



**STEVE SISOLAK**  
Governor

STATE OF NEVADA  
COMMISSION ON MINERAL RESOURCES  
**DIVISION OF MINERALS**  
400 W. King Street, Suite 106  
Carson City, Nevada 89703  
(775) 684-7040 • Fax (775) 684-7052  
<http://minerals.nv.gov/>



**RICHARD PERRY**  
Administrator

**Las Vegas Office:** 2030 E. Flamingo Rd. #220, Las Vegas, NV 89119  
Phone: (702) 486-4343; Fax: (702) 486-4345

**COMMISSION ON MINERAL RESOURCES**  
Legislative Counsel Bureau, Room 4412  
555 E. Washington Ave., Las Vegas, NV 89101

Thursday, February 6, 2020

1:00 P.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 November 21, 2019 meeting minutes

**FOR POSSIBLE ACTION**

**III. NEW BUSINESS**

A. **Election of new Mineral Commission Chairman**

Under NRS 513.043, the Commission shall select a chair who serves at the pleasure of the Commission. At the February 2018 meeting, the Commission adopted a practice of choosing a chairman every two years.

**FOR POSSIBLE ACTION**

B. **2019 Minerals Education Summary**

Division Staff provide educational presentations at career fairs, in K-12 classrooms and at civic group and trade organization meetings. Field Specialist Rebecca Ely will present a summary for CY 2019.

**FOR DISCUSSION ONLY**

C. **Relocation of NDOM Las Vegas Office.**

NDOM and NDEP are relocating to a new office building located at 375 Warm Spring Road in Las Vegas. Garrett Wake will present.

**FOR DISCUSSION ONLY**

- D. **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 year for 2020-2021. In the past the Division has provided this support in the form of rock and mineral kits, reference books, hand lenses and educational supplied that NDOM buys directly for the workshops. This expenditure was legislatively approved in the FY 2020-2021 budget.

- E. **Reclamation of the Fallon Bentonite Mine** **FOR DISCUSSION ONLY**  
The Fallon Bentonite Mine had a reclamation performance bond through the NDOM bond pool. The owners ceased paying the premiums and the bond was forfeited to the BLM to pay for reclamation at the site. Reclamation work was completed in October, 2019. Mike Visser.

#### IV. OLD BUSINESS

- A. **Update to Regulation Changes to NAC 517, Mining Claims chapter** **FOR POSSIBLE ACTION**  
At the November 2019 CMR meeting, the Division was directed to update NAC 517 with changes to descriptions for placer claims on claim maps and filing forms. The Division submitted a draft to the Legislative Council Bureau (LCB) for legal review. It was determined that the changes would require a statutory change to NRS 517. Possible actions include but are not limited to a bill to change the statute for the next Legislative session. Mike Visser.

- B. **Update on Regulation changes to NAC 534A and NAC 519A.290** **FOR DISCUSSION ONLY**  
The CMR approved LCB file R032-19 (Geothermal Resources) and LCB file R044-19 (Reclamation Bond Pool) with minor changes at the November 21, 2019 meeting. The Legislative Commission reviewed both regulation changes at their December 30, 2019, meeting and adopted the regulations. Both regulations became effective on December 30, 2019.

- C. **Las Vegas Natural History Museum Exhibit** **FOR DISCUSSION ONLY**  
The CMR approved expenditure up to \$50,000 for an earth science/natural resource exhibit at the August 23, 2018 meeting. An RFP was released in November, 2019. Garrett Wake will provide an update.

#### COMMISSION BUSINESS

- A. Staff Reports and set date for next Commission meeting.
- B. **Discussion of process for the recruitment and appointment of a new Administrator.** **FOR POSSIBLE ACTION**  
Possible actions include but are not limited to: modification and/or approval of recruitment document, establishment of timelines related to recruitment, designation of an individual or subcommittee to evaluate applicants and schedule interviews.

#### 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 Sherrie Nuckolls at (775) 684-7043 or Email [SNuckolls@minerals.nv.gov](mailto:SNuckolls@minerals.nv.gov)

**LIST OF POSTING LOCATIONS**

Division of Minerals – Carson City and Las Vegas Offices

Legislative Building - Carson City

State Library and Archives - Carson City

Capital Building – Carson City

**Additional Notice**

Items on this agenda may be taken in a different order than listed. Two or more agenda items may be combined for consideration. An item may be removed from this agenda or discussion relating to an item on this agenda may be delayed at any time.

**Supporting Materials**

Notice of this meeting and supporting materials are available for inspection at 400 W. King. St., Suite 106, Carson City, NV 89703 or contact Sherrie Nuckolls at (775) 684-7043 or Email [SNuckolls@minerals.nv.gov](mailto:SNuckolls@minerals.nv.gov)

The Commission will be attending a field trip on Friday 2/7/20 to the Mountain Pass Rare Earth Mine operated by MP Minerals at 9:30 AM. The Mountain Pass Rare Earth mine is located 59 miles south of Las Vegas on US I-15 in San Bernardino County, CA. Members of the public may attend but must provide their own transportation and safety equipment including Steel toes shoes. Commission members and NDOM staff will be departing Las Vegas at 8:00 am. Advanced notification is required. Please call Sherrie Nuckolls at (775) 684-7043.

## II. MINUTES





STATE OF NEVADA  
COMMISSION ON MINERAL RESOURCES  
**DIVISION OF MINERALS**  
400 W. King Street, Suite 106  
Carson City, Nevada 89703  
(775) 684-7040 • Fax (775) 684-7052  
<http://minerals.nv.gov/>



**STEVE SISOLAK**  
Governor

**Las Vegas Office:** 2030 E. Flamingo Rd. #220, Las Vegas, NV 89119  
Phone: (702) 486-4343; Fax: (702) 486-4345

**RICHARD PERRY**  
Administrator

Thursday, November 21, 2019

2:30 P.M.

**MINUTES**

**CALL TO ORDER**

2:30 PM by Richard DeLong

Commission	Staff	Public
Richard DeLong	Richard Perry	Christy Bauer
Randy Griffin	Mike Visser	Dennis Bryan
Bob Felder	Rob Ghiglieri	Nancy Morris
Mary Korpi	Courtney Brailo	Molly Hunsaker
Josh Nordquist	Sherrie Nuckolls	Buster Hunsaker
Nigel Bain	Lowell Price	Dana Bennett
Art Henderson (absent)	Greg Ott, AG	Deborah Goetz

**PLEDGE OF ALLEGIANCE**

Led by Richard DeLong

**COMMENTS BY THE GENERAL PUBLIC**

There were no comments by the public.

**HOUSEKEEPING**

Richard DeLong: Asked Mary Korpi if she would be the Co-Chairman of the Commission.

Mary Korpi: Replied yes.

Richard DeLong: Mentioned that the Governor acted on the three vacancies to the Commission, two of the three are new which are Josh Nordquist and Randy Griffin along with Bob Felder who was reappointed by the Governor. He welcomed both Randy and Josh and asked them to give a brief introduction of their background.

Josh Nordquist: I've been in Nevada for 15 years, originating from Pennsylvania and some time in California. I've come on as the geothermal resources Commissioner because I've had experience in the geothermal industry; I've been involved with development of geothermal projects as well as drilling exploration, and legislative affairs for a little over 11 years now and happy to bring that experience and knowledge to the Commission.

Randy Griffin: I've also been in Nevada for 15 years, a native Texan; I've been in the mining industry since I arrived. And in the chemical industry for 40 years. I work for Lhoist America which is a Belgium based company, they've been in the lime production business for about 130 years, it's a family owned company and has operations all over the world. We have 3 locations here, Armargosa which is a clay mine, a lime producer at APEX Nevada and a hydrator in Henderson, Nevada.

Richard DeLong: Thanked and acknowledged two former Commissioners, John Snow who was the Geothermal Commissioner for 12 years who was unable to be here today and Dennis Bryan who was the Small-Scale Mining and Prospecting Commissioner. He also presented Dennis Bryan with a plaque and Nevada State pin.

Dennis Bryan: I was originally appointed by Governor Kenny Guinn in February 2000, I took Hugh Engle's place who unfortunately passed away and I finished out his term, I was then reappointed by Governor Kenny Guinn and reappointed by Governor Jim Gibbons, then reappointed twice by Governor Sandoval. I had a very good time and loved being on the Commission, it was a great experience, I was able to bring my perspective on industrial minerals to the Commission. I want to thank the Commission, I hope you guys continue on with all the good stuff you do and take care of some of the other industry out there.

**I. AGENDA**

A. Approval of the Agenda

**Motion to approve the agenda made by:** Josh Nordquist

**Seconded by:** Bob Felder

**Unanimously approved**

**II. MINUTES**

A. Approval of the August 15, 2019 meeting minutes

Mary Korpi: Correction to IV. C, the acronym should be NEPA instead of NEFA.

**Motion to approve the agenda with corrections made by:** Mary Korpi

**Seconded by:** Bob Felder

**Unanimously approved**

**III. NEW BUSINESS**

**A. Use of Lidar, InSAR and Drones by the Division of Minerals**

Courtney Brailo gave a PowerPoint presentation highlighting some of the technological advancements occurring at the Division. This included examples of the use of existing NDOM data (geothermal temperature data), external data (InSAR and LiDAR), and the collection of new data (UAS/drone surveys). This was done by first presenting examples of in-house processing to see temperature changes of pumped water from geothermal fields, and then Courtney showed how InSAR can be used to show basin changes around geothermal fields. She then presented analysis of 2017 LiDAR data which the Division is using to identify AML features in Washoe and Storey counties. Finally, Courtney summarized UAS/Drone use conducted by the Division, including for AML feature identification and the possible future of UAS capabilities to be explored.

Randy Griffin: Why does Idaho not allow drones?

Courtney Brailo: There was a push in a lot of states from the public that didn't want government entities to have drones because of privacy issues.

**B. Requiring exploration entities to share data once a project is completed**

Rich Perry: At the last Commission meeting there was a request, by the Commission, to do a review of the legal implications or legal possibilities or the statutory reviews and so forth of the idea of asking for explorationists to submit exploration data that could be archived somewhere. He then presented a PowerPoint presentation going through the review at the Federal level, Nevada Statutory review - NDOM's 513.073 Statutes, and the Nevada Statutory review - NBMG 514.040 Statutes.

Rich then talked about the regulatory, statutory and voluntary options, and feedback collected at NMEC on November 13, 2019.

He mentioned in going forward with this he thinks if the Commission wanted to do a statutory change that's the strongest but that's going to require going to the Legislature and it also requires opening up Chapter 513 and I'm not sure that's a good idea and the statutory the language would have to be such that when LCB reviewed it they would find it consistent with the regulatory statutes and for the voluntary option, it just needs a mechanism, and that was the least objectionable to everyone.

Richard DeLong: Before we talk about it among the Commissioners I'd like to see if anyone from the general public would like to comment or discuss this item.

Dennis Bryan: I was the moderator for that panel at the NMEC last week and I'm the one that suggested some of the questions based on our membership. A couple of things I wanted to bring up is the difference between private property and public lands, there was a strong indication that private property is not involved in this, unless it's voluntary of course, and there was a lot of opposition from the explorers who don't want to give up their data, they indicate a mining claim is a private property and if they do something on that mining claim it's their information and they're not about to give it up. Others say these are public lands so you should be able to give it up.

Rich Perry: John Price, Geologist with the NBMG, did submit an email with a detailed analysis of this archival exploration data and he has stated what it consists of if something was in place.

Richard DeLong: We'll bring it back to the Commission for discussion and I'd like to start. From the perspective of the Commission and our charge of promoting the industry, I think the collection, the archiving and making the data available is in the best interest of the State because it helps to promote exploration. I do have a number of concerns on how it would work and how we would enforce it.

Bob Felder: I'd like to bring up a different perspective, there was a woman in the audience last week at the NMEC meeting who was from Australia and she brought a perspective that I think is important, we're trying to promote investment in Nevada. The Frasier Institute ranked Nevada as the number one investment jurisdiction for mining in the world, as a State we want to do that, her biggest complaint was she came to Nevada and she has to start from scratch so I think that's an important perspective because if we all agree we want to attract investments to our State then it's something to consider. I can tell you in the last 2-3 years there's a lot of money coming into North America from other countries, Australia in particular, so I think it's an important point to make, as a counter point to that what I saw at the NMEC meeting was everyone interpreted the topic from the stand point of how does it affect me right now and in the very near future. It's a competitive industry, we pay for data and we don't want to share with anyone I think it's a matter of considering maybe this starts out voluntary, I think voluntary wouldn't be a big step because there's already mining district files that were submitted voluntarily to the Bureau of Mines and Geology but I think thinking in the long term how do we get from the current status to a more free data sharing status is really the question it's not going to be instantaneous; today it's all private and tomorrow it's all going to be public I'm not suggesting an answer, it's a complex issue but I think the phased approach is something to consider. I support it but I'm also very mindful of the confidentiality proprietary aspect to it.

Josh Nordquist: In the geothermal world it's commonplace when we drill wells, I believe its 5 years, a certain amount of time afterwards some of the data from these wells, core and cuttings have to be delivered to the state. In our view any type of development or project the land has been secure the resource, whatever it may be, has been secured at that time and at some level there's no risk of losing it or of that information being used to take it away from us, it's a very interesting discussion and being exposed to it for the first time.

Bob Felder: In geology and mineral exploration, something someone did 10 or 15 years ago and they may have drilled some holes might not have found anything it's all about new ideas, new models and new concepts. In geothermal, if you test an area and it's dry and not hot enough that's not going to change in the next 20 years so it's a really different dynamic with what it takes for you guys to share data from what it takes the mineral exploration to share data. We've followed the model, geothermal has to do it, oil and gas has to do it, but this is very different. We continue to live on fresh ideas because it might be the next idea someone has that makes the breakthrough the last guys didn't make.

Nigel Bain: I would agree this is a very aspirational goal but I've definitely seen the situation where someone's information can destroy your value or will create value so I don't think you can see it as an intangible, no value thing. Everyone's idea has a value whether it can be even tied to something like a drug patent or something like that. Today's drilling or yesterday's drilling will certainly have a value to someone in the future. It would be a great thing to see that become part of the public record but I think there's got to be some value changes too.

Buster Hunsaker: My daughter Molly and I are prospect generators and we took the opposition side at the NMEC meeting and I really appreciate Dennis Bryan bringing up the topic, I think you have made some really good points and this is headed in the right direction. We are so thankful for all of the efforts that go out there for bringing people to the state, what the Division of Minerals does, certainly was GSN does, Nevada Bureau of Mines and Geology, it's huge for us. But we still we want to be careful, we don't want to change that little bit of vision where someone says I can get on my donkey and go out there, sack up some ore, come back, build a mill and make a ton of money. You don't want to remove that perception of the incentive. That's the thing I think you should worry about when you think about this thing philosophically, thank you.

Richard DeLong: As it relates to NRS 513, I'm loath to think about opening that statute up, particularly given the upcoming Legislative session, I don't think we want to go there and I would not like to see that happen. One other thing to think about is what is the appropriate data, to me it's really the fundamental information, the geochemical data sheets, the geophysical logs, the geology of the drill holes, it's not the interpretation I think the interpretation of those data should remain with whoever generates that basically intellectual property, just a couple of additional thoughts.

Deborah Goetz: I'm a consultant and a member of the public. I'd like to bring a little different idea here, in view of what Bob Felder just said and current legislative issues, I strongly recommend you take some time to really consider this from a couple of different perspectives. I'm not a geologist, so I'm not coming at this with a geologic perspective. I'm looking at things from a confidential perspective and also liability. I think it's important you define exactly what data is because if any data can be construed even 10 years down the road as being intellectual property, there could be lawsuits and that's something that I've seen, things which started as a non-existing issue 20 years ago and is now becoming an issue. Also, I think you have to keep in perspective the long term business strategies of many companies, they may be looking at a project today and it doesn't look like it's anything today but who know what 20 years from now it will look like. The data is important but I think it has to not have any suggestion of interpretative data. I'd like you to consider the issue of private property vs public lands, people view the 1872 Mining Law as being much more of a vested property right so I think you need some legal interpretation on this.

Randy Griffin: I just want to make sure I understand this. In my business we have mining claims around the state and let's say we're just going to give up the mining claim so what this topic is about is the data we collect and that it would remain with the property being public for someone else to come in and use to possibly do whatever they want to do, is that what the issue is here?

Richard DeLong: Yes, the data collected would become public information.

Randy Griffin: Does any other country or state have something like this that is public?

Molly Hunsaker: Member of the public. In California they require the data to be submitted. The way it works there is you have to submit on a quarterly basis a report on any production you've done and any sort of data that is collected needs to be submitted to California. Canada and Australia operate on these same systems.

Mary Korpi: What I hear is it seems like most people think this is a good idea but it's so undefined as to what it's going to look like, the suggestion of a task force or a group I think has to happen before we can even take it to any other level and if we go that route I think each entity of interest needs to be a part in that task force, I personally don't feel I'm ready to make a decision at this point and time.

Richard DeLong: As far as making any kind of recommendation to move forward on anything relating to this I agree there are much more discussion and a lot more needs to be considered. As the Chairman I will request that Rich Perry set up a task force that consists of the appropriate staff that you would like to have involved and 2 or 3 Commissioners as you deem appropriate, I think we can also have members of the public involved in a task group, is that right Greg?

Greg Ott: Creation of a task force gets a little bit more regimented and structured if it is created by this public body because then you start running into open meeting law issues.

Richard DeLong: That's why I asked the Administrator to do it.

Greg Ott: And that's where I was about to go. Assuming that the Administrator is going to be creating it it would be under his descretion to determine those members that are most beneficial to him and would be advising him as so that would be in his purview to have members of the public because it's going to be giving advice to him and he can pick the best people most suited to do that.

Richard DeLong: Thank you; how does that sit with the rest of the Commissioners?

Bob Felder: I agree, I think we're no way near making any kind of motion, it's way too undefined. I think Deborah's comments about taking your time and making sure you've got your ducks lined up, it's good advice, and I think there are things we haven't considered yet.

Richard DeLong: We'll go forward with that approach.

#### **IV. OLD BUSINESS**

##### **A. Revisit of Claim Fee Reduction**

Mike Visher talked about NAC 517.200 Filing fee. The Commission wanted NDOM to move forward with looking at reducing the claim fee by \$.50 for this portion it was from \$6.00 to \$5.50 additionally we chose this chapter to try and rectify some problems that were arising from the location of Placer claims in non-surveyed townships. The NRS tells the claimant how claims should be described, the NAC describes how a county should record the filings, maintain the maps

and the issue came from one county who rejected a map that was adequate for the BLM but did not adequately address the concerns under statute by the county. Mike handed out an updated Fiscal Year Cumulative Mining Claim Revenue by Month sheet and discussed in detail. Mike also shared feedback he received from a meeting he attended at a meeting of the Recorder's Association of Nevada. There was a unanimous consensus hoping that the mining claim fee decrease does not happen. This is important for you to consider as you decide to move forward with a claim fee reduction or not or do you want to move that component from proposed regulation changes for NAC 517 and are there any other considerations that we need to take into count as we move forward with proposed regulation changes.

Richard DeLong: Was the topic of the claim fee brought up at all at the NMEC meeting last week?

Mike Visher: No.

Richard DeLong: Does the Nevada Mining Association have any concerns with the claim fee adjustment?

Dana Bennett: We do not at this time.

Richard DeLong: Anything else from the Division on this or any discussion from the Commissioners?

Mike Visher: I should state one other thing, the agenda states I will present options for moving forward and I failed to mention that part. The options are obviously to attempt to spend more money to put that \$.50 to use in other ways. I'm sure NDOM can put our heads together and come up with some other ways to do that should you decide to go down that route and at the February meeting we can put forth some alternatives and options for you to consider prioritizing how we might do so.

Richard DeLong: As it relates to the map issue with the filing of the claims and unsurveyed sections, so I understand, is the idea to deal with the fact that the statute doesn't address unsurveyed but protracted townships; are you primarily dealing with that by refining the definitions?

Mike Visher: That's correct.

Nigel Bain: Is there a problem we're solving there or is it just clean up?

Mike Visher: I see it as a problem and that the claimant in order to satisfy the current statute and regulations has to submit a different map for his claim to the county than to the BLM. I don't like the idea that we're not in lock step in what is being filed and don't want to put an additional burden on some of the claimants. This has only come to light because of the activity for lithium brine in playas and these remote areas which have not been surveyed and so they're in these projection areas as well as some new players to the claim staking and exploration industry from outside the United States that are not familiar with how it's done in Nevada, which is kind of unique, and not understanding the process, so we're just trying to clean this up.

Richard DeLong: Any additional input or thoughts on the map issue before we touch on the fee issue?

Richard DeLong: Any thoughts on the fee issue?

Nigel Bain: I can multiply \$10.00 times my number of claims, I can multiply \$1.00 times my number of claims, I can multiply \$.50 times my number of claims, that can't be a reason not to reduce a tax.

Bob Felder: In reading comments received from the Recorder's Association of Nevada meeting, the comments from the recorders make a lot of good points, some of it may be a little whiney; it's going to make our jobs harder, it was raised recently and now it's being decreased., Is the balance in the fund going to change where we have to think about raising it again, I kind of side with the recorders that maybe it's more trouble than it's worth and we can probably spend the money usefully.

Mary Korpi: I'd like to hear some of those projective proposals because we talk about there's a lot of work that needs to be done and it could be done if we have the funds so I would favor in postponing that decision until we can take a look at some other options specific to the \$.50 not the language.

Richard DeLong: My thoughts are I'm always in favor of trying to put the dollars in the ground with our programs and that's one of our primary missions besides educating the public, I'm particularly thinking of the Abandoned Mine Land Program and the more we can do on that the better. I do think the county recorders do make some worthy points of consideration.

**Motion to approve the draft proposed changes to NAC 517 mining claim fees with the exception of the \$.50 decrease and direct the Division to move forward with a regulatory change by:** Mary Korpi

**Seconded by:** Bob Felder

**Passes 5 to 1**

**B. Recap of 2019 AML Program**

Rob Ghiglieri presented a PowerPoint presentation of the 2019 NDOM AML Program Update showing present day AML statistics, summer intern statistics from 2007-2019, intern program safety overview, upcoming winter interns and 2020 summer interns, contracted AML work, USACE RAMS database update and automated processing of data collected in the field, Tonopah NV Point project, Tonopah Historic Mining Park, and a forecast of contracted work. Rob also talked about the AML Video RFP update, 4<sup>th</sup> Ward School, Gold Butte Award and the NAAML 2020 Conference.

Randy Griffin: How do you determine hazardous vs non-hazardous sites?

Rob Ghiglieri: A hazardous site, in NAC 513, defines a vertical feature more than 8 feet that there's no way to get out, and horizontal features over 20 feet, we physically have to go to every one of them to look.

**COMMISSION BUSINESS**

**A. Determination of time and place of next CMR meeting**

The meeting will be on February 6, 2020 in Las Vegas with a tour on February 7<sup>th</sup>.

Richard DeLong mentioned Dana Bennett, President of the Nevada Mining Association, is retiring in January 2020 and wanted to thank her for her service to the industry and the State. Stating, she'll be missed.

**COMMENTS BY THE GENERAL PUBLIC – None**

**ADJOURNMENT**

4:40 pm

### **III. NEW BUSINESS**

### **III. A ELECTION OF NEW MINERAL**

### **COMMISSION CHAIRMAN**



## COMMISSION ON MINERAL RESOURCES

**NRS 513.011 Definitions.** As used in this chapter, unless the context requires otherwise:

1. “Administrator” means the Administrator of the Division.
2. “Commission” means the Commission on Mineral Resources.
3. “Division” means the Division of Minerals of the Commission.

(Added to NRS by [1977, 1148](#); A [1983, 2070](#); [1993, 1681](#); [1999, 3627](#))

**NRS 513.023 Creation; appointment of members; terms of office.**

1. The Commission on Mineral Resources, composed of seven members appointed by the Governor, is hereby created.

2. The Governor shall appoint:

- (a) Two persons who are familiar with large-scale mining;
- (b) One person who is familiar with the production of oil and gas;
- (c) One person who is familiar with exploration for and development of minerals;
- (d) One person who is familiar with the situations unique to small-scale mining and prospecting;
- (e) One person who is familiar with the development of geothermal resources; and
- (f) One member to represent the general public.

3. The members of the Commission shall serve terms of 4 years, except when appointed to fill unexpired terms.

(Added to NRS by [1983, 2067](#))

**NRS 513.025 Composition.** The Commission consists of:

1. The members of the Commission appointed pursuant to [NRS 513.023](#); and
2. The Division.

(Added to NRS by [1999, 3626](#))

**NRS 513.033 Compensation of members.**

1. Each member of the Commission is entitled to receive a salary of not more than \$80, as fixed by the Commission, for each day while engaged in the business of the Commission.

2. While engaged in the business of the Commission, each member and employee of the Commission is entitled to receive the per diem allowance and travel expenses provided for state officers and employees generally.

(Added to NRS by [1983, 2068](#); A [1985, 434](#); [1989, 1717](#))

**NRS 513.043 Officers.**

1. The members of the Commission shall select a Chair from among their number who shall serve at the pleasure of the Commission.

2. The Administrator shall serve as Secretary of the Commission and shall keep the minutes and audio recordings or transcripts of its proceedings.

(Added to NRS by [1983, 2068](#); A [1993, 1682](#); [2005, 1414](#))

**NRS 513.053 Meetings; quorum; minutes, audio recordings and transcripts.**

1. The Commission shall meet at such times and at such places as is specified by the call of the Chair or a majority of the Commission, but a meeting of the Commission must be held at least once every 4 months. In case of emergency, special meetings may be called by the Chair or by the Administrator.

2. Four members of the Commission constitute a quorum for transacting the business of the Commission.

3. The minutes and audio recordings or transcripts of each meeting of the Commission must be filed with the Division.

(Added to NRS by [1983, 2068](#); A [1993, 1682](#); [2005, 1414](#))

**NRS 513.063 Duties.** The Commission shall:

1. Keep itself informed of and interested in the entire field of legislation and administration charged to the Division.

2. Report to the Governor, the Mining Oversight and Accountability Commission created by [NRS 514A.040](#) and the Legislature on all matters which it may deem pertinent to the Division, and concerning any specific matters previously requested by the Governor or the Mining Oversight and Accountability Commission.

3. Advise and make recommendations to the Governor, the Mining Oversight and Accountability Commission and the Legislature concerning the policy of this State relating to minerals.

4. Formulate the administrative policies of the Division.

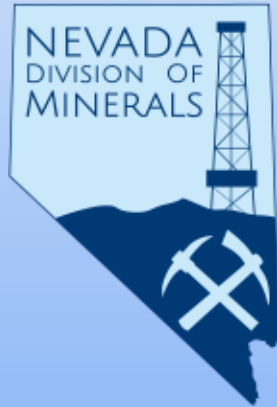
5. Adopt regulations necessary for carrying out the duties of the Commission and the Division.

(Added to NRS by [1983, 2068](#); A [1999, 3627](#); [2011, 2698](#))

### **III. B 2019 MINERALS EDUCATION**

#### **SUMMARY**

# 2019 Education and Outreach Update



**Commission on Mineral Resources Meeting**

**6 February, 2020**

**Rebecca Ely**

**Nevada Division of Minerals**

**[rely@minerals.nv.gov](mailto:rely@minerals.nv.gov)**

**[Minerals.nv.gov](http://Minerals.nv.gov)**

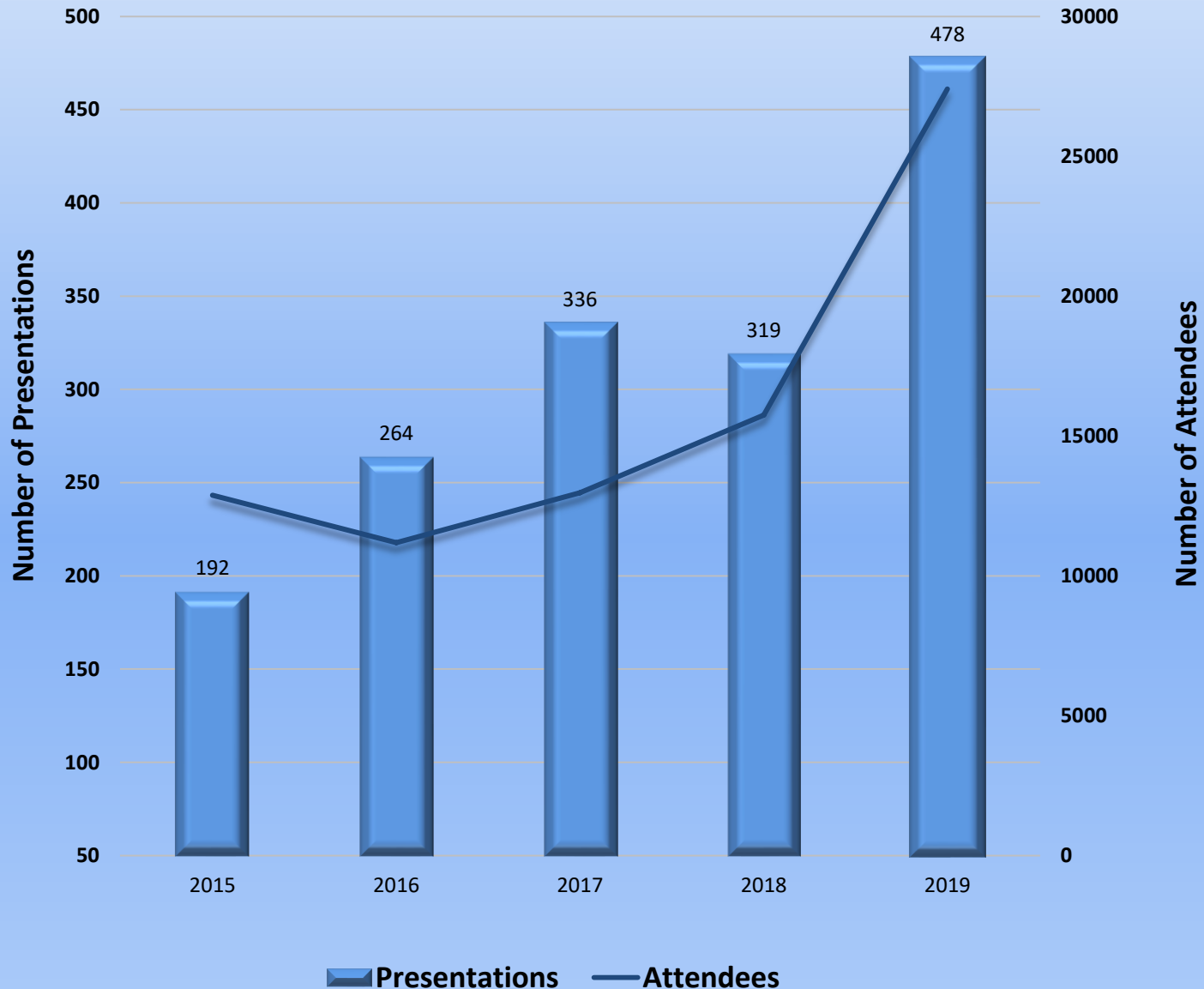


# 2019 Overview

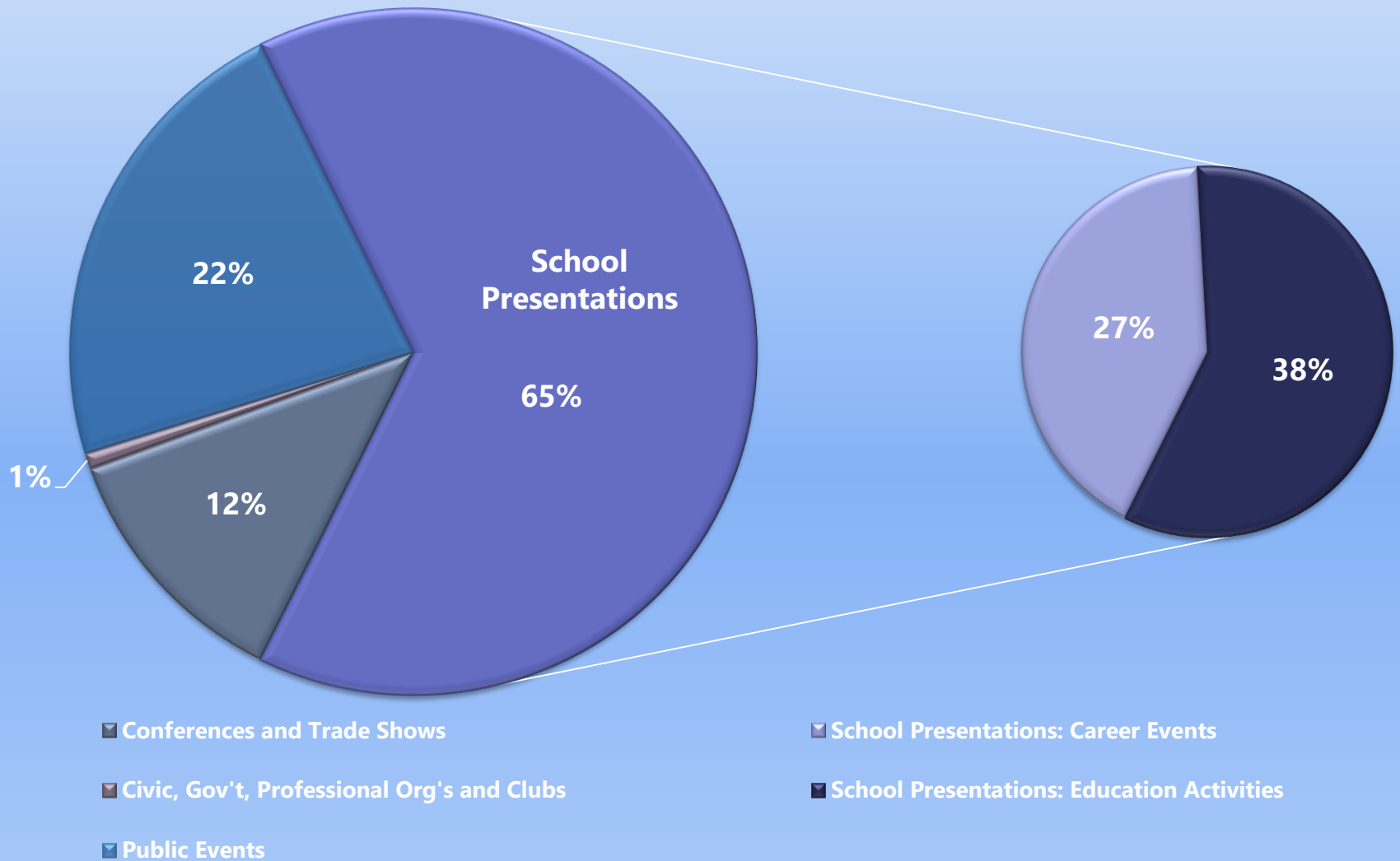
- Outreach by category:
  - K – 12 schools
  - Trade shows, conferences and workshops
  - Civic, government, and professional organizations and clubs
  - Public Events
  - Boy Scouts/AML
- New NDOM K-12 classroom presentations
- NDOM agency brochure
- 2019 and 2020 Teachers' Workshops
- Questions

# Five Year View of Outreach

74% more attendees in 2019 than in 2018



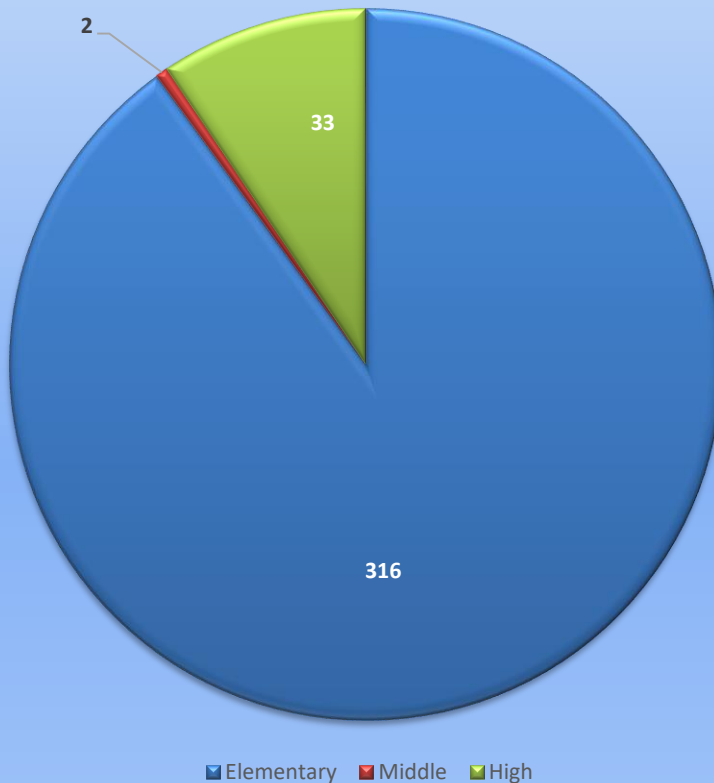
# Outreach by Category 2019



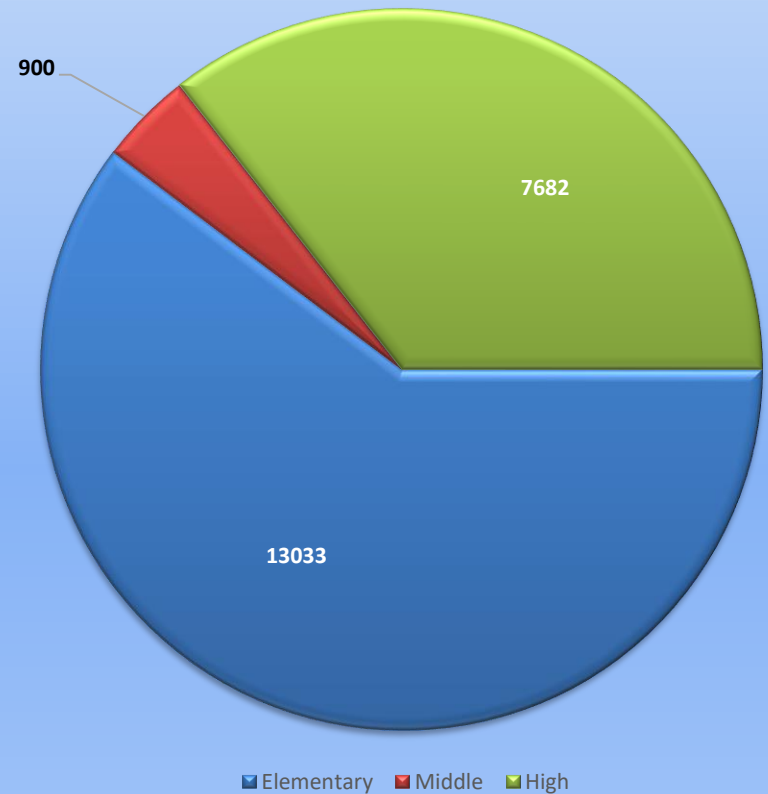
# Outreach by Category 2019

## K-12 Mineral Education Classroom Presentations

K-12 Presentations by Grade Level



K-12 Students Reached by Grade Level

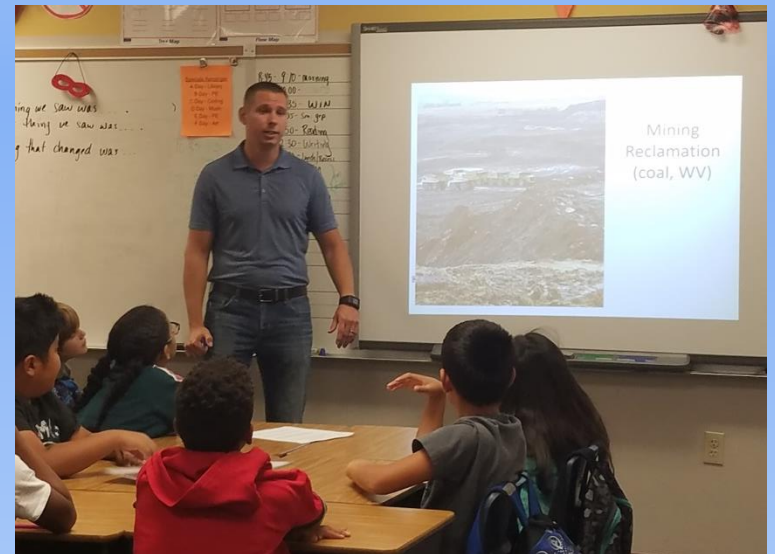


**73** Unique schools and **21,600+** students reached

# Outreach by Category 2019

## K-12 Mineral Education Classroom Presentations and Activities

- **NDOM Staff:**
  - Conducted **229** K-12 Classroom & Career Day presentations
  - Visited **39** unique schools
  - Reaching **6,178** students
  - Providing unique experiences to each grade level





# Outreach by Category 2019

## K-12 Career Events

**147 Career Presentations at 36 unique schools, reaching 13,285 students, given in 2019**

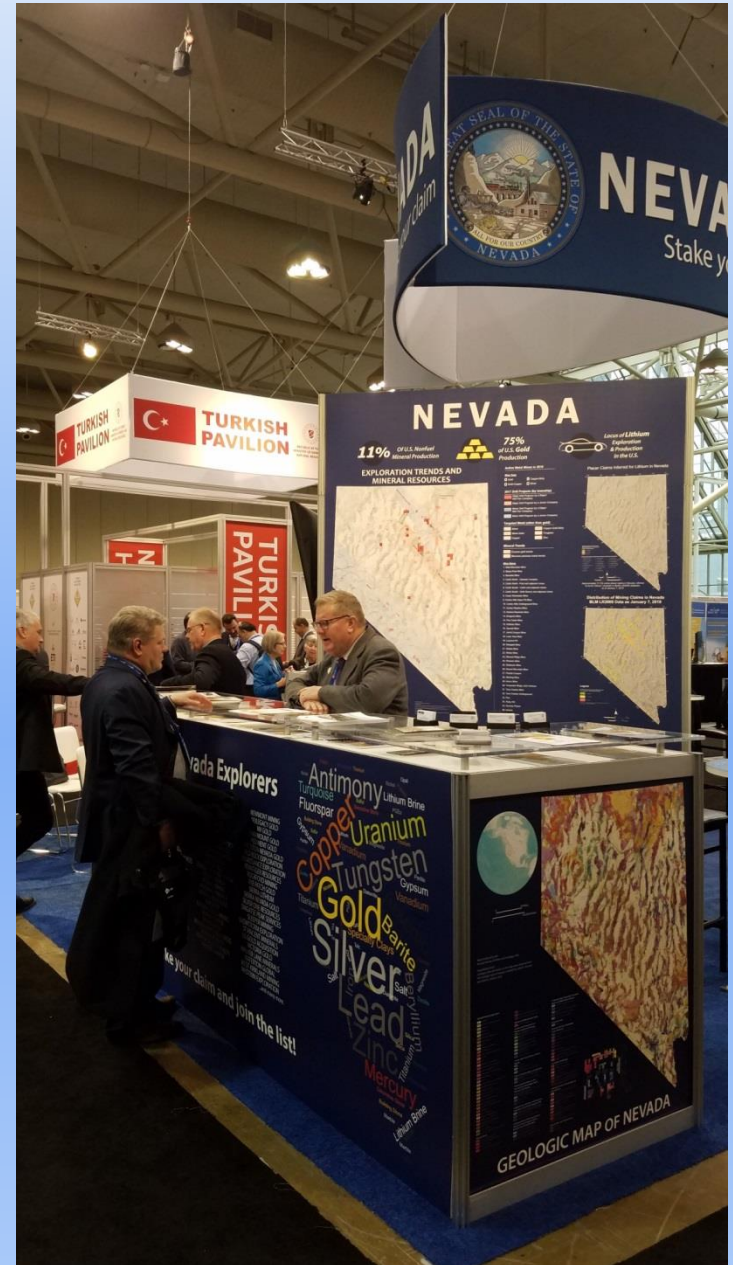
- Elementary and Middle Schools
  - 15-30 minute presentations
    - *What are minerals?*
    - *Why are minerals important?*
    - *How do find them?*
- High Schools
  - All-day, booth-manned events
  - Field questions about careers in the geological sciences, mining and OGG industries



# Outreach by Category 2019

## Trade shows, conferences and workshops

- Prospectors and Developers Association of Canada (PDAC)
  - March 4<sup>th</sup> – 7<sup>th</sup>, 2019
  - 25,000+ attendees from 125 countries
  - Held in Toronto, CA
- American Exploration and Mining Association (AEMA)
  - December 4-6, 2019
  - Talks on AML and State and Province reports
  - Held in Reno, NV
- North American Abandoned Mine Lands Program (NAAMLPL)
- Elko Mining Expo
- Nevada Landmens Association
- Nevada Mining Association Convention
- Teachers' Workshops and others





# Outreach by Category 2019

Civic, government, and professional organizations and clubs



- Society of Mining, Metallurgy and Exploration
- Nevada Mining Association Convention
- Nevada Mineral Exploration Coalition
- Society of Economic Geologists
- Geological Society of Nevada
- Nye County Gold Seekers
- UNR John Mackay Club
- US Fish and Wildlife
- Reno Gem and Mineral Society
- And many others

# Outreach by Category 2019

## Public Events

- Capital City Farm Days
- Silver Stage Fall Festival
- Pioneer Days
- Lake Mead NRA Safety Fair
- Las Vegas Science and Technology Festival
  - 'Ologists day





# Outreach by Category 2019

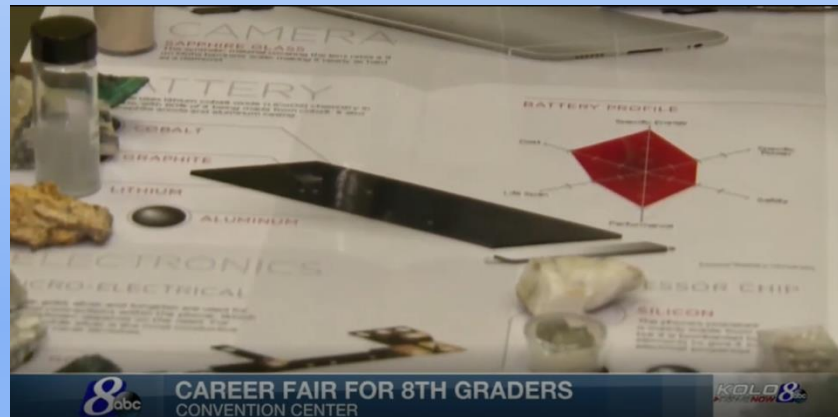
## Boy Scouts/AML



- 1 Eagle Scout project completed in 2019
  - Searchlight area in Clark County
  - 20 Scouts attended
  - Built enclosure around large decline
  - Consistent flow of Scouts contacting NDOM for projects

# Media Attention for Education and Outreach

- Lucia interviewed by local news
- Washoe County
- Career Fair
- Every 8<sup>th</sup> grader in the school district
- ~5000 Students in attendance





# New Classroom Presentations and Activities

- **New in Southern Nevada**
  - Erosion Experiment
    - 2<sup>nd</sup> grade
  - Google Earth Activity
    - HS Geography AP
    - Supports Science standards and Social Studies Standards



# New Classroom Presentations and Activities cont.

Nevada Division of Minerals Classroom Activities for Southern Nevada Schools					
Grade	Lesson	Activity	NGSS	Science and Engineering Practices	Disciplinary Core Ideas
K	Introduction to Natural Resources	Begin learning about natural resources and raw materials with the 3 little pigs	K-ESS2-2 K-ESS3-1 K-ESS3-3	Engaging in Argument from Evidence Developing and using models Obtaining, Evaluating, and Communicating Information	ESS2.E: Biology ESS3.A: Natural Resources ESS3.C: Human Impacts on Earth Systems ETS1.A: Defining and Delimiting an Engineering Problem
					Systems and System Models Cause and Effect Interdependence of Science, Engineering, and Technology Influence of Engineering, Technology, and Science on Society and the Natural World
1	Rock Cycle	Rolling along the rock cycle - game, rock ID and story about rocks		Scientific Investigations Use a Variety of Methods Analyzing and Interpreting Data Obtaining, Evaluating, and Communicating Information	Patterns Scientific Knowledge Assumes an Order and Consistency in Natural Systems
2	Weathering and Erosion	Erosion Experiment Students will rotate between stations where they will model natural erosional processes to learn that the Earth's surface changes both slowly and quickly.	2-ESS1-1 2-ESS2-1 2-ESS2-2	Constructing Explanations and Designing Solutions Developing and Using Models Obtaining, Evaluating, and Communicating Information	ESS1.C: The History of Planet Earth ESS2.A: Earth Materials and Systems ESS3.C: The Role of Water in Earth's Surface Processes
2-3	Minerals Uses in Society	What are the things I use made off? Everyday necessities are made from different materials we source from the earth.	3-PS1-1	Developing and Using Models Obtaining, Evaluating, and Communicating Information Scientific Investigations Use a Variety of Methods	PS1.A: Structure and Properties of Matter World Science is a Human Endeavor
4	Earth and Humans	How building and mining has affected our surroundings and what we do to conserve/reclaim the lands we use.	4-ESS2-2 4-ESS3-1	Asking Questions and Defining Problems Constructing Explanations and Designing Solutions Analyzing and Interpreting Data Obtaining, Evaluating, and Communicating Information	ETS1.A: Defining Engineering Problems ESS2.E: Biology ESS3.A: Natural Resources ETS1.B: Designing Solutions to Engineering Problems Science is a Human Endeavor
4-5	Minerals Education & General Geology	Paste with a taste: Students learn that mineral resources are used every day before creating custom toothpastes using minerals and present it to the class.	5-PS1-3 5-PS1-4	Planning and Carrying Out Investigations Using Mathematical and Computational Thinking	PS1.A: Structure and Properties of Matter PS1.B: Chemical Reactions Cause and Effect
5	Mineral Properties and Identification	Mineral testing and identification stations introduce 5th grade students to testing physical properties of minerals and applying results to identification.	5-PS1-3 5-ESS3-1	Planning and Carrying Out Investigations Obtaining, Evaluating, and Communicating Information	PS1.A: Structure and Properties of Matter ESS3.C: Human Impacts on Earth's Systems Science Addresses Questions About the Natural and Material World

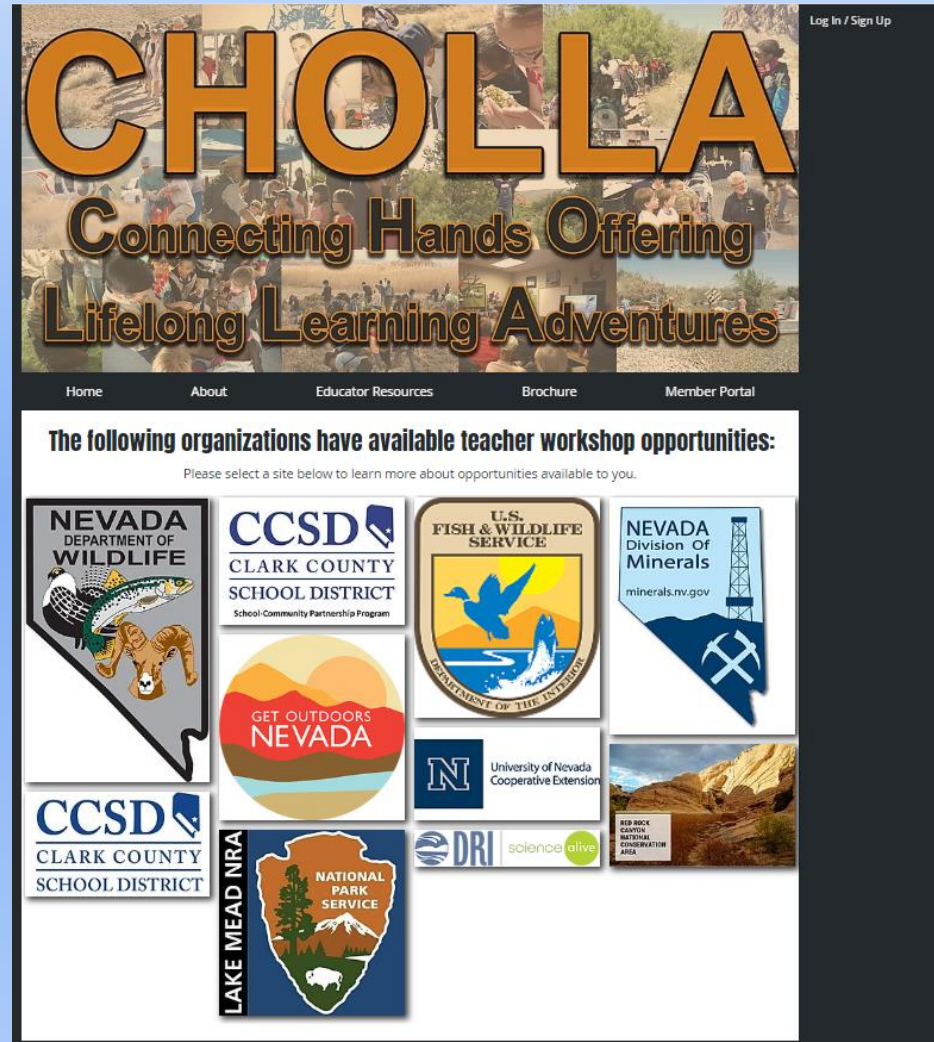
MS	Mineral Identification and Social Utility	Mineral testing and identification introduces students to testing physical properties of minerals and applying results to identification. This activity also highlights the social utility of minerals and helps students to identify which minerals are mined in Nevada.	MS-PS1-3 MS-ESS3-1 MS-ESS3-4	Science Models, Laws, Mechanisms, and Theories explain Natural Phenomena Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information Scientific Knowledge is Based on Empirical Evidence	PS1.A: Structure and Properties of Matter ESS3.A: Natural Resources ESS3.C: Human Impacts on Earth Systems Science is a Human Endeavor Science Addresses Questions about the Natural and Material World	Cause and Effect Structure and Function Interdependence of Science, Engineering, and Technology Influence of Science, Engineering, and Technology, on Society and the Natural World
MS	Minerals as Matter and Introduction to Plate Tectonics	Coming Soon...Kaleidocycle Part I: The atomic structure of minerals impacts the physical properties of that mineral. We will explore this concept by making paper models of a silicate molecule. Part II: This part of the activity introduces plate tectonics. Groups will use their paper models from part I to build a Kaleidocycle to show the relationship between volcanoes and earthquakes with plate tectonics.	MS-PS1-1 MS-PS1-3 MS-ESS1-4 MS-ESS2-1 MS-ESS2-2 MS-ESS2-3 MS-ESS3-1 MS-ESS3-2	Developing and Using Models Science Models, Laws, Mechanisms, and Theories explain Natural Phenomena Analyzing and Interpreting Data Asking Questions and Defining Problems	PS1.A: Structure and Properties of Matter ESS1.C: The History of Planet Earth ESS2.A: Earth's Materials and Systems ESS2.B: Plate Tectonics and Large-scale System Interactions ESS3.A: Natural Resources ESS3.B: Natural Hazards	Patterns Cause and Effect Scale, Proportion, and Quantity Energy and Matter Structure and Function Stability and Change
HS	Mineral Exploration and Production	Build A Mine: Students must decide how to best mine for resources. Market prices of the commodity, development cost, and reclamation are all taken into consideration in this educational game.	HS-ESS3-1 HS-ESS3-2 HS-ESS3-3	Analyzing and Interpreting Data Using Mathematical and Computational Thinking Constructing Explanations and Designing Solutions	ESS3.A: Natural Resources ESS3.C: Human Impacts on Earth Systems ETS1.B: Developing Possible Solutions	Cause and Effect Stability and Change Interdependence of Science, Engineering, and Technology Influence of Science, Engineering, and Technology, on Society and the Natural World Science Addresses Questions about the Natural and Material World
HS	Geospatial Data for Scientific Investigation	GoogleEarth Students will become familiar with GoogleEarth and the tools available in the program. They will use publicly available geospatial data to answer questions.				



# CHOLLA

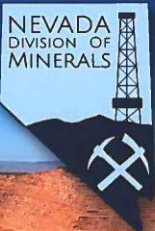
## Connecting Hands Offering Lifelong Learning Adventures

- NDOM became a member in 2019
- Southern Nevada Organization of formal and informal educators
- Supports informal education
- Answers questions about education standards
- Provides peer review
- Collaboration opportunities







# New NDOM Agency Brochure

## Commission on Mineral Resources Nevada Division of Minerals



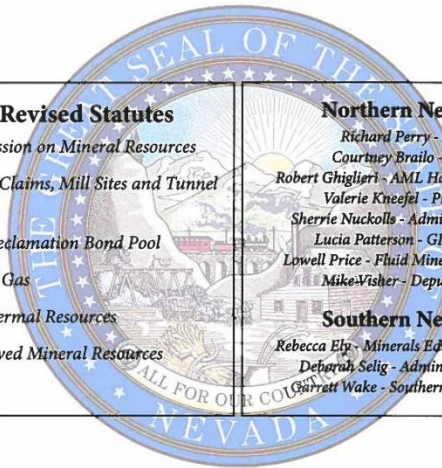
NEVADA  
DIVISION OF  
MINERALS










**Mission:** To encourage and assist in the responsible exploration for and the production of minerals, oil, gas, and geothermal energy which are economically beneficial to the State; to provide for public safety by identifying, ranking and securing dangerous conditions at mines that are no longer operating; and to collect and disseminate information on mineral exploration, production and other related topics.

[www.minerals.nv.gov](http://www.minerals.nv.gov)  
Publish Date: January, 2020



<p style="text-align: center;"><b>Nevada Revised Statutes</b></p> <p>NRS 513 - <i>Commission on Mineral Resources</i></p> <p>NRS 517 - <i>Mining Claims, Mill Sites and Tunnel Rights</i></p> <p>NRS 519A.290 - <i>Reclamation Bond Pool</i></p> <p>NRS 522 - <i>Oil and Gas</i></p> <p>NRS 534A - <i>Geothermal Resources</i></p> <p>NRS 534B - <i>Dissolved Mineral Resources</i></p>	<p style="text-align: center;"><b>Northern Nevada Office</b></p> <p>Richard Perry - Administrator Courtney Brailo - Field Specialist Robert Ghigliari - AML Hazard Program Manager Valerie Kneefel - Program Officer II Sherrie Nuckolls - Administrative Assistant IV Lucia Patterson - GIS / Field Specialist Lowell Price - Fluid Minerals Program Manager Mike Visser - Deputy Administrator</p> <p style="text-align: center;"><b>Southern Nevada Office</b></p> <p>Rebecca Ely - Minerals Education / Field Specialist Deborah Selig - Administrative Assistant IV Garrett Wake - Southern Operations Manager</p>
---	---

**Commission on Mineral Resources**

Richard DeLong, Chairman, Large-Scale Mining

Nigel Bain, Large-Scale Mining

Robert Eckler, Exploration and Development

Randy Griffin, Small-Scale Mining and Prospecting

Arthur Henderson, Oil and Gas

Mary Korpi, Public at Large

Josh Nordquist, Geothermal Resources

**Northern Nevada Office**  
400 W. King St., Ste. 106  
Carson City, NV 89703  
(775) 684-7040 (phone)  
(775) 684-7052 (fax)  
ndom@minerals.nv.gov

**Southern Nevada Office**  
2030 E. Flamingo Rd., Ste. 220  
Las Vegas, NV 89119  
(702) 486-4343 (phone)  
(702) 486-4345 (fax)  
ndomlv@minerals.nv.gov



# New NDOM Agency Brochure

## Abandoned Mine Lands Public Safety Program

Inventory, rank and mitigate physical hazards associated with abandoned mines



**Zero**

injuries or fatalities since 2013

**23,300+**

individual sites cataloged

**>80%**

of known hazards safeguarded or secured

**8**

college interns hired each year for summer and winter AML work

**100%**

funded by mining-claim fees and assistance agreements



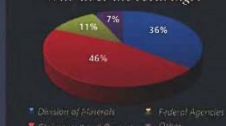
### Program Partners:

- U.S. Bureau of Land Management
- Nevada Department of Wildlife
- U.S. Forest Service
- Nevada Division of Environmental Protection
- State Historic Preservation Office
- Clark County
- Nevada Division of State Parks

### Types of securings



### Who does the securings?

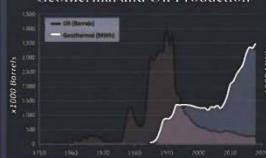


## Fluid Mineral Resources

Permit and inspect oil and gas wells, geothermal wells and dissolved mineral exploration wells

- Ensures adequate construction and design of wells to protect natural resources and prevent ground-water contamination.
- Conducts regular inspections of all geothermal, oil and gas wells throughout the state.
- Ensures safety of operators by enforcing design standards of wells and testing of equipment when necessary.
- Developed comprehensive hydraulic fracturing regulations, as part of Nevada's dual permitting process on federal lands, in 2014.
- Spearheaded the development of new regulations for dissolved mineral resources (lithium) exploration, in 2017.

### Geothermal and Oil Production



**>3.3 million MWh**

of geothermal-generated electrical production, and growing

**250,000**

homes potentially powered by Nevada's geothermal energy production each year

**2nd**

largest geothermal energy producer in the U.S.

**453**

industrial & commercial geothermal wells in Nevada

**25**

geothermal plants and 5 commercial heating and utility districts

**118**

oil/gas related wells and 1 oil refinery in Nevada

**13**

lithium brine exploration wells and boreholes drilled under new regulations

## Education and Outreach

Educate on mineral use and production, dangers of abandoned mines, and more

**2019**

by the numbers

**>475**

individual presentations

**27,400+**

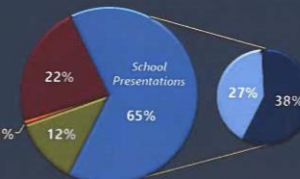
attendance at events and presentations

**20+**

unique classroom activities

**2**

earth science workshops for teachers



- School Presentations: Career Events
- School Presentations: Education Activities
- Conferences and Trade Shows
- Civic, Gov't, Professional Org's and Clubs
- Public Events



### Audiences

- Classroom presentations and activities
- Conferences, trade shows, and other industry events
- Mineral policy recommendations to Governor and Legislature
- Civic groups, clubs and professional organizations

Presentations available at [minerals.nv.gov](http://minerals.nv.gov)



## Annual Reports and Other Functions

Maps, data and other information available at: <http://data-ndom.opendata.arcgis.com/>

### Revenues



Fiscal Year 2019 amounts. \*FTEs = Full Time Employees

### Expenditures



### Publications Supported or Produced by the Division include:

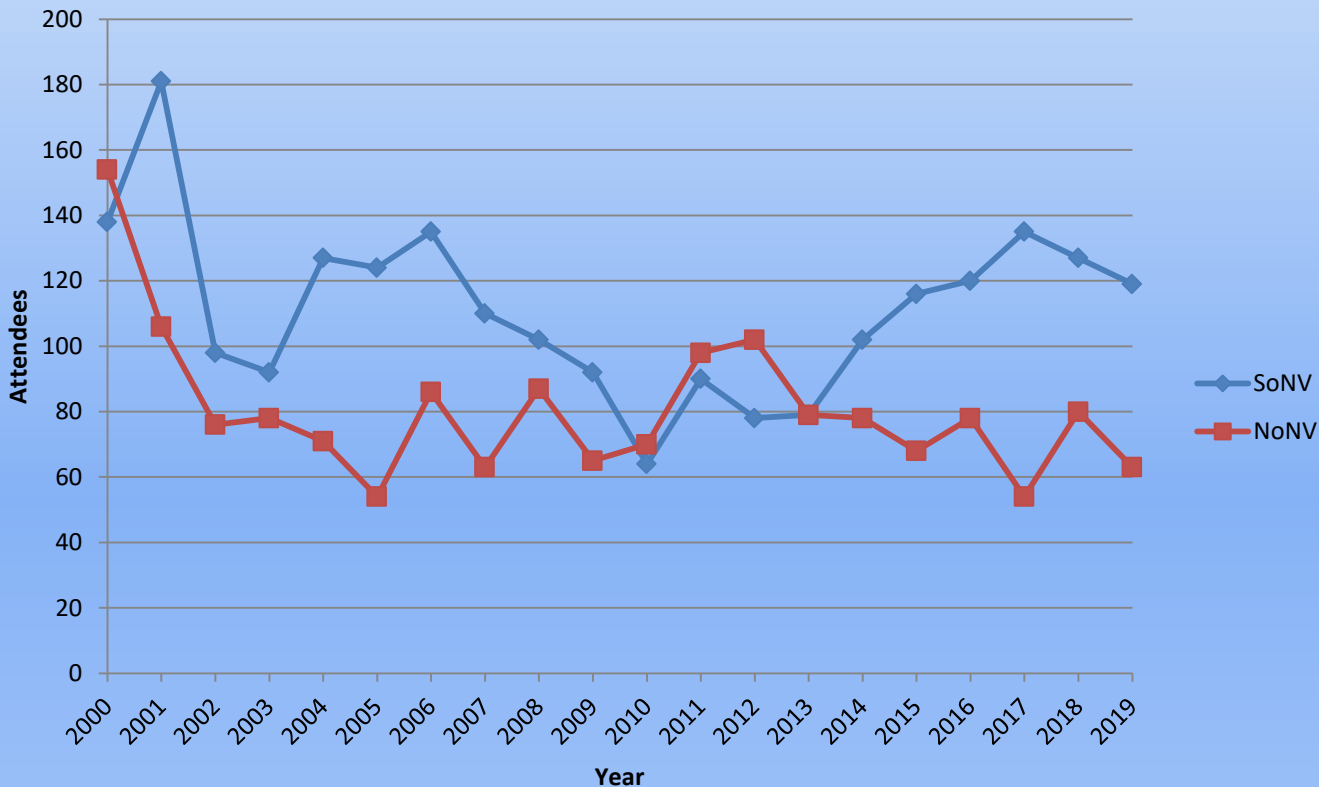
- Annual Abandoned Mine Lands Report
- Annual Major Mines of Nevada Report
- Annual Mineral Industry Report
- Technical Reports

### Reclamation Bond Pool

- The Nevada Reclamation Performance Bond Pool is designed to expedite the time-frame for obtaining a reclamation bond for notice-level exploration projects; projects that have proposed surface disturbance on BLM-managed lands totaling no more than 5 acres.
- The Bond Pool provides bonds for about 1/3 of all the notice-level projects in Nevada.
- For larger projects, Plans of Operation permitted by BLM and/or NDEP, the Bond Pool is designed to reduce the initial financial burden needed to satisfy the bond/surety requirements of the reclamation permit.

# Earth Science Teachers Workshop

Teachers' Workshop Attendance by Year



## 2020 Teachers Workshops

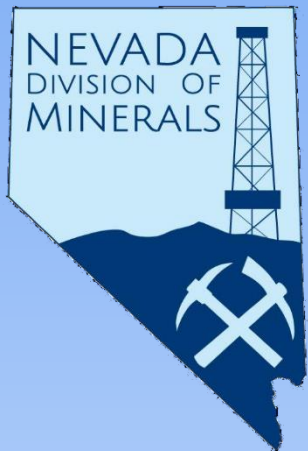
- Southern NV tentative dates
  - April 7 & 8
  - 8 Rock and Mineral courses
  - Class size from ~20 to ~30
  - Field trips
    - PABCO Gypsum
    - Lhoist IMV Nevada
    - Coeur Sterling Exploration Project
- Northern NV Tentative dates
  - June 30 & July 1
  - Location either in Ely or Carson City

# 2019 Mineral Education and Outreach

Commission on Mineral Resources Meeting

6 February, 2020

## Questions



**Rebecca Ely**  
**Nevada Division of Minerals**  
[rely@minerals.nv.gov](mailto:rely@minerals.nv.gov)  
[Minerals.nv.gov](http://Minerals.nv.gov)



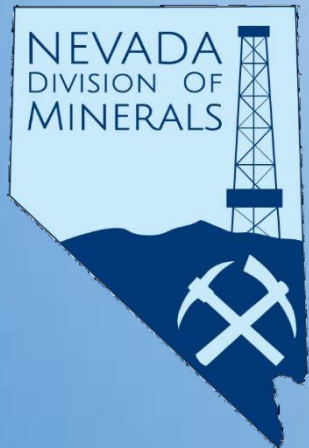
### **III. C RELOCATION OF NDOM LAS VEGAS**

#### **OFFICE**



# Staff Report – Las Vegas Office Move FY21

**Commission on Mineral  
Resources Meeting**  
6 February, 2020



**Garrett Wake**  
**Nevada Division of Minerals**  
**702-486-4344**  
[gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov)  
[minerals.nv.gov](http://minerals.nv.gov)



# Overview

- Lease comparison
- New location overview
- New office diagram
- Questions





# Timeline

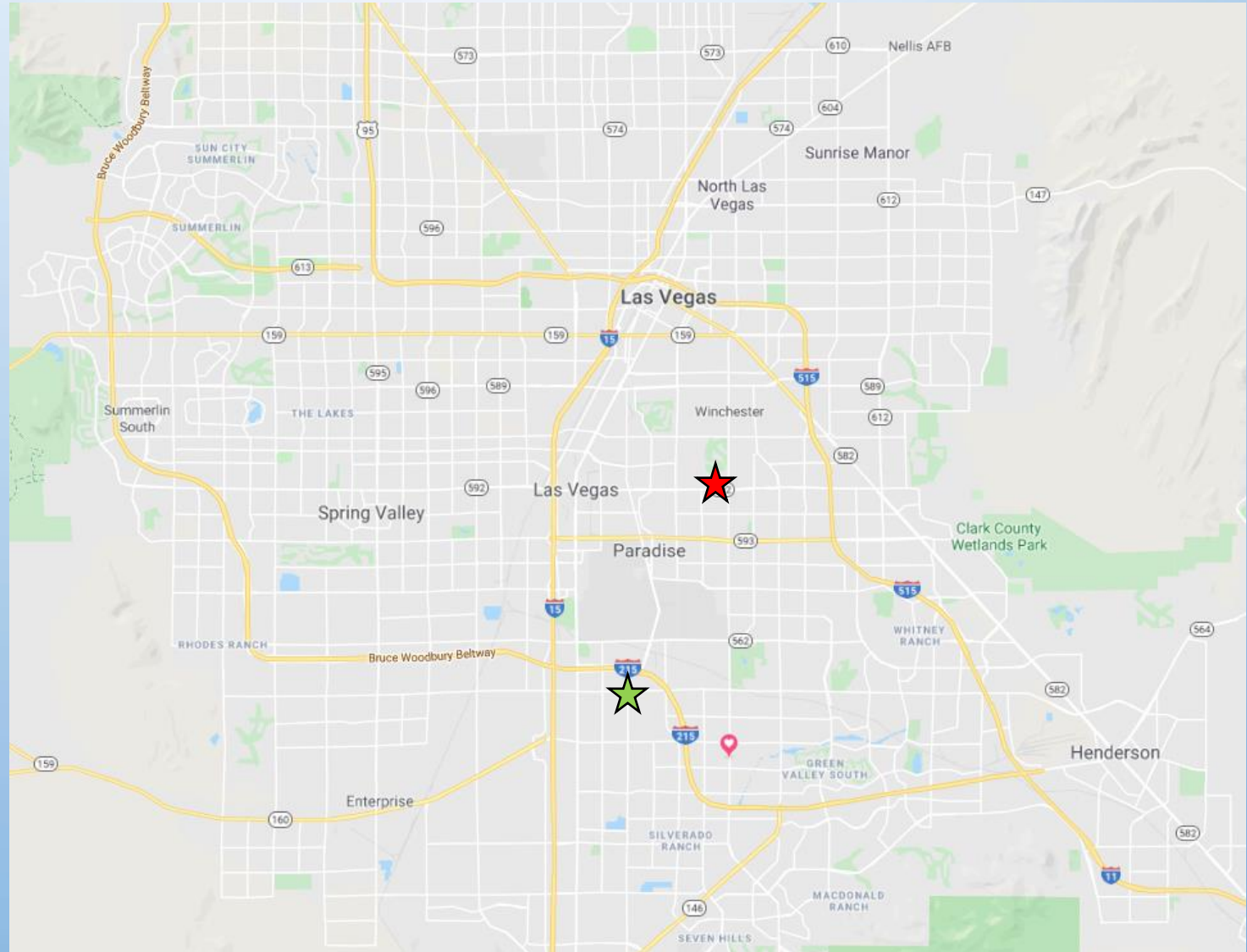
Contract signed by all parties	28 January, 2020
Board of Examiners	March 10, 2020
Construction begins	March – April
Move-in date	June 1, 2020 Contingent upon construction

# Lease Comparison

- **2030 E. Flamingo Rd. (current) ends May 31, 2020**
  - Option to extend contract month-to-month at same monthly rate as currently paying
  - May need to extend into July to accommodate construction of new office space
  - Currently paying \$1.85/sqft @ 1,200 sqft = **\$2,200/month**
- **375 E. Warm Springs (new) anticipated to start July 1, 2020 or shortly thereafter**
  - Dependent on contract completion, BoE approval, construction timeline
  - 10-year lease, ending May 31, 2029
  - 3% rent increase every other year
  - Includes of 5-months of “free rent”, which will be factored in to FY21
  - Comparable market average rate: \$2.27 sqft
  - Lease rate negotiated at \$1.80/sqft @ 1,288 sqft = **\$2,318.40/month**
- **Moving costs**
  - **\$10,500**
  - Over half is data/telecommunications infrastructure, the rest is labor to move boxes and equipment

# Location Overview

- ★ Current location
- ★ New location





# Location Overview

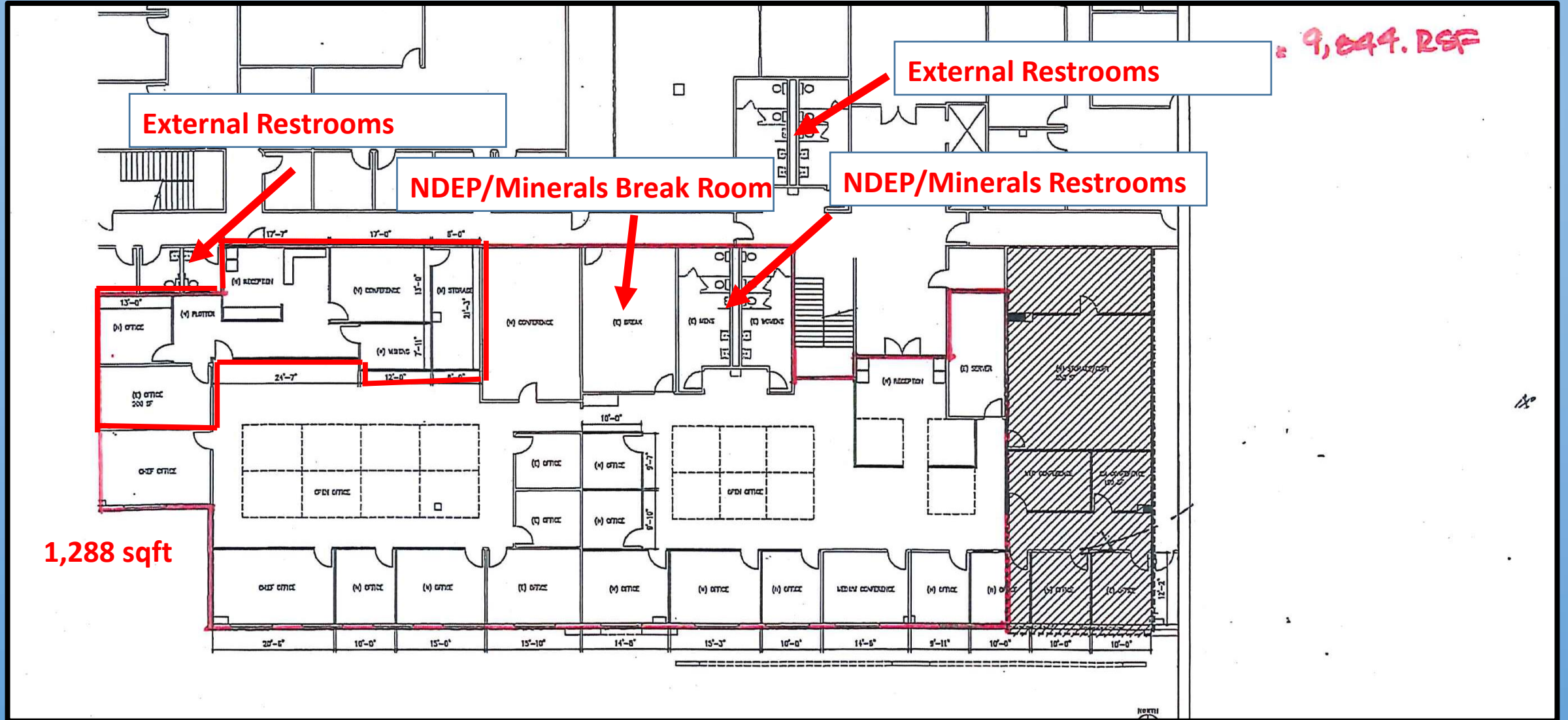




# Location Overview



# New Office Diagram

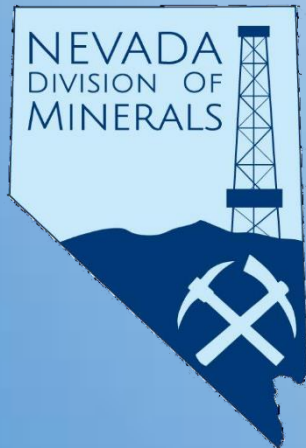




# Staff Report – Las Vegas Office Move FY21

**Commission on Mineral  
Resources Meeting  
6 February, 2020**

**Questions**



**Garrett Wake**  
**Nevada Division of Minerals**  
**702-486-4344**  
[gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov)  
[minerals.nv.gov](http://minerals.nv.gov)



**III. D REQUEST FOR SUPPORT FOR THE**  
**NEVADA EARTH SCIENCE TEACHER'S**  
**WORKSHOP**



# NEVADA

## Mining Association

### *The Champion of the 21<sup>st</sup> Century Mining Industry*

201 West Liberty Street Suite 300 Reno, NV 89501  
Tel: 775 829 2121 [www.NevadaMining.org](http://www.NevadaMining.org)

#### **OFFICERS**

Robert Stepper, Chairman  
Coeur Rochester Mine  
Greg Walker, Chair Elect  
Nevada Gold Mines  
Amanda Hilton, Vice Chair  
KGHM – Robinson Mine

Dana R. Bennett, President

#### **DIRECTORS**

Trent Anderson  
Graymont Western  
Shana Blakeley  
Allio Gold, Inc.  
Andy Britton  
Fiore Gold Pan Mine  
MaryKaye Cashman  
Cashman Equipment  
Amanda Christensen  
Sandvik Mining and Rock  
Technology  
David Copley  
EP Minerals  
Steve Cochrane  
Cyanco  
Rebecca Darling  
Nevada Gold Mines  
Alex Deeds  
American Mining &  
Tunneling  
Mary Beth Donnelly  
Newmont  
Brian Dowd  
Granite Construction  
Tim Dyhr  
Nevada Copper  
Christina Erling  
Barrick  
Greg Gibson  
SSR Mining – Marigold  
Randy Griffin  
Lhoist North America  
Annie Huhta  
University of Nevada, Reno  
Jeff Jenkins  
Franco-Nevada  
Neil Jensen  
Kinross Gold  
Michael Lefenfeld  
Cyanco  
Jack McMahon  
Elko Mining Group  
Randy Miller  
Broadbent & Associates  
Karen Narwold  
Albemarle Corporation  
Colt Nelson  
Hecla Mining Company  
Ron Parratt  
Renaissance Exploration  
Tony Sanchez  
NV Energy  
Randy Shefman  
Royal Gold  
William Hofer  
Jerritt Canyon Gold  
Alexi Zawadzki  
Lithium Nevada Corporation

January 27, 2020

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

Re: Request for financial support of the Nevada Earth Science Teachers' Workshops.

Dear Mr. Perry and the Nevada Commission on Mineral Resources:

I am writing to request continued financial support of 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 two and three-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 every year. These materials include educational rock boxes, earth science reference books (distributed to all attendees) 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 a continuation of this 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 2020-2021. 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.

Sincerely,



Terry Jennings, Chair,  
Nevada Mining Association Education Committee

**31st Annual Southern Nevada Earth Science Education Workshop 2020**  
**Class/Session Plan Chart For Tuesday, April 07, 2020** updated 01/28/2020

<b>Room#</b>	<b><u>Session 1</u> 8:15 – 9:45 a.m.</b>	<b><u>Session 2</u> 9:55 - 11:25 a.m.</b>	<b><u>Session 3</u> 12:20 - 1:50 p.m.</b>	<b><u>Session 4</u> 2:00 - 3:30 p.m.</b>	<b><u>Session 5</u> 3:40-5:10pm</b>
<b>304</b> H2O Tab-Count	<b>Minerals L1</b> K-8 Bill D/Becky	-----	<b>Rocks &amp; Geology L1</b> K-8 Bill D/Becky	-----	<b>Paste with a Taste</b> 3-8 Bill D
<b>308</b> H2O Tab-Count	<b>Minerals L1</b> K-8 DD/Beth	<b>Mineral Use Activities</b> 4-8 DD/Beth	<b>Rocks &amp; Geology L1</b> K-8 DD/Beth	<b>One In A Million</b> 3-8 Beth/Ginger	<b>Water: Yours, Ours, Mine</b> 6-12 DD/Beth/Ginger
<b>311</b> H2O Tab-Desks	<b>Minerals L1</b> K-6 Rachel M.	<b>Natural Disasters</b> 5-12 Becky/Rachel	<b>Rocks &amp; Geology L1</b> K-6 Rachel M.	<b>Weathering &amp; Erosion</b> K-12 Becky	<b>Finding Your Way</b> 4-12 Rachel/Jon/Becky
<b>312</b> H2O Tab-Count	-----	<b>Nevada's Natural Resources</b> K-12 Donna/Sean	-----	<b>Drilling for Energy</b> 6-12 Courtney	-----
<b>313</b> - Desks	<b>Minerals L2</b> (prev att L1) Lucia/Courtney	<b>Geologic Time and Fossils</b> K-8 Lucia/Courtney	<b>Rocks &amp; Geology L2</b> (prev. att. L1) Lucia/Courtney	-----	<b>TBD</b> <b>TBD</b> Pamela B.
<b>316</b> - Desks	<b>Minerals L1</b> K-8 Terry J	-----	<b>Rocks &amp; Geology L1</b> K-8 Terry J.	<b>Cupcake Core Drilling</b> 5-12 Terry J.	-----
<b>318</b> - Desks	<b>Minerals L1</b> 4-12 Garrett	<b>Rock Cycle/What Am I?</b> K-5 Garrett	<b>Rocks &amp; Geology L1</b> 4-12 Garrett	<b>Plate Tectonics</b> 6-12 Rachel/Garrett	<b>Mineral Identification</b> 3-12 Garrett
<b>320</b> - Desks	<b>Minerals L1</b> K-8 Lorri Dee	<b>The Circle of Mine Life/Reclamation</b> 3-12 Ginger	<b>Rocks &amp; Geology L1</b> K-8 Lorri Dee	<b>Build a Mine</b> 4-12 Joe	<b>Build a Mine</b> 4-12 Joe/Terry
<b>322</b> - Desks	<b>Minerals L1</b> 9-12 Jon	<b>Critical Elements of Energy</b> 6-12 Jon	<b>Rocks &amp; Geology L1</b> 9-12 Jon	-----	<b>Nevada Mining History</b> K-6 Courtney
<b>402 HE</b> H2O Tables	-----	-----	-----	<b>Edible Geology</b> K-8 Lucia	<b>Edible Geology</b> K-8 Lucia

**Tour #1 ....PABCO Gypsum / Tule Springs Fossil Beds / Frenchman Mtn Geology ..... Garrett, Terry, DD, Lori D**

**Tour #2 ....US Ecology / Lhoist IMV Nevada..... Courtney, Rachel**

**Tour #3 ....Sterling Exploration Proj. / Rhyolite Ghost Town..... Becky, Jon, Beth**

Rooms Available 2020:

304(lab), 306(lab), 308(lab), 311,  
312(lab), 313, 314, 316, 318, 320, 322,  
323, 402

**31st Annual Southern Nevada Earth Science Education Workshop 2020**  
**April 7th & 8th, 2020**  
**Faith Lutheran Jr/Sr High School, 2015 S. Hualapai Way, Las Vegas, NV 89117**  
**Agenda as of 01/28/2020 das**

**#1 - Implementation Strategies for suggested classroom activities focusing on a "hands-on/minds-on" approach to teaching and student participation which include technology, environment, occupations/careers, mineral resource utilization and geologic processes.**

**#2 - Mineral Industry Overview**

**#3 - Mining Operation(s) Tour**

**Tuesday, April 07, 2020**

		<b><u>no.1</u></b>	<b><u>no.2</u></b>	<b><u>no.3</u></b>	<b><u>total</u></b>
7:00 AM -	7:45 AM Registration and Continental Breakfast	-	-	-	<b>0:00</b>
7:45 AM -	7:50 AM Welcome and Introductions - Terry Jennings/Garrett Wake	-	0:05	-	<b>0:05</b>
7:50 AM	7:55 AM Opening Remarks - Rob Stepper - G.M., Coeur Rochester Mine	-	0:05	-	<b>0:05</b>
7:55 AM -	8:05 AM In the Bag - All Participants	0:10	-	-	<b>0:10</b>
8:05 AM -	8:15 AM Break - Move to Session I classrooms	-	-	-	<b>0:00</b>
8:15 AM -	9:45 AM CONCURRENT SESSION I	1:30	-	-	<b>1:30</b>
9:45 AM -	9:55 AM Break	-	-	-	<b>0:00</b>
9:55 AM -	11:25 AM CONCURRENT SESSION II	1:30	-	-	<b>1:30</b>
11:25 AM -	12:10 PM Lunch	-	-	-	<b>0:00</b>
12:00 PM -	12:10 PM Mine Safety Orientation - Joe Riney, Dir. Of Workforce Engagement, Nevada Mining Asso.	-	0:10	-	<b>0:10</b>
12:20 PM -	1:50 PM CONCURRENT SESSION III	1:30	-	-	<b>1:30</b>
1:50 PM -	2:00 PM Break	-	-	-	<b>0:00</b>
2:00 PM -	3:30 PM CONCURRENT SESSION IV	1:30	-	-	<b>1:30</b>
3:30 PM -	3:40 PM Break	-	-	-	<b>0:00</b>
3:40 PM -	5:10 PM CONCURRENT SESSION V	1:30	-	-	<b>1:30</b>

**Wednesday, April 08, 2020**

7:00 AM -	7:45 AM Continental Breakfast	-	-	-	<b>0:00</b>
7:45 AM -	7:50 AM Welcome	-	0:05	-	<b>0:05</b>
7:50 AM -	8:20 AM Grade Level Breakout	-	0:30	-	<b>0:30</b>
8:20 AM -	8:30 AM Nevada Mining Asso.	-	0:10	-	<b>0:10</b>
8:30 AM -	8:40 AM Garrett Wake, Chief So. NV. Ops., Nevada Div. of Minerals - Stay Out and Stay Alive	-	0:10	-	<b>0:10</b>
8:40 AM -	8:50 AM <b>Frankie Graham, Career Overview</b>	-	0:10	-	<b>0:10</b>
8:50 AM -	9:00 AM Giveaways	-	-	-	<b>0:00</b>
9:00 AM -	9:15 AM Break	-	-	-	<b>0:00</b>
9:15 AM -	9:20 AM Pickup lunches, hardhats (prepare for tours)	-	-	-	<b>0:00</b>
9:20 AM -	5:30 PM Field Trips	-	-	7:25	<b>7:25</b>
	** Lunch en route to tours or between tours on bus (30 minutes)	-	-	-	<b>0:00</b>
	** Break on bus (15 minutes)	-	-	-	<b>0:00</b>
		-	-	-	<b>0:00</b>

**TOTAL INSTRUCTION HOURS:MINUTES - 7:40 1:25 7:25 16:30**

### **III. E RECLAMATION OF THE FALLON**

#### **BENTONITE MINE**

THIS SECTION IS INTENTIONALLY LEFT BLANK.  
HAND OUTS AND PRESENTATION WILL BE GIVEN AT THE  
MEETING.



## **IV. OLD BUISNESS**

## **IV. A UPDATE TO REGULATION CHANGES** **TO NAC 517, MINING CLAIMS CHAPTER**

## CHAPTER 517 - MINING CLAIMS, MILL SITES AND TUNNEL RIGHTS

### GENERAL PROVISIONS

[NRS 517.003](#) “Division” defined.

### LOCATION OF MINING CLAIMS, MILL SITES AND TUNNEL RIGHTS

#### LODE CLAIMS

[NRS 517.010](#) Person entitled to locate; requirements for location.  
[NRS 517.030](#) Monumenting of claim; required removal of plastic monuments.  
[NRS 517.040](#) Map: Specifications; filing; distribution; use of filing fee.  
[NRS 517.050](#) Certificate of location: Recording; contents; effect of insufficiency.  
[NRS 517.080](#) Relocation of abandoned lode claim.

#### PLACER CLAIMS

[NRS 517.090](#) Requirements for location.  
[NRS 517.100](#) Map: Specifications; filing; use of filing fee.  
[NRS 517.110](#) Certificate of location: Recording; contents; effect of insufficiency.

#### TAILINGS AND WASTE

[NRS 517.115](#) Evidence of abandonment; acquisition after abandonment.

#### MILL SITES

[NRS 517.120](#) Location of nonmineral land as mill site.  
[NRS 517.130](#) Requirements for location.  
[NRS 517.140](#) Certificate of location: Recording; contents; effect of insufficiency.

#### TUNNEL RIGHTS

[NRS 517.150](#) Requirements for location.  
[NRS 517.160](#) Definition of boundaries; erection of monuments.  
[NRS 517.170](#) Recording of certificate of location; filing of map; effect of insufficiency.  
[NRS 517.180](#) Location of blind or unknown lode or vein in tunnel.

### GENERAL PROVISIONS

[NRS 517.185](#) Fee for each document filed; disposition.  
[NRS 517.190](#) Notice of location: Filing; evidentiary effect.  
[NRS 517.195](#) Separate notices and certificates of location; effect of combining locations in notice or certificate.  
[NRS 517.200](#) Validation of defective certificate of location or change of boundaries: Filing of amended certificate of location; effect of amendment; correction of common error.  
[NRS 517.210](#) Survey of location: Evidentiary effect of field notes and surveyor’s certificate.  
[NRS 517.213](#) Inclusion of patented mines and mining claims on county map; conformity of discrepancy between county map and record of survey showing location of mine or claim; duty of county recorder to provide map to county assessor.  
[NRS 517.215](#) Comparison of record of survey to county map of other claims; proposal to change map; notice; hearing.  
[NRS 517.230](#) Affidavit of work performed or improvements made; affidavit of owner or claimant; evidentiary effect of affidavits.  
[NRS 517.280](#) Certificates of location need not be sworn to; no required form.  
[NRS 517.290](#) Applicability of [NRS 517.010](#) to [517.280](#), inclusive.

[NRS 517.300](#)      Unlawful acts; penalties.

## EFFECT OF PREVIOUSLY RECORDED DOCUMENTS; CONVEYANCES

[NRS 517.350](#)      Written instruments recorded in office of county recorder before February 20, 1873, deemed to impart notice to subsequent purchasers and encumbrancers.

[NRS 517.360](#)      Records of mining claims, mill sites or tunnel rights made by mining district recorder or county recorder before March 16, 1897, declared valid; evidentiary effect of record.

[NRS 517.370](#)      Conveyances of mining claims: Formalities; construction and proof of conveyances before December 12, 1862.

[NRS 517.380](#)      Validity of previous conveyances of mining claims or locations by minors more than 18 years of age.

## SALES BY COUNTIES OF PATENTED MINING CLAIMS

[NRS 517.390](#)      Affidavit and petition to explore and develop mine or claim.

[NRS 517.400](#)      Determination of amount of taxes, penalties and costs.

[NRS 517.410](#)      Permission to explore and develop claim; limitations.

[NRS 517.420](#)      Execution of deed to convey title to petitioner; consideration and limitations; disposition of proceeds of sale.

[NRS 517.430](#)      Renewal of prospecting permits: Limitations and extensions.

[NRS 517.450](#)      Sale of mine or claim not subject to prospecting permit: Affidavit and petition.

[NRS 517.460](#)      Sale of mine or claim not subject to prospecting permit: Order for and notice of sale; conveyance to purchaser; disposition of proceeds.

## GENERAL PROVISIONS

**NRS 517.003 “Division” defined.** As used in this chapter, unless the context otherwise requires, “Division” means the Division of Minerals of the Commission on Mineral Resources.  
(Added to NRS by [1999, 3628](#))

## LOCATION OF MINING CLAIMS, MILL SITES AND TUNNEL RIGHTS

### Lode Claims

**NRS 517.010 Person entitled to locate; requirements for location.** Any person who is a citizen of the United States, or who has legally declared his or her intention to become a citizen of the United States, who discovers a vein or lode may locate a lode mining claim thereon by:

1. Defining the boundaries of the claim in the manner and within the time prescribed by [NRS 517.030](#);
2. Erecting or constructing at the point of the discovery a monument of the size and character of any of the several monuments prescribed in [NRS 517.030](#); and
3. Posting in or upon the monument of location a notice of the location, which must contain:
  - (a) The name of the claim.
  - (b) The name of the locator and the locator’s mailing address.
  - (c) The date of location.
  - (d) The number of linear feet claimed in the length along the course of the vein, each way from the point of discovery, with the width claimed on each side of the center of the vein and the general course of the lode or vein, as near as may be.

[1:89:1897; A 1907, 418; 1919, 386; 1925, 29; R 1927, 7; A 1941, 92; 1931 NCL § 4120]—(NRS A 1971, 218; [1985, 1494](#))

**NRS 517.030 Monumenting of claim; required removal of plastic monuments.**



1. Within 60 days after posting the notice of location, the locator of a lode mining claim shall distinctly define the boundaries of the claim by placing a valid legal monument at each corner of the claim. A valid legal monument may be created by:

(a) Blazing and marking a tree, which has a diameter of not less than 4 inches, not less than 3 feet above the ground;

(b) Capping a rock in place with smaller stones so that the rock and stones have a height of not less than 3 feet; or

(c) Setting a wooden or metal post or a stone.

2. If a wooden post is used, the dimensions of the post must be at least 1 1/2 inches by 1 1/2 inches by 4 feet, and the post must be set 1 foot in the ground.

3. If a metal post is used, the post must be at least 2 inches in diameter by 4 feet in length and be set 1 foot in the ground. If the metal post is hollow, it must:

(a) Be securely capped or crimped in a manner that securely closes the top of the post; and

(b) Have no open perforations.

4. If it is practically impossible, because of bedrock or precipitous ground, to sink a post, it may be placed in a mound of earth or stones. If the proper placing of a monument is impracticable or dangerous to life or limb, the monument may be placed at the nearest point properly marked to designate its right place.

5. If a stone is used which is not a rock in place, the stone must be not less than 6 inches in diameter and 18 inches in length and be set with two-thirds of its length in the top of a mound of earth or stone 3 feet in diameter and 2 1/2 feet in height.

6. Except as otherwise provided in subsection 7, a durable plastic pipe that was set before March 16, 1993, for the purpose of defining the boundaries of a lode mining claim shall be deemed to constitute a valid legal monument if:

(a) The pipe is at least 3 inches in diameter by 4 feet in length and is set 1 foot in the ground; and

(b) The pipe is securely capped with no open perforations.

7. The locator of a lode mining claim located before March 16, 1993, the boundaries of which are defined by a durable plastic pipe described in subsection 6, or the locator's successor in interest, shall, on or before November 1, 2011, remove the durable plastic pipe and replace the monument of location and the corner monuments with valid legal monuments in the manner prescribed pursuant to subsection 1. If the locator or the locator's successor in interest replaces the durable plastic pipe on or before that date, the locator or the locator's successor in interest shall, within 60 days after the replacement, record a notice of remonumentation with the county recorder of the county in which the claim is located and pay the fee required by [NRS 247.305](#). The notice must contain:

(a) The name of the claim;

(b) The book and page number or the document number of the certificate of location or the most recent amendment to the certificate of location;

(c) The book and page number or the document number of the map filed pursuant to [NRS 517.040](#); and

(d) A description of the monument used to replace each monument that is removed.

➤ The notice may include more than one claim. Any durable plastic pipe that is removed pursuant to this subsection must be taken from the lode mining claim and disposed of in a lawful manner.

8. After November 1, 2011, any durable plastic pipe that is not removed pursuant to subsection 7 may be removed and placed on the ground immediately adjacent to the location from which it is removed to preserve evidence of its use as a monument for the lode mining claim.

9. The replacement of a durable plastic pipe or the recording of a notice pursuant to subsection 7 does not:

(a) Amend or otherwise affect the legal validity of the claim for which the monuments were created;

(b) Modify the date of location of the claim; or

(c) Require the filing of an additional or amended map pursuant to [NRS 517.040](#).

[Part 2:89:1897; A 1899, 93; 1901, 97; 1907, 418; RL § 2423; NCL § 4121]—(NRS A 1971, 2197; [1985, 1495](#); [1993, 24, 25](#); [1995, 119, 121](#); [2009, 829](#))

#### **NRS 517.040 Map: Specifications; filing; distribution; use of filing fee.**

1. Within 90 days after posting the notice of location, the locator of a lode mining claim shall prepare two copies of a map of the claim on a scale of not less than 500 feet to the inch, which sets forth the position of the monuments in relation to each other and establishes numbers of the boundary monuments. If the land has been surveyed by the United States, the description must be connected by courses and distances to an official corner of the public land survey. If the land has not been surveyed by the United States or if official corners cannot be found through the exercise of due diligence, the description must be tied by courses and distance to a natural landmark or a

readily identifiable artificial landmark which is customarily shown on a map, including, without limitation, a bench mark or the point at which two roads intersect. The description must also state the township and range, and if the lands are surveyed lands, the quarter section and section in which the landmark and the mining claim are situated. The locator is not required to employ a professional surveyor or engineer, but each locator shall prepare a map which is in accordance with the locator's abilities to map and properly set forth the boundaries and location of the locator's claim. The size of each sheet must be 8 1/2 by 14 inches or 24 by 36 inches. Any 8 1/2- by 14-inch sheet must be capable of being photocopied. Any 24- by 36-inch sheet must be a mylar print or other material capable of being reproduced by standard means.

2. Within 90 days after the posting of the notice of location, the locator shall file both copies of the map with the county recorder in the county in which the claim is located together with a filing fee of \$15 for each claim whose boundaries and location are set forth on the map.

3. Using the proceeds of these filing fees, the county:

(a) Shall establish and maintain, in accordance with the regulations of the Division, a map of the mining claims in the county that must accurately record the location of all mining claims filed after July 1, 1971;

(b) Shall purchase and maintain the necessary equipment used in establishing, maintaining and duplicating the map; and

(c) May use any remaining money for any purpose determined by the county recorder.

☛ The map is a public record.

4. The county recorder shall not refuse to accept a map submitted by a locator unless the county recorder can affirmatively show that the map submitted does not accurately reflect the location of all the claims.

5. The county recorder shall send one copy of the locator's map and one copy of the certificate of location to the county surveyor as soon as practicable after its receipt.

[Part 2:89:1897; A 1899, 93; 1901, 97; 1907, 418; RL § 2423; NCL § 4121]—(NRS A 1960, 291; 1961, 100; 1971, 2198; 1973, 868; 1983, 1609; [1985, 1496, 1691](#); [1987, 318](#); [1993, 1685](#); [1999, 3628](#))

#### **NRS 517.050 Certificate of location: Recording; contents; effect of insufficiency.**

1. When the locator files his or her map pursuant to [NRS 517.040](#), the locator shall present to the county recorder for recording, together with the usual recording fees, duplicate certificates of location which contain:

(a) The name of the lode or vein.

(b) The name of the locator and the locator's mailing address.

(c) The date of the location.

(d) The number of linear feet claimed in length along the course of the vein each way from the point of discovery with the width on each side of the center of the vein, and the general course of the lode or vein as near as may be.

(e) A statement that the work of location consisted of making the maps as provided in [NRS 517.040](#).

(f) The location and description of each corner, with the markings thereon.

2. Any record of the location of a lode claim which does not contain all the requirements named in this section recorded on or after July 1, 1971, is void, and every location of a mining claim recorded on or after July 1, 1971, is void unless a certificate of location thereof substantially complying with the above requirements is recorded with the county recorder of the county in which the claim is located within 90 days after the date of location.

3. This section does not invalidate a record of location of a mining claim which was validly located and recorded before July 1, 1971.

[Part 3:89:1897; A 1907, 418; 1941, 92; 1931 NCL § 4122]—(NRS A 1960, 292; 1961, 100; 1971, 2199; 1983, 1610; [1985, 1497](#))

#### **NRS 517.080 Relocation of abandoned lode claim.**

1. The relocation of an abandoned lode claim must be made by preparing two copies of a map of the claim as provided by [NRS 517.040](#), and erecting new boundaries or adopting the old boundaries by renewing the monuments if they have been removed or destroyed. In either case, a new monument of location must be erected.

2. Two copies of the claim map must be filed with duplicate certificates of location with the county recorder of the county in which the claim is situated, accompanied by a filing fee as prescribed in [NRS 517.040](#).

[7:89:1897; C § 214; RL § 2428; NCL § 4126]—(NRS A 1971, 2200; 1983, 349; [1985, 1498](#))

### **Placer Claims**

#### **NRS 517.090 Requirements for location.**

1. The location of a placer claim shall be made in the following manner:
  - (a) By posting thereon, upon a monument meeting the requirements of [NRS 517.030](#), erected at any point along the north boundary, a notice of location containing:
    - (1) The name of the claim;
    - (2) The name of the locator or locators, together with the post office address of such locator or locators;
    - (3) The date of location; and
    - (4) The number of feet or acres claimed; and
  - (b) By marking the boundaries and the location point in the same manner and by the same means as required by the laws of this state for marking the boundaries of lode claim locations.
2. Where the United States survey has been extended over the land embraced in the location, the claim may be taken by legal subdivisions, and, except the marking of the location point as prescribed in subsection 1, no other markings than those of such survey shall be required.  
[13:89:1897; A 1899, 93; C § 220; RL § 2434; NCL § 4132]—(NRS A 1971, 2200)

**NRS 517.100 Map: Specifications; filing; use of filing fee.** Within 90 days after posting the notice of location of a placer claim, the locator shall:

1. Prepare two copies of a map of the claim which must be of a scale of not less than 500 feet to the inch. If the United States survey has been extended over the land embraced in the location, the claim may be taken and described on the map by legal subdivisions as provided in [NRS 517.090](#). If the land has not been surveyed by the United States or if official corners cannot be found through the exercise of due diligence, the map must set forth the position of the monuments in relation to each other and establish numbers of monuments, and the descriptions must be tied to a natural landmark or a readily identifiable artificial landmark as provided in [NRS 517.040](#).
2. File the maps with the county recorder in the county in which the claim is located together with a filing fee of \$1 per acre. One-half of the filing fee must be used by the county to establish and maintain, in accordance with the regulations of the Division, a map of the mining claims in the county that must accurately record the location of all mining claims filed after July 1, 1971, which is a public record. The remaining part of the fee may be used for the same purposes as any other general revenue of the county.

[Part 14:89:1897; A 1899, 93; C § 221; RL § 2435; NCL § 4133]—(NRS A 1971, 2200; [1985, 1498](#); [1993, 1686](#); [1999, 3629](#))

**NRS 517.110 Certificate of location: Recording; contents; effect of insufficiency.**

1. When the locator files his or her maps pursuant to [NRS 517.100](#), the locator shall present to the county recorder for recording, together with the usual recording fees, duplicate certificates of location which state:
  - (a) The name of the claim, designating it as a placer claim.
  - (b) The name of the locator and the locator's mailing address.
  - (c) The date of location.
  - (d) The number of feet or acres claimed.
2. This certificate, or the record thereof, or a certified copy of the record is prima facie evidence of the recitals therein.
3. If the certificate does not state all the facts required by this section to be stated, it is void.

[Part 14:89:1897; A 1899, 93; C § 221; RL § 2435; NCL § 4133]—(NRS A 1971, 2201; 1983, 1611; [1985, 1499](#))

**PROPOSED REGULATION OF THE  
COMMISSION ON MINERAL RESOURCES**

**LCB FILE NO. R108-19I**

**The following document is the initial draft regulation proposed  
by the agency submitted on 12/02/2019**



**NEVADA DIVISION OF MINERALS**  
**PROPOSED REVISIONS**  
**TO NAC CHAPTER 517 – MINING CLAIMS**  
**Submitted to LCB for review on November 27, 2019**  
(Additions in *blue italics*, deletions in ~~red strikethrough~~)

**GENERAL PROVISIONS**

**NAC 517.010 Definitions.** (NRS 517.100) As used in this chapter, unless the context otherwise requires, the words and terms defined in NAC 517.020 to 517.110, inclusive, have the meanings ascribed to them in those sections.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.020 “Base map” defined.** (NRS 517.100) “Base map” means a sheet of Mylar® or other permanent material capable of being reproduced by standard means, which depicts the locations of all patented and unpatented mining claims recorded in a township, fractional township or portion of a township included within the boundaries of a county.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.030 “Claim” defined.** (NRS 517.100) “Claim” means any patented or unpatented mining claim.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.040 “Claimant” defined.** (NRS 517.100) “Claimant” means a person who is the holder of the right to sell or transfer all or any part of his or her interest in an unpatented mining claim or is the owner of a patented mining claim.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.050 “County map of mining claims” defined.** (NRS 517.100) “County map of mining claims” means the set of maps established and maintained by a county, pursuant to the regulations of the Division of Minerals of the Commission on Mineral Resources, which accurately delineates the location of all claims recorded in the county after July 1, 1971. The map consists of all the base maps and overlays which are required to depict adequately all areas of land which contain claims located within the county.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.060 “Fractional township” defined.** (NRS 517.100) “Fractional township” means a township ~~whose area is more or less than 36 square miles~~ *containing less than 36 normal sections* as established by the Federal Government.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.065 “Government lot” defined.** *“Government lot” means a subdivision of a section which is not described as an aliquot part of the section, but which is designated by number, e.g., LOT 2. A government lot may be regular or irregular and its acreage varies from that of regular subdivisions.*

*NAC 517.066 “Master title plat” defined. “Master title plat” means a composite of the federal government survey plats of a township on which is shown the ownership and land status.*

**NAC 517.070 “Overlay” defined.** (NRS 517.100) “Overlay” means a sheet of Mylar® or other permanent material capable of being reproduced by standard means, with the township and range identified and the section lines shown, upon which claims may be plotted if the base map becomes cluttered because of a congestion of claims in one or more areas.

(Added to NAC by Dep’t of Minerals, eff. 9-1-88)

**NAC 517.080 “Patented mining claim” defined.** (NRS 517.100) “Patented mining claim” means a lode or placer claim or mill site for which a patent has been issued by the Federal Government.

(Added to NAC by Dep’t of Minerals, eff. 9-1-88)

**NAC 517.090 “Person” defined.** (NRS 517.100) “Person” means a natural person, any form of business or social organization and any other legal entity including, but not limited to, a corporation, partnership, association, trust, unincorporated organization, government, governmental agency or political subdivision of a government.

(Added to NAC by Dep’t of Minerals, eff. 9-1-88)

*NAC 517.091 “Protraction diagram” defined. “Protraction diagram” means a diagram prepared by the federal government, and filed in the Nevada State Office of the Bureau of Land Management, representing the plan for the extension of the rectangular system over unsurveyed lands.*

*NAC 517.095 “Section” defined. “Section” means the unit of subdivision of a township with boundaries conforming to the rectangular system of surveys, nominally one square mile, containing 640 acres.*

**NAC 517.100 “Township” defined.** (NRS 517.100) “Township” means ~~land originally divided by the Federal Government by lines intersecting true north and south lines at right angles so as to form parcels measuring 6 miles square. Each township is subdivided into 36 sections, each 1 mile square and containing 640 acres as nearly as may be and must be numbered, respectively, beginning with the number 1 in the northeast section and proceeding west and east alternately through the township with progressive numbers to and including 36 located in the southeast section~~ *the unit of survey of the public lands; normally a quadrangle approximately 6 miles on a side with boundaries conforming to meridians and parallels within established limits, containing thirty-six sections, some of which are designed to correct for the convergence of meridians or range lines.*

(Added to NAC by Dep’t of Minerals, eff. 9-1-88)

**NAC 517.110 “Unpatented mining claim” defined.** (NRS 517.100) “Unpatented mining claim” means a lode or placer claim, tunnel right or mill site located pursuant to 30 U.S.C.A. §§ 22 to 54, inclusive, for which a patent has not been issued.

(Added to NAC by Dep’t of Minerals, eff. 9-1-88)

## MAPS

### **NAC 517.120 Basic drafting standards. (NRS 517.100)**

1. The name of the county, township and range must appear at the top of each base map or overlay.
2. Section lines must be accurately drawn for each township, *or fractional township, and conform to those depicted on federal government master title plat, or protraction diagram for unsurveyed lands*, and section numbers must be properly labeled in each section.
3. Each new claim plotted after July 1, 1987, must be drawn in black permanent ink. The outline of each claim plotted before July 1, 1987, must be drawn in permanent waterproof ink and be clearly distinguishable if reproduced by standard means.
4. Except as otherwise provided in subsection 5, each claim must be plotted at a scale of 1 inch equaling 2,000 feet or 30 chains equaling 1 inch.
5. The Administrator of the Division of Minerals of the Commission on Mineral Resources may, upon request, approve an alternate scale.  
(Added to NAC by Dep't of Minerals, eff. 9-1-88)

### **NAC 517.130 Designation of townships containing no claims; inclusion of extraneous information. (NRS 517.100)**

1. For each township or fractional township which does not contain any claims there must be one base map or a statement that the township or fractional township does not contain any claims. If such a statement is included, it must be placed in the master index for the county map of mining claims.
2. A base map or overlay must not include topographic features or other extraneous information. If master title plats, *or protraction diagrams*, obtained from the Bureau of Land Management are used as base maps or overlays and those plats contain information other than the information required pursuant to this chapter, that information is not required to be removed from the map.  
(Added to NAC by Dep't of Minerals, eff. 9-1-88)

### **NAC 517.140 Identification of patented and unpatented claims. (NRS 517.100)**

1. Each patented mining claim must be identified on the base map or overlay by the appropriate patented mining claim number assigned by the Bureau of Land Management and must be described in the manner prescribed in NAC 517.160.
2. The location of each unpatented mining claim which is recorded in the county must be drafted on the proper base map or overlay from the location map furnished by the claimant. Each unpatented mining claim must be identified on the base map or overlay by the name of the claim or the number or letter assigned to the claim by the county surveyor.
3. Crosshatching, stippling or any other similar method of drafting must be used to distinguish between patented and unpatented claims.  
(Added to NAC by Dep't of Minerals, eff. 9-1-88)

### **NAC 517.150 Preparation of overlays. (NRS 517.100)**

1. If an area of a base map becomes cluttered by a congestion of claims, an overlay of the same material and construction as the original must be prepared in the same manner and at the

same scale as the base map and used for all future plotting. If that overlay becomes cluttered, additional overlays must be similarly made and used.

2. Each overlay so constructed must:

- (a) Be numbered sequentially for each base map for which they are used;
- (b) Include the year in which the first claim was plotted on the overlay; and
- (c) Precede the base map for which it overlays.

3. No information may be included on the base map or overlay to distinguish among a lode or placer claim, mill site or tunnel right. The information may be included in the description of the claim as prescribed in NAC 517.160.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.160 Descriptions of claims. (NRS 517.100)**

1. Except as otherwise provided in NAC 517.170, the description of each claim depicted on a base map or overlay must be drafted in the space provided on the right-hand side of the map or on a separate facing page.

2. Information contained in the description must include:

- (a) The number or letter assigned to the claim by the county surveyor;
- (b) The name of the claim;
- (c) The name of the original locator of an unpatented claim; and
- (d) The mineral survey number for each patented claim.

3. If the space provided on the right-hand side of the base map or overlay is not sufficient to describe each of the claims shown on a base map or overlay, a separate sheet must be used to describe the additional claims.

4. The separate sheet must be:

- (a) The same size and contain the same information as the space originally provided; and
- (b) Affixed permanently to the base map or overlay in such a manner that all the descriptions of the claims are visible at the same time.

5. All lettering in the description of the claim must be done in a neat, legible and uniform manner.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.170 Use of separate sheet to describe claims. (NRS 517.100)** The county surveyor may use a separate sheet for placing the description of a claim on a base map or overlay if:

- 1. That procedure is used for the complete county map of mining claims;
- 2. The sheet is the same size as the sheet used for the base map or overlay;
- 3. The sheet is placed in the binder in front of and facing the base map or overlay to which it applies;

4. A separate facing sheet is used for each base map or overlay; and

5. The sheet is properly identified with the base map or overlay and contains the information required pursuant to NAC 517.160.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.180 Notifying claimant of deficiency in map; filing amended map. (NRS 517.100)** If a claim location map is recorded by a locator and that map does not provide adequate information for plotting on the county map of mining claims, the county surveyor shall promptly notify the claimant of the deficiency. The claimant shall file with the county recorder an amended



map which contains the necessary information pursuant to subsection 2 of NRS 517.040. *For the purposes of determining deficiency of a map depicting placer claims, placer claims may be described on the map by:*

- 1) Aliquot parts for surveyed sections; or*
- 2) Aliquot parts for unsurveyed sections depicted on a protraction diagram; or*
- 3) Metes and bounds for unsurveyed sections depicted on a protraction diagram which are denoted as having more than or less than 640 acres; or*
- 4) Complete government lots for the allowed acreage of the claim; or*
- 5) Metes and bounds for a portion of a government when the lot is greater than 20 acres.*

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**NAC 517.190 County map of mining claims: Updating; maintenance of original and copy. (NRS 517.100)**

1. Each county map of mining claims must be updated and all new claims must be added to the map at least once each month.
2. The original of each county map of mining claims must be kept in good condition and in a safe place.
3. A complete and accurate copy of the map must be:
  - (a) Kept at the county seat;
  - (b) Available for use by the public;
  - (c) Updated once each month in the same manner as the original map; and
  - (d) Maintained in a secure binder in numerical order by township and range.

(Added to NAC by Dep't of Minerals, eff. 9-1-88)

**FEES**

**NAC 517.200 Filing fee. (NRS 513.063, 517.185)** The amount of the filing fee that is imposed pursuant to subsection 1 of NRS 517.185 is \$6 per claim.

(Added to NAC by Comm'n on Mineral Resources by R069-99, eff. 8-19-99; A by R080-01, 1-16-2002; R199-08, 8-26-2008, eff. 8-27-2008)

**IV. B UPDATE TO REGULATION CHANGES**  
**TO NAC 534A AND NAC 519A.290**

STATE OF NEVADA  
LEGISLATIVE COUNSEL BUREAU

LEGISLATIVE BUILDING  
401 S. CARSON STREET  
CARSON CITY, NEVADA 89701-4747  
Fax No.: (775) 684-6600



LEGISLATIVE COMMISSION (775) 684-6800  
NICOLE J. CANNIZZARO, Senator, Chair  
Rick Combs, Director, Secretary

INTERIM FINANCE COMMITTEE (775) 684-6821  
MAGGIE CARLTON, Assemblywoman, Chair  
Cindy Jones, Fiscal Analyst  
Mark Krmpotic, Fiscal Analyst

RICK COMBS, Director  
(775) 684-6800

BRENDA J. ERDOES, Legislative Counsel (775) 684-6830  
DANIEL L. CROSSMAN, Legislative Auditor (775) 684-6815  
MICHAEL J. STEWART, Research Director (775) 684-6825

December 30, 2019

Mr. Richard Perry  
Administrator  
Division of Minerals  
400 W. King Street #106  
Carson City, Nevada 89703

Re: LCB File No. R032-19

Dear Mr. Perry,

A regulation adopted by the Commission on Mineral Resources has been filed today with the Secretary of State pursuant to NRS 233B.067 or 233B.0675 as appropriate. As provided in NRS 233B.070, this regulation becomes effective upon filing, unless otherwise indicated.

Enclosed are two copies of the regulation bearing the stamp of the Secretary of State which indicates that it has been filed. One copy is for your records and the other is for delivery to the State Library and Archives Administrator pursuant to subsection 6 of NRS 233B.070.

Sincerely,

A handwritten signature in black ink, appearing to read "Erin R. Sturdivant".

Erin R. Sturdivant  
Senior Deputy Legislative Counsel

Heidi A. Chlarson  
Senior Principal Deputy Legislative Counsel

Brenda J. Erdoes  
Legislative Counsel

ERS/slj  
Enclosure

RECEIVED

JAN 03 2020

DIVISION OF MINERALS

SECRETARY OF STATE  
FILING DATA

FILED.NV.SOS  
2019 DEC 30 PM1:54

*JS*

Form For Filing  
Administrative Regulations

Agency COMMISSION ON  
MINERAL RESOURCES

FOR EMERGENCY  
REGULATIONS ONLY

Effective date \_\_\_\_\_

Expiration date \_\_\_\_\_

\_\_\_\_\_  
Governor's signature

Classification:    **PROPOSED**        **ADOPTED BY AGENCY**        **EMERGENCY**

Brief description of action Update of Geothermal Resources Regulations NAC534A. This chapter had largely been untouched since 1985. As such, obsolete language was eliminated, casing and technical requirements were updated to reflect current safety and drilling practices, filing and reporting requirements were updated and consolidated for operators, including electronic submittals of some d and minimum bonding amounts for new wells were increased to reflect current plugging and abandonment costs.

Authority citation other than 233B NRS 534A.060

Notice date October 18, 2019

Hearing date November 21, 2019

Date of Adoption by Agency

November 21, 2019

**APPROVED REGULATION OF THE  
COMMISSION ON MINERAL RESOURCES**

**LCB File No. R032-19**

**Filed December 30, 2019**

**EXPLANATION** – Matter in *italics* is new; matter in brackets [~~omitted material~~] is material to be omitted.

**AUTHORITY:** §§1-14, 17, 22-33 and 35-42, NRS 513.063 and 534A.090; §§15 and 16, NRS 513.063, 534A.070 and 534A.090; §§18-21 and 34, NRS 513.063, 534A.080 and 534A.090.

**A REGULATION** relating to geothermal resources; defining certain terms relating to geothermal resources; authorizing a licensed well driller to drill certain geothermal wells; requiring an operator of a geothermal well to provide certain notifications to the Division of Minerals of the Commission on Mineral Resources; authorizing the Administrator of the Division to order an inactive well to be plugged under certain circumstances; authorizing the Administrator to grant an exception to certain requirements relating to geothermal resources under certain circumstances; revising certain definitions relating to geothermal resources; revising certain requirements relating to an application to drill or operate a geothermal well; revising certain fees relating to geothermal wells; revising certain bond requirements for a geothermal well; revising certain requirements for constructing and drilling a geothermal well; revising certain requirements for signs identifying certain geothermal wells; setting forth certain requirements to abandon and plug a geothermal well; requiring the submission of certain reports to the Division relating to geothermal resources; requiring an owner or operator to keep certain records relating to geothermal resources; providing certain requirements for a hearing relating to an application to drill or operate a geothermal well; setting forth certain procedures for a petition relating to a permanent regulation; and providing other matters properly relating thereto.

**Legislative Counsel's Digest:**

Existing law authorizes the Commission on Mineral Resources to adopt regulations relating to geothermal resources, including requirements for drilling geothermal wells and exploratory wells. (NRS 534A.060, 534A.090) Sections 2 and 3 of this regulation define certain terms relating to geothermal resources. Section 4 of this regulation requires that a person be a



licensed well driller in order to drill any: (1) geothermal well that uses water consumptively; or (2) geothermal domestic well.

Section 5 of this regulation requires the operator of a geothermal well to notify the Division of Minerals of the Commission before taking certain actions relating to the geothermal well.

Section 6 of this regulation provides that if a well is inactive for 2 or more years, the Administrator of the Division may order the operator to plug the well if the operator is unable to show cause as to why the well should remain open.

Section 7 of this regulation requires the operator of a geothermal well to submit daily drilling logs and certain monthly reports.

Section 8 of this regulation provides that the Administrator may grant an exception to certain requirements of chapter 534A of NAC governing geothermal resources under certain circumstances.

Sections 10 and 11 of this regulation revise certain definitions relating to geothermal resources.

Section 13 of this regulation revises existing provisions that govern when the Division will consider a geothermal well a geothermal domestic well, a commercial well or an industrial well. Section 14 of this regulation revises which provisions of chapter 534A of NAC are applicable to geothermal domestic wells, commercial wells and industrial wells.

Section 15 of this regulation requires an application for a permit to drill or operate a geothermal well to include the global positioning coordinates and the business identification number assigned to the operator by the Secretary of State.

Section 16 of this regulation requires an operator who wishes to operate an injection well to also obtain a permit for that well from the Division of Environmental Protection of the State Department of Conservation and Natural Resources.

Sections 18, 19 and 21 of this regulation revise certain application and operation fees for an observation well. Section 22 of this regulation increases the minimum amount of the bond an operator must provide: (1) for a commercial or industrial well, from \$10,000 to \$25,000; and (2) for a blanket bond to cover all of the wells of the operator, from \$50,000 to \$100,000.

Section 23 of this regulation revises certain requirements for the surface casing of a well and sets forth certain requirements for the casing strings in wells with downhole centralizers and, if utilized, the design of a cellar. Section 23 also authorizes the Administrator to impose alternative requirements for surface casing and to grant an exception to certain requirements for a thermal gradient well that is less than 500 feet deep. Section 24 of this regulation revises the

minimum specifications which well control and wellhead assemblies must meet. Section 25 of this regulation revises provisions relating to the temperature of mud that is returned up the well bore.

Section 27 of this regulation revises requirements for the sign that must be posted to identify each producing well.

Section 28 of this regulation requires all equipment used to conduct certain measurements relating to a well to be calibrated on a regular basis.

Section 30 of this regulation requires an application for permission to abandon and plug a geothermal well to include a detailed statement of the proposal to abandon and plug the well and, if the well cannot be plugged, an explanation of the conditions and a plan for the owner or operator of the well to substantially comply with certain requirements for abandoning the well. Section 31 of this regulation revises certain requirements for the abandonment of a thermal gradient well. Section 33 of this regulation revises certain requirements for the owner or operator to notify the Division of certain activities relating to a well.

Section 35 of this regulation requires an operator to file with the Division: (1) after the well is completed, a report of the manner in which the well was completed, a directional survey, a lithologic log and certain other logs; and (2) after the well is plugged, a well plugging report. Section 36 of this regulation requires the owner or operator to keep certain records and books at the site of the well or in the nearest office of the owner or operator.

Section 37 of this regulation provides that if the Administrator determines that a public hearing is necessary on an application for a permit to drill or operate a geothermal well: (1) the Administrator is required to hold the hearing; and (2) the Administrator shall consult with the State Engineer and determine whether to hold the hearing either jointly or separately. Section 37 further provides certain requirements for a notice of a hearing. Section 38 of this regulation requires the Administrator to maintain a docket for such hearings. Section 39 of this regulation provides certain requirements for the conduct of such hearings. Section 41 of this regulation revises the procedure for a person to submit a petition to the Commission requesting the adoption, filing, amendment or repeal of a permanent regulation.

Sections 9, 20, 32 and 34 of this regulation make conforming changes.

Section 42 of this regulation eliminates obsolete provisions relating to geothermal resources.

Section 1. Chapter 534A of NAC is hereby amended by adding thereto the provisions set forth as sections 2 to 8, inclusive, of this regulation.

STATE OF NEVADA  
LEGISLATIVE COUNSEL BUREAU

LEGISLATIVE BUILDING  
401 S. CARSON STREET  
CARSON CITY, NEVADA 89701-4747  
Fax No.: (775) 684-6600



LEGISLATIVE COMMISSION (775) 684-6800  
NICOLE J. CANNIZZARO, *Senator, Chair*  
Rick Combs, *Director, Secretary*

INTERIM FINANCE COMMITTEE (775) 684-6821  
MAGGIE CARLTON, *Assemblywoman, Chair*  
Cindy Jones, *Fiscal Analyst*  
Mark Krmpotic, *Fiscal Analyst*

RICK COMBS, *Director*  
(775) 684-6800

BRENDA J. ERDOES, *Legislative Counsel* (775) 684-6830  
DANIEL L. CROSSMAN, *Legislative Auditor* (775) 684-6815  
MICHAEL J. STEWART, *Research Director* (775) 684-6825

December 30, 2019

Mr. Richard Perry  
Administrator  
Division of Minerals  
400 W. King Street #106  
Carson City, Nevada 89703

Re: LCB File No. R044-19

Dear Mr. Perry,

A regulation adopted by the Commission on Mineral Resources has been filed today with the Secretary of State pursuant to NRS 233B.067 or 233B.0675 as appropriate. As provided in NRS 233B.070, this regulation becomes effective upon filing, unless otherwise indicated.

Enclosed are two copies of the regulation bearing the stamp of the Secretary of State which indicates that it has been filed. One copy is for your records and the other is for delivery to the State Library and Archives Administrator pursuant to subsection 6 of NRS 233B.070.

Sincerely,

A handwritten signature in black ink, appearing to read "Rae M. Brown Abbott".

Rae M. Brown Abbott  
Deputy Legislative Counsel

Heidi A. Chlarson  
Senior Principal Deputy Legislative Counsel

Brenda J. Erdoes  
Legislative Counsel

RMB/slj  
Enclosure

RECEIVED

JAN 03 2020

DIVISION OF MINERALS

SECRETARY OF STATE  
FILING DATA

FILED NV.SOS  
2019 DEC 30 PM1:56

8.

Form For Filing  
Administrative Regulations

Agency COMMISSION ON  
MINERAL RESOURCES

FOR EMERGENCY  
REGULATIONS ONLY

Effective date \_\_\_\_\_

Expiration date \_\_\_\_\_

\_\_\_\_\_  
Governor's signature

Classification:    **PROPOSED**    **ADOPTED BY AGENCY**    **EMERGENCY**

Brief description of action Update of the Program for the Pooling of Reclamation Performance Bonds under NAC519A.570-NAC519A.635. This update reduces the annual administrative cost from 3% to 2% for all reclamation bonds and it allows for a partial refund of premiums paid for plan-level bond participants upon exit of the State's bond pool. The bond pool has sufficient reserves, so fee can be lowered. The State Chief Insurance Examiner assigned a lead actuary to review these changes and concluded that the bond pool would remain self-sustaining as required pursuant to NAC 519A.585(8).

Authority citation other than 233B    NRS 519A.290

Notice date October 18, 2019

Hearing date November 21, 2019

Date of Adoption by Agency

November 21, 2019

**APPROVED REGULATION OF THE DIVISION OF MINERALS  
OF THE COMMISSION ON MINERAL RESOURCES**

**LCB File No. R044-19**

**Filed December 30, 2019**

EXPLANATION – Matter in *italics* is new; matter in brackets ~~(omitted material)~~ is material to be omitted.

**AUTHORITY:** §§1-11, NRS 513.063 and 519A.290; §12, NRS 513.063 and 519A.250.

A REGULATION relating to mining; revising the provisions governing deposit calculations for participation in the program for the pooling of reclamation performance bonds; revising provisions relating to the calculation of bond premiums; revising provisions relating to the payment of bond premiums; revising the application process for the bond pool; revising provisions relating to the release of certain deposits and unused premiums paid into the bond pool; making various other changes related to the program; and providing other matters properly relating thereto.

**Legislative Counsel's Digest:**

Existing law requires the Division of Minerals of the Commission on Mineral Resources to develop and administer a program providing for the pooling of reclamation performance bonds and requires the Division to adopt regulations relating to the administration of the program. (NRS 519A.290)

Existing regulations require each operator that wishes to participate in the bond pool to pay an entry deposit. (NAC 519A.595) Section 3 of this regulation revises the formulas and classifications used to calculate the amount of an entry deposit.

Section 5 of this regulation revises the definition of "mining operation" so the term no longer excludes an aggregate or sand pit.

Section 6 of this regulation revises the definition of "plan" to include plans for reclamation filed with and approved by the Division of Environmental Protection of the State Department of Conservation and Natural Resources.

Existing regulations require each operator that wishes to participate in the program to submit an application. (NAC 519A.570) Section 7 of this regulation provides that applications for bond coverage for notice-level projects are exempt from certain requirements. Section 2 of



this regulation defines "notice-level project" as an exploration project causing or proposing to cause a surface disturbance of not more than 5 acres on public lands.

Existing regulations require each participant in the bond pool to pay premiums for each bond. (NAC 519A.595) Section 9 of this regulation provides that premiums for a bond for a notice-level project must be paid annually and all other bond premiums must be paid in quarterly installments. Section 9 of this regulation also revises the premium required after certain participants have paid funds into the bond pool equal to or exceeding the total amount of the bond from 3 percent to 2 percent.

Existing regulations provide for the release of the entry deposit and unused premiums paid by a participant after the participant has met certain requirements. (NAC 519A.610) Section 11 of this regulation revises those provisions to authorize the partial release of certain additional premiums paid by a participant under certain circumstances.

With certain exceptions, existing regulations provide that the Division of Minerals will partially refund certain required fees for filing a plan of operation to the operator if the plan is amended to reduce the size of an area to be disturbed. Currently, no refund is available for fees related to filing a notice. (NAC 519A.635) Section 12 of this regulation eliminates the provision that excludes notices from the refund provisions.

**Section 1.** Chapter 519A of NAC is hereby amended by adding thereto the provisions set forth as sections 2 and 3 of this regulation.

**Sec. 2.** *"Notice-level project" means an exploration project causing or proposing to cause a surface disturbance of not more than 5 acres on public lands.*

**Sec. 3. 1.** *Each participant must pay the entry deposit required by this section to maintain participation in the bond pool. The amount of the deposit will be adjusted if the bond coverage provided by the pool increases or decreases solely because of a recalculation of the amount of the bond.*

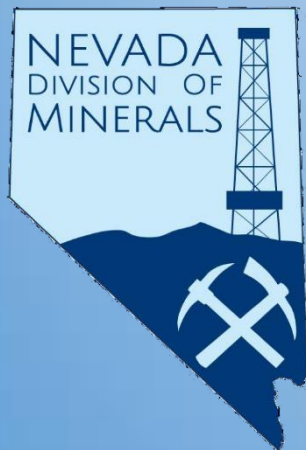
**2.** *If an operator becomes a participant or the bond coverage provided by the pool changes because the plan is amended:*

## **IV.C LAS VEGAS NATURAL HISTORY**

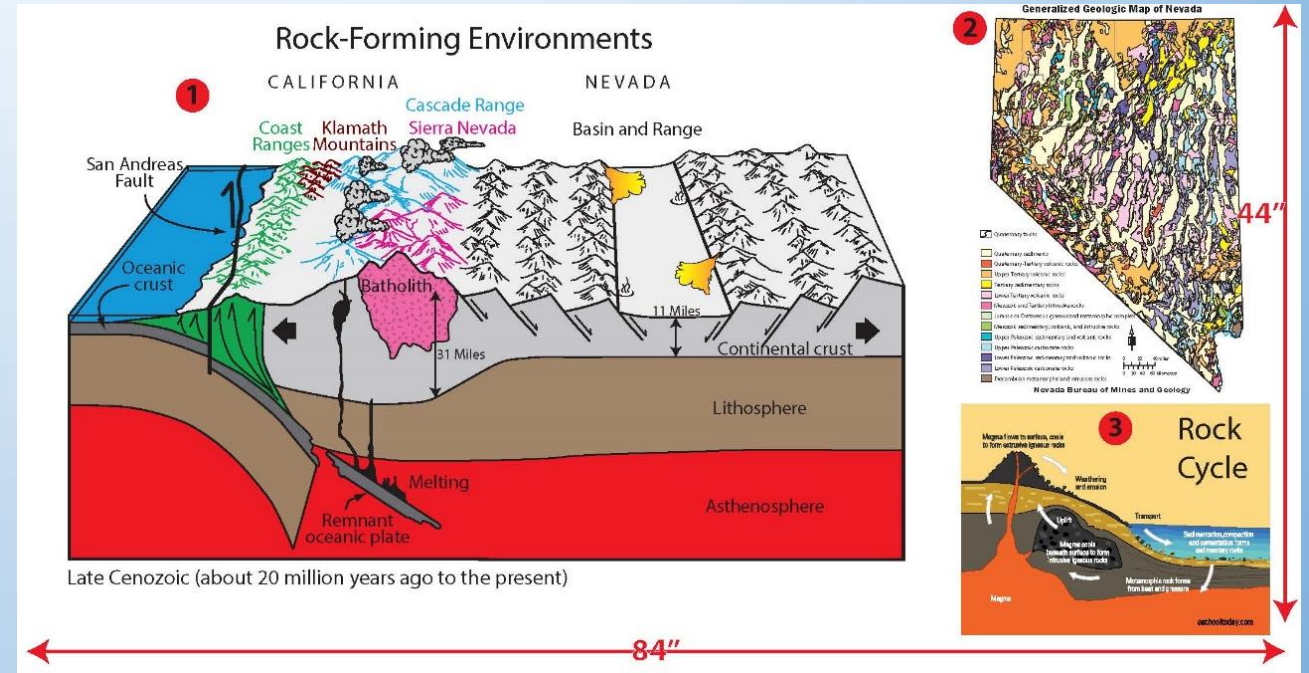
### **MUSEUM EXHIBIT**

# Las Vegas Natural History Museum Exhibit - Update

Commission on Mineral  
Resources Meeting  
6 February, 2020

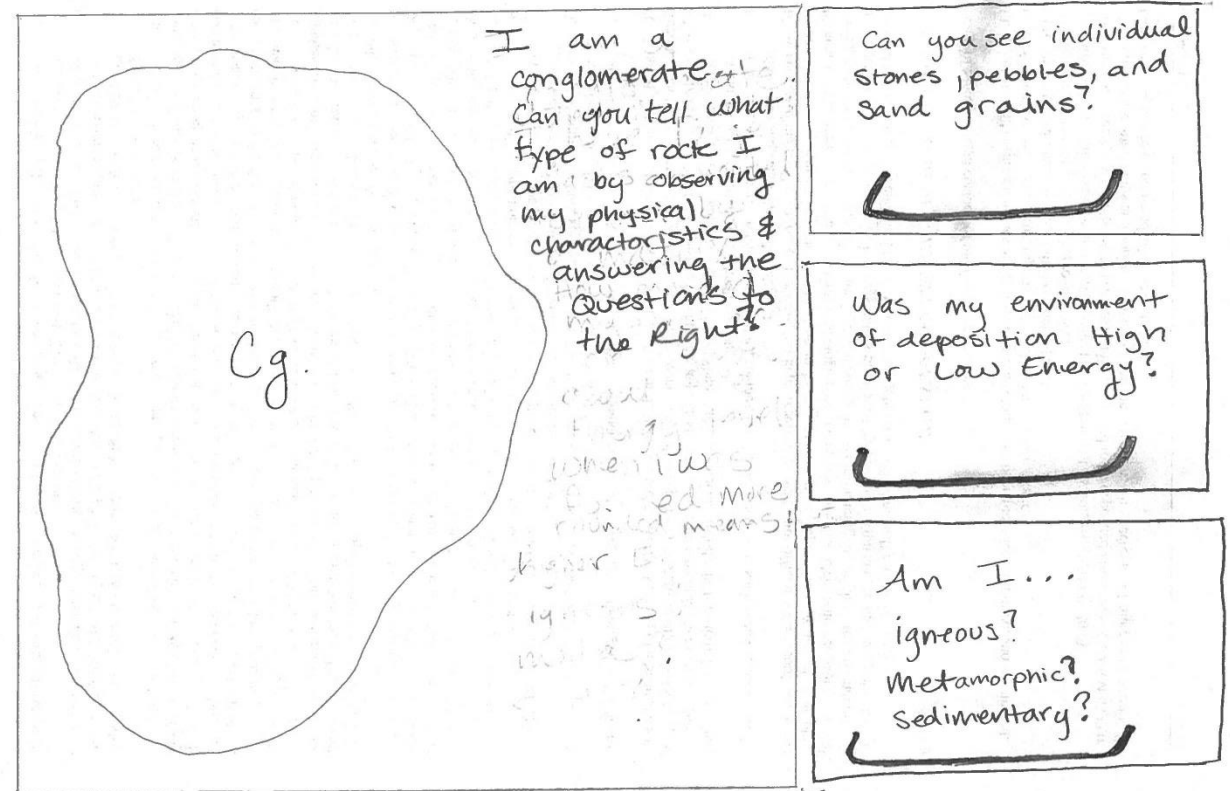


Garrett Wake  
Nevada Division of Minerals  
702-486-4344  
[gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov)  
[minerals.nv.gov](http://minerals.nv.gov)



# Overview

- Update since last CMR Meeting
- Timeline
- Questions



# Updates since last CMR meeting

- **2019:** LVNHM could not secure adequate funding to move to new location
  - New plan is to use donations towards updating current museum
  - LVNHM still plans to incorporate CMR exhibit into current location
  - Possibility of moving to new venue at a future date
- **Nov 8, 2019:** RFP solicitation opened on NV E-Pro
- **Jan 15, 2020:** RFP solicitation closed, received bids from two companies
- **Jan 28, 2020:** RFP Evaluation Committee met to determine Awarded Vendor
  - Decision was not made, there were important questions that needed to be addressed by all companies who submitted a proposal
  - RFP Evaluation Committee elected to hold interviews with companies who submitted RFPs
- **Feb 10, 2020:** Interviews with vendors scheduled for this date
  - See inserts for additional information
- **Upcoming:**
  - Contract signed by NDOM, Awarded Vendor and NV Clerk of the Board, anticipated late-Feb
  - Phase I – Final design work and creation of drawings, deadline TBD
  - Phase II – Fabrication of exhibit, deadline TBD
  - Phase III – Delivery of exhibit to LVNHM, deadline TBD



Inserted Pages

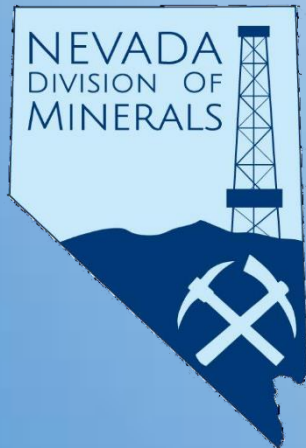
# Timeline

Task	Date/Time
RFP interviews	2/10/2020
Selection of vendor	2/10/2020
Contract start date (upon Clerk of the Board approval)	Anticipated 2/24/2020
Contract completion	On or before 12/31/2020

# Las Vegas Natural History Museum Exhibit - Update

**Commission on Mineral  
Resources Meeting  
6 February, 2020**

**Questions**



**Garrett Wake**  
**Nevada Division of Minerals**  
**702-486-4344**  
[gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov)  
[minerals.nv.gov](http://minerals.nv.gov)

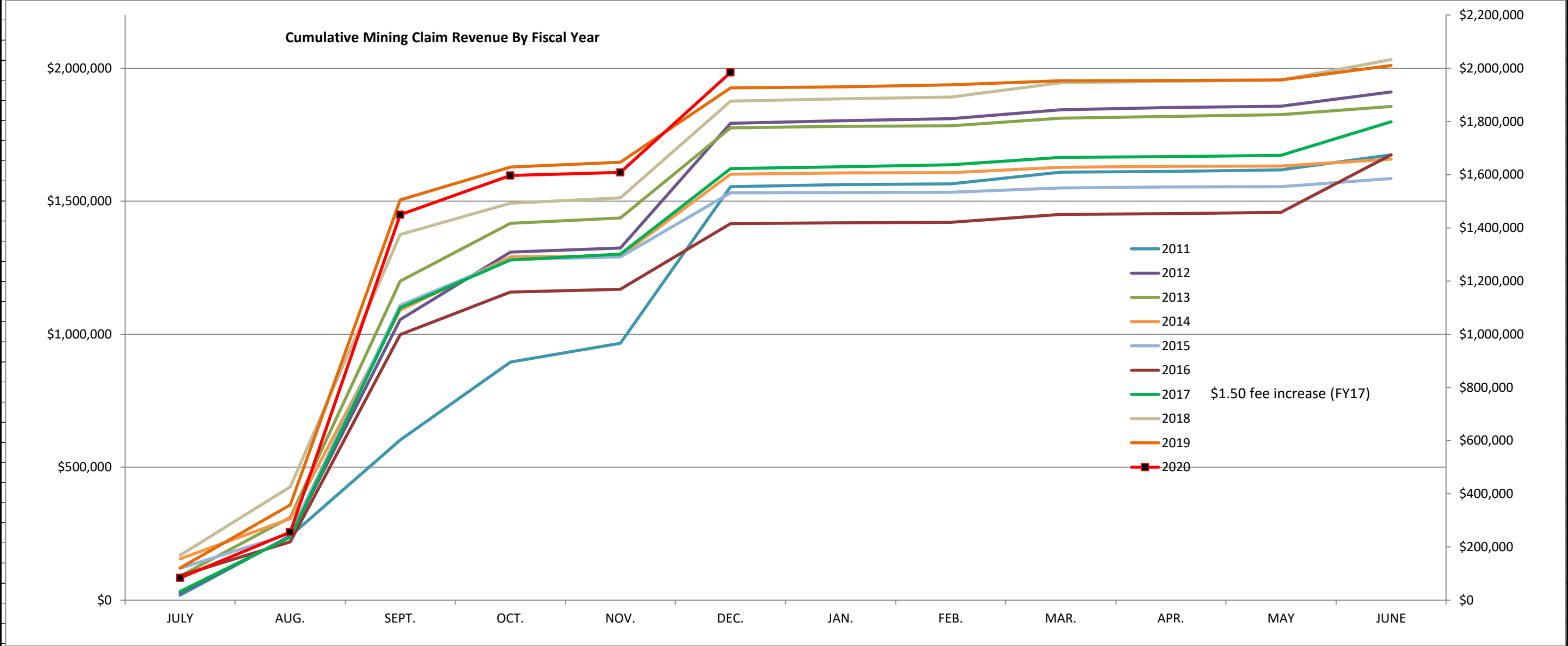


# **COMMISSION BUSINESS**

## **A. STAFF REPORTS**

Fiscal Year Cumulative Mining Claim Revenue By Month

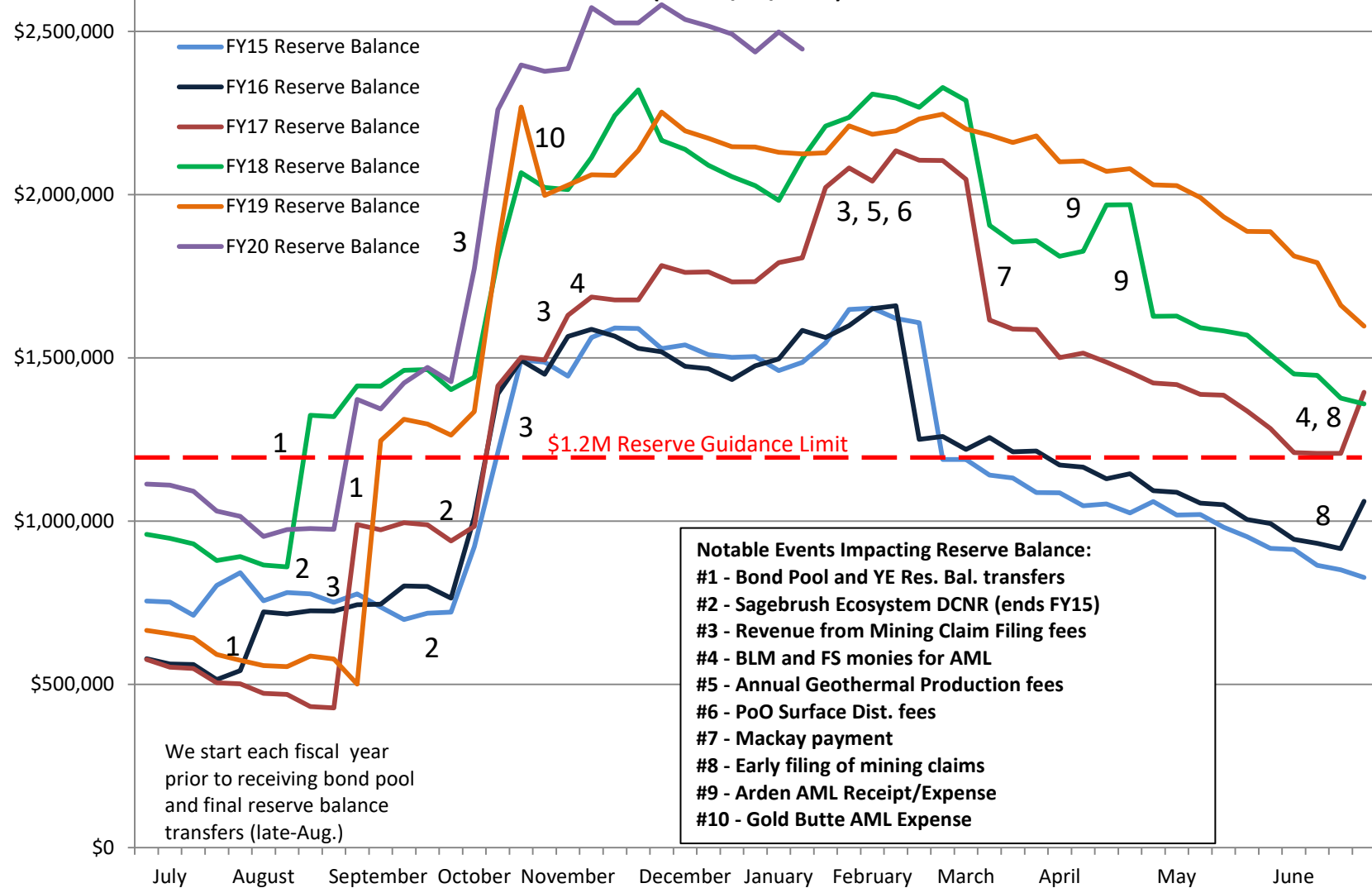
Fiscal Year	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	\$ YOY	Total Claim Filings	Claim Filings YOY
2020	\$83,720	\$256,070	\$1,449,660	\$1,596,760	\$1,608,370	\$1,985,070							3.0%		
2019	\$121,080	\$357,900	\$1,504,660	\$1,628,710	\$1,646,750	\$1,926,020	\$1,930,460	\$1,937,910	\$1,953,500	\$1,954,140	\$1,955,820	\$2,010,510	-1.1%	201,051	-1.1%
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	13.0%
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	-8.7%
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	5.6%
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	-4.4%
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	-10.7%
2013	\$90,253	\$311,806	\$1,199,622	\$1,417,171	\$1,437,104	\$1,775,803	\$1,781,575	\$1,783,870	\$1,812,217	\$1,818,745	\$1,825,571	\$1,856,460	-2.8%	218,407	-2.8%
2012	\$26,248	\$239,904	\$1,055,539	\$1,309,017	\$1,324,445	\$1,793,687	\$1,802,901	\$1,810,432	\$1,843,795	\$1,852,541	\$1,857,012	\$1,910,562	14.1%	224,772	14.1%
2011	\$18,504	\$241,374	\$602,803	\$895,475	\$966,603	\$1,554,871	\$1,562,053	\$1,565,649	\$1,609,424	\$1,612,118	\$1,618,145	\$1,674,304	3.8%	196,977	3.8%
2010	\$34,315	\$252,520	\$866,626	\$1,120,355	\$1,151,704	\$1,527,997	\$1,532,639	\$1,537,911	\$1,566,170	\$1,569,088	\$1,574,207	\$1,613,142		189,781	
FY20 data as of 1/27/20; December payments not yet received for LI and WA counties															
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 FY15 - FY20

(as of 1/24/2020)



## OIL, GAS, AND GEOTHERMAL ACTIVITY

### 2019 Permitting and Drilling Activity (through January 24, 2020)

Permit Type	Issued 2017	Drilled 2017	Issued 2018	Drilled 2018	Issued 2019	Drilled 2019	Issued 2020	Drilled 2020
Geothermal - Ind Prod	6	4	3	4	1	1	---	---
Geothermal - Ind Inj	4	4	1	1	3	2	---	---
Geothermal - Observation	3	1	3	3	1	1	---	---
Geothermal - TG	19	15	18	19	2	2	1	1*
Geothermal - Com	---	---	---	---	---	---	---	---
Geothermal - Dom	2	2	---	---	---	---	---	---
Geothermal - Project Area	1	---	---	---	---	---	---	---
Geothermal - Total	35	26	25	27	7	6	1	1
Oil & Gas	0	1	3	1	3	1	---	---

\* TG well spudded on January 27, 2020

Recent Activity	Geothermal	Ormat Nevada	Ormat completed the drilling of the Steamboat 83C(82)-6 production well in early January, 2020. ORNI 47 (Ormat Nevada) submitted four observation well permits for the Wild Rose Field in January, 2020.
		USG Nevada (Ormat Nevada)	USG Nevada permitted two injection wells ~2.5 miles north of the San Emidio Field, near the previous Wind Mountain Mine area, in July. USG Nevada drilled the first of the two wells in September. The second injection well has not been drilled. Waiting on UIC for wellbore construction approval.
		Enel North America	Enel North America has submitted a permit application for the Salt Wells 18-36 temperature gradient well in October. The BLM has approved the GPD for this well. NDOM received fee payment in January, 2020. Well spudded on January 27 <sup>th</sup> .
	Oil	Major Oil International	Major Oil International is currently working through the permitting process with the BLM in permitting the Eblana 9 exploration well on their Hot Creek Valley leases. NDOM received a permit application and drilling program for Eblana 9 in January, 2020.
		Western Oil Exploration	Western Oil Exploration is currently permitting the Newark Valley 25-1 and 35-1 exploration wells with the BLM. NDOM received permit applications and drilling programs for the wells in December, 2019.
		Grant Canyon Oil and Gas	Grant Canyon Oil and Gas put the Three Bar Federal 25-2 exploration well on production in late October, 2019.
		West Grant Canyon Development	West Grant Canyon Development permitted the Butterfield 1 exploration well in June, 2019. The proposed location for the well is approximately 1.75 miles southwest of the Sans Spring Field tank battery location. This well is expected to spud in April or May, 2020. The permitted depth is 8,000 feet.
		SAM Oil	SAM Oil permitted the White River Valley 1-9 in late February, 2019. The proposed location is approximately 26 miles south of Lund. SAM Oil is expected to spud this well in April or May, 2020.

### **Summary of 2019 Dissolved Minerals Activity**

Type of Activity	Permits Issued 2019	Permits Drilled 2019	NOI Approved 2019	NOI Drilled 2019
Exploration Well Permits	---	1 **	---	---
Notice of Intent Approvals	---	---	5	3

\*\* Permit issued in November, 2018

No exploration well permits for dissolved minerals were issued during 2019. LithiumOre permitted the LithiumOre 1 DMRE exploration well in Railroad Valley in November, 2018. The well was drilled during April and early May 2019 to a total depth of 3,000 feet. The location for this well is approximately 4 miles south-southeast of the Foreland Refinery. LithiumOre has not performed any flow testing on this well.

Belmont Resources completed drilling their second borehole in Kibby Basin, located approximately 36 miles northwest of Tonopah during the first quarter of 2019. The NOI was approved in early December 2018. Drilling began in late December, and completed drilling in February, after a multi-week hiatus in drilling. Plugging of the borehole was delayed until May due an exceptionally wet valley floor after spring runoff.

Great Basin Resources drilled an exploration DMRE borehole in July 2019 within the Salt Wells area, east of Fallon, exploring for boron and lithium. The borehole was plugged.

Fort Cady California drilled an exploration DMRE borehole in October 2019 within the Salt Wells area exploring for boron and lithium. The borehole has been plugged.

### **Summary of Geothermal and Oil Well Inspections for Fiscal Year 2020 (as of 1/24/2020)**

FY 2020 Well Inspections	Total Wells	Wells Needed for FY20	Wells Inspected	% of Total Needed	Wells Remaining
Geothermal (11 Locations)	454	151	152	100.4%	-1
Oil (1 Location)	118	39	1	3%	38
Totals	572	191	153	80%	38

The two remaining open DMRE exploration wells, 3PL Operating LD 1-32 and LithiumOre 1, were inspected in May 2019. Both wells are located in Railroad Valley. The 3PL LD 1-32 will be required to be plugged by May, 2020.

### **Sundry Notice Activity (through January 24, 2020)**

Sixty-four geothermal and five oil sundry notices were reviewed and approved during the 2019 calendar year. There are currently eight geothermal sundry notices waiting on BLM and/or UIC approval, and one geothermal sundry notice waiting on operator to submit additional information.

### **BLM Lease Sales**

The November 12<sup>th</sup> BLM Oil and Gas Lease Sale incorporated parcels located within the Ely District. A total of 48 parcels, totaling 111,420.21 acres, were offered. The sale had eight

bidders. Two parcels received bids, covering 3,974.04 acres. The highest bid per acre was the minimum bid of \$2.00. Total receipts for the November 12<sup>th</sup> competitive sale were \$14,252.50. There were originally 263 parcels totaling 547,959.25 acres in the sale notice. No parcels were sold in the subsequent non-competitive sale. All parcels were protested. Fifty parcels removed due to protests. An additional 196 parcels were removed for 'other reasons'. Acreage deferred from the preliminary parcel list due to sage grouse totaled 364,624 acres.

The December 17<sup>th</sup> BLM Oil and Gas Lease Sale offered parcels located in the Battle Mountain and Ely Districts. A total of 272 parcels, totaling 458,993.182 acres, were offered. The sale had seven bidders. Ten parcels received bids, covering 13,217.126 acres. The highest bid per acre was \$41.00. Total receipts for the December 17<sup>th</sup> competitive sale were \$71,971.50. One parcel, totaling 1188.88 acres, was acquired in the subsequent non-competitive sale. Total money for the non-competitive sale was \$2,218.50. There were 164 parcels protested, totaling 268,051.676 acres, but no parcels were pulled from the sale. All parcels were protested. Fifty parcels removed due to protests. Acreage deferred from the preliminary parcel list due to sage grouse totaled 362,477 acres.

The next BLM Oil and Gas Lease Sale will be held on March 24, 2020. The parcels offered will be in the Battle Mountain District. No other specific information has been released by the BLM at this time.

The next BLM Geothermal Lease Sale (annual sale) will be held on October 20, 2020.

As previously reported for the November 21<sup>st</sup> CMR Meeting:

The BLM Statewide Geothermal Lease Sale was held on September 17, 2019. There were 142 parcels offered covering 384,369.59 acres. None of the parcels were protested. The sale was attended by thirteen bidders. Thirty-seven parcels received bids, where 102,402.85 acres were acquired in the sale. Western States Environment and Resources had the highest bid per acre, where they bid \$20.00 per acre for a 4799.90 acre parcel located in Dixie Valley. Terra-Gen Dixie Valley was the second highest bidder for this parcel at \$19.00 per acre. Terra-Gen Dixie Valley did acquire a 4486.46 acre parcel in Dixie Valley for \$17.00 per acre. Willoughby and Associates paid \$9.00 per acre for a 640 acre parcel in Clayton Valley. Total receipts received for the competitive sale were \$687,892.00. The non-competitive sale was held on September 19<sup>th</sup>, in which 105 parcels were offered. Nineteen parcels were sold, covering 64,420.24 acres.

## **COMMISSION BUSINESS**

### **B. DISCUSSION OF PROCESS FOR THE RECRUITMENT AND APPOINTMENT OF A NEW ADMINISTRATOR**



**STEVE SISOLAK**  
Governor

STATE OF NEVADA  
COMMISSION ON MINERAL RESOURCES  
**DIVISION OF MINERALS**  
400 W. King Street, Suite 106  
Carson City, Nevada 89703  
(775) 684-7040 • Fax (775) 684-7052  
<http://minerals.nv.gov/>



**RICHARD PERRY**  
Administrator

**Las Vegas Office:** 2030 E. Flamingo Rd. #220, Las Vegas, NV 89119  
Phone: (702) 486-4343; Fax: (702) 486-4345

## Unclassified Job Announcement

February 7, 2020

### ADMINISTRATOR-NEVADA DIVISION OF MINERALS

**Location: Carson City, NV**

**THE NEVADA DIVISION OF MINERALS:** The Nevada Division of Minerals, a part of the Commission on Mineral Resources, is responsible for permitting oil, gas, geothermal and dissolved mineral exploration wells and compliance to permits for operation of these wells, the public safety abandoned mine lands (AML) program, collecting and disseminating information on exploration, mineral production and other related topics, and providing educational resources to K-12, civic and trade organizations on the importance of mineral production to the State. The Division has offices in Carson City and Las Vegas. The Commission on Mineral Resources appoints the Administrator of the Division. The Commission on Mineral Resources is a seven-member public body appointed by the Governor.

**THE POSITION:** The successful applicant will serve as the chief administrative officer of the Division of Minerals with responsibility for the programs of the Division. The Administrator serves as secretary to the Commission on Mineral Resources and coordinates the quarterly meetings of the Commission. The Commission is an executive branch non-cabinet agency and the Administrator reports monthly to a member of the Governor's staff. Other duties include preparing a biennial budget, fiscal and human resource management, providing testimony to the Legislature on mineral-related matters, providing liaison between other State and Federal agencies, serving as the Governor's official representative to the Interstate Oil and Gas Compact Commission if appointed, and serving as a statutory member of the State Environmental Commission.

**EDUCATION AND EXPERIENCE:** Must be a graduate of an accredited college or university and have substantial experience as an administrator or at least 5 years' experience in the exploration for or the production or conservation of minerals. The ideal candidate will have a degree in economic geology, geological engineering, mining or metallurgical engineering with Nevada mineral industry experience relevant to the responsibilities of the position.

**COMPENSATION AND BENEFITS:** Up to \$118,153 annually on the employee/employer paid retirement option. A retirement plan paid entirely by the employer is available at a reduced salary of \$103,078. The position receives state retirement and health insurance benefits. Information regarding retirement plan options and retirement benefits is available at [www.nvpers.org](http://www.nvpers.org). A description of the current health benefits available to all employees of the State of Nevada is available at [https://pebp.state.nv.us/wpcontent/uploads/2019/05/PY2020-PEBP-Benefit-Guide\\_51519\\_FINAL-1.pdf](https://pebp.state.nv.us/wpcontent/uploads/2019/05/PY2020-PEBP-Benefit-Guide_51519_FINAL-1.pdf)



**APPLICATION PROCESS:** Interested candidates are requested to submit a cover letter and detailed resume that includes a description of employment history to include name and addresses of employers, scope of responsibility and three professional references electronically to:

**Sherrie Nuckolls, Administrative Assistant IV/HR Coordinator**  
**Nevada Division of Minerals**  
[snuckolls@minerals.nv.gov](mailto:snuckolls@minerals.nv.gov)  
**775-684-7043**

In the subject line please reference: Last name/Administrator

All materials must be submitted by the close of business on March 6, 2020. All submitted information will remain confidential unless the candidate becomes a finalist for the position and the candidate authorizes the release of his or her information. Finalists will be interviewed by the Commission on Mineral Resources at a date to be determined. The person selected as the new Administrator will assume responsibilities on April 2, 2020, or at a mutually agreeable date. A pre-employment drug test is a condition on employment. Overnight in-state and out-of-state travel are required.

#### **Equal Employment Opportunity/Affirmative Action**

The State of Nevada is committed to Equal Employment Opportunity/Affirmative Action in recruitment of its employees and does not discriminate on the basis of race, color, national origin, religion or belief, age, disability, sex, sexual orientation, gender identity or expression, pregnancy, domestic partnership, genetic information (GINA), or compensation and/or wages.

# **CORRESPONDENCE**

# ENDOWMENT REPORT 2019

*The impact of your investment*



University of Nevada, Reno

Office of Donor Relations

Mail Stop 0162, Reno, NV 89557-0162  
(775) 784-1587 • giving@unr.edu

December 20, 2019

Mr. Richard M. Perry  
State of Nevada Commission on Mineral Resources  
Division of Minerals  
400 W King St # 106  
Carson City, NV 89703

Dear Mr. Perry:

For 145 years, the University of Nevada, Reno has provided its students and more than 100,000 graduates with the education and resources necessary to reach their full potential and improve the world. Our generous alumni, friends and community partners help make possible the many successes of the University. We are grateful for this generous support.

Your endowment at the University is essential to the vitality of our students, faculty and programs. The power of endowments, like yours, is that these perpetual funds supply the University with the financial stability to expand our impact on campus and beyond. There are more than 1,300 donor-funded endowments comprising the University's total endowment, and as of June 30, 2019, the endowment reached \$377.4 million. Notably, for 2019-20, the endowment distributed \$8.09 million to the University.

The steady stream of earnings produced by the endowment helps fund University priorities, including student scholarships. For 2019-20, more than 2,600 donor-funded scholarship awards totaling \$6.1 million have been disbursed from endowment distributions. The personal sentiments from scholarship recipients are heartening: *Thank you for believing in my dreams and choosing to support me. Your generosity has given me the drive to do well and continue through my college career with confidence. I'm now performing in school not only for my own sake, but also for the sake of those who believe in me.*

Mr. Perry, we are grateful for the establishment of the **MSESE Marigold Royalty Quasi-Endowment Fund**, and we are pleased to recognize the Nevada Commission on Mineral Resources' support of MSESE in this important and meaningful way. Your endowment is valued, and we take seriously our responsibility to prudently manage your investment. It is my privilege to share with you the attached report for your endowed fund and its performance during the past year.

I hope this information is helpful. If it creates questions, please feel free to contact me at (775) 784-1352 or jcarothers@unr.edu; or contact Keiko Weil, director of donor relations, at (775) 784-1587 or kweil@unr.edu.

Sincerely,

  
John K. Carothers  
Vice President for Development and Alumni Relations  
Executive Director, University of Nevada, Reno Foundation  
jcarothers@unr.edu

*Dear Rich,*  
*We are grateful for the support of the Commission during the great recession. The Marigold endowment continues to grow this year, the last year of the agreement. Best wishes*

193149 MSESE Marigold Royalty Quasi-Endowment (Mines) 991812890

  
**BUILDING**  
WHAT COMES NEXT  
— THE CAMPAIGN FOR THE NEW NEVADA —

The 2019 ANNUAL REPORT of the  
UNIVERSITY OF NEVADA, RENO FOUNDATION ENDOWMENT

**MSESE Marigold Royalty Quasi-Endowment Fund**

**Market Value as of 6/30/18** **\$6,899,715**

**Market Value as of 6/30/19** **\$7,240,529**

*The market value represents the actual worth of the endowment fund invested in the University of Nevada, Reno Foundation's general endowment pool as of the specified date. The Foundation's payout policy allows for 4.5 percent (4.5%) of the 12-quarter average market value for distribution purposes. Recently the Foundation reduced the annual management fee from 0.60 to 0.50 percent (0.50%) which is assessed on the endowment for the fiscal year beginning July 1, 2019 for administrative expenses associated with managing the endowment funds. The above information excludes any additions made after May 31, 2019. Gifts received for the endowment are included in the very next scheduled quarterly investment buy after the gift is received.*

**The estimated 2020-21 annual payout will be: \$304,545**

**The University of Nevada, Reno Foundation** was established in 1981 with the mission of attracting philanthropy to the University of Nevada, Reno. The Foundation's volunteer Board of Trustees and its Investment Committee work diligently to establish prudent parameters for investment asset allocation, both broadly diversified and inflation-hedging. The endowment is governed by a well-designed and disciplined policy that considers both long-term and short-term needs with the goal of maintaining the purchasing power of the endowment in perpetuity. The Foundation endowment includes more than 1,300 named endowment accounts. The endowment funds are responsibly managed by the Investment Committee of the Foundation, which receives independent professional investment advice from Wilshire Associates.

The Foundation's endowment value stood at more than **\$232.1** million as of June 30, 2019, an increase in value of 8.1 percent from **\$214.7** million on June 30, 2018. As of June 30, 2019, the funds were invested at the ratio of **41.22%** in global public equities, **8.29%** in private equities, **25.83%** in fixed income, **10.95%** in real estate, **4.94%** in merger arbitrage, and **8.77%** in real assets. The goal of this allocation is to produce a return that meets spending obligations and maintains or increases the real value of the endowment.

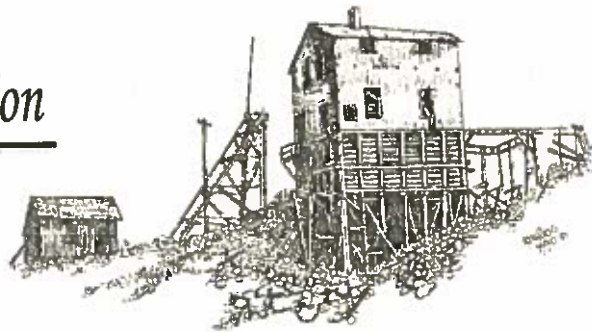
For the 12-month reporting period of July 1, 2018 through June 30, 2019, the Foundation had a net return of **6.77%** for all assets, compared to the benchmark policy index of **8%**, the S&P 500 Equity Index of **10.42%**, the MSCI All Country World ex-U.S. Equity Index of **.26%**, and the Bloomberg Aggregate Bond Index of **7.87%** for the same period of time.

As of June 30, 2019, the Foundation's three- and five-year overall average rate of returns for the endowment, net of fees, were **7.78%** and **5.44%** respectively. These returns use March 31, 2019 market values for the non-marketable investments.

The Foundation's policy is administered in accordance with the Uniform Prudent Management of Institutional Funds Act (UPMIFA), the provisions of which are set forth in Chapter 164 of the Nevada Revised Statutes. The Foundation's Investment Policy can be found at:  
<http://www.unr.edu/giving/foundation>.

# Tonopah Historic Mining Park Foundation

P.O. Box 965 / 110 Burro Avenue, Tonopah, NV 89049  
Phone: (775) 482-9274 Fax: (775) 482-9327  
Email: [tonopahminingpark@gmail.com](mailto:tonopahminingpark@gmail.com)



December 30, 2019

Mr. Richard Perry  
Administrator, Nevada Div Minerals  
400 West King Street  
Carson City, NV 89703

Re: 2020 Calendar

Dear Rich,

WHEEE !!! And it did get done ! The Silver Top is stable, just needs some cosmetics like shaft guides, skip hoist, some power cables and air lines hissing and it'll look like the real deal !

We could not have done the project without your early encouragement, offering to do the dirt work, enlisting Environmental Protection Services skill with PUF and covering the Silver Top shaft. Give Rob Ghiglieri our thanks for his many contributions in coordinating the project.

Year 2020 plans are to start planning for the re-installation of the two level Trestles for moving ore and muck from the Silver Top head frame to the Grizzly Building for sorting. Preparatory work will start at the Desert Queen head frame by stabilizing the broken leg of the head frame.

Sincerely,

*Bill Wahl*  
Board Member

*And it is Sayonara for me  
on the THMP FOUNDATION BOARD  
15 YEARS - WHAT A BALL !*

---

The Tonopah Historic Mining Park Foundation is a Nevada 501(c)3 non-profit organization, whose purpose is to preserve Nevada's mining history, heritage, and the life surrounding it at the Tonopah Historic Mining Park. Contributions may be tax deductible pursuant to the provisions of section 170(c) of the Internal Revenue Code of 1986, 26 U.S.C. § 170(c). All contributions made to the Tonopah Historic Mining Park Foundation become its sole property and will be used as determined by the Board of Trustees. For more information please visit our website at: [www.tonopahhistoricminingpark.com](http://www.tonopahhistoricminingpark.com)