order is new. There have not been many changes in Chapter 513. The area that gets the most interaction is regarding the AML program.

Mike Visher: Any questions from the public?

There were no public questions.

Mike Visher: Next one is in Chapter 519A, the reclamation bond pool. In Section 519A.570 there is a requirement for someone applying for a plan to provide information in regards to the company including their assets and liabilities. The requirement in Sub C Sub 5 says that it requires a certified public accountant must review it, which can be a bit burdensome. Allowing for a signed and notarized affidavit to satisfy the requirements of 3. This could be a potential risk due to a company providing false information, but that is the point of having the affidavit. Under NAC 519A we have the Bad Actors language under NDEP that disallows someone to get a reclamation permit that has walked on a prior obligation. I feel this is one way to reduce the burden and satisfy the requirements to streamline the requirements. We do not get a lot of requests for plan level bonds. How many active plan-level bonds do we have right now?

Rob Ghiglieri: Six.

Mike Visher: When was the last time we got an application for one?

Rob Ghiglieri: Last year, and we've had one inquiry since.

Mike Visher: Bonds should be whole after five years has passed and then there is no liability to the state; during the first five years there is a decrease in liability to the State. The higher the bond amount, the more the company must provide upfront. Bond pool is still quite healthy, we have over a million dollars in excess funding capacity. I feel the affidavit is sufficient rather than having to pay a CPA to review the financial statements might be burdensome.

Bob Felder and Mike Visher: Held a discussion in the differences between publicly traded companies and private companies. There are differences in the disclosures of their annual reports for publicly traded companies and the majority of their financial information is already online. The use of the affidavit would only be applicable for publicly traded companies and more due diligence would be required on privately traded companies. The proposed change would impact fewer overall companies if the allowance of the affidavit was for publicly traded companies only.

Stephanie Hallinan: Is there an opportunity to retain the change under C5 but propose to remove the number 4 A and portions of B?

Mike Visher: Yeah. Whatever changes we make we are not held to; these are just proposals. We will revisit these changes and it will need to go to the Legislative Counsel Bureau for legal review before we do the workshop.

Mike Visher: Any questions from the public?

There were no questions.

Mike Visher: Oil and gas Chapter 522, section 522.232. The proposed change is to eliminate number 5 which is the notification to the Division of the use of any casing or casing material previously used in the hydraulic fracturing operation in another well.

Arthur Henderson: There is no restriction to use casing within the regulations and this is just a notification from them to use casing. Since there is no restriction there is no need for a notification.

Mike Visher: Casing needs to meet the minimum specs in number 4. Feels this is redundant and not necessary.

Arthur Henderson: Again, this was a search to meet the executive order, but I don't recommend that we go through rulemaking just to remove this item.

Mike Visher: Any questions for the proposed deletion of number 5?

There were no questions from the commissioners.

Mike Visher: Any comments from the public for the proposed deletion of number 5?

There were no public comments.

Mike Visher: On the same page and further down the NDEP web link for the reporting of spills has changed. This is an update to remove the link and provide the current link for reporting of spills to the website. Any discussion on this update?

No public comments

Mike Visher: Section 522.345 number 1 is proposed for removal. Art, do you want to provide an overview of why?

Arthur Henderson: NAC 522.345 lists only 5 different ways that gas from an oil well may be used. I feel this is restrictive. We should not limit these to 5, because at any time gas may be used for different uses, and if we use number 2, to make sure no gas is wasted.

Josh Nordquist: I want to clarify the removal of the language says that no gas shall escape unless approved by the Division.

Arthur Henderson: Correct

Mike Visher: Any other questions from the Commission on the deletion of this language?

There were no other questions from the Commission.

Mike Visher: Are there any comments or questions from the public regarding the proposed deletion of this language?

There was no public comment.

Mike Visher: Chapter 534A, section 534A.205 speaks to the requirement for the location of an individual well to be surveyed by a licensed surveyor. Administrator Visher stated that with the advent of GPS and the accuracy that we have now and that the wells are being inspected, he feels this language is no longer necessary. It would be a cost savings to the operator. This information is already provided on the completion report as to the location of the well. Any comments or concerns?

Josh Nordquist: The certified plat must be filed with the Division within 30 days after the completion of the construction of the well. It is just a notification at that point. The location of the well before it is created also has to be submitted?

Mike Visher: It's already part of the application process, information is already received before they drill. Certified plat is not necessary. Any questions from the public in regard to the proposed deletion of this section?

There were no public comments.

Mike Visher: Section 534A.310 recommendation is to lengthen the time from 30 days to 90 days. As a result of increased use of core on geothermal drilling and the time it takes to process the core internally.

Arthur Henderson: 30 or 90 days after the well is completed. When do you consider it completed?

Mike Visher: The well is completed when the rig is released.

Mike Visher: Any other comments or questions from the Commission?

There were no comments or questions from the Commission.

Mike Visher: Any other comments or questions from the public?

There were no comments or questions from the public.

Mike Visher: Chapter 534B, section 534B.100, this is one that we recognized as the most important and most impactful for the lithium brine explorers, is the requirement to have a licensed water well driller at the rig at all times when the rig is in operation, when in reality, what we really want is to have them there anytime the well is being drilled, constructed, or plugged. There are oftentimes when the water is being sampled, pumping the water, and there is no change to the characteristics of the well. Having that additional cost of a water well driller when the water is just being sampled is burdensome. There is no new language to add. Questions or comments from the Commission?

Josh Nordquist: Water well drillers, is that defined as licensed?

Mike Visher: Yes, that is a challenge for some of the operators when there is a push to find a licensed water well driller to be at the site at all times, it is logistically and financially challenging. Are there any questions from the Commission?

There were no questions from the Commission.

Mike Visher: Any questions from the public?

There were no questions from the public.

Mike Visher: Section 534B.125, the requirements for plugging of the boreholes. Oftentimes it isn't always possible to remove the casing. Sometimes you can't get it out of the ground. Requesting to eliminate this requirement. It doesn't change how the well is plugged. This will provide some flexibility by eliminating this requirement.

Any questions from the Commission on this language?

There were no questions from the Commission.

Mike Visher: Any questions from the public?

There were no questions from the public.

Arthur Henderson: Do we have the date of the last changes that were made to the NACs?

Mike Visher: The changes are listed at the bottom of the section. I would like to thank former Administrator Perry for visiting every chapter and updating the regulations. We have been very good at reviewing our regulations every ten years. And that is the challenge we are in with this executive order.

Arthur Henderson: I think it's important that we comply with the executive order, but now it's up to them to decide if we need to continue with rulemaking.

Mike Visher: Regulations need to be ranked in order of priority. It's part of the process of the review. I am happy to hear the discussion of the top priorities of the regulations that are being proposed. What are the ones that are the highest priority from the Commission?

Josh Nordquist: I would refer back to the order that the focus is not to impede economic development and to focus on things that have a cost impact.

Mike Visher: Absolutely. The ones that are for removal, we do have to rank them in descending order of priority.

Arthur Henderson: I give tremendous accolades to the Division for their due-diligence to the Governor's order, but due to the extreme effort to find regulations that could be removed, and our history of keeping our regulations current, I suggest we give this list to the Governor to show compliance but recommend to not make changes at this time to better use the resources of the Division.

Randy Griffin: Could you describe what it takes to go through rulemaking?

Mike Visher: It's a process. Rulemaking is governed by a process to make sure the public is able to provide comment in a public setting and for the agency to engage with the stakeholders. It does create an increase in staff workload to manage the rulemaking process. He stated the two proposed changes in NAC 534B would have the most impact and the industry would likely be supportive of these changes.

Arthur Henderson: For clarification, once an NAC is open and you go to a workshop, everything is fair game, correct?

Mike Visher: That is true, but it still must meet the requirements and intent of the NRS.

Arthur Henderson: Today is the public and stakeholder's meeting to propose what they would like to see changed?

Mike Visher: Yes, in regard to the executive order. We are soliciting feedback from interested parties, the public and stakeholders. We are not held to any outcome of this meeting besides the requirement that the report is due May 1st.

Josh Nordquist: Agrees with the importance of NAC 534B but would like the outcome to also echo Art's comments on not recommending pursuing the changes. Part of the order is we need to provide a list, and we need to send a reminder of the resources that it takes to proceed with rulemaking.

Mike Visher: I think we could do that. There are a couple that we would like to remove, and the remainder are prioritized as stated in the executive order. We would prefer not to move forward making those changes at this time.

Mary Korpi: I agree with going in that direction. We look to Art for the oil and gas and to the Chairman on the geothermal and the input on how important the changes would have an impact to the staff at the Division.

Anthony Walsh: I'm absolutely fine with this proposed procedure.

Arthur Henderson: Could we have Tier 1 be NAC 534B and Tier 2 would be the rest?

Mike Visher: Yes, we could do something like that.

Nigel Bain: To go along with Commissioner Henderson's statement with the previous work history of Administrator Perry who worked as a regulator and while in industry subservient to the rules, he had a good understanding of both sides of the issue. He had focused on making the rules the NDOM had as effective and efficient as possible.

Mike Visher: Propose to prioritize 1. 534B.100, 2. 534B.125, 3. 534A.205, 4. 522.345, 5. 522.232, 6. 513.110, 7. 519A.570, 8. NAC534A.310, and 9. NAC522.232.

Stephanie Hallinan: Agreed with the ranking.

Nigel Bain: Agreed with the proposal.

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Josh Nordquist: Do we need a motion?

Mary Korpi: Wants the motion to include Art's previous statement with the list.

Anthony Walsh: Generally, make a motion to approve the report as written or modified to send to the Governor's office.

Josh Nordquist: Motion to the Division to provide the report to the Governor's office per the executive order a prioritized list of regulation changes reviewed today and attach a statement from the Division stating the regulations were reviewed and updated within the last 10 years, and that the rulemaking

process is not advised due to the understanding of the amount of work and resources required to make these changes.

Seconded by: Arthur Henderson

Unanimously approved.

COMMENTS BY THE GENERAL PUBLIC

There were no public comments.

ADJOURNMENT

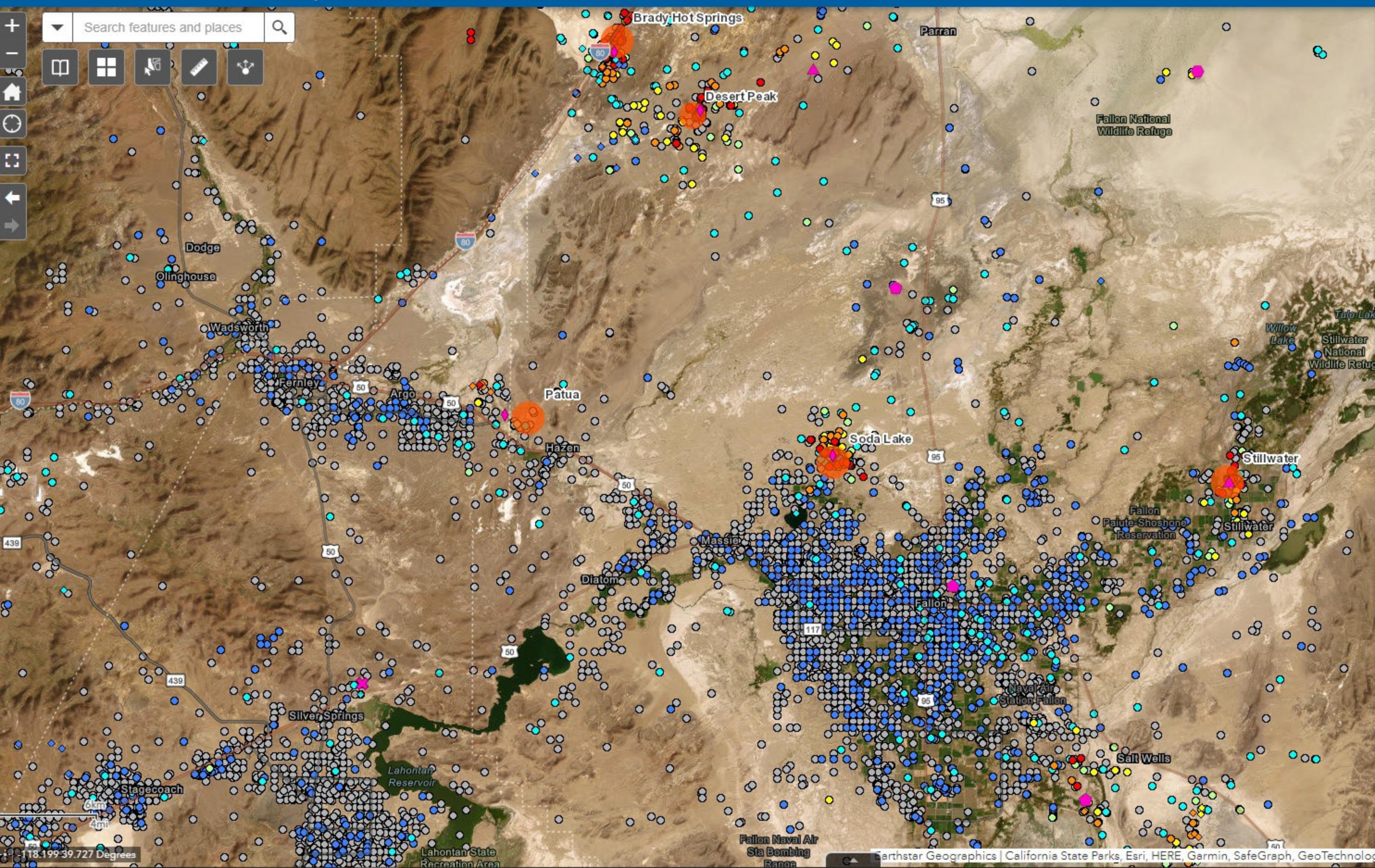
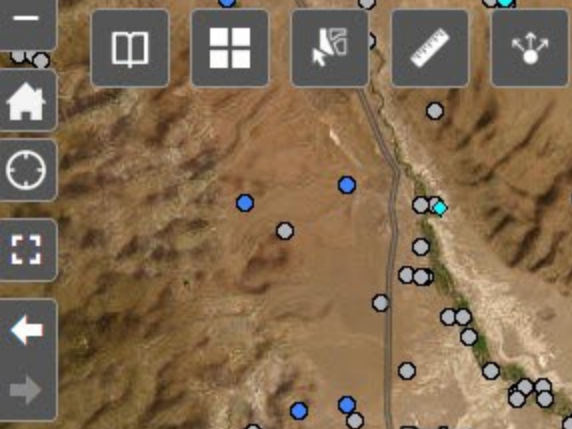
11:22am

DRAFT

III. NEW BUSINESS

B.

Search features and places



All Data

- Geothermal Structural Settings
 - Accommodation zone
 - Displacement transfer zone
 - Fault bend
 - Fault intersection
 - Fault termination
 - Hot sedimentary aquifer
 - Major normal fault
 - Pull apart
 - Stepover
 - Volcanic
 - Studied, undetermined
 - Not yet studied
- Geothermal Power Plants
 - Geothermal Power Plants
 - Up to 25 MWe
 - 25 - 100 MWe
 - Over 100 MWe
- Springs
 - Springs
 - No Data
 - Below 20° C
 - 20° - 37° C
 - 37° - 50° C
 - 50° - 75° C
 - 75° - 90° C
 - 90° - 100° C
- Wells
 - Wells

C.

THIS SECTION IS INTENTIONALLY LEFT BLANK.

D.

Matching Funds for NBMG Proposal to USGS Program

NBMG submitted a proposal earlier this year to the National Geological and Geophysical Data Preservation Program (NGGDPP) administered by the USGS. The purpose of NGGDPP is to support the preservation, digitizing, rescue, organization, and dissemination of geologic and geophysical data. The program requires a 1:1 match on all funds awarded to a state geological survey. Thanks to enhanced funding, equipment purchases are now permitted with NGGDPP. However, match is difficult to come by for small to moderate sized state geological surveys, such as NBMG.

The NBMG 2023 proposal requested \$260,661 from the NGGDPP program. NBMG lacked match for the most of the equipment part of the request. The equipment request focused on enhancing the GBSSRL and expanding storage capacity in Stead. The request included:

1. **Stereo microscope with computer and LCD display** to facilitate education and analyses of rock samples, cuttings, and core; **\$6,300.**
2. **Handheld Laser Induced Breakdown Spectroscopy Analyzer (LIBS)** for analysis of critical mineral elements, including lithium, in core, cuttings, and rock samples; **\$41,375.**
3. **Digital storage and infrastructure** (dedicated network attached storage): Server to house tens of terabytes of data; **\$7,516.**
4. **Storage containers and construction** at Stead to house core, cuttings, and documents that cannot be stored at GBSSRL, which is near capacity; **\$102,804.**

The total request for equipment came to **\$157,995**. NBMG lacked **\$61,679** in match for this part of the proposal, and the Commission approved funds in February 2023 for that amount. However, the request for storage containers and construction at Stead was not awarded, reducing the equipment portion of the proposal to \$55,191 and also reducing the needed match. However, reduced staffing and inflation have led to additional challenges in meeting the match for this part of the proposal. NBMG therefore requests a total of **\$31,000** to fully cover the required match for this proposal and permit acquisition of the first three equipment items listed above, which is a significant reduction from the originally requested and approved \$61,679.

E.

Special Project: Geologic Mapping and Mineral Resources Showcase

Nevada Bureau of Mines and Geology (NBMG)

NBMG's research and mapping of natural resources are critical to Nevada's economy and improving public safety. This mapping helps to understand the origin and distribution of mineral deposits and energy resources around the state. The detailed geologic maps published by NBMG are commonly used for a variety of applications and over a period spanning decades.

The publications-communications-web team within NBMG Cartography & GIS proposes a collection of engaging communication pieces to showcase geologic mapping and recent mineral resources work in Nevada. This project involves organizing and synthesizing existing materials into meaningful and more effective communication media that reaches a broad audience, including a story map with integration of interactive features such as video snippets, animations/sliders, and maps, as well as an infographic-style dashboard of geologic mapping statistics. Publication of an educational poster, updates to static web content on the main NBMG website, updates to specific web applications, and organization and preparation for a future transition to a new NBMG website are additional outcomes of this project.

Specific deliverables:

Year 1:

- A. Multi-media story map focusing on 3 main topics: 1) "Applications of Geologic Mapping", highlighting recent Earth MRI mapping projects on critical minerals and other notable applications that benefit Nevada; 2) "Geologic Mapping in Nevada through Time", featuring an animation or time slider showing mapping progression over time; 3) "How Geologic Maps are Made", educating on the process to create a geologic map.
- B. An accompanying educational poster describing the process to create a geologic map would also be officially released as an NBMG publication, making it available for use at NMA teacher workshops or other outreach activities. A QR code pointing to the story map would be included on the poster.

Year 2:

- A. Dashboard designed for stakeholder engagement that displays current geologic map statistics, which could include 1) percentage of mapping in the state, counties, or other regions; 2) footprints of active mapping; 3) information about funding support from federal programs; 4) counts of new maps and GIS conversions; 5) percentage of mapping in the state supported with specific funding.
- B. NBMG white papers and rack cards pertaining to geologic mapping, economic geology, etc. would also be modernized further leveraging the content created for the story map, so that they are readily available for the next legislative session and other outreach opportunities.

Ongoing across both years: 1) The "Geologic Maps in Nevada" web application would be brought up to date; 2) stakeholder suggestions for improvement would be integrated into the "Nevada Geology" web application; 3) out-of-date content on static web pages of the main NBMG website related to geologic mapping and mineral resources would be updated, including development or consolidation of pages as required to organize and prepare for a larger website transition in the future; 4) cleanup of code and server files for static website in preparation for future website transition; 5) analysis of navigation paths to geologic maps and datasets in an effort to decrease the number of clicks to these resources in the future

NBMG website; 6) development of site map for NBMG website to document organization and navigation paths to prepare NBMG for transition into the University CMS.

Benefits:

- A tool for legislators and stakeholders to better understand how geologic mapping positively impacts Nevada.
- A showcase communication piece to be used for the 150th anniversary of the University, and later for the 100th anniversary of NBMG due to the time-visualization components integrated into the story map.
- A case study of what can be provided for other programs (i.e., critical minerals, geothermal, other mineral resources, economic geology, and geologic hazards).
- An outreach tool for NMA teacher workshops or other activities.
- A recruiting tool.
- Brings attention to the ramping up of geologic mapping efforts over time and new Earth MRI mapping efforts.
- Supports feedback provided during past NBMG Advisory Board meetings to improve web presence and produce communication pieces to better showcase how NBMG contributes to society, with legislators and general public in mind as a target audience.

Project leads: Jennifer Vlcan, Christina Clack

Jennifer Vlcan and Christina Clack will lead this project with support from Andrew Hauck. Collaborative input and feedback will be provided by Seth Dee and others within the NBMG Geologic Mapping Program. Funding would provide partial salary support to Jennifer Vlcan, Christina Clack, and Andrew Hauck to perform the tasks of this project. In addition, we request funding for two interns and travel for project staff to attend the ESRI Users Conference for related training and workshops.

Budget:

Project Needs (2-year project period)	Requested Funding
Salary (spread over 2 years)	
Jennifer Vlcan	\$19,297
Christina Clack	\$27,192
Andrew Hauck	\$14,442
Fringe @ 41.3% for classified staff	\$25,165
2 Interns @ \$1500/semester	\$3,000
Conference travel, 3 staff	\$7,000
Total Direct Costs	\$96,096
Total Indirect Costs (8% F&A)	\$7,688
GRAND TOTAL	\$103,783

F.

Status of Nevada Legislative Bills Which May Impact Stakeholders in The Minerals Industry:

(As of April 26, 2023)

- **AB71 (Environmental Justice – Assemblywoman Peters)** – Requires the Division of Environmental Protection of the State Department of Conservation and Natural Resources to conduct an interim study concerning environmental justice. Amended once in first committee. **Declared Exempt.** Not yet voted on.
- **AB204 (Mill site claims – Assemblywoman Hansen)** – Revises provisions governing mill sites. Did not receive a hearing. No further action allowed.
- **AB219 (Open Meeting Law – Assemblywoman Considine)** – Makes various changes to the Open Meeting Law. Amended once in first committee. Makes changes to timing and frequency of public comment periods and means to provide public comment. Passed unanimously by Assembly 4/24.
- **AB312 (Environmental Justice - Assemblywoman Peters)** - Establishes provisions relating to environmental justice. Amended once in first committee. Proposes to create an Environmental Justice Advisory Council within the Department of Health and Human Services, defines its membership and reporting requirements. **Declared Exempt.** Not yet voted on.
- **AB313 (Pit Lakes – Assemblywoman Peters)** -Revises provisions relating to the reclamation of exploration projects and mining operations; revises requirements relating to a plan for reclamation; requires certain state agencies to prepare reports relating to certain impacts of pit lakes and mining. **Declared exempt.** Amended once in first committee. Not yet voted on.
- **AB315 (Geothermal Report – Assemblywoman Hardy)** – Requires Governor’s Office of Energy to coordinate with certain entities to recommend best practices for issuing a permit for geothermal energy and conduct an interim study relating to geothermal resources. **Declared exempt.** Amended once in first committee. Not yet voted on.
- **AJR3 (Environmental Justice – Assemblywoman Peters and Assemblyman Watts)** - Proposes to amend the Nevada Constitution by adding a new section which: (1) guarantees each person the right to a clean and healthy environment; (2) mandates a trust obligation of the State to conserve, protect and maintain certain environmental resources; (3) requires the State fulfill its trust obligation equitably for all beneficiaries regardless of race, ethnicity, gender, geography or wealth; and (4) prohibits the State, whether through action, inaction or the action of others, from causing the unreasonable degradation, diminution or depletion of the environment. Heard but not passed out of committee. No further action allowed.
- **SB88 (Study of Natural Resource Agencies – Assemblyman Watts)** - This bill requires the Joint Interim Standing Committee on Natural resources to conduct a study during the 2023-2024 interim concerning state agencies that regulate natural resources in this State. The study must include, without limitation, an examination of the composition, mission and scope of such state agencies. The Committee must examine, without limitation, the Board of Wildlife Commissioners, the Commission on Mineral Resources, the State Department of Conservation and Natural Resources and the State Environmental Commission. Further, the Committee must submit a report of its findings and any recommendations for legislation relating to the study to the 83rd Session of the Nevada Legislature. **Declared Exempt.** Not yet voted on.

- **SB210 (Revises provisions governing state Boards and Commissions – Government Affairs) –** Requires that appointments must, to the extent practicable and except as otherwise required by law, represent the diversity of the State. Section 3 of this bill requires boards, commissions and similar bodies to submit to the Governor a list of persons qualified for membership on such a board, commission or similar body within 60 days after a vacancy occurs. Passed by Senate 16-4.



NEVADAMINING.ORG

3185 LAKESIDE DRIVE, RENO, NV 89509 TEL: 775-829-2121

April 25, 2023

Mike Visher, Administrator
Nevada Division of Minerals
400 W. King Street, #106
Carson City, NV 89703

Re: Request for financial support of the Nevada Earth Science Teacher's Workshops

I am writing to request continued financial support for the Nevada Earth Science Teacher's Workshops from the Nevada Commission on Mineral Resources. The Workshop is co-sponsored by the Nevada Division of Minerals and the Nevada Mining Association.

Previously, the Commission has generously agreed to multiple year financial commitments to help fund the teacher workshops, providing \$15,000 annually. This funding has been used to purchase necessary materials required to host earth science workshops for educators in both northern and southern Nevada each year. These materials include educational rock boxes, earth science reference books for each attendee and other educational materials that help teachers take what they have learned at the workshops back into their classrooms. Recognition is given to the Nevada Division of Minerals in all advertising opportunities to ensure that attendees are aware of the support received, and the partnership between the Division and Nevada Mining Association.

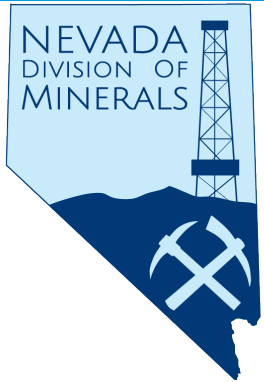
We are requesting funding, at the rate of \$15,000 per year for a period of two years, totaling \$30,000 in support of the Nevada Earth Science Teachers Workshops for fiscal years 24 and 25. This funding will be applied towards the same resources and materials as in previous years. The funds will be managed by the Division.

We appreciate your consideration of this request and look forward to your continued support.

A handwritten signature in blue ink, appearing to read "Allison Anderson", with a long horizontal flourish extending to the right.

Allison Anderson, Chair
Nevada Mining Association Education Committee

H.



SUMMER 2023 INTERN PROGRAM



Target Location and Interns

Commission on Mineral Resources

May 4th, 2023

INTERN FIELD WORK

Current AML Statistics

24,681 Inventoried Hazards

20,434 Hazards currently Secured (82%)

127,350 Inventoried Non-Hazards

2022 Intern Statistics

235 Inventoried Hazards

3,000 Inventoried Non-Hazards

195 Hazards Secured

340 Hazards Revisited

Intern Statistics avg. (2007-2022)

431 Inventoried Hazards

4,472 Inventoried Non-Hazards

219 Hazards Secured

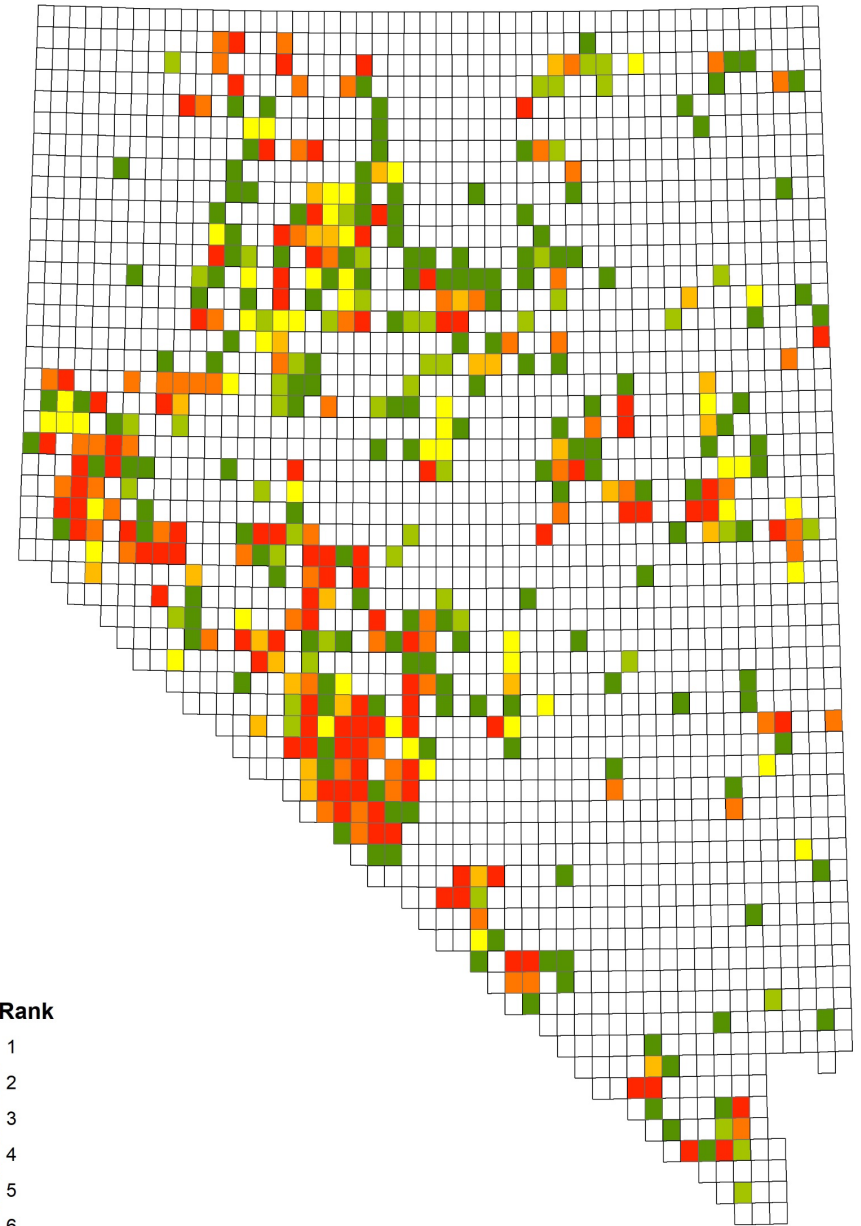
277 Hazards Revisited



HAZARD RANKING

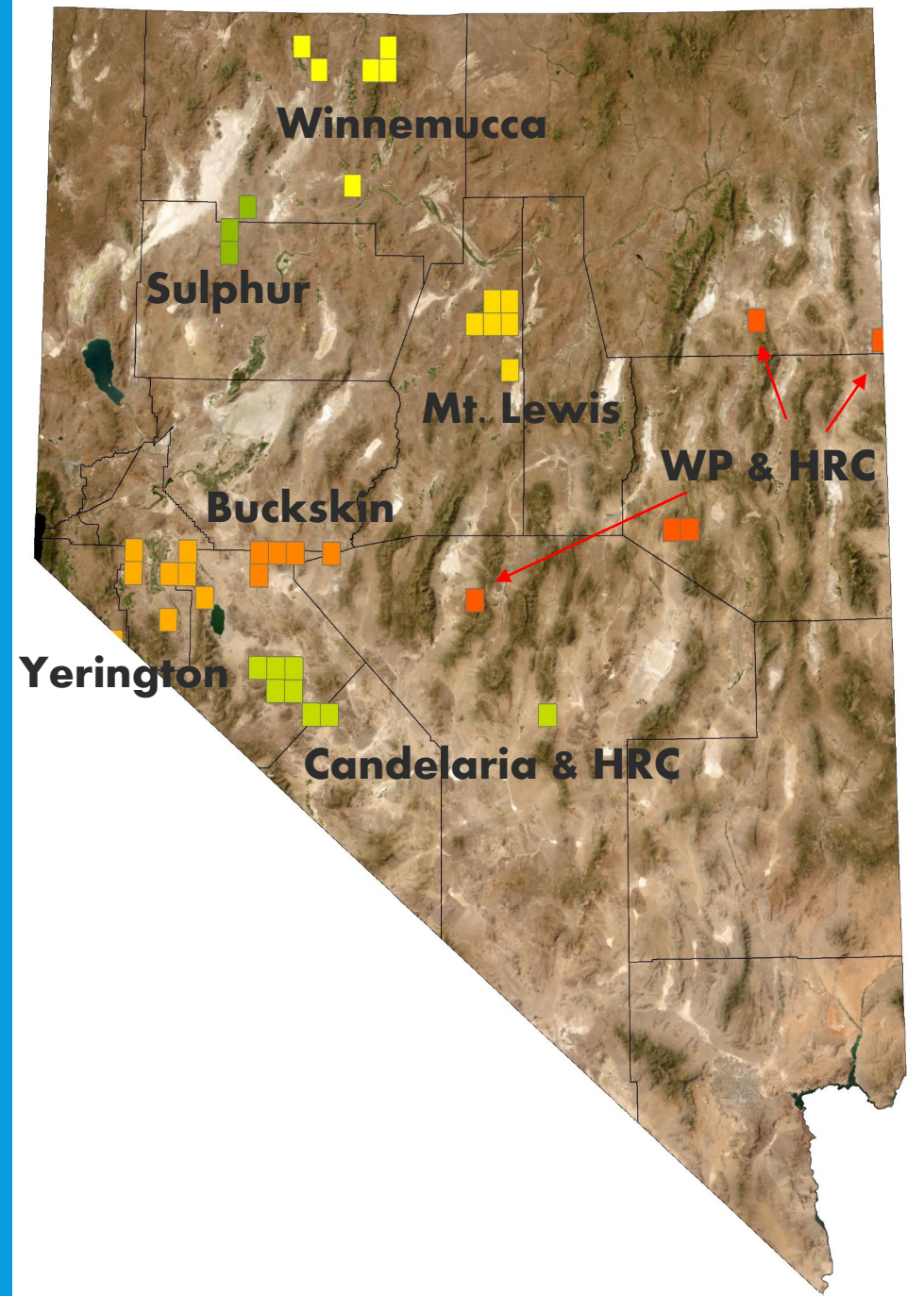


TopoRank



REGIONAL TARGETS

Dates	Field days	Field areas
May 22 – 26	1	Local Training
May 30 – June 2	3	Sulphur
June 5 – 9	5	Candelaria
June 12 – 16	5	Mount Lewis (NDEP Project)
June 20 – 23	4	Winnemucca
June 26 – 30	5	Mount Lewis (Mop Up)
July 3 – 7	4	Yerington
July 10 – 14	5	Yerington (Mop Up)
July 17 - 21	5	Raw Hide
July 24 – Aug 2	10	White Pine County and HRC Vetting
Aug 7 - 11	5	Local Work - Clean up



INTERNS

Lindsey Smith –

University of Nevada, Reno
Junior – Geological Engineering
Relevant Background – Returning Intern,
One of NDOM's Top Performing Interns
Overall.

Tim Miller –

University of Nevada, Reno
Junior – Geological Engineering
Relevant Background – GIS and Python
Scripting, Avid Backpacker and Hiking

Maxime Arnault –

University of Nevada, Las Vegas
Junior – Geologist
Relevant Background – Wilderness First Aid
Cert, OSHA, MHSA, Rock Climber, and
Hiking

Leroy Evans –

College of Southern Nevada, Las Vegas
Junior – Environmental Science
Relevant Background – AML enthusiast,
Professional Fence Building, and Hiking

INTERNS

Juan Diaz –

University of Nevada, Reno
Junior – Environmental Science
Relevant Background – Extensive Off
Roding in Rural Nevada, National Guard,
Fencing Building Experience,

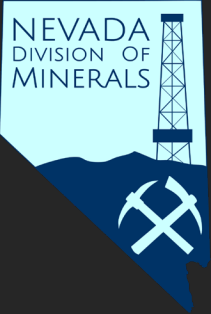
Falan Rose –

University of Nevada, Reno
Sophomore – Metallurgical Engineering
Relevant Background – ArcGIS, Off
Roding Skills, Fence Building Experience,
Hiking

Jake Cheney –

University of Nevada, Reno
Junior – Mine Engineering
Relevant Background – Extensive Ranch
Work and Fence Building, Off Roding
Skills, and Backcountry Navigation
Experience

l.



2022 Nevada Mineral, Oil and Geothermal Production



Lucia Patterson, GIS specialist-geologist

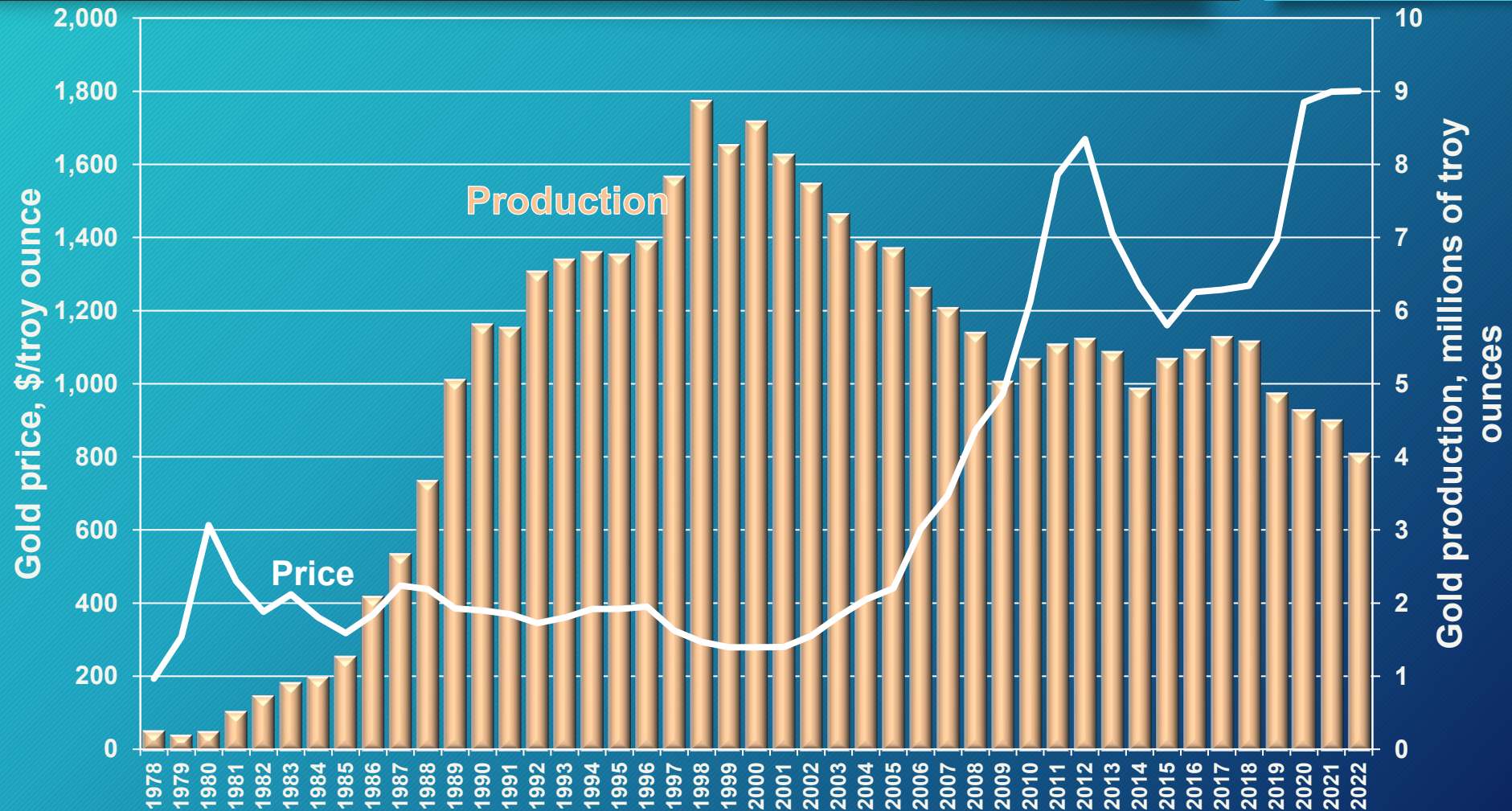
Nevada Division of Minerals

Nevada Gold



2022 Production:

- ✘ 4.04 Million ounces
- ✘ -10.2% vs. 2021
- ✘ 30 mining operations
- ✘ 17 operators
- ✘ 39% of production from the Carlin Trend (Carlin ops, Betze-Post, Meikle, Arturo)



All data is preliminary and is subject to change

2022 Production By Operator

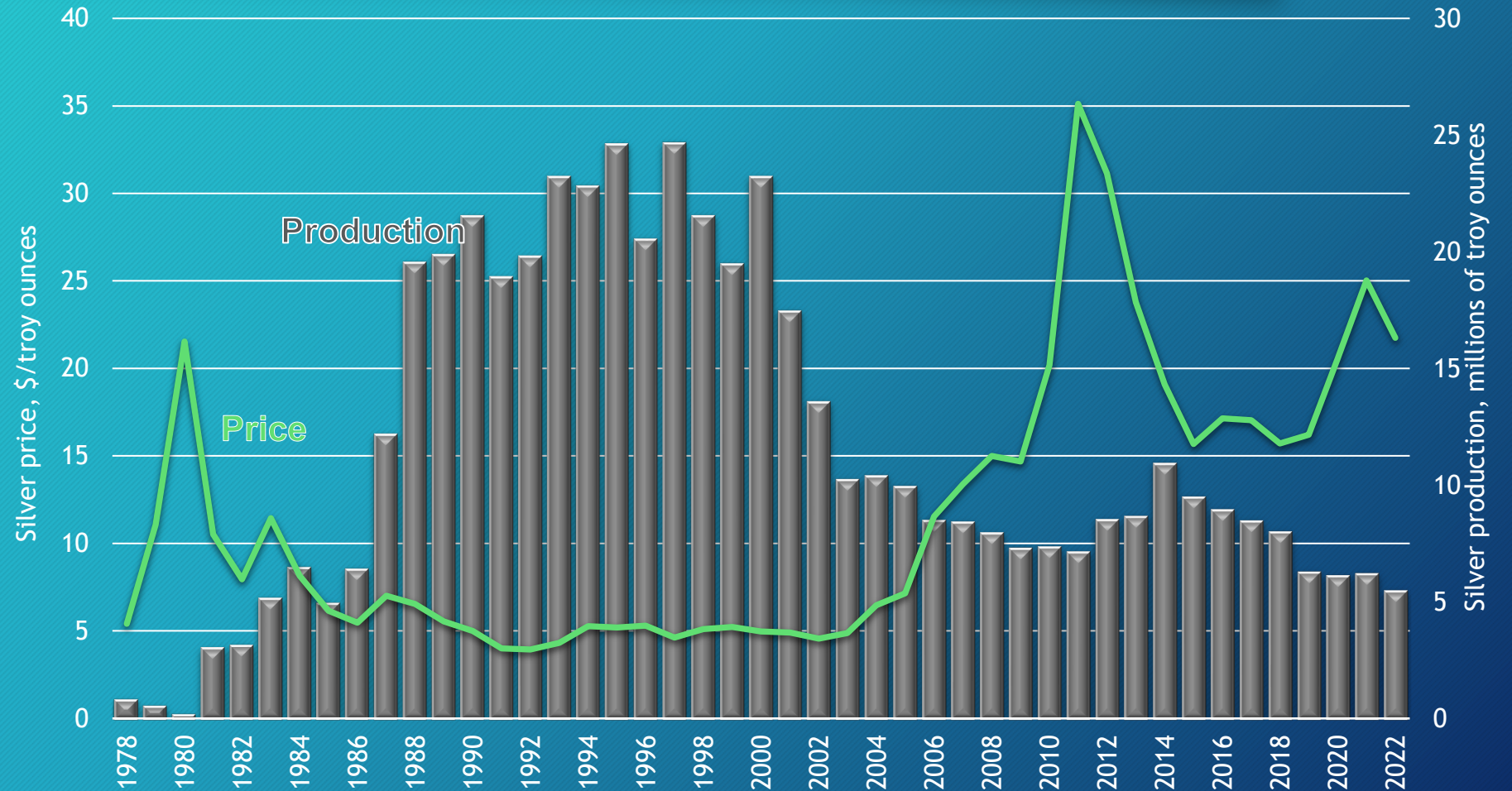
2022 NEVADA METAL PRODUCTION, BY PRODUCER				
Ranked by gold production				
Operator	Gold (ozs)	Silver (ozs)	Copper (lbs)	Moly (lbs)
Nevada Gold Mines	3,035,337	1,315,547	31,341,857	
Kinross	433,033	619,651		
SSR Mining	194,668	2,619		
First Majestic Silver	72,411	NR		
Florida Canyon Mining (Argonaut Gold)	49,440	30,414		
Calibre Gold	43,186			
KGHM International	41,346	256,312.00	108,416,295	275,620
Walker Lane Minerals	41,232	57,058		
Coeur	34,735	3,061,924		
i-80 Gold	27,236	9,000		
McEwen Mining	26,663	648		
Hycroft Mining	15,837	38,744		
Rawhide Mining	13,441	56,847		
Borealis Mining	11,957	19,815		
Gold Acquisition Corp.	2,246	5,193		
Hecla (Klondex)	2,205	NR		
Geo-Nevada	4	4		
Mineral Ridge Gold	0	0		
Nevada Copper	NR		2,011,000	
Totals:	4,044,977	5,473,776	141,769,152	275,620

Nevada Silver



2022 Production:

- ✂ 5.47 Million ounces
- ✂ -12% vs. 2021
- ✂ 24 mining operations
- ✂ 14 operators

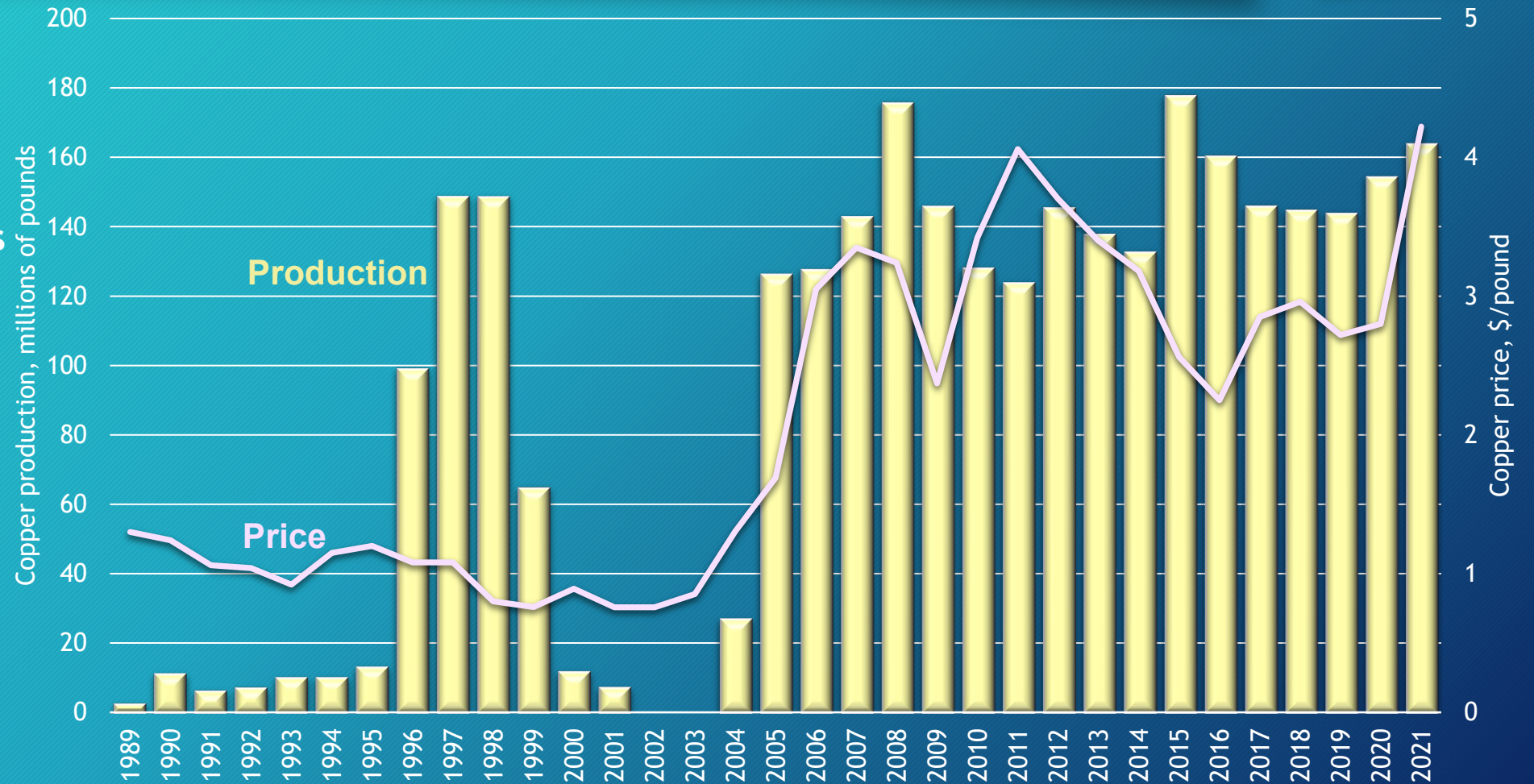


Nevada Copper



2022 Production:

- ✂ 141.77 Million pounds
- ✂ -13.4% vs. 2021
- ✂ 3 mining operations
- ✂ 3 operators

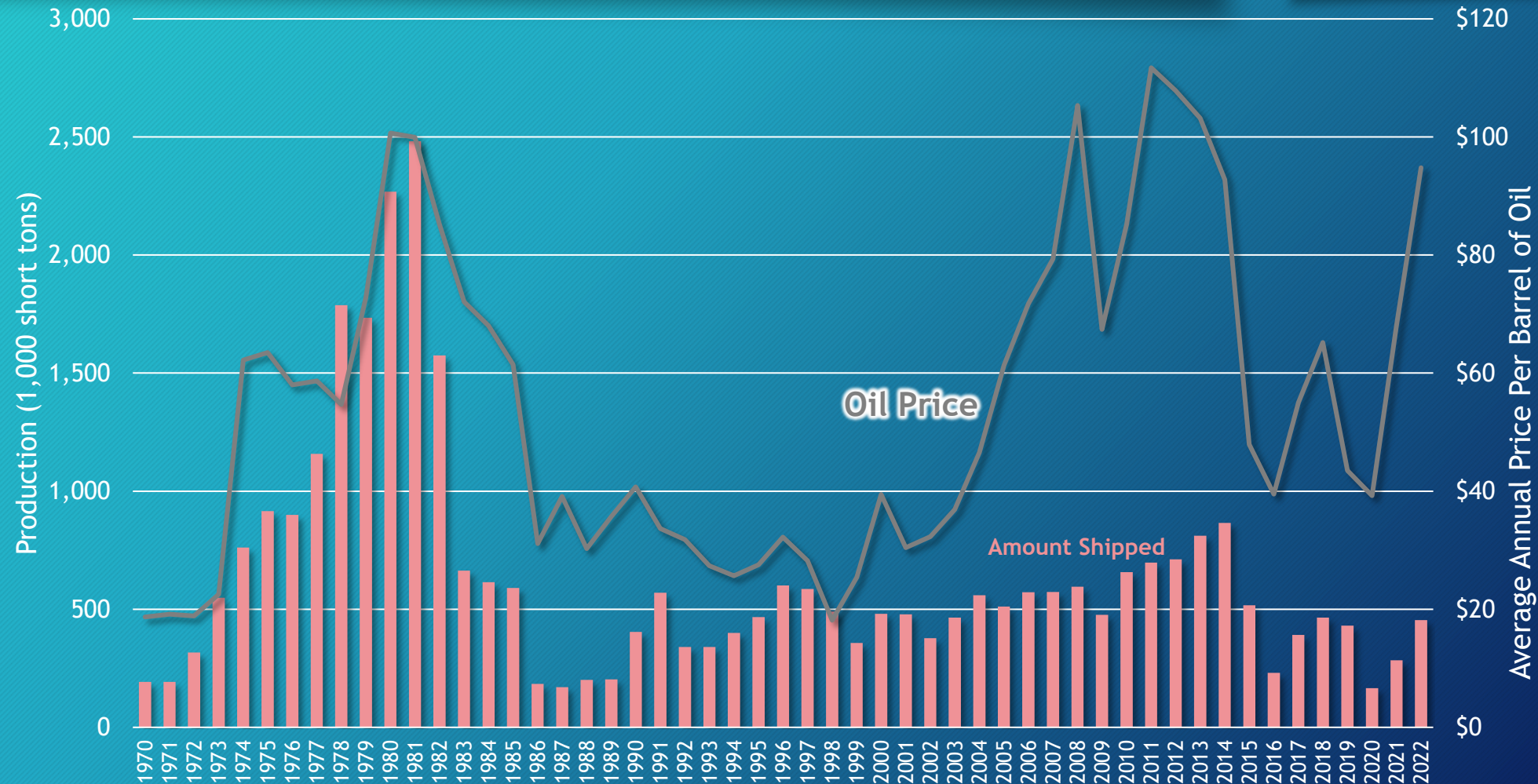


Nevada Barite



2022 Production:

- ✂ 453,746 tons of barite shipped
- ✂ +60% vs. 2021
- ✂ 4 operations
- ✂ 4 operators

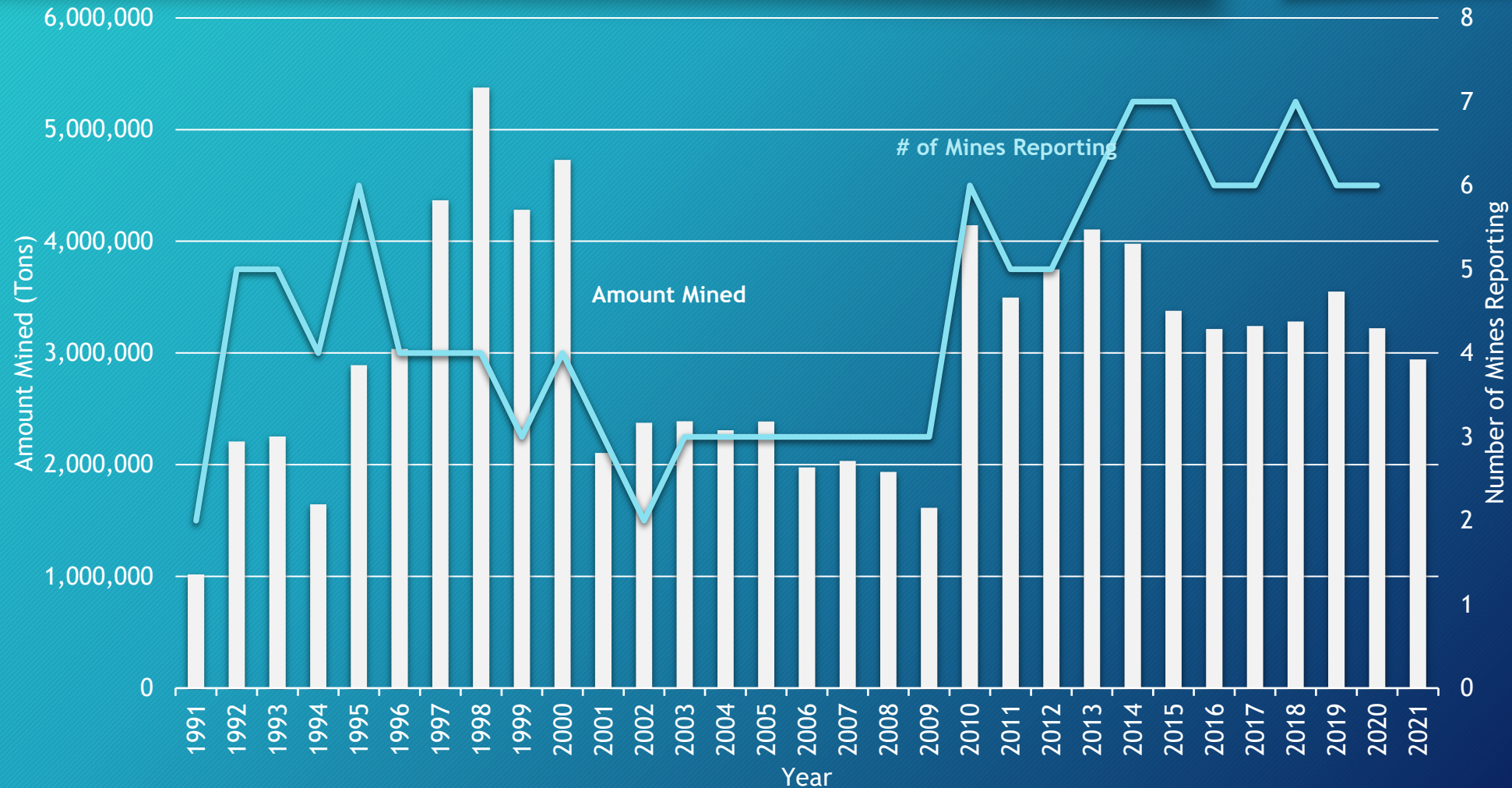


Nevada Limestone - Waiting for 2022 data



2021 Production:

- ✘ 2.94 Million tons of limestone
- ✘ -8.7% vs. 2020
- ✘ 6 mining operations
- ✘ 4 operators



Other Industrial Minerals Mined/Produced in 2022



- ✂ 8,301,221 lbs of lithium carbonate shipped
- ✂ 1,758,184 tons of gypsum
- ✂ 771,800 tons of silica sand shipped
- ✂ 122,483 tons of magnesium oxide shipped*
- ✂ 327,293 tons of diatomite
- ✂ 18,000 tons of salt shipped
- ✂ 819 tons of perlite

* Only producer in US



Nevada Oil

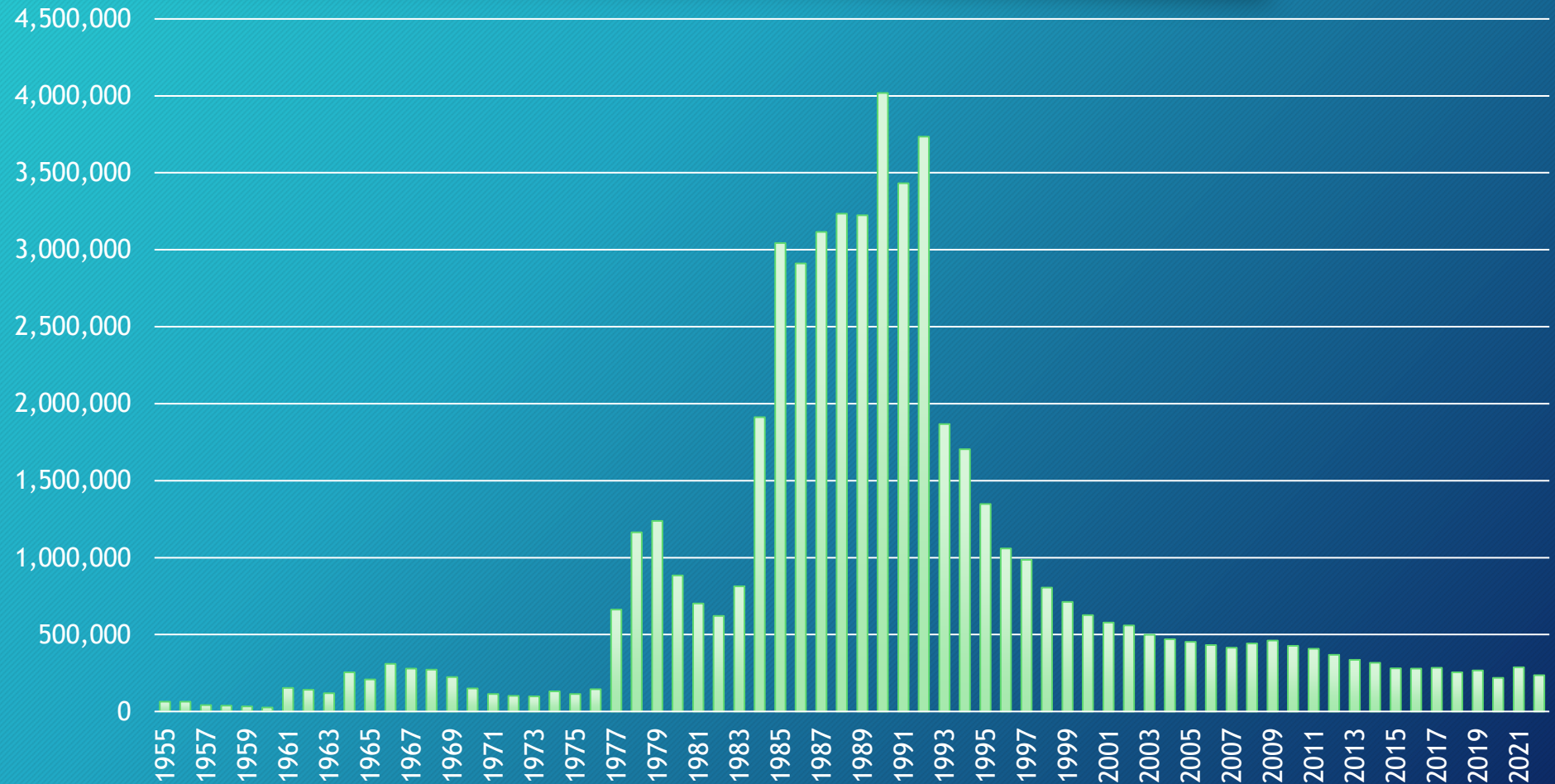


2022 Production:

✂ 223,233 barrels

✂ -17.9 vs. 2021

✂ 1955-2022
cumulative
production
55,209,810 barrels



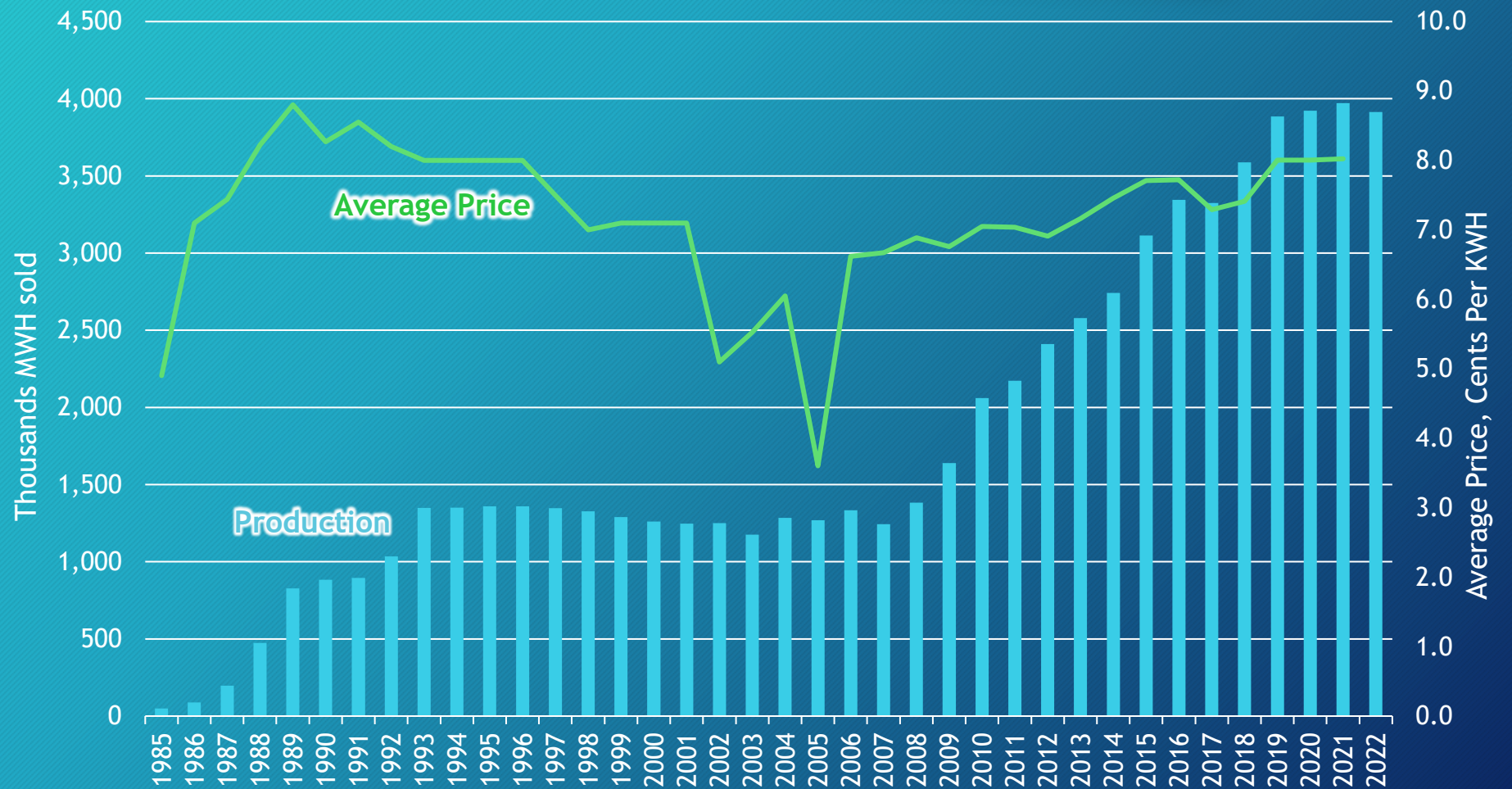
Nevada Geothermal



2022 Production:

✂ 3.9 million megawatt hours sold

✂ -1.6% vs. 2021



Nevada Production Application

Nevada Production Data 1987 - 2021

Select Year to Display Production Totals:

- All -

< 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

- 327 Apex Mine - Gold
- 327 Apex Mine - Silver
- Ach-dayton Joint Ve
- Adams Claim Gypsu
- Adams Claim Gypsu
- Adelaide Crown Mir
- Adelaide Crown Mir
- 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

Production Filters 2

Select Commodity if desired then filter on ONE year, the filter will not display correctly for more than one year.

Commodity is

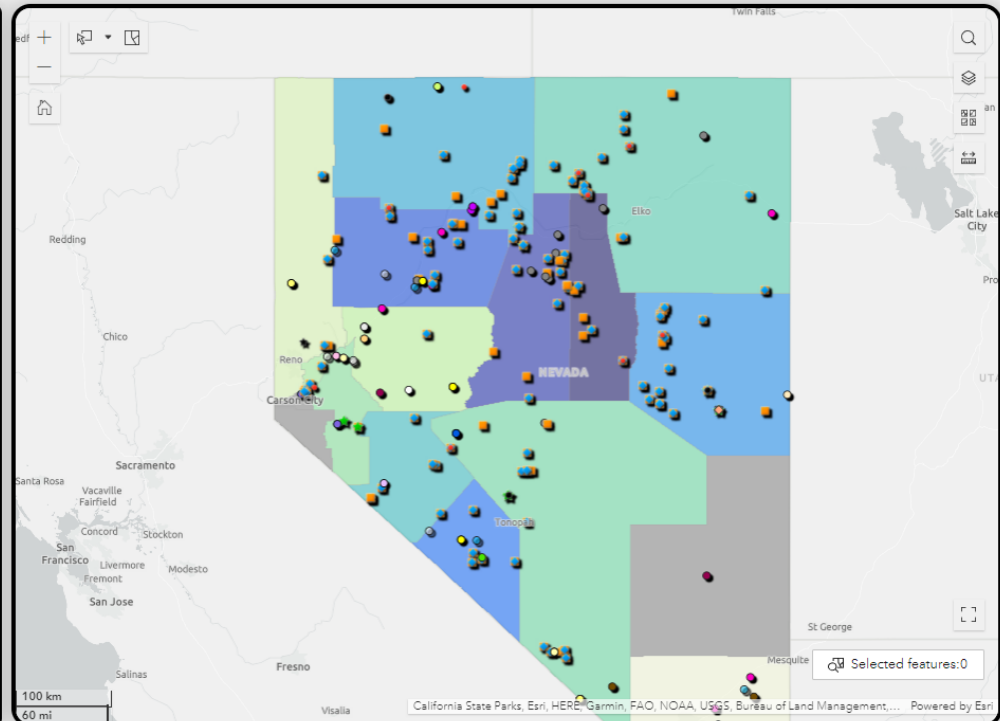
- All -

1987

1988

1989

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



J.

Minerals

Land

Disclaimer

- Pre 1850 M
- 1850s M
- 1860s M
- 1870s M
- 1880s M
- 1890s M
- 1900s M
- 1910s M
- 1920s M
- 1930s M
- 1940s M
- 1950s M
- 1960s M
- 1970s M
- 1980s M
- 1990s M
- 2000s M
- 2010s M
- 2020s M
- 2020s M?

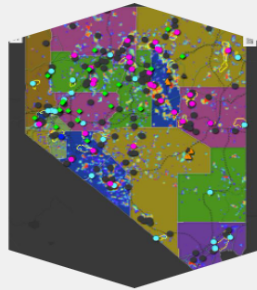
Disclaimer

- Pre 1850 L
- 1850s L
- 1860s L
- 1870s L
- 1880s L
- 1890s L
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- 2000s L
- 2010s L
- 2020s L
- 2020s L?

Disclaimer & Web Application Overview

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Historical narratives and data were obtained from several sources which can be found in the reference section at the bottom of this page. Direct links to the data sources were linked to the text of the source if available.
 Edited by Mike Visher & Jon Price

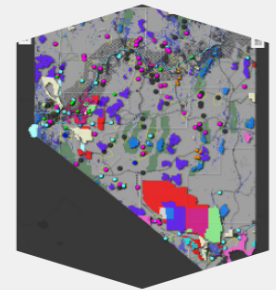


Click on a decade from the columns to the left to proceed!

In the map panels that will open, land withdrawn from mineral entry over time are displayed. Many, **THOUGH NOT ALL**, areas have been investigated, and the year in which the area was withdrawn from mineral entry (effectively or completely) has been interpreted by the Nevada Division of Minerals staff. We are not landmen, this is an interpretation meant to show general trends regarding lands withdrawn from mineral entry.

This continues to be a work in progress.

If you have any additional information you would like to add to the maps please email Lucia Patterson lpatterson@minerals.nv.gov



Nevada Historic Production Values

Select a Year
1947

All Values in Millions

Select a by typing in a year value or using the slider from the box in the upper right hand corner. A scroll bar is available at the top of the Nevada Mineral Production Values chart that can be used to zoom in on the chart. Hover above a column to view

1859 2021

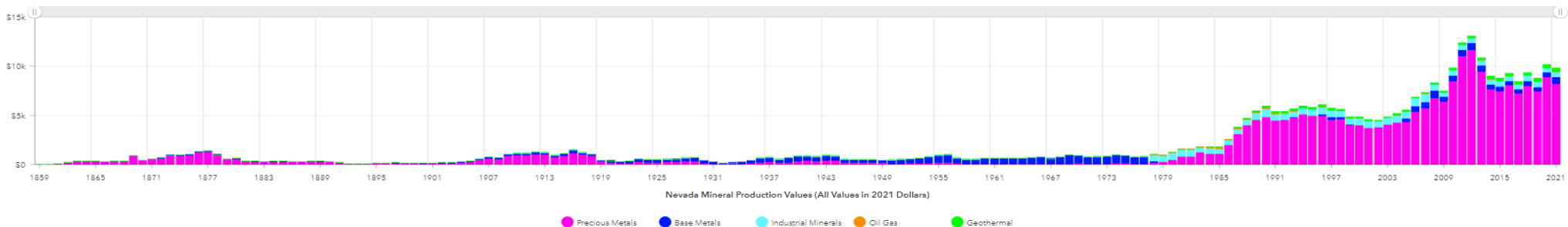
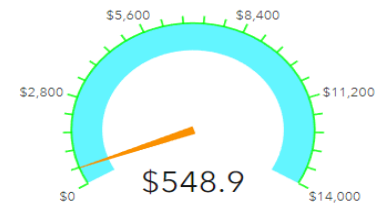
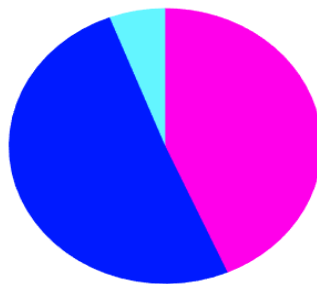
1947

Set to minimum Set to maximum

See references section for data sources

Search...

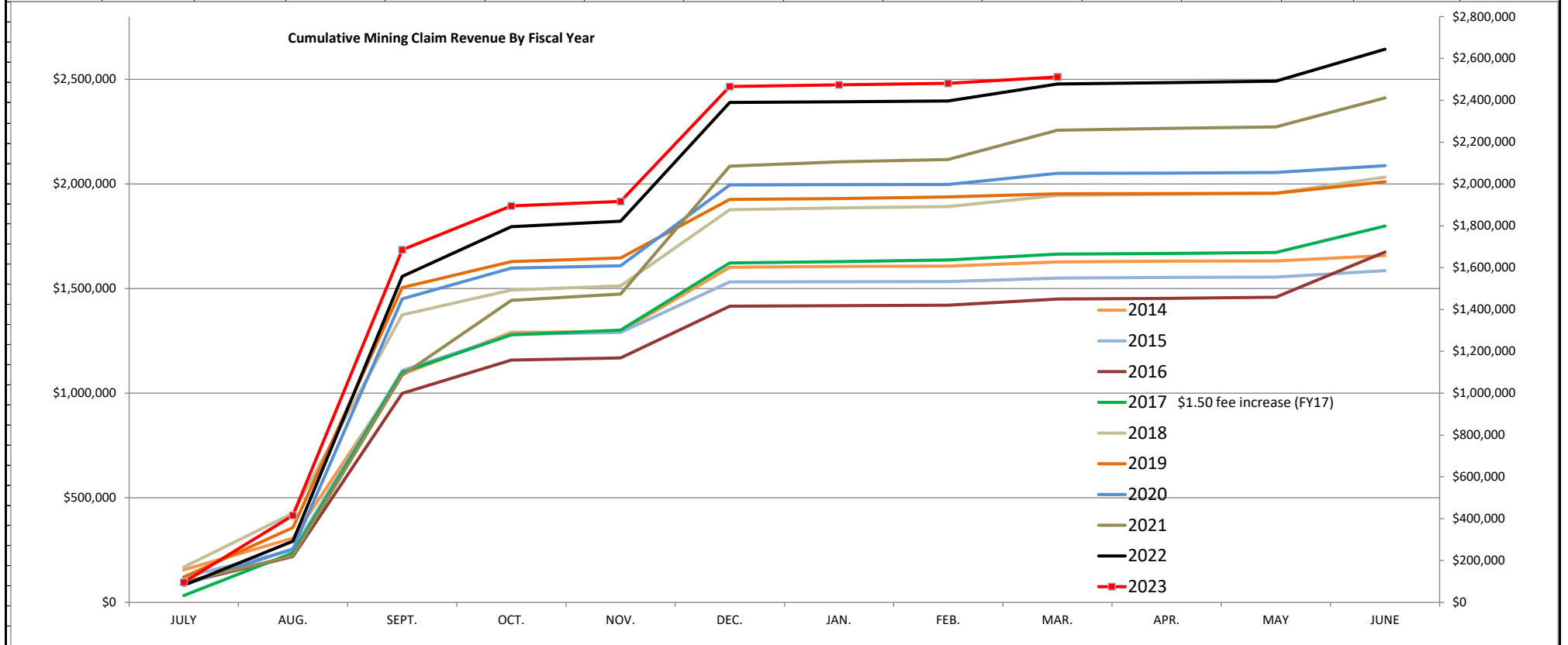
- Gold \$8,180,000.00/mt
- Gold \$34.71/oz
- Silver \$169,000.00/mt
- Silver \$0.72/oz
- Copper \$3,420.00/mt
- Copper \$21.27/lbs
- Molybdenum \$13,300.00/mt
- Antimony \$5,390.00/mt
- Iron \$25.11/mt
- Lead \$2,360.00/mt
- Lithium \$/mt
- Magnesium \$414.00/mt
- Manganese \$374.98/mt
- Mercury \$17,700.00/mt
- Tungsten \$23,800.00/mt



IV. OLD BUSINESS

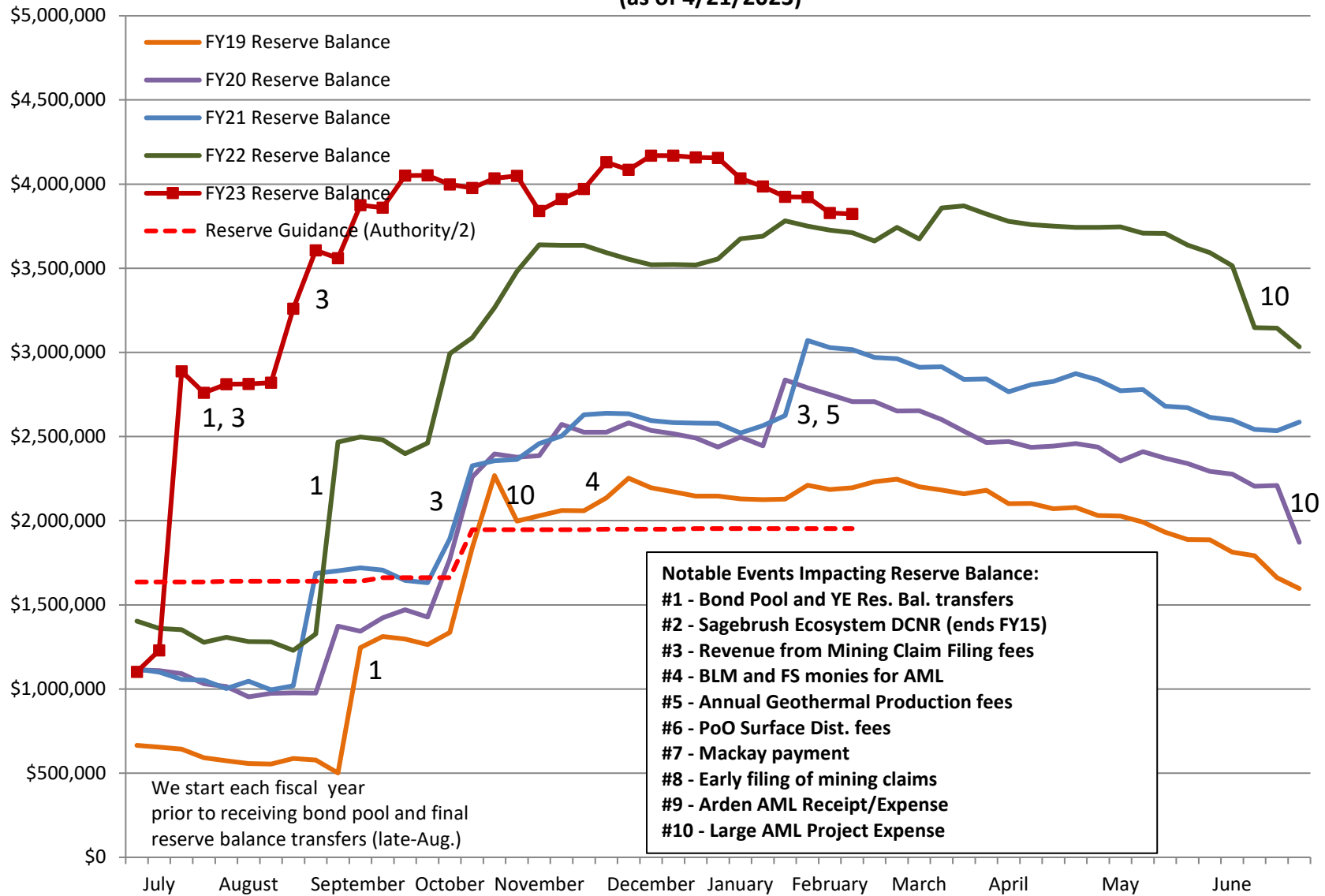
Fiscal Year Cumulative Mining Claim Revenue By Month

Fiscal Year	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	\$ YOY	Total Claim Filings
2023	\$96,380	\$415,580	\$1,685,420	\$1,894,890	\$1,916,910	\$2,465,650	\$2,474,100	\$2,481,420	\$2,511,550					
2022	\$81,700	\$292,160	\$1,557,970	\$1,796,170	\$1,821,730	\$2,389,380	\$2,392,810	\$2,396,650	\$2,477,620	\$2,483,930	\$2,491,520	\$2,644,120	9.6%	264,412
2021	\$97,190	\$222,510	\$1,085,820	\$1,443,520	\$1,474,160	\$2,085,310	\$2,105,650	\$2,116,960	\$2,257,030	\$2,265,460	\$2,273,190	\$2,411,530	15.5%	241,153
2020	\$83,720	\$256,070	\$1,450,980	\$1,597,760	\$1,609,370	\$1,995,430	\$1,997,180	\$1,997,950	\$2,050,880	\$2,051,660	\$2,054,840	\$2,087,470	3.7%	208,747
2019	\$121,080	\$357,900	\$1,504,660	\$1,628,710	\$1,646,750	\$1,926,020	\$1,930,460	\$1,937,910	\$1,953,500	\$1,954,140	\$1,955,820	\$2,010,510	-1.1%	201,051
2018	\$168,630	\$425,870	\$1,374,840	\$1,493,090	\$1,512,540	\$1,876,580	\$1,885,390	\$1,892,210	\$1,945,520	\$1,951,080	\$1,955,670	\$2,032,980	13.0%	203,298
2017	\$32,650	\$236,939	\$1,099,584	\$1,278,775	\$1,301,335	\$1,622,635	\$1,629,225	\$1,636,885	\$1,664,685	\$1,668,165	\$1,672,765	\$1,799,065	7.4%	179,935
2016	\$92,072	\$219,020	\$999,082	\$1,158,219	\$1,168,827	\$1,415,769	\$1,418,574	\$1,420,520	\$1,450,134	\$1,453,118	\$1,458,388	\$1,674,866	5.6%	197,043
2015	\$120,352	\$250,079	\$1,108,417	\$1,280,687	\$1,290,241	\$1,531,683	\$1,532,431	\$1,533,349	\$1,550,247	\$1,553,571	\$1,555,211	\$1,585,539	-4.4%	186,534
2014	\$155,703	\$306,646	\$1,090,754	\$1,290,496	\$1,294,661	\$1,602,233	\$1,606,177	\$1,607,656	\$1,627,283	\$1,631,235	\$1,632,417	\$1,657,789	-10.7%	195,034
FY23 data as of 4/27/2023 Pending: DO, ES, and WP														
12 Counties pay quarterly: CC, CH, DO, ES, HU, LA, LI, LY, NY, PE, ST and WP														
*Claim payments in June 2016 are skewed due to early payments ahead of \$2 fee increase														



NDOM Reserve Balance by Week for FY19 - FY23

(as of 4/21/2023)



CMR-Division of Minerals - 2022-2025 Budgets and Forecasts (as of 4/26/2023)

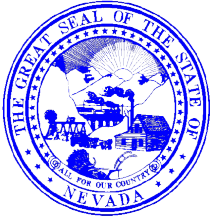
Revenue

GL #	Description	FY22 Actuals	FY23 Authority	FY23 YTD	FY23 Forecast	FY24 Forecast	FY25 Forecast	Remarks
2511	Balance Forward Previous Year	2,624,665	3,031,285	3,031,285	3,031,285	2,641,937	2,259,452	
3578	BLM Grant	200,000	200,000	155,425	200,000	350,000	350,000	BLM grant funding AML work. \$200k grant awarded 9/6/21, anticipate similar amount thru FY25
3580	USFS Assistance Agreement	80,349	150,000	0	25,000	80,000	80,000	USFS assistance funding AML work
3584	NPS Grant	77,787		0	0	0	0	National Park Service funding for AML work (unknown future funding)
3654	Oil Production Fee	22,668	37,907	24,609	36,000	36,000	36,000	\$0.15 per bbl fee for oil production annually (\$0.05 from 12/20 - 10/21)
3717	Oil Permit Fees	4,400	3,300	3,000	3,000	3,000	3,000	Permit fees for new oil and gas wells
3718 & 3727	Mining Claim Fees	2,644,100	2,114,150	2,485,110	2,750,000	2,640,000	2,534,400	Mining Claim fees @ \$10/claim filing, forecast for FY23, -4% for FY24, -4% for FY25
3736	Geothermal Fees	156,550	160,800	179,300	180,000	180,000	180,000	Annual fee and permit fees for geothermal wells and permitting
3740	Dissolved Mineral Resource Fees	8,000	2,000	4,000	8,000	8,000	8,000	Permit fees for DMR (lithium brine) well permits
3770	Surface Disturbance Fee (AML)	92,080	81,740	14,380	16,980	80,000	80,000	\$20 per acre fee for new mine surface disturbance, FY23=12-year avg.
4011	Copy Machines - Sales to Public	0	27	0	0	0	0	Copying charge for Public Records Request
4027	Publication Sales (AML signs)	2,937	1,210	3,196	4,000	4,000	4,000	AML signs sold at office
4218	Credit Card Rebate	294			294	294	294	
4311	Medallion Royalty Fee	253	1,304	0	253	253	253	Fee for minting of medallions with State seal remitted to NDOM
4326	Treasurer's Interest	24,971	40,990	29,631	40,000	40,000	40,000	Interest we receive for money deposited with Treasurer
4611	Furlough Reimbursement		13,434	13,434	13,434	0	0	One-time ARPA reimbursement for FY22 furloughs
4620	Transfer from Recl. Bond Pool	58,057	80,793	0	30,000	30,000	30,000	Fee from Bond Pool for NDOM Management
4669	CARES Act Reimbursement	0			0	0	0	Federal funds used to offset pandemic related expenditures
REVENUE TOTAL		\$5,997,111	\$5,918,940	\$5,943,370	\$6,338,246	\$6,093,484	\$5,605,399	

Expenditures

CAT #	Description	FY22 Actuals	FY23 Authority	FY23 YTD	FY23 Forecast	FY24 Forecast	FY25 Forecast	Remarks
01	Personnel (Sal.,WC, PERS,OT)	1,183,314	1,315,261	836,928	1,342,893	1,545,613	1,635,150	FY22/23 is as in Leg-Approved Budget plus \$40k (OT), 1% COLA (FY23), 10% COLA in FY24, 4% COLA in FY25, FY24 +86k new GIS (9 mos.), FY25 +114k (GIS)
02	Out-of-State Travel (Staff, CMR)	16,381	28,605	24,512	27,000	33,642	38,357	FY23 as in budget, FY24/25 as proposed
03	In-State Travel (Non-AML)	11,966	12,900	9,195	12,900	15,425	15,425	Travel, lodging and per-diem within State, as in budgets
04	Carson Operating Expenses	105,272	113,134	97,259	113,134	122,992	122,992	Rent, Operating supplies, as in budgets
05	Equipment	1,210	1,706	860	1,706	3,960	3,999	Desks, chairs, as in budget
08	CMR Travel (In-State)	1,712	7,128	307	7,128	7,128	7,128	As in Budget
09	Special Projects (Mackay, NBMG)	152,016	539,207	199,254	307,952	477,842	144,200	FY23 \$97.2k (NBMG-base contract), \$27k (PDAC), \$5k (AME), \$15k (NvMA Ed), \$15k (McCaw), \$18,262 (NBMG Mining District Files Scanning), \$125,490 SOSA Marketing, \$10k YESCO billboards FY24-\$97.2k (NBMG base), \$19,970 (NBMG Scanning), \$43.2k (NBMG Soda Lake Geo), \$37.8k (NBMG-RRV), \$37.8k (NBMG-Li); \$146k MCoE; \$47k (PDAC/AME/NvMA Ed); \$10k YESCO billboards; \$61,679 (GBSSRL equipment match) FY25-\$97.2k (NBMG base), \$47k (PDAC/AME/NvMA Ed)
14	Las Vegas Operating Expenses	41,420	46,442	40,267	46,442	41,552	42,479	As in budgets
17	Fluid Minerals	12,986	16,983	12,791	11,983	18,955	18,955	Field expenses for OGG and DMRE, as submitted in State Budget
18	AML Support (per diem, trucks, fuel, AML supplies and travel, SOSA supplies)	134,367	239,174	198,194	239,174	263,091	220,091	Up to 8 summer interns and 4 winters FY23-25; includes one new truck FY24
26 & 82	Computer and IT	34,411	30,429	26,102	30,429	45,113	24,132	Computer hardware/replacements; EITS services and support
30	Training	5,075	6,764	2,155	6,764	8,225	8,225	ESRI and other training
39	AML Enhancements(contracts, equip.)	1,133,857	1,076,806	630,000	1,076,806	1,159,800	1,158,600	\$960.5k/yr contracted AML closure and related work. \$50k/yr CL Cty revisits (thru 23), \$50k/yr geo analysis, \$100k/yr cultural surveys, \$20k/yr helicopter surveys, \$24.5k/yr wildlife surveys
42	Public Agency AML Securing		400,000	0	400,000	0	0	Any unspent funds from FY23 would be transferred to FY24
87 & 88 & 89	Cost Allocations (State, Purchasing, AG)	90,693	71,998	43,717	71,998	90,693	90,693	Purchasing assessment, AG cost allocation, State cost allocation
EXPENDITURE TOTAL		\$2,924,679			\$3,696,309	\$3,834,032	\$3,530,426	
86	Reserve - Balance Forward to Next Year	\$3,072,432			\$2,641,937	\$2,259,452	\$2,074,973	
		\$1,467,809			\$793,783	\$342,436	\$309,760	Reserve Amount in excess of "50% of Expenditures" guidance

STAFF REPORTS



JOE LOMBARDO
Governor

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MICHAEL VISHER
Administrator

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MONTHLY ACTIVITY REPORTS
January 2023

Administrator (Mike Visher):

1. Answered questions from operators and drillers conducting lithium brine exploration regarding timing of abandonment, reporting, and requests for extensions.
2. Reviewed and made edits to the draft NBMG 2021 Mineral Industry Report.
3. As chair of the State Mapping Advisory Committee, submitted a letter of proposal for STATEMAP funding to the USGS.
4. Provided a presentation on state lithium brine exploration regulations at the Nevada Water Resources Association Conference Mine Water Management Symposium.
5. Fulfilled realtor requests for information on mineral estates for parcels in Lyon and Elko counties.
6. Attended AME Roundup in Vancouver and provided information to visitors at our exhibit booth; approximately 6,000 attendees.
7. Met with staff from WestLand Engineering and Environmental Services to explain the geothermal permitting process and workflow.
8. Participated in interviews with Nevada Business Week and The Nevada Independent on the state of mining in Nevada and lithium exploration, respectively.
9. Meetings attended: Rhyolite Ridge Public Scoping, SharePoint Construction webinar, PDAC planning, Board of Examiners, Baker Hughes, IOGCC Orphan Well Cementing webinar, BLM Solar EIS Scoping, NDOM Staff, Fiscal Note Training, LCB Policy Analysts, NREL Geothermal Regulatory Working Group, WGA Heat Beneath Our Feet, and BLM Fluid Minerals.

Deputy Administrator (Rob Ghiglieri):

1. Bond pool activity in January consisted of one notice-level decrease and one release.
2. With Valerie, tracked and managed bond pool payments for the December notice level annual premium payment and quarterly plan level payments.
3. Attended a three-day BLM AML training course. Presented the NDOM AML program and database.
4. Received one of the two new AML trucks. Submitted paperwork for excess of the 2011 and 2012 AML trucks, waiting for scheduled excess.
5. Submitted the AML wildlife contract between Western EcoSystems Technology (WEST) and NDOM to GFO for approval.
6. Met with the Division's Legislative Counsel Bureau contacts for the upcoming legislative session.
7. Attended an EPA presentation on mining for regions 8, 9, and 10.
8. Attended a Top Energy webinar on "Best Practice Considerations for Plugging Idle and Orphan Wells".
9. Helped Valerie on a work program for CAT 17 (Fluid Minerals).
10. Met with NDEP's AML team to discuss funding and 2023 field work schedules with Sean.
11. Updated the NDEP and NDOM AML MOU. It is currently awaiting approval at NDEP for signatures in February.
12. Reviewed and approved multiple invoices from EPS regarding AML work from October – January.

13. Attended and provided input on the monthly meeting with the OEPC and IMCC to review and discuss new national Hardrock AML program. We discussed the FY23 funding and decided to hold another meeting with various other states and tribes to confirm opportunities and paths forward that best fit the nation.
14. End-of-January financial summary of bond pool:

Reclamation Bond Pool Status Report		Current to: 1/31/2023						
Plan-level Bonds -Company	Project	Entry Date	Bond Amount	% of Pool	Comments	Deposit	Premiums Paid	% Bond Whole
Allegiant Gold	Eastside	11/19/2021	\$163,064.00	8.32%		\$84,036.27	\$21,476.40	64.7%
Custom Details	Bovie-Lew	11/17/2006	\$14,643.00	0.75%		\$7,328.32	\$19,078.63	180.3%
New Gold Nevada (NV Rae)	Black Rock Canyon	4/15/2005	\$66,673.00	3.40%		\$33,715.62	\$173,375.94	310.6%
SNL Sand LLC	Money Pit	5/21/2004	\$430,088.00	21.94%		\$233,171.91	\$303,938.24	124.9%
Western Mine Dev.	Victorine Mine	5/24/2000	\$45,875.39	2.34%	terminated	\$0.00	\$0.00	
Western Mine Dev.	Kingston Mill	5/24/2000	\$100,450.00	5.12%	terminated	\$0.00	\$0.00	
TNT Venture	Big Canyon	1/27/2010	\$78,161.00	3.99%		\$39,615.03	\$52,492.92	117.8%
Dun Glen Mining	Dun Glen	8/11/2014	\$439,240.00	22.40%		\$238,536.99	\$216,077.41	103.5%
Statewide Notice-Level	Various	various	\$603,168.00	30.76%	46 Notice-level bonds			
Total Bond Amount			\$1,960,645.39					
Cash in Pool's Account (From BSR - 1/31/2023)			\$3,053,113.80					
Unfunded Amount			-\$1,092,468.41					
Percent funded			155.7%					

Chief, Abandoned Mine Lands Program (Sean Derby):

1. EPS continues to work on the Pine Nuts hard closure project involving 68 sites in Carson City, Douglas, and Lyon counties.
2. EPS completed 209 AML secured hazard revisits as part of the seasonal Southern Nevada revisit program in Nye County.
3. Motus Media presented final results for the Stay Out, Stay Alive digital media campaign including views from targeted web pages, YouTube, and social media sites. NDOM content reached 2.3 million viewers in western United States because of the campaign.
4. AML staff provided an annual report to the US Forest Service including all AML field work on HTNF lands.
5. AML staff presented a SOSA database showcase and utility training to regional BLM headquarters in Reno.
6. AML provided database support to NDEP, granting additional staff access to NDOM's SOSA database.
7. AML staff developed project lists and released project data to relevant contractors for required NEPA surveys supporting the AML hard closure program.
8. AML staff completed the winter intern season focusing on inventory and securing in Clark County
9. AML staff began intern recruiting efforts with 12 regional universities and community colleges.

	Sites Inventoried	Sites Secured	% Secured
Since 1987	24,626	20,428	82%
2023 To Date	24	4	16%

GIS/ Field Specialist (Lucia Patterson):

1. Worked on land withdrawal research merging the two data sets I had generated.
2. Generated sage-grouse geospatial datasets for BLM.
3. Compiled presentation for a Career Colloquium through Nevada State College which I presented virtually.
4. Updated mining claims on the open data site.
5. Worked on some data fixes for the NBMG 2021 Mineral Industry report.
6. Attended AME Roundup in Vancouver.
7. Updated OGG production data on the open data site and created a new web application for OGG.
8. Presented OGG data and the open data site at the Nevada Petroleum and Geothermal Society monthly meeting.
9. Started some teachers workshop preparations.
10. Updated notices and plans on the open data site.

AML/Fluid Minerals Field Specialist (Dustin Holcomb):

1. Orchestrated the first day training of the winter interns (*Winterns*). Loaded data onto their field tablets, printed paper maps, and ensured that they had all the equipment necessary to perform their duties in the field safely and effectively.
2. Monitored the Winterns locations and performance during their three weeks of employment, of which they worked 16 days.
3. Contributed toward scheduling NDOM attendance to two NSHE career fairs in a bid to hire summer interns.
4. Responded to three AML hazard securings by claimant.
5. Provided GIS data on identified AML hazards for three public data requests.
6. Reviewed and approve two DMRE Notices.
7. Help facilitate a contractor's research into historic geothermal drilling in the Silver Peak area.
8. Share information with an oil exploration company doing research.
9. Secure a quote and order modifications for the two new 2023 Ford F-150 field trucks. This included ARE bed caps, deck bed organization systems, and new off-road tires for all vehicles.
10. Attended an IOGCC webinar on Cement Used in Geothermal and Oil Well Applications.
11. Attended a WGA webinar on Enhanced Geothermal Systems.
12. Attended a Top Energy webinar on Plugging Idle and Orphan Wells.
13. Registered for Top Energy Oil and Gas Inspector Training, 2023.
14. Attended the NWRA Lithium Brine Mine Water Management Symposium.
 - a. Completed the NWRA State Water Rights Course

AML/Public Outreach – Southern Nevada Programs Manager (Garrett Wake):

1. Supervised three AML winter interns in southern Nye and northern Clark counties over the first two weeks of January; 210 hazards were visited.
2. Revisited 29 hazards with NDOM contractor EPS in northeast Clark County in preparation for the Logandale AML Hard Closure Project.
3. Continued to manage the Southern Nevada Revisit Contract with EPS; approximately 535 abandoned mines visited since December 2022.
4. Completed the one-day NV Certified Public Manager Capstone Initiation course.
5. Handled necessary logistics for the Nevada booth at the PDAC Conference, Toronto, Canada. Updated four large graphics panels and submitted for printing.
6. Updated the 2023 AML Summer Internship Recruitment flyer and presentation. Emailed information to southern Nevada colleges: UNLV, CSN, and Nevada State College.
7. Updated the NDOM / CMR brochure and submitted for printing.
8. Assisted D. Selig in obtaining quotes for three laptops. Reviewed hardware specifications and made recommendations.
9. Participated in an All About Mining website update meeting, NDOM quarterly staff meeting, NvMA Education Committee meeting, McCaw School of Mines board meeting, monthly Remediation of Abandoned Mine Sites (RAMS) meeting with Terra Spectra, and a PDAC committee meeting.

AML/Public Outreach and Education – Southern Nevada Field Specialist (Carol Shelton):

1. Completed STEAM videos in All About Mining.
2. Participated in field visit outside of Beatty with Garrett and the winter interns.
3. Completed all New Hire training except Defensive Driving and Workplace Violence which are scheduled.
4. Reviewed with Garrett some of the K-12 props.
5. Read last several Commission meetings minutes.
6. Reviewed and provided comments on presentations for Rob and prepared a new activity for one of his presentations.
7. Studied and reviewed concepts relating to ArcGIS.
8. Began studying for a drone pilot license.
9. Scheduled to speak at several student Career Days.
10. Developed a spreadsheet with all CCSD high schools and middle schools including points of contacts.
11. Contacted every high school via email in Southern Nevada to let them know about our educational and outreach services.
12. Contacted every middle school via email in Southern Nevada middle schools so that they can be contacted about our educational and outreach services.

13. Scheduled approximately 25 educational and outreach activities.

Fluid Minerals Program Manager (vacant):

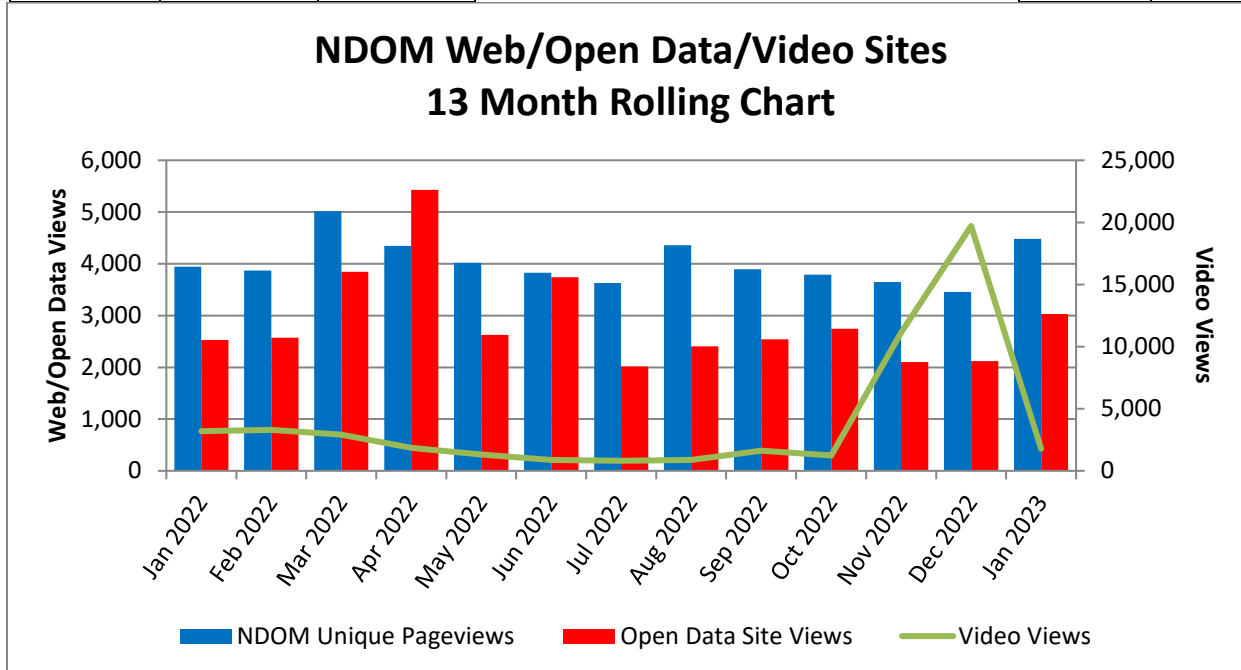
1. One geothermal permit was issued in January, the Star Peak production well 42B-28 in Pershing County on a BLM lease.
2. Five geothermal sundries and no oil sundries were processed in January.
3. One DMRE borehole notice was approved in January, located in Lida Valley, Esmeralda County.
4. Coordinated with BLM state and field offices to monitor drilling operations, review permit applications and sundries for fluid minerals.
5. Active geothermal drilling operations in January: San Emidio (Ormat), Blue Mountain (Fervo), Fish Lake Valley (Open Mountain Energy), and Crescent Valley (Ormat).
6. No well inspections occurred in January Status of well inspections:

FY 2023 Well Inspections	Total Wells	Wells Needed for FY23	Wells Inspected	% of Total Needed	Wells Remaining
Geothermal (20 Locations)	469		170		
Oil (23 Locations)	122		17		
Totals	591	197	187	95%	10

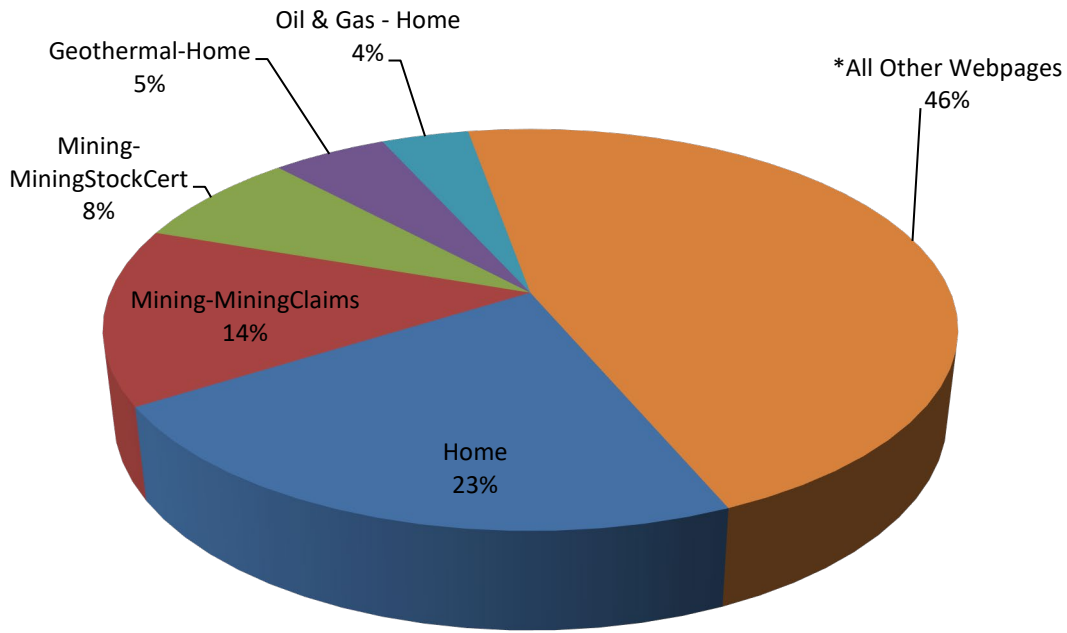
Website Activity:

Period	Website Pageviews	Website Unique Pageviews	Website Top 5 Pageviews	Open Data Site Views	Video Views
Jan 2023	5,954	4,481	Home, Mining-MiningClaims, Mining-MiningStockCert, Geothermal-Home, and Oil & Gas-Home	3,027	1,787
Jan 2022- Jan 2023	70,685	52,280		37,698	50,627

**NDOM Web/Open Data/Video Sites
13 Month Rolling Chart**



NDOM Website - Top 5 Unique Page Views for January 2023

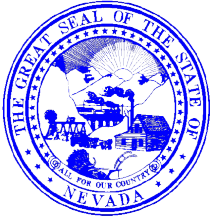


*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

Top Visitors

Jan-2023	Country	United States, Canada, Mexico, United Kingdom/India, and (unknown)
	State	Nevada, California, Texas, Oregon, and Washington
	City	(unknown), Las Vegas, Reno, Los Angeles, and Carson City

	<u>Video Views</u> <u>in</u> <u>January</u> <u>2023</u>	<u>Top 5 Video Views</u>	<u>Dist</u> <u>Learn</u> <u>Trkr #</u> <u>of</u> <u>Classes</u>	<u>No.</u> <u>NV</u> <u>45%</u>	<u>So.</u> <u>NV</u> <u>55%</u>
Without Jimmy King Videos	1,291	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Ore Deposits an Overview; 4) Weathering & Erosion Part 1; & 5) A General Overview... Earth and Nevada Geological History.	52	23	29
With Jimmy King Videos	1,787	1) Mining in Nevada - 18:22 mins. (both videos); 2) Jimmy King KOBI Full, 3) The Basics of Mineral Identification; 4) Ore Deposits an Overview; & 5) Weathering & Erosion Part 1.	71	32	39



JOE LOMBARDO
Governor

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COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
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MICHAEL VISHER
Administrator

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February 2023
MONTHLY ACTIVITY REPORTS

Administrator (Mike Visher):

1. Met with Governor's Finance Office to discuss interest in utilizing Administrative Fiscal Services on a cost-allocation basis starting next fiscal year. Held follow-up meeting at with their staff and Rob and Val to discuss specifics and express desire to move forward.
2. Attended and presented at Clean Energy Conference in Reno.
3. Six applications were received for the Fluid Minerals Manager position, two were interviewed, and Dustin Holcomb accepted the position.
4. Prepared presentation for use at Mineral and Land Research Institute annual meeting in March.
5. Prepare and ship materials for attendance at PDAC in Toronto in March.
6. Met with DCNR Director Settlemeyer and Deputy Administrator Etchegoyhen to collaborative agency interactions and status of existing MOUs.
7. Interviewed by Elko Daily Free Press for agency updates.
8. Worked with Dustin and Valerie to respond to fluid mineral related permits, sundries, and information requests.
9. Meetings attended: CMR, Governor's Cabinet, PDAC planning, Board of Examiners, NvMA Public Policy, Smart From the Start, NREL Geothermal Regulatory Working Group, NJMAC, Mining Day at the Legislature, Mackay Executive Advisory Board, and BLM Fluid Minerals.

Deputy Administrator (Rob Ghiglieri):

1. Bond pool activity in February consisted of two notice-level bond increases.
2. Attended and presented at the quarterly CMR Meeting. Compiled the CMR minutes.
3. With Sean, coordinated an NDOM AML planning meeting to discuss plans and goals for the 2023 field season.
4. With Mike, prepared the Division's presentations to both the Senate and Assembly Natural Resource Committee meetings.
5. Held a kick-off meeting with the new AML wildlife contractor, Western EcoSystems Technology (WEST). Discussed the goals and plans for this contract.
6. Met with NDEP's AML team to discuss AML database coordination and ability to share database platforms.
7. Attended the Mining Oversight and Accountability Commission meeting.
8. With the NAAMLPLP leadership and IMCC, compiled an agenda and chaired the NAAMLPLP Hardrock Committee meeting in Jackson, WY.
9. Wrote a draft IJJA Section 40704 funding request letter for NAAMLPLP to send to the House Appropriations Committee. In March, this letter will come from the NAAMLPLP president and request funding for the new federal Hardrock AML program.
10. With Mike and Valerie, interviewed two candidates for the vacant Fluid Minerals Manager position.
11. Attended a meeting with Mike, DCNR Director Settlemeyer, and Deputy Director Etchegoyhen to discuss agency interactions.
12. In coordination with IMCC, met with Trout Unlimited to discuss their plans for releasing an updated version of the AML Good Samaritan Bill in Washington, DC.

13. With Lucia, worked with the USACE RAMS program to finalize the AML database scope of work for the new 5-year contract funded by RAMS.
14. With Sean, met with staff from the Humboldt-Toiyabe National Forest to initiate planning for the 2023 AML field season and beyond.
15. Helped Valerie modify the CAT 17 work program and re-submit.
16. End-of-February financial summary of bond pool:

Reclamation Bond Pool Status Report		Current to: 3/1/2023						
Plan-level Bonds -Company	Project	Entry Date	Bond Amount	% of Pool	Comments	Deposit	Premiums Paid	% Bond Whole
Allegiant Gold	Eastside	11/19/2021	\$163,064.00	8.29%		\$84,036.27	\$21,476.40	64.7%
Custom Details	Bovie-Lew	11/17/2006	\$14,643.00	0.74%		\$7,328.32	\$19,078.63	180.3%
New Gold Nevada (NV Rae)	Black Rock Canyon	4/15/2005	\$66,673.00	3.39%		\$33,715.62	\$173,375.94	310.6%
SNL Sand LLC	Money Pit	5/21/2004	\$430,088.00	21.87%		\$233,171.91	\$303,938.24	124.9%
Western Mine Dev.	Victorine Mine	5/24/2000	\$45,875.39	2.33%	terminated	\$0.00	\$0.00	
Western Mine Dev.	Kingston Mill	5/24/2000	\$100,450.00	5.11%	terminated	\$0.00	\$0.00	
TNT Venture	Big Canyon	1/27/2010	\$78,161.00	3.97%		\$39,615.03	\$52,492.92	117.8%
Dun Glen Mining	Dun Glen	8/11/2014	\$439,240.00	22.33%		\$238,536.99	\$218,273.61	104.0%
Statewide Notice-Level	Various	various	\$603,168.00	30.67%	46 Notice-level bonds			
Total Bond Amount			\$1,966,701.39					
Cash in Pool's Account (From BSR - 3/1/2023)			\$3,069,945.11					
Unfunded Amount			-\$1,103,243.72					
Percent funded			156.1%					

Chief, Abandoned Mine Lands Program (Sean Derby):

1. Contractor EPS completed four securings in the immediate vicinity of a race route in Clark County ahead of a Southern Nevada Off-Road Event on February 17.
2. EPS continues with the seasonal Southern Nevada revisit program in Nye and Clark counties completing 56 revisits.
3. AML staff attended the NAAML P winter business meeting in Jackson Hole, WY and presented final results for the 2022 Stay Out Stay Alive digital media campaign. NDOM AML staff were added to the NAAML P Education and Outreach committee and will be working with other state and federal programs for future campaigns.
4. AML staff held a planning meeting with USFS and NDOM contractors for 2023 - 2024 hard closure projects designating six locations on HTNF ground in Mineral, Elko, White Pine, and Nye counties.
5. AML staff presented a SOSA database showcase and utility training to NDEP staff and granted elevated access for future collaboration.
6. AML staff continued development of project lists and released project data to relevant contractors for required NEPA surveys supporting the AML hard closure program on BLM ground including project in Lincoln and Nye counties.
7. AML staff coordinated with the BLM on posting an informational display at the Foreman Shaft in Virginia City. Agencies agreed on sign verbiage and graphics which have been submitted to BLM for production.
8. AML staff responded to public data request concerning AML features in Douglas, Lyon, Pershing, and Esmeralda counties.
9. AML end-of-February statistics:

	Sites Inventoried	Sites Secured	% Secured
Since 1987	24,679	20,434	82%
2023 To Date	77	10	12%

GIS/ Field Specialist (Lucia Patterson):

1. Created and sent out letters for the Annual Status and Production Reporting for mining operations, included mailings to the list of operators updated by the Mine Safety and Training Section. Entered production numbers from submitted reports.
2. Updated mining claims on the Open Data site.
3. Finished and gave a career talk to a Nevada State College Colloquium class.
4. Updated OGG maps showing leases and drill holes completed in the past year.
5. Updated lithium claims map showing claims activity in the last several years.
6. Worked on the Land Withdrawals/Mineral History web application, digitizing old data and compiling historical facts.
7. Presented Mining in Nevada and Cupcake Core Drilling at Pinion Elementary School.

- Submitted abstract to give a talk for the Mining Users Group at the ESRI users conference in July.

AML Field Specialist (P/T) and new Fluid Minerals Program Manager (Dustin Holcomb):

- Responded to one AML hazard securing by claimant.
- Completed annual MSHA 5000-32 Underground Mining refresher course.
- Researched, on behalf of a public data request, the history of oil wells drilled in Fish Lake Valley from the 1920s.
- Prepared presentation and class materials for the Southern Nevada Teachers Workshop.
- Promoted the summer internship program at UNR’s STEM Career Fair.
- Answered questions regarding requirements for domestic geothermal well development.
- Accepted position as Fluid Minerals Program Manager and relocated to new office.
- Inventoried the number of plugged and/or abandoned geothermal wells in the state.
- Reviewed two sundries for geothermal wells.
- Attended BLM-NDOM Fluid Minerals coordination meeting.
- Registered for TOP Energy Training course.
- Approved one DMRE NOI to drill.
- Active geothermal drilling operations in February: Blue Mountain (Fervo), Star Peak (Open Mtn Energy), and Colado (Ormat).
- No well inspections occurred in February. Status of well inspections:

FY 2023 Well Inspections	Total Wells	Wells Needed for FY23	Wells Inspected	% of Total Needed	Wells Remaining
Geothermal (20 Locations)	469		170		
Oil (23 Locations)	122		17		
Totals	591	197	187	95%	10

AML/Public Outreach – Southern Nevada Programs Manager (Garrett Wake):

- Conducted three classroom presentations to high school geoscience classes on minerals education and dangers of AML; approximately 60 students and staff in attendance.
- Conducted one presentation at a monthly Southern Nevada Gem and Mineral Society meeting on the dangers of AML; approximately 100 participants in attendance.
- Continued to manage the Southern Nevada Revisit Contract with EPS; approximately 56 abandoned mines visited in February 2023. Prepared a fencing project in the southern Spring Mountains to follow up revisit work.in March-April 2023.
- Toured the Equinox Gold Castle Mountain Mine in San Bernadino County, CA in preparation for the 2023 Southern Nevada Teachers Workshop.
- Completed the four-day NV CPM Crucial Accountability course.
- Completed and submitted to Risk Management the annual NDOM Safety Report.
- Assisted M. Visher in preparing customs documentation and shipping supplies to the Nevada PDAC conference booth.
- Participated in a CMR meeting, NDOM quarterly staff meeting, NDOM AML staff meeting, AML intern work-prioritization meeting, and two PDAC committee meetings.

AML/Public Outreach and Education – Southern Nevada Field Specialist (Carol Shelton):

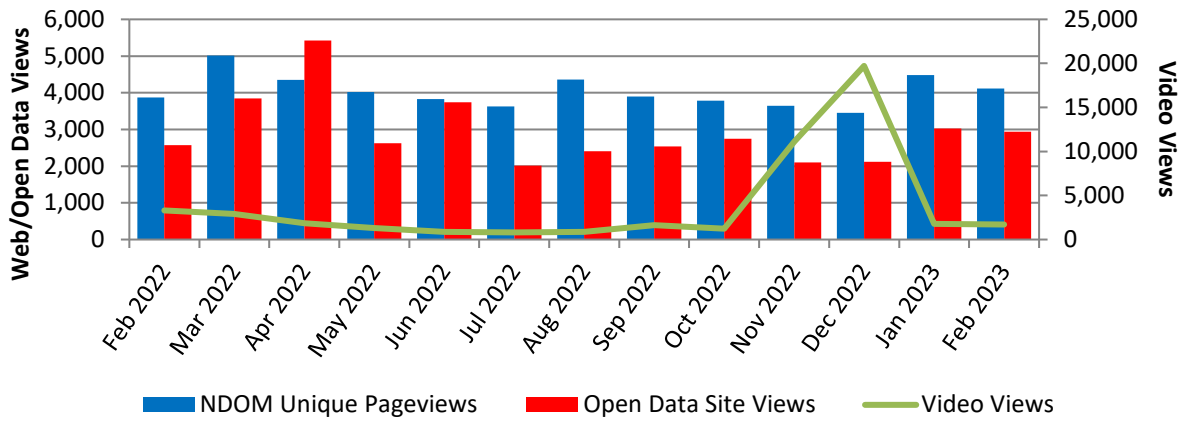
- Attended CMR meeting in Reno.
- Contacted nearly all Region 1 elementary schools in CCSD (approximately 65) letting them know of our availability for Career Day and Geoscience presentations.
- Participated in Career Day at Rundle ES. Interacted with approximately 360 students.
- Developed two new PowerPoint presentations on minerals and mining.
- Six Career Day presentations at Deskin ES for kids second through fourth grade. Attended by approximately 170 students.
- With Garrett Wake, conducted three geoscience presentations with a hands-on activity at Veterans Tribute High School.
- Completed populating spreadsheet with all available CCSD counselor contact information.
- In support of Nevada Reading Week, read a book on the open pit mining process and discussed minerals use to students at Rundle ES and Lake ES. In total, approximately 370 students were in attendance.

AML/Fluid Minerals Field Specialist (vacant):

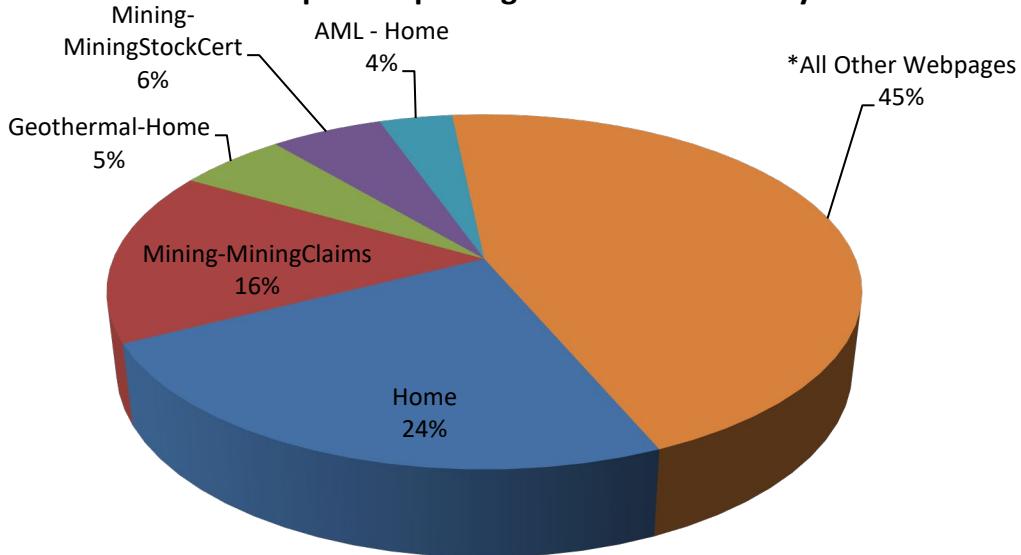
Website Activity:

Period	Website Pageviews	Website Unique Pageviews	Website Top 5 Pageviews	Open Data Site Views	Video Views
Feb 2023	5,506	4,112	Home, Mining-MiningClaims, Geothermal-Home. Mining-MiningStockCert, and AML-Home	2,942	1,694
Feb 2022-Feb 2023	70,782	52,449		38,114	49,127

**NDOM Web/Open Data/Video Sites
13 Month Rolling Chart**

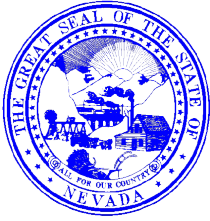


NDOM Website - Top 5 Unique Page Views for February 2023



*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

Top Visitors					
Feb-2023	Country	United States, Canada, Mexico, (unknown), and Australia			
	State	Nevada, California, Washington, Texas, and Colorado			
	City	(unknown), Las Vegas, Reno, Carson City, and Los Angeles			
	<u>Video Views</u> <u>in</u> <u>February</u> <u>2023</u>	<u>Top 5 Video Views</u>	<u>Dist</u> <u>Learn</u> <u>Trkr #</u> <u>of</u> <u>Classes</u>	<u>No.</u> <u>NV</u> <u>45%</u>	<u>So.</u> <u>NV</u> <u>55%</u>
Without Jimmy King Videos	1,407	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Weathering & Erosion Part 1; 4) Weathering & Erosion Part 2; & 5) Ore Deposits an Overview.	56	25	31
With Jimmy King Videos	1,694	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Weathering & Erosion Part 1; 4) Jimmy King KOBİ Full; & 5) Weathering & Erosion Part 2.	68	31	37



STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
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JOE LOMBARDO
Governor

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MICHAEL VISHER
Administrator

March 2023

MONTHLY ACTIVITY REPORTS

Administrator (Mike Visher):

1. Monitored release of legislative bills for potential agency impacts. Fiscal note analysis on 16 bills to date. Attended all Assembly and Senate Natural Resources committee hearings, virtually or in person.
2. Interviewed Peter Engh for the vacant AML Field Specialist position. He was offered the job and accepted with a starting date of May 15.
3. Met with interviewed candidates for the vacant AAIV position and hired Rebecca Tims, who started April 10th.
4. Provided the Governor's Office and Nevada's government affairs representatives in Washington, D.C. (Cassidy & Associates) with information on potential impacts resulting from the proposed Avi Kwa Ame National Monument.
5. Met with Assemblywoman Hardy and her staff regarding bill AB 315 and potential benefits/impacts to the geothermal industry.
6. Met with Nevada representatives of the Citizens Climate Lobby to discuss how the information we have, particularly on our website, can be used to educate legislators.
7. Interviewed by researcher for Wall Street Journal on lithium in Nevada.
8. Worked with Dustin and Valerie to respond to fluid mineral related permits, sundries, and information requests.
9. Meetings attended: Weepah Geothermal EA kickoff, Sagebrush Ecosystem Council, NPGS, Earth MRI, FRTC Churchill County Briefing, Governor's Cabinet, Board of Examiners, NvMA Public Policy, NREL Geothermal Regulatory Working Group, and BLM Fluid Minerals.

Deputy Administrator (Rob Ghiglieri):

1. Bond pool activity in March consisted of one notice-level decrease and the submission of notices for quarterly premium payments for plan-level participants.
2. Presented the Division's FY 24/25 budget at the Joint Meeting of the Assembly Committee on Ways and Means and the Senate Committee on Finance hearing.
3. Prepared supplies and classroom presentations for the Annual Southern Nevada Earth Science Workshop in Las Vegas. Presented the following classes: Elements for a Green Economy, Geothermal, and Build a Mine.
4. Held a meeting with NDOW and BLM to discuss plans moving forward for AML wildlife surveys on BLM lands.
5. Finalized and submitted a IJA Section 40704 funding request letter from NAAML P to the House Appropriations Committee. This letter was signed by the NAAML P president and requested funding for the new Hardrock AML program in the amount of \$300 million a year for the entire nation.
6. Worked with Mike and the Cassidy & Associates group on submitting House Appropriations requests to the offices of representatives Amodei and Lee for IJA Section 40704 funding.
7. Followed various bills in the legislature.
8. With Mike and Valerie, interviewed two candidates for the vacant Administrative Assistant IV position.
9. Presented to a 400-level Mining Engineering class at UNR on the nation's AML efforts and focused on a few Nevada specific projects with Paul Eckert from NDEP.

10. With Lucia, held the contract closeout meeting with TerraSpectra Geomatics in Las Vegas. This contract is for AML database development and management funded by the US Army Corps RAMS. RAMS has funded the AML database since 2014. RAMS is anticipating a new contract in mid-2023.
11. Received a final edit of the new National Hardrock AML Database by the USGS. Lucia and I will coordinate over the next few months to identify the best path forward for incorporating Nevada's AML data.
12. End-of-March financial summary of bond pool:

Reclamation Bond Pool Status Report		Current to: 4/1/2023						
Plan-level Bonds -Company	Project	Entry Date	Bond Amount	% of Pool	Comments	Deposit	Premiums Paid	% Bond Whole
Allegiant Gold	Eastside	11/19/2021	\$163,064.00	8.29%		\$84,036.27	\$21,476.40	64.7%
Custom Details	Bovie-Lew	11/17/2006	\$14,643.00	0.74%		\$7,328.32	\$19,078.63	180.3%
New Gold Nevada (NV Rae)	Black Rock Canyon	4/15/2005	\$66,673.00	3.39%		\$33,715.62	\$173,709.30	311.1%
SNL Sand LLC	Money Pit	5/21/2004	\$430,088.00	21.87%		\$233,171.91	\$306,088.68	125.4%
Western Mine Dev.	Victorine Mine	5/24/2000	\$45,875.39	2.33%	terminated	\$0.00	\$0.00	
Western Mine Dev.	Kingston Mill	5/24/2000	\$100,450.00	5.11%	terminated	\$0.00	\$0.00	
TNT Venture	Big Canyon	1/27/2010	\$78,161.00	3.97%		\$39,615.03	\$52,883.73	118.3%
Dun Glen Mining	Dun Glen	8/11/2014	\$439,240.00	22.33%		\$238,536.99	\$220,469.81	104.5%
Statewide Notice-Level	Various	various	\$603,168.00	30.67%	46 Notice-level bonds			
Total Bond Amount			\$1,966,701.39					
Cash in Pool's Account (From BSR - 3/31/2023)			\$3,096,038.29					
Unfunded Amount			-\$1,129,336.90					
Percent funded			157.4%					

Chief, Abandoned Mine Lands Program (Sean Derby):

1. Coordinated meetings with UTAH DNR's Division of AML providing guidance on executing a digital media PSA campaign.
2. Received project quotes and coordinated with Nye County staff toward implementing a hard closure project at the Johnnie Mine near Pahrump, NV.
3. Received assay info and a draft report for geological characterization of the Twin Buttes historic mining district.
4. Agency completed interviews of 23 candidates for the AML 2023 summer internship. Staff selected eight qualified candidates and one alternate.
5. Coordinated with BLM's Tonopah and Caliente field offices to move recent categorical exclusion requests forward for near term hard closures in Nye County.
6. Received FAA certification to conduct field recon drone (UAS) operations.
7. Took part in the Southern Nevada Teacher Workshop providing logistical support for volunteers and hosting three continuing education courses for participating teachers.
8. AML staff completed biannual claimant notification mailouts concerning unsecured hazards statewide.
9. AML end-of-March statistics:

	Sites Inventoried	Sites Secured	% Secured
Since 1987	24,695	20,473	83%
2023 To Date	93	39	42%

GIS/ Field Specialist (Lucia Patterson):

1. Finished compiling a land withdrawal and mineral production application for a presentation requested by Mineral and Land Research Institute.
2. Created a presentation and activities for the Understanding Climate Change class for the Las Vegas Earth Sciences Teachers workshop.
3. Attended and taught at the Las Vegas Earth Sciences Teachers workshop.
4. Entered all annual mine status and production data as it was received.
5. Recorded the Climate Change presentation to add to our Distance Learning Videos <https://youtu.be/foH-iq0EpI8>.
6. Updated open data site pages for: notices and plans, mining claims, mine fact sheets, and OGG leases.
7. Worked on a new script for generating OGG geospatial data for the agency.
8. Assisted with AML land research and the mailout.
9. Worked on modifying and editing the land withdrawal and mineral production application after receiving outside comments.

Fluid Minerals Program Manager (Dustin Holcomb):

1. Responded to three public AML data requests.
2. Coordinated data sharing with NDEP UIC program lead.
3. Responded to numerous inquiries regarding oil and gas drilling, geothermal permitting and drilling , and DMRE drilling.
4. Participated in the Las Vegas Teachers Workshop organizing and preparing supplies, transporting them to Las Vegas and back, and teaching three sessions.
5. Geothermal sundries approved:
 - a. Fish Lake Valley Injection testing sundries: permits 0344, 0349, 0362, 0376, 0377, 1507, 1508
 - b. Star Peak: directional drilling change sundry: permit 1551.
6. Geothermal permits issued: 1552, Star Peak Humboldt House 1.
7. Visited Fervo’s Blue Mountain 34(14-23)-22 well and witnessed various stimulation activities.
8. Attended the Division’s quarterly Safety Meeting
9. Conducted four well inspections in March. Current status of well inspections:

FY 2023 Well Inspections	Total Wells	Inspections Needed for FY23 (1/3 of Total)	Wells Inspected	% of Total Needed	Wells Remaining
Geothermal (20 Locations)	474		174		
Oil (23 Locations)	122		17		
Totals	596	199	191	96%	6

AML/Public Outreach – Southern Nevada Programs Manager (Garrett Wake):

1. Conducted 21 earth science or careers presentations in K-college classrooms; approximately 450 students and staff in attendance.
2. Taught three classes and led a field trip during the 2023 Southern Nevada Earth Science Teachers Workshop; approximately 120 teachers interacted with (some overlapped between classes).
3. Conducted the live introductory session for the 2023 Spring All About Mining: Mining for a STEAM Education virtual workshop; 33 teachers participated in the session and were added to the active roster. The course will be completed on May 19th, 2023.
4. Attended the PDAC conference over four days in Toronto, CA. Answered questions and provided information on Nevada’s mineral industry while manning the Nevada booth. Presented on the NDOM Open Data website to a small group of attendees. Interacted with a minimum of 60 conference attendees in total. Updated the [Nevada – Stake Your Claim. \(pdacnv.com\)](http://pdacnv.com) website.
5. Continued to manage EPS field crew as part of the Southern Nevada revisit and fencing contracts; 15 new hazards logged, 29 hazards secured, and 84 hazards revisited.
6. Provided the 2023 “Exceptional Earth Science Project” award and a gift certificate, donated by NvMA, to an outstanding earth science project at the Beal Bank Science Fair, UNLV.
7. Assisted NDOM AML staff in interviewing ten internship applicants.
8. Assisted NDOM staff in interviewing one applicant for the Field Specialist position in Carson City.
9. Participated in an NDOM AML staff meeting, NDOM Safety Committee meeting, AML letter mailout meeting, meeting with NV Energy representative on AML and renewable energy, Certified Public Managers mentor introduction meeting, and a McCaw School of Mines board meeting.

AML/Public Outreach and Education – Southern Nevada Field Specialist (Carol Shelton):

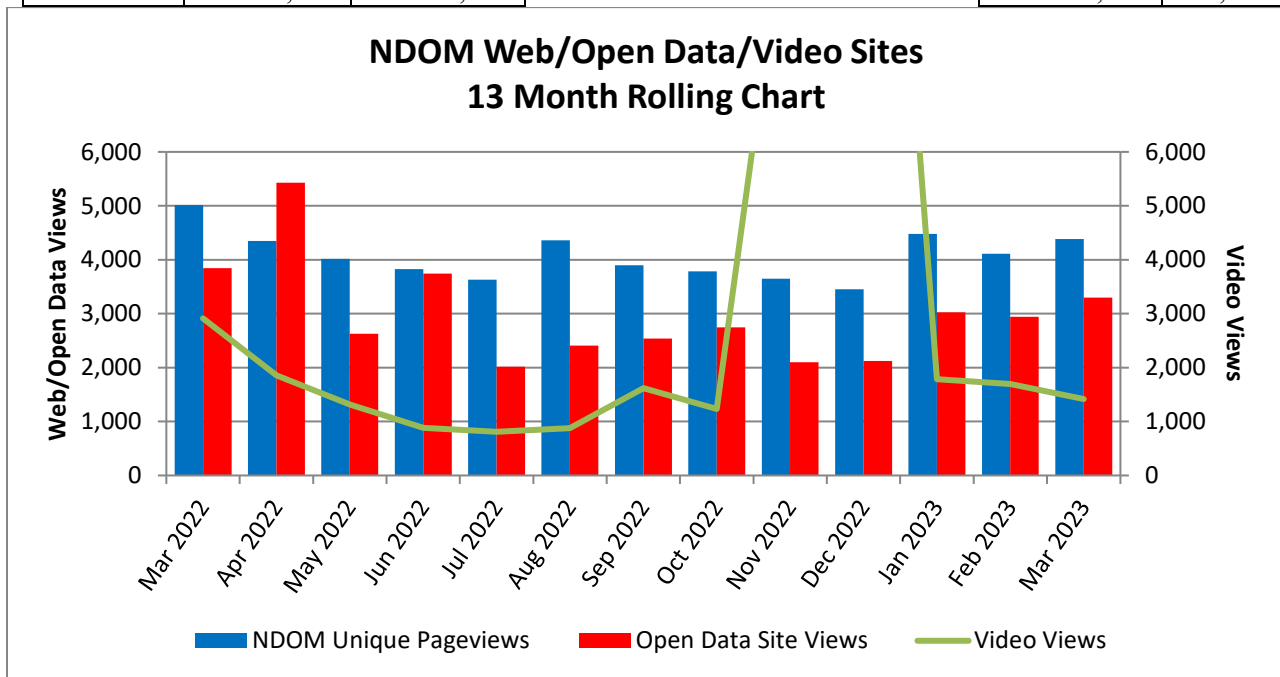
1. In support of Nevada Reading Week, read a book on the open pit mining process and discussed minerals use to students at Bruner ES. Read to six classes for a total of approximately 150 students.
2. Attended the Spring Valley HS Career Fair. Spoke with approximately 40 students about minerals and mining in Nevada.
3. Attended Canyon Springs HS Career Fair. Spoke to approximately 60 students about minerals and mining in Nevada.
4. Attended Coronado HS Career Fair and spoke with approximately 100 students about minerals and mining in Nevada.
5. Spoke at Career Fairs at Cambeiro ES, Triggs ES, Parson ES, Ward ES, Ferron ES and Cartwright ES. This included 24 individual sessions for approximately 700 students.
6. Attended and supported the Southern Nevada Teacher’s Workshop.
7. Participated in Career Day at Bryan ES, Ronnow ES and Lake ES and spoke to approximately 385 students.

8. Attended Foothill HS Career Day and spoke to approximately 125 students over six sessions.
9. Presented Earth and Human Activity at Katz ES.
10. Classroom geoscience presentations on mining, mining in Nevada, AML, minerals and critical minerals at Rowe ES and Station ES.
11. Completed the state-required Defensive Driving class.

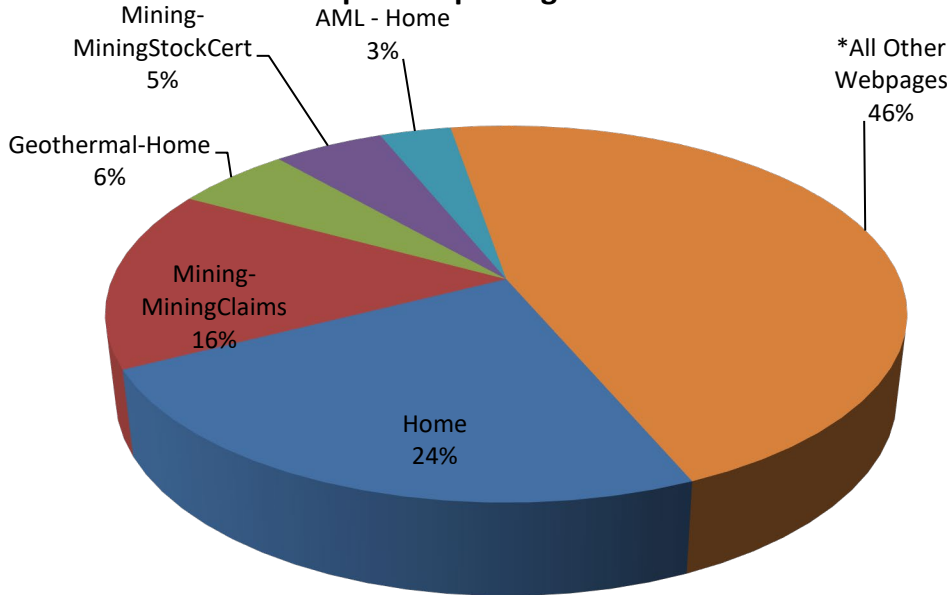
AML/Fluid Minerals Field Specialist (Peter Engh to start May 15):

Website Activity:

Period	Pageviews	Unique Pageviews	Top 5 Pageviews	Open Data Site Views	Video Views
Mar 2023	5,888	4,383	Home, Mining-MiningClaims, Geothermal-Home. Mining-MiningStockCert, and AML-Home	3,297	1,418
Mar 2022- Mar 2023	71,555	52,961		38,836	47,252



NDOM Website - Top 5 Unique Page Views for March 2023



*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

Top Visitors

Mar-2023	Country	United States, Canada, Mexico, (unknown), and Australia/Colombia
	State	Nevada, California, Washington, Arizona, and Virginia
	City	(unknown), Reno, Las Vegas, San Jose, and Carson City

	<u>Video Views</u> <u>in</u> <u>March 2023</u>	<u>Top 5 Video Views</u>	<u>Dist</u> <u>Learn</u> <u>Trkr #</u> <u>of</u> <u>Classes</u>	<u>No.</u> <u>NV</u> <u>45%</u>	<u>So.</u> <u>NV</u> <u>55%</u>
Without Jimmy King Videos	1,259	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Weathering & Erosion Part 1; 4) Ore Deposits an Overview; and 5) Rock & Mineral Collecting, Land Status, & Mining Claims An Overview.	50	23	27
With Jimmy King Videos	1,418	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Jimmy King KOBİ Full; 4) Weathering & Erosion Part 1 and 5) Ore Deposits an Overview.	57	26	31

Video views for Jimmy King KOBİ are from the NDOM YouTube site only