Thursday, May 9, 2019  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 February 7, 2019 meeting minutes  FOR POSSIBLE ACTION

III. NEW BUSINESS
   A. Presentation of the 2017-2018 Exploration Survey  FOR DISCUSSION ONLY
      The survey was completed in April, 2019 in time for Exploration Day at the Legislature, Funding for the survey comes from the CMR Author Mike Ressel, NBMG, will present highlights.

   B. Las Vegas Natural History Museum Update  FOR DISCUSSION ONLY
      The Museum Director informed NDOM that they had a setback in funding for their new space, but has asked that NDOM complete the interactive exhibit and place it in the existing museum. Lucia Patterson.

   C. Update of Internal Controls for Abandoned Mine Lands Public Hazard program and long-term forecast of Activity – Rob Ghiglieri  FOR DISCUSSION ONLY
D. AME Roundup in Vancouver, January 20-23, 2020
   With the success of the Nevada trade booth and presence at PDAC, it was suggested by the CMR at the February meeting that attendance at the AME Roundup in Vancouver be investigated. Division staff has compiled information on this event, and costs for one Division Staff to attend in 2020 to evaluate. Rich Perry

E. 2018 Nevada Mineral, Geothermal and Oil production
   Operators are required to report production by the end of April of each year. This will be the first presentation on calendar year 2018 mineral production for the State. Mike Visher

IV. OLD BUSINESS
A. Open-Data site additions
   A new page has been added to the Division’s open data site. the page, titled “Nevada Claims, notices and plans of operation has all mining claims that have ever been staked in Nevada, and all notices of intent and plans of operation where bonds have/had been obligated. Lucia Patterson will present the new page.

B. PDAC Recap
   Rob Ghiglieri will provide a presentation of Nevada’s trade booth and presence at the Prospectors and Developers Association of Canada meeting held March 3-6, 2019 in Toronto.

C. 2019 Legislative Session Update
   Rich Perry will provide an update on legislation effecting minerals, geothermal and oil/gas and important dates for the remainder of the session.

D. Division Financials and Recommendations
   Division staff was instructed at the last CMR meeting to re-evaluate the necessary 6-month operating reserve under the current budget. With claim fees and geothermal fees now collected, and the 2020-21 biennial budget approved by the Legislature, the Division can forecast the reserve for the next several years and make recommendations to the Commission on the minimum reserve amount and if a claim fee reduction is appropriate. Mike Visher

COMMISSION BUSINESS
A. Next Commission meeting set for August 15, 2019 at the Humbolt County Courthouse in Winnemucca, with a tour of the Hycroft Mine the following day.

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.

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  89701 or contact Sherrie Nuckolls at (775) 684-7043 or Email SNuckolls@minerals.nv.gov
The Commission will be attending a field trip on Friday 5/10/19 to Ormat’s Steamboat Geothermal facility in South Reno. The Commission will meet at Ormat’s front gate located at 1010 Power Plant Dr., Reno, NV 89521 at 9 a.m. Closed toe shoes are required; Ormat will supply hard hats and safety glasses. Members of the public may attend but must provide their own transportation and safety equipment. Advanced notification is required. Please call Sherrie Nuckolls at (775) 684-7043.
II. MINUTES
Thursday, February 7, 2019

CALL TO ORDER
1:00 pm by Richard DeLong

ROLL CALL
Commission
Richard DeLong
Dennis Bryan
Nigel Bain
Arthur Henderson
Mary Korpi
Bob Felder
John Snow

Staff
Richard Perry
Mike Visher
Rob Ghiglieri
Bryan Stockton
Debbie Selig
Valerie Kneefel
Sherrie Nuckolls
Garrett Wake
Rebecca Ely

PLEDGE OF ALLEGIANCE
Led by Richard DeLong

COMMENTS BY THE GENERAL PUBLIC
There were no comments by the public.

I. AGENDA
A. Approval of the Agenda

Motion made by: Mary Korpi
Seconded by: Nigel Bain
Unanimously approved

II. MINUTES
A. Approval of the November 16, 2018 meeting minutes

Motion made by: Bob Felder
Seconded by: Mary Korpi
Unanimously approved

III. NEW BUSINESS
A. **Introduction of two new NDOM employees.** Rebecca (Becky) Ely, Field Specialist, Southern Nevada, Sherrie Nuckolls, AA IV, Northern Nevada, promotion of Valerie Kneefel to Program Officer II. Each employee introduced themselves and told a little about their backgrounds.


**John Snow:** On your first slide, the table with funding amounts, are those the costs incurred?

Jim Faulds: This is just an example of the support for one year of the last biennium.

**John Snow:** Fringes, is that employee’s costs or the rate the university takes on?

Jim Faulds: Yes, that’s the fringe benefits, etc. on the salaries that are allocated. It’s like 43% unclassified, 27% for faculty.

**John Snow:** So it’s for actual people doing the work, not taken off the top?

Jim Faulds: Correct, right. There’s no University overhead by agreement of any monies we’ve received from the Division, or the Commission, we have an agreement with UNR they do not take any indirect costs overhead and so that’s zero percent.

**John Snow:** When I look at that amount it seems steep.

Jim Faulds: It may seem that way, but compared to many other state universities it’s actually lower.

**Rich Perry:** I just want to make a comment that the section on geothermal is much improved, and I would suggest that “it’s partially funded by the Commission on Mineral Resources” be noted somewhere, maybe on the back page and maybe the Division logo.

Jim Faulds: I apologize; I thought we were doing that, I will make a note of that.

C. **Plans for a trade booth and presence at the Prospectors and Developers Association of Canada annual convention on March 3-6, 2019**

Garrett Wake gave an update of the Nevada booth using a PowerPoint presentation. The Division of Minerals and our partner agencies wanted more of a presence at this year’s booth. USB flash drives with the State seal with data containing exploration resources for the State of Nevada will be handed out along with updated brochures and other materials. There will be short presentations by Rich Perry, Garrett Wake, Commissioner Bob Felder and Joel Lenz with Economic Development.

**Bob Felder:** Are these talks going to be four in a row or spread out?

Garrett Wake: Spread out between Sunday afternoon and Tuesday afternoon there will be one in the morning and one in the afternoon with five total.

**Richard DeLong:** I have something for the Commission to think about, we’re attending the PDAC meeting which is more of an International meeting with other countries and other provinces. There’s also a meeting in Vancouver in January called Roundup that focuses more on western North America and I think we should discuss or think about going to that one also.

Bob Felder: It’s a good idea, because PDAC is an investor show, there are people there who are interested in bringing their investment money to Nevada. Roundup is more focused in terms with our missions and what we’re doing with our booth.

Dennis Bryan: I haven’t been to Roundup in quite some time, how many people attend that?

**Bob Felder:** PDAC is large, maybe 25,000-30,000, whereas Roundup is maybe 3,000-5,000 but it has a large number of technical sessions. Our company gets much more traction at Roundup than PDAC; more of a boots on the ground crowd vs. suit and tie crowd.

D. **Commission Study and Report by the Nevada Bureau of Mines and Geology (NBMG).**


**Richard DeLong:** I have a question for Rich, what did we put in the budget for this year?

**Rich Perry:** What Jim is proposing would start July 1, 2019 for FY20. We requested $90,000 that still needs to be approved by legislature. Then we would have to redo the contract with NBMG. But, I don’t see that being a problem.

**Richard DeLong:** Thanks, I just wanted to refresh what we have budgeted.
Mary Korpi: Good info. My question is based on which one do you get the most questions about wanting that data and what ultimately is the best payback to Nevada?
Jim Faulds: I think they all do, depends on who you talk to. I think the geothermal industry would like to see more data come out.
John Snow: I would just like to point out that Jim’s being a little modest here on the geothermal side and I want to toot the horn for all their efforts.
Richard DeLong: I actually would like to hear more from Commissioner Snow and Commissioner Felder from your perspective, if you see an advantage to either of those projects?
Bob Felder: If you’re asking me to vote, the first proposal seems like we’d have the most immediate effect on bringing investment and helping Nevada’s economy and I’d like some input maybe from Rich, the second one seems to overlap the open data site, so from my perspective proposal one is the best proposal.
John Snow: I would agree.
Richard DeLong: I happen to agree with Commissioner Felder, the first project looks like it’s providing the biggest bang for our buck but I think the second project is interesting.
Jim Faulds: From the perspective of the Bureau and all of the soft-funding that we need to bring each year for our support staff, either project would be greatly appreciated and would work to fill the void. Any project, each year, we get funded from the Commission is helpful and keeping that support staff going and hopefully we’re producing valuable products everyone appreciates.
Dennis Bryan: All 3 projects have merit; I agree project 1 has the biggest bang for our buck. Down the road how would we go about increasing funds for the other projects?
Rich Perry: We would require IFC approval and/or a work program. There are hoops to jump through but it’s feasible to do. The Commission can initiate that process with us and after the budget has been approved, we can start working on that as of early July, after Legislature closes its session.
Richard DeLong: I think we have a couple of ways to proceed here and get a sense of the Commission. We could defer this item until after the budget discussion and vote on 1 or more of these if we want, we certainly budgeted for at least one of them and we could vote on that now.

Motion made by: John Snow made a motion to provide funding of approximately $35,000 for proposal 1.
Seconded by: Nigel Bain
Unanimously approved

Richard DeLong: Is it the sense of the Commission that they would like to revisit proposal 2 to be discussed later in this meeting?
Mary Korpi: Jim, is there enough manpower on your end to do more than one project?
Jim Faulds: Yes, to be honest we couldn’t do project 2 or 3 in the same year because it would be the same personnel but we could do project 1 and one of the others in the same year.
Richard DeLong: I get the sense of the Commission we’ll leave this item open and revisit it in IV A.

E. 2019 Legislative Session (80th Session of the Nevada Legislature)
Rich shared the presentation given to the Legislature as background video, he went over the cycle of the session, any Bills that the Division is tracking and that may have impact to the Commission, there aren’t any Division bills this year. New reporting structure for the Governor’s office including the Cabinet agencies members, Non-Cabinet agencies and Constitutional agencies, all appointed by the Governor. The Commission on Mineral Resources is a Non-Cabinet agency in the Executive Branch. Rich reports to the Governor’s office, his direct contact is Scott Gilles, Senior Advisor, recently hired and comes from City of Reno as a legislative Liaison and worked on special projects. Rich shared the new NDOM brochure and explained we’re using this to explain what the Commission of Mineral Resources and Division of Minerals does and how we operate.
Dennis Bryan: What’s Scott Gilles background, where does he come from?
Rich Perry: He’s a UNR grad with a background in, I believe, political science, not sure if he’s a lawyer or not. He went to school with Paul Enos who is one of his friends. That’s about all I know so far.
John Snow: Would he be the new Pam, so to speak?
Rich Perry: He is the new Pam, that’s who I reported to before, my handler in the Governor’s office.
John Snow: Is there a change in the State Energy Office?
Rich Perry: Yes, there were a number of changes in the direct departments, in energy, Angie Dykema left and David Bobzien was appointed as the Administrator or director I’m not sure for the Governor’s office of Energy. We actually invited him over last week for a meeting, as we do a number of things together and wanted to help get the process off to a good start. Things we crossover are the GRC Conference and some things in geothermal. There’s not a new head of AG yet. Wildlife and DCNR are the same people Brad Crowell with DCNR Tony Wasley who’s at Wildlife was reappointed, Jason King retired several weeks ago and Tim Wilson was appointed the acting State Engineer.

Rich went over the 2019 Legislative Session 120-day calendar and talked about the different dates for tracking bills and new bills. One direct bill that impacts us is Senate Bill 53, it’s a bill that has a primary sponsor of Division of Environmental Protection regulatory changes supported by us, it’s a language change with a limit amount of days that the Mining Oversight and Accountability Commission has to review regulatory changes.

Rich presented the Commissioners with the Guide to Legislature pamphlet which explains the history of the Legislature and the building layout, pictures of the Legislatures and what they represent for both the assembly and senate, Rich referred to page 20 that has two pie charts which are very informative and explains where the revenue comes from, showing revenues from the last biennium. Net proceeds of mines fit in the Non-Tax Revenues section or other taxes.

Discussion of the budget related to the Legislature, Governor’s Finance Office in the Nevada executive budget system. The first pie chart is for funding sources, federal funds, and transfers.

John Snow: Rich will you be participating in Mining day?

Rich Perry: Yes, there are three dates that relate to us at the legislature, I will be participating in but not doing any jobs or talks. The dates are; Mining Day at the Legislature sponsored by the Nevada Mining Association February 13, 2019. UNR Public Agency Day on February 25, 2019 and Mineral Exploration Day on April 24, 2019.

F. Reimbursement Policy for professional organizations and meetings and for Safety Gear

Rich stated necessary updates to two agency policies for reimbursement required in order to match language in the State Administrative Manual and stay current with industry practices. Rich made a recommendation to approve the reimbursement policy for professional organizations.

Motion made by: Nigel Bain made a motion to approve as recommended.

Seconded by: Dennis Bryan

Dennis Bryan: Just because it’s listed here doesn’t mean that organizations outside this list would be reimbursed as well.

Rich Perry: Actually that is the intent that these are the ones that could be reimbursed based on our query, all of our employees.

Dennis Bryan: What about the NNEC annual meeting?

Rich Perry: Annual meetings are not covered; these are just the association dues. We cannot be a member of NNEC because it’s a political organization but the meetings we go to we do pay for the convention if we’re not a speaker.

Unanimously approved

Reimbursement Policy for Safety Gear:

Relates to our interns and employees, we’ve always given some money to our interns to buy boots and Carhartt’s so that they’re adequately prepared with proper PPE. This is to formalize the policy with a limit of $200.

Motion made by: Mary Korpi to approve as recommended.

Nigel Bain: If we brought on a student for a week or two would they get this as well?

Rich Perry: Yes, they would get this once a year, winter interns must go thru a summer internship before being able to be a winter intern so it’s once a year. Now if they started with us and they got their gear and two or three weeks later they quit or were terminated then I guess we probably won’t get it back, we wouldn’t ask for it back.

Nigel Bain: It might be worth some language and a timeline on it.

Rich Perry: We can if you amend your motion.

Richard DeLong: Let me ask a question, have we ever had a situation or how often have we’ve had situations where you’ve hired someone and they’re only around for a week or two?

Rich Perry: I can answer just that in the last five years, since I’ve been here, the only time we have lost employees is when we terminated them for some reason and generally that was in their first month and that’s rare. That has not happened in the last two years.
**Nigel Bain:** I think that the Division has a great history of safety, considering all the things you are doing for the interns, but there could be an incident.

**Rich Perry:** If they do that they don’t get a letter of recommendation. It’s a great program, we don’t really lose people that decide this isn’t for me, our program is kind of like a boot camp and if you make it through that, you get a letter of recommendation. I think they’re 90% placed with a company the following year when they live through our program, people know that they have safety training.

**Seconded by:** Bob Felder

**Unanimously approved**

### IV. OLD BUSINESS

**A. Update of Commission/Division Financials Fiscal year 2018**

Mike Visher went over the highlights with total revenue of $2,566,589, a 7.9% increase over FY17. Mining claim filing fees totaled $2,032,980 with a 10% increase over FY17 and 79.2% of total revenue, including $150,000 from Clark County for partial cost of Arden Mine AML project. Total expenditures of $2,602,529 with a 27.3% increase over FY17 and $507,677 on contracted AML and an increase of 274% over FY18. The reserve balance of $1,358,743 forwarded to FY19. The guidance from the Commission is that we maintain a minimum of $950,000 as a reserve balance which is roughly six months of expenditures for the agency.

Mike presented a PowerPoint presentation with Mining Claim Fee Revenues, FY19-FY21 Mining Claim Revenue Forecast, and Financial Forecasts through FY21, Base and Alternate Forecasts thru FY21, Mining Claim Fee Reduction Analysis and Proposals. Mike talked about Jim’s proposal number 2 and how valuable it would be.

**Art Henderson:** I’ve been on the record about this a number of times, the reserve was set by the Commission several years ago so as I look at that even if we had a 5% increase per year we would be around 1.15 million. If we take your expenditures for FY19, FY20 and FY21 take an average 50% of that is 1.18 million, I’d like to recommend we increase the minimum reserve to stay at 50% of our proposed expenditures that doesn’t change it a lot, about 200,000, but it does allow the AML program to continue we had concerns that we put more money into the AML that we would lose efficiency, that hasn’t been true. The more money we put in, the more mines are closed and we should still consider a reduction in fees.

**Richard DeLong:** I agree with you Art, it’s something worth considering; we should do that in an agendized action item at the May meeting along with what Mike has proposed. Changing our revenue source is a very meaningful action. I’m more of an advocate to increase expenditures which is something we can manage on a year to year basis.

**John Snow:** I agree with the Chairman.

**Dennis Bryan:** The increase in mining claims is mostly due to lithium, correct?

**Mike Visher:** Roughly six months of expenditures.

**Dennis Bryan:** I think the lithium claims have peaked.

**Rich Perry:** If we look at the bigger picture, 5 years ago we were at 163,000 claims and just this last year we finished at 198,000. We increased our AML expenditures to put that money to use, but we also leveraged that to include money from the counties to get more AML work accomplished. We’re about at the limit of what we can handle for AML work unless we hire more people. I think it is time to consider a fee decrease and it sends a good message to the industry.

**Dennis Bryan:** If we reduced the claim fee by a dollar and five years down the road the number of claims spiraled down, how easy would it be to increase the fee by a dollar?

**Rich Perry:** Same rulemaking process as reducing it a dollar. The cap at $10 can only be raised by the legislature and that would be much more difficult.

**Art Henderson:** If we have an extraordinary event, like we did with lithium, is there a means by which we temporarily reduce the fee for a set period of time?

**Rich Perry:** It would still require going through the rulemaking process.

**Bob Felder:** Do you have a statewide inventory and will the AML program ever be done?

**Rob Ghiglieri:** We’ve been inventorying for 30 years, we think we’re maybe halfway though. Out of 22,500 sites that have been inventoried only roughly 6,500 have been hard closed, remaining 14,000 sites have be safe guarded or temporarily fenced, so to answer your question, as of right now, no.

**Richard DeLong:** Before we leave this item lets circle back to Jim’s request for proposal 2, do we want to revisit it here?
Art Henderson: We should find a way to fund proposal 2 because in May we’re going to find new programs that we don’t know about and we already know about this one so I think we need to find a way to fund this program now. I think we should approve the 2nd proposal today.

John Snow: $35k seems a little light to get all the work done.

Jim Faulds: A slight increase might be more appropriate but we appreciate any amount.

**Motion made by:** Dennis Bryan moved to direct staff to develop a plan to fund and execute proposal 2 in FY20 not to exceed $40,000.

**Seconded by:** Art Henderson

**Unanimously approved**

**B. 2018 Annual Report for NDOM’s AML Program, plans for 2019 and possible approval of additional projects**

Rob shared a PowerPpoint presentation regarding the 2018 Abandoned Mine Lands program review with preliminary statistics, Intern statistics and Hard Closures.

Art Henderson: How old are the explosives, could they tell?

Rob Ghiglieri: They don’t know but the mines were operational in the 50’s and the 60’s, they wrapped det cord around them backed up and detonated them.

Art Henderson: Did the Federal government shut down slow you down any?

Rob Ghiglieri: It did for the Como and Mullen Pass projects but it shouldn’t for this winter, we just have to push a little harder to get that CXs pushed through, it’s mainly waiting for their data from last year that they normally have to me by now. I don’t see an issue yet but that doesn’t mean if they get shut down again it may affect us a little bit.

Dennis Bryan: Are you utilizing the drone to inventory these?

Rob Ghiglieri: Yes, it’s extremely helpful.

Mike Visher: I just wanted to make note that on the last item that was for possible action to increase the spending authority and work programs to increase the expenditures for AML that was a possible action item on Rob’s presentation.

Rob Ghiglieri: We have a remaining $133,118 and roughly $255,000 of projected expenditures that leaves us right around $120,000 short and that’s without having a couple of projects.

Richard DeLong: Are you looking to increase the budget to occur between now and the end of this current fiscal year?

Rob Ghiglieri: Yes.

Richard DeLong: Is that within our current budget?

Mike Visher: It’s not in the base budget as far as a work program but it was presented in the alternate forecast.

Richard DeLong: How would we get a work program approved?

Mike Visher: The work program goes through the normal process, we submit it to the Governor’s Finance Office then it goes to the Interim Finance Committee. While the Legislature is in session it’s not the Interim it’s just the Finance Committee so it goes through that same process.

Richard DeLong: There is a process?

Mike Visher: Yes.

Richard DeLong: I wasn’t aware of it.

**Motion made by:** Nigel Bain moved to approve an additional $137,457 in spending for Category 39 to finish the proposed hard closure projects.

**Seconded by:** Mary Korpi

**Unanimously approved**

**C. Southern Nevada Education Outreach Update for 2018**

Garrett Wake presented a PowerPpoint presentation regarding all of Nevada Education Outreach by category which included K-12 schools, trade shows, conferences and workshops, civic, government, and professional organizations and clubs, public events, Boy Scouts/AML. He talked about the new NDOM K-12 classroom presentations, NDOM agency brochure, and 2019 Teachers’ Workshops.

**D. Las Vegas Natural History Museum Exhibit Update**
Garrett Wake gave an introduction and talked about current concepts and design, fabrication of exhibit, and timeline through a PowerPoint presentation. The museum is moving across the street to a bigger location and should open late 2019 or early 2020. We need to start the RFP process for an exhibit contractor soon.

Mary Korpi: Is the Mining Association anteing up the same amount of money or are they providing any support financially?

Garrett Wake: I believe they chose not to allocate any money towards it, however, they are willing to help us build a display like the one they have at the Reno airport with a monitor on a stand displaying a virtual mine tour.

COMMISSION BUSINESS

A. Determination of time and place of next CMR meetings
May 9, 2019 afternoon 1:00 pm Reno, NV and August 15, 2019 afternoon 1:00 pm Winnemucca, NV with a tour on Friday, August 16, 2019.

COMMENTS BY THE GENERAL PUBLIC
No public came forward for comment.

ADJOURNMENT
5:04 pm
III. NEW BUSINESS
III. A Presentation of the 2017-2018 Exploration Survey
NEVADA MINERAL AND ENERGY RESOURCES
EXPLORATION SURVEY
2019

conducted by

Mike Ressel
Nevada Bureau of Mines and Geology

for

Nevada Division of Minerals

May 9, 2019
2019 Nevada Exploration Survey

Administered online December 2018 through January 2019

https://goo.gl/forms/duGYtbSuNovc5z3J2

Designed to:

• assess the minerals and energy exploration climate in 2017 and 2018

• estimate exploration’s impact on Nevada’s economy, including direct costs and labor

The Nevada Bureau of Mines and Geology is conducting a survey of Nevada exploration activities on behalf of the Nevada Division of Minerals. The role that exploration plays in Nevada’s natural resource industries and its overall economy is not well understood by Nevada’s legislators and citizens. Please fill out the survey as it will help quantify the impact of exploration on the economy and jobs in Nevada. The amount of money your company spent on Nevada exploration and the number of people you employed in your Nevada exploration activities are the two most critical items to include. The information you provide may help ensure governmental policies that affect exploration are carefully evaluated.

Information from individual surveys will remain strictly confidential - that is, no information on individual companies or individuals will be published in any form. Our goal is to provide Nevada legislators with accurate information on total exploration expenditures and employment in time for the start of the next legislative session in February 2019. Please do not hesitate to contact me if you have any questions. Also, please forward this information and the survey link should there be a more appropriate person to answer survey questions: https://goo.gl/forms/MrV00LF6Mr08XjX2

Thank you very much for participating.

Mike Ressell, Ph.D.
Research Economic Geologist/Assistant Professor
Nevada Bureau of Mines and Geology
University of Nevada, Reno
Phone: 775-682-7844
Email: mressell@unr.edu

Email address *

Valid email address

This form is collecting email addresses. Change settings

Image title
2019 Nevada Exploration Survey

Survey Questions

The first two questions are critical. Please answer the rest if you can.

1. What were your company’s approximate exploration expenditures in Nevada in 2017, and in 2018 in US dollars? (Do not enter the "$" or "," in your response as it will cause an error).

2. How many people did your company directly employ in exploration in Nevada in 2017, and in 2018? Include full- and part-time professional and support staff, both company employees and consultants.

3. If you can, please ESTIMATE the percentage of your company’s total Nevada expenditures in 2018 that went toward the following categories, including salaries and benefits.

- Actual exploration drilling, geology, geotechnical, geophysics, etc. (%)
- Land holding costs/costs of site acquisition, property acquisition, lease payments, etc. (%)
- Permitting and compliance (environmental studies, bonding, reclamation, etc.) (%)
- Corporate costs (overhead, legal, taxes, etc.) (%)
- Other (please specify) (%)

4. Please ESTIMATE the percentage of your Nevada exploration expenditures dedicated to expansion around existing operations and to grassroots efforts.

5. Pertaining to Nevada, please rate how the following factors impact your exploration activity, with 1 being insignificant and 5 being very significant.

- Favorable geology
- Potential for new discoveries
- Commodity prices

6. Access to public land in Nevada:

7. Claim/Leases:

8. Time and costs required to permit:

9. Uncertainty over U.S. Mining Law reforms:

10. Other (please specify):

11. How is the U.S. economy presently impacting your company’s exploration plans?

12. Compared to 2018, do you expect your company to spend more or less on Nevada exploration?

Thank you. All individual responses will be held confidential.
Research and Survey

- Compiled a list of 315 companies operating or recently operating in Nevada
- Received online responses from 125 companies
- Received additional “no exploration conducted” responses from 23 companies
- Researched expenditures on 24 non-responding companies
- Obtained expenditure data for 172 companies
Nevada Minerals/Energy Production

2017: $8.5B (USD) total minerals value

Production (millions of $ USD)

Gold
Silver
Copper
Barite
Aggregate
Geothermal
Other

Years:

Minerals/Energy Production:
- Gold
- Silver
- Copper
- Barite
- Aggregate
- Geothermal
- Other
Average Commodity Prices

Gold (troy oz)  
Silver (troy oz; x50)  
Copper (lb; x400)  
Molybdenum (kg; x50)  
Lithium carbonate (lb; x500)  
Barite (ton; x10)
Nevada Exploration Expenditures*

- 2018 Reported Expenditures: $461 M (n=172)
- 2017 Reported Expenditures: $351 M (n=172)

BY COMPARISON:
- 2016 Expenditures = $325 M (n = 163)
- 2011 Expenditures = $675 M (n=169)

- 2017 to 2018 increase: Nevada: 31%, Global**: 18%

* Minimum expenditures based on partial pool of companies reporting
** Data from Global Market Intelligence summary report, 2019
Minimum Exploration Expenditures 2011 and 2015 through 2018

Nevada Exploration Spend by Year

Expenditures (in millions USD)

- Precious metals
- Energy metals
- Base metals
- Industrial minerals
- Geothermal
- Petroleum

2011 spend: $674M (n=169 companies)
2015 spend: $347M (n=163 companies)
2016 spend: $324M (n=163 companies)
2017 spend: $351M (n=172 companies)
2018 spend: $461M (n=172 companies)
Breakdown of 2018 Nevada Exploration Spending

- $461M spent
- 32% increase YOY increase
- 42% increase since 2016 ‘bottom’
- But, 32% below peak spending in 2011
Exploration Expenditures by Commodity Class and Company Spend Amounts

2018 Exploration Expenditures

Number of Companies

- Precious metals
- Base metals
- Energy metals
- Industrial minerals
- Geothermal
- Petroleum

Exploration Expenditures

- <$100K
- $100K - <$250K
- $250K - <$500K
- $500K - <$1M
- $1M - <$2.5M
- $2.5M - <$5M
- $5M - <$10M
- >$10M
Global Metals Exploration Expenditures

Nevada spending consistent with global trends

Data from *Global Market Intelligence* summary reports, 2018 and 2019
Survey of 3,300+ companies by Global Market Intelligence

$10.1B USD (all non-ferrous minerals)

Nevada comprised about 54% of U.S. spending
Direct Exploration Employment 2011, and 2015 through 2018

Nevada Exploration Employment by Year

- Precious metals
- Energy metals
- Base metals
- Industrial minerals
- Geothermal
- Petroleum

Number of Employees

2011 labor
2015 labor
2016 labor
2017 labor
2018 labor
Direct Exploration Employment by Company Size
2011, 2015, and 2016

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Expenditures by Exploration Type

2018:
- Grass Roots/Generative: 39%
- Resource & Mine Expansions: 61%

2011
- Grass Roots/Generative: 33%
- Mine Expansion: 67%

Percentages calculated on a cumulative cash basis
2018 Breakdown of Expenditures

- Exploration (in-ground): 66%
- Holding Costs: 15%
- Permitting/Compliance: 7.5%
- Corporate: 8.5%
- Other: 3%

Cumulative cash basis; n =73 respondents in 2016
2019 Exploration Outlook

RESPONSES TO THE QUESTION: COMPARED TO 2018, DO YOU EXPECT YOUR COMPANY TO SPEND MORE OR LESS IN 2019 ON NEVADA EXPLORATION?
Nevada Exploration Impact Factors

Impact Factors:
- Uncertainty over U.S. Mining Law reform
- Time and costs required to permit
- Claim fees/Leases
- Access to public land in Nevada
- Commodity prices
- Potential for new discoveries
- Favorable geology

**Impacts**
- Green = positive
- Yellow = variable
- Red = negative

Impact Factor (5=high; 1 = low)
### 2018 Factors Impacting Exploration

5=high impact, 1=low impact

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<td>Access to Public Land</td>
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<td>Permitting Time/Costs</td>
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<td>Commodity Prices</td>
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n = 114
Comments from Nevada Explorers

What issues negatively impact your efforts the most?

- Time and Cost to Permit 33 responses
- Sage grouse, other land withdrawals 12 responses
- High claim fees 8 responses
- Uncertainty over mining law reform 6 responses
- Environmental regulations 3 responses
- Water regulations 3 response
Breakdown of 2017 Nevada Exploration Spending

- $351M spent
- 8% increase from 2015
III. B  Las Vegas Natural History Museum Update
Las Vegas Natural History Museum Exhibit Update

Commission on Mineral Resources Meeting
9 May, 2019

Garrett Wake
Nevada Division of Minerals
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Overview

• Update since Feb CMR Meeting
• Final Sketches
• Timeline
• RFP Update
• Questions
Update

• LVNHM could not secure adequate funding to move to new location
  • New plan is to use donations towards updating current museum
  • LVNHM would still like to incorporate CMR exhibit at current location
  • Possibility of moving to new venue at a future date

• No changes in design of exhibit necessary
  • Color scheme, font, etc. had not been built into the design at this point
Final Sketches – Activity 1
Rock Forming Environments
Final Sketches – Activity 2
Rock Identification
Final Sketches – Activity 3

Mineral Uses

A3. Top portion of activity station

NvMA Virtual Mine Tour
Final Sketches – Activity 4
Mineral Properties
Final Sketches – Activity 4 (alternate)
Mineral Properties
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RFP Update

• Bidding ended 4/26/19
  • No bids submitted
  • Garrett will be speaking with design companies to identify ways of making project feasible
  • Can re-submit RFP at any time, though modifications will need to be made to ensure companies bid

• Options for resubmittal
  • Redesign areas of the exhibits to bring down costs
  • Create only one of the two designed tables
  • Extend production timeline to help companies backlogged with work
  • Others?
Las Vegas Natural History Museum Exhibit Update

Commission on Mineral Resources Meeting
9 May, 2019

Questions

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III. C Update of Internal Controls for Abandoned Mile Lands Public
THIS SECTION IS INTENTIONALLY LEFT BLANK.

HAND OUTS AND PRESENTATION WILL BE GIVEN AT THE MEETING.
III. D  AME Roundup in Vancouver, January 20-23, 2020
2020 AME Roundup Trade Show
Recommendation and Budget Forecast

Commission on Mineral Resources Meeting
9 May, 2019

Richard Perry
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Overview – 2020 AME Roundup

• Background
• Justification for Nevada presence
• Budget forecast
• Deliverables
• Conclusion
AME Roundup – Background Information

- Mineral-exploration trade show hosted in Vancouver, Canada
- Attended by over 6,600 people from over 49 countries in 2019
- Four-day event held annually in January
- PDAC has about 4x the attendance, but is more focused on mining, whereas ROUNDUP is focused on exploration

Google Maps screenshot of the geographic region where Roundup is held.
AME Roundup – Background Information (cont.)

• Other government entities in attendance:
  • BC Ministry of Energy, Mines and Petroleum
  • Governments of Greenland, Saskatchewan, Northwest Territories, and Yukon
  • Nova Scotia Department of Energy and Mines
  • State of Alaska
    • Alaska Miners Association hosted “Alaska Night” event

Photo of AME Roundup Trade Show floor, Jan 2019
Img src: https://apscpp.ubc.ca/news-events/association-on-mineral-exploration-round-up-2019/
AME Roundup – Justification for Nevada Presence

• NRS 513.073:
  • (1) “Encourage and assist in the exploration for and the production of... minerals within the State.”

• Frasier’s Attractiveness Index
  • Nevada jumped from #3 to #1 worldwide in 2018 survey
  • First year Nevada hosted an exhibit at PDAC

• U.S. top producer of non-fuel minerals (2018, by value)
  • Continued exploration integral to maintaining production

• PDAC is a similar event
  • Nevada representatives continuously engaged in relevant conversation

• One of few international events with the potential to bring investment to Nevada
  • Provide information and resources to promote and assist in mineral exploration and production.

Figure 3: Investment Attractiveness Index

Figure 3. from the 2018 Frasier Institute Annual Survey of Mining Companies, 2018 (pg. 9; frasierinstitute.org)
AME Roundup – Budget Forecast

- January 20-23, 2020
  - 1 NDOM employee
  - Arrive Jan 19th, depart Jan 23rd
    - 5 days, 4 nights
- Airfare: $400-$500 USD
- Hotel: $231/night = $924 USD
  - Based off of 2019 conference group rates at nearby hotels
  - Inclusive of taxes, fees, and 10% buffer
- M&IE: $127/day = $635 USD
- Local transportation: $144 USD
- Conference admission: $ USD
- Total: $2,547 USD

Excel worksheet containing an adjustable cost breakdown (0.80 conversion rate CAD/USD)
AME Roundup – Deliverables

Recommend (1) representative to attend in Jan, 2020 and:

• Determine benefits of Nevada’s presence
  • Visual documentation all aspects of the conference
  • Network with companies and government entities and inquire about the benefits of a presence
• Determine future level of Nevada presence (if applicable)
  • Individual attendance
  • Exhibit space
  • Other
• Report to CMR on findings
• Funding from FY 2020 OOS travel, 2 to PDAC, 1 to AME Roundup (vs. budget of 3 to PDAC)
AME Roundup – Deliverables (cont.)

Questions to answer:
• Would participation reasonably lead to increased exploration or investment?
• Would we generate enough interest, or solicitation for information to be worthwhile?
• Is there benefit in attending Roundup in addition to PDAC?
• Do we have the resources to maintain a presence if deemed necessary?
• Is Roundup too regionally-focused to benefit Nevada?
• Others?
References

- https://www.miningandenergy.ca/events/article/ame_roundup_2019/
- https://roundup.amebc.ca/
2020 AME Roundup Trade Show
Recommendation and Budget Forecast

Commission on Mineral Resources Meeting
9 May, 2019

Questions

Richard Perry
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III.E 2018 Nevada Mineral, Geothermal and Oil production
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<td><strong>4,902,156</strong></td>
<td><strong>8,017,874</strong></td>
<td><strong>144,655,766</strong></td>
<td><strong>459,959</strong></td>
</tr>
</tbody>
</table>
NEVADA GEOTHERMAL POWER PRODUCTION

2018 Production

3.5 Million megawatt hours sold

+7.08% vs. 2017

Average Price, Cents Per KWH

Thousands MWH sold

YEAR


Average Price

Production

Geothermal prod2018.xls
NEVADA OIL PRODUCTION
1955 - 2018
CUMULATIVE PRODUCTION
54,199,538 BARRELS

2018 Production
254,968 Barrels
-10.5% vs. '17
IV. OLD BUISNESS
IV. A Open Data Site Update
Nevada Division of Minerals
Open Data Site Update

Lucia M. Patterson, GIS/Field Specialist – Geologist

Nevada Division of Minerals
Open Data Site

New items:
1. Nevada Mining Claims (All mining claims Active, Closed, or Pending)
2. Mining Districts and Commodities

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

Disclaimer

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

Hover over any of the photos below and click on text box that appears

Nevada Bureau of Mines and Geology
Geological Society of Nevada
Nevada Mining Association
Nevada BMRR Mining Regulation Branch

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About
- GeoNet forum on Open Data
- Documentation
- Global Open Data Community
Nevada Mining Claims, Notices of Intent, and Plans of Operation

The following map was constructed to provide more data to those investigating existing, potential or possibly incumbent mineral properties in the state of Nevada. There is an enormous amount of data on the following map, not all of which is displayed by default, as drawing speeds of the interactive map would be severely impaired (There are almost 2 million point present in this map). In order to view the data you must turn the desired layer on from the layers list. The table of contents will only show layers that are turned on and can be viewed in the current extent.

What is in the map?

1. Mining Claims which include ALL Active, Closed, and Pending mining claim listings which were pulled from the BLM’s LR2000 database in February, 2019. Any sections with claim listings are shown in dark gray and the number of claims per section is displayed in the center of the section. The actual data points for the individual mining claims have been separated by county and must be turned on from the layers tab of the interactive map viewer to be viewed. It is recommended that you only turn on what you need. All claim points are plotted in the center of the section specified in the LR2000 database, as that is the highest resolution we have to date. Claims can be searched using the serial number. For viewing claims in a section it may be best to select the claims then view them in the attribute table.

2. Notices of Intent (NOI) and Plans of Operation (POO) either Authorized or Closed that have been filed and can be retrieved from the BLM’s LR2000 database. Any sections with NOI’s or POO’s are shown in black simple cross hatch. The actual data points for the individual POO’s and NOI’s are on by default. All NOI and POO points are plotted in the center of the section specified in the LR2000 database, as that is the highest resolution we have to date. Duplicate entries for Serial Numbers can be attributed to the fact that several people are linked to specific cases and that Plan and Notice boundaries extend into more than one section. We did not want to remove this data for fear that it may compromise research efforts. As long as the layer is on a search can be completed in the search bar for Serial Number and Customer Name. A filter can be applied to the NOI’s and POO’s based off of the reported commodity and their disposition, at the time this data was pulled, using the filter widget that can be found on the left side of the map. Utilize the toggle switch to make sure the filter is turned on in order to display results.

3. Historic mining districts are shown for reference. Mining districts can searched by district name or filtered by commodity. Utilize the toggle switch to make sure the filter is turned on in order to display results.

---

Click Here  To view interactive map on a mobile device

Click Here  For help with the interactive map viewer

Click Here  To Return to NDOM’s Open Data home page

Click Here  To go to NDOM’s home page
Nevada Mining Claim, Notice of Intent and Plan of Operations Listings

Legend

NVCounties

Notice of Intent (380913; March 2019)
- PENDING
- AUTHORIZED
- CANCELLED
- EXPIRED
- CLOSED

Sections With POO or NOI Listings March 2019
Nevada Mining Claim, Notice of Intent and Plan of Operations Listings

Which commodity are you interested in? After you enter your commodity press enter and only the POO’s with the specified value will be shown.


Copper

Sections With POO or NOI Listings March 2019
This Notice of Intent NVN 097270 has COPPER as the commodity of interest and the case disposition is AUTHORIZED. The bond was obligated on 2/25/2019 and the total case acres is/was 3.83.

The customer name for this listing is PRIMUS RESOURCES LC.

For more information regarding this Notice of Intent CLICK HERE to be Zoom to.
Notice of Intent NVN 097270

This SURFACE MGT- NOTICE is partially or completely located in Township 0310N, Range 0390E, Section 016.

This Notice of Intent has COPPER as the commodity of interest and the case disposition is AUTHORIZED. The bond was obligated on 2/25/2019 and the total case acres is/was 3.83.

The customer name for this listing is PRIMUS RESOURCES LC

For more information regarding this Notice of Intent CLICK HERE to be redirected the the BLM Pub CR Serial Register Page Report

Geo state = NV (This will autopopulate Land Office and Prefix)
Serial Nr = 097270 (copy the number and paste it into the box)

If you would like more information on all Notices or Plans CLICK HERE to be redirected to the BLM Pub CR Serial Register Page Report

Admin State = NV

If you would like to search for this entire township and range copy:
21 0310N 0390E and paste it into the 2nd box

If you would like to search for this particular section copy:
21 0310N 0390E 016 and paste it into the 5th box

Case type = 380910 for POO's
or
380910 for NOI's

The Action Code = 460 (for Bond obligated)
You can set other parameters as they suit your particular needs.
The six criteria groupings for the Serial Register Page (SRP) Report offer the capability to request Serial Register Pages with a variety of selection options.

Notes: This report differs from the CR Serial Register Page (Live Data) Report in that the data is current only to the date of the last incremental update. The data in the Report Database is updated nightly.

Geo State: NV

Serial Nr: 097270

Paste Here
Run Date/Time: 4/25/2019 8:57 AM

Total Acres: 3.830

Serial Number: NVN 097270

<table>
<thead>
<tr>
<th>Name &amp; Address</th>
<th>Int Rel</th>
<th>% Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMUS RESOURCES LLC</td>
<td>CLAIMANT</td>
<td>100.000000000</td>
</tr>
<tr>
<td>INTOR RESOURCES CORPORATION</td>
<td>OPERATOR</td>
<td>100.000000000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mer</th>
<th>Twp</th>
<th>Rng</th>
<th>Sec</th>
<th>SType</th>
<th>Nr</th>
<th>Suff</th>
<th>Subdivision</th>
<th>District/ Field Office</th>
<th>County</th>
<th>Mgmt Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>0310N</td>
<td>0390E</td>
<td>005</td>
<td>ALIQ</td>
<td></td>
<td>SE;</td>
<td>HUMBOLDT RIVER FO</td>
<td>PERSHING</td>
<td>BUREAU OF LAND MGMT</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>0310N</td>
<td>0390E</td>
<td>008</td>
<td>ALIQ</td>
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<td>NE;</td>
<td>HUMBOLDT RIVER FO</td>
<td>PERSHING</td>
<td>BUREAU OF LAND MGMT</td>
<td></td>
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<tr>
<td>21</td>
<td>0310N</td>
<td>0390E</td>
<td>009</td>
<td>ALIQ</td>
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<td>SWSE;</td>
<td>HUMBOLDT RIVER FO</td>
<td>PERSHING</td>
<td>BUREAU OF LAND MGMT</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>0310N</td>
<td>0390E</td>
<td>016</td>
<td>ALIQ</td>
<td></td>
<td>NEW;</td>
<td>HUMBOLDT RIVER FO</td>
<td>PERSHING</td>
<td>BUREAU OF LAND MGMT</td>
<td></td>
</tr>
</tbody>
</table>
Open Data Site

New items:
1. Nevada Mining Claims (All mining claims Active, Closed, or Pending)
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Nevada Claims, Commodities & Occurrences

This page is intended to give the user the ability to see where mineral commodities and occurrences have been documented in the state of Nevada with respect to current mineral and energy producers and historic claim data (COMING SOON).

Click Here To view interactive map on a mobile device
Click Here For help with the interactive map viewer
Click Here To Return to NDOM's Open Data home page
Click Here To go to NDOM's home page

To display mining districts with the commodity of interest select the filter icon on the left hand side of the map, enter the commodity of interest and press enter.
Clicking in the area of a mining district or on an active mine or energy producer point will produce a pop-up window which will show information related to the selection.
Enter commodity of interest from list & enter
Which Commodity are you interested in? After you type in the value and PRESS ENTER only districts with the specified commodity will be shown. OPTIONS ARE AS FOLLOWS: Ag, andalusite, As, Au, barite, Be, bentonite, borates, building stone, calcium carbonate, cinder, clay, clinoptilolite, Co, coal, columbium, corundum, Cu, decorative stone, diatomite, dolomite, dumortierite, Fe, fire clay, fluor spar, fuller's earth, garnet, graphite, gypsum, Hg, kaolin, limestone, lithium, magnesite, marble, micas, Mn, Mo, montmorillonite, Ni, nitrates, oil shale, opal, Pb, Pd, perlite, phosphate, potash, Pt, Re, salt, sandstone, Sb, sericite-pyrophyllite, silica, sodium chloride, sodium sulfate, sulfur, talc, tantalum, Th, Ti, tin, turquoise, U, V, variscite, W, zeolite, Zn, or zynite.

bentonite
If you have any suggestions or comments please contact me. There are many more widgets that have not been used in these maps that may help you complete a task.

Also, maybe there are other resources we can link to!!

THANK YOU!
IV. B  PDAC Recap
2019 Nevada Booth at PDAC
Recap
Commission on Mineral Resources Meeting
9 May, 2019

Robert Ghiglieri
Nevada Division of Minerals
rghiglieri@minerals.nv.gov
minerals.nv.gov
Overview – 2019 PDAC Recap

• Photos of Booth and Location
• Presentations
• 2018/2019 Web Analytics Comparison
• Questions
Changes in 2019 – Booth Location

- North hall expanded in 2019
  - About 50% larger than in 2018
- Booth moved closer to entrance, and now off of major aisles
- Increased number of visitors to booth in 2019
Changes in 2019 – Booth Location
Changes in 2019
Graphics Design

• Graphics Design
  • Maps created or retouched by NBMG:
    • Exploration Trends and Mines & Projects Map
    • Updated Geologic Map
    • Magnetic and Gravity Anomalies Maps
  • By NDOM
    • Updated Mining Districts Map
    • Public Lands of Nevada Map
    • Updated Lithium Claims and Active Mining Claims Map
Presentations at the Nevada Booth

- Presenters:
  - Joel Lenz, GoEd
    - “The Nevada Advantage”
    - Opportunities for Ore Tolling and Copper Concentrate Processing in Nevada
  - Rob, NDOM
    - NDOM open-data website
  - Garrett, NDOM
    - MI 2017
  - Bob Felder, Renaissance Gold
    - Exploring Nevada: A Junior Exploration Company Perspective

- Presentations were 10-15 minutes in duration
- About 4-8 people attended each
2019 Web Analytics

NDOM Website
Minerals.nv.gov

NDOM Open-Data Website
2019 Web Analytics (cont.)

NBMG Open-Data
https://data-nbmg.opendata.arcgis.com/

NBMG Website
Nbm.unr.edu
Other Notable Takeaways

- **GSN**
  - Signed up five new members and totaled $1,380 in publication sales
    - Up significantly from 2018
    - ~15% uptick in web volume in March
- **NvMA**
  - Four new members directly from PDAC
- **GOED**
  - Networked with several companies and government entities
    - Corresponding with a specialty chemicals company about the possibility of locating a production facility in Nevada
    - Corresponding with a representative of the Thunder Bay Economic Development Commission
2019 Nevada Booth at PDAC

Commission on Mineral Resources Meeting
9 May, 2019

Questions

Robert Ghiglieri
Nevada Division of Minerals
rghiglieri@minerals.nv.gov
minerals.nv.gov
IV.C 2019 Legislative Session Update
# State of Nevada
## 2019 Legislative Session
### 120-Day Calendar

<table>
<thead>
<tr>
<th>Date (Day of Session)</th>
<th>Date (Day of Session)</th>
<th>Date (Day of Session)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 4 (1)</td>
<td>Mar. 16 (41)</td>
<td>Apr. 25 (81)</td>
</tr>
<tr>
<td>Feb. 5 (2)</td>
<td>Mar. 17 (42)</td>
<td>Apr. 26 (82)</td>
</tr>
<tr>
<td>Feb. 6 (3)</td>
<td>Mar. 18 (43) Legislators' Bill Introductions</td>
<td>Apr. 27 (83)</td>
</tr>
<tr>
<td>Feb. 7 (4)</td>
<td>Mar. 19 (44)</td>
<td>Apr. 28 (84)</td>
</tr>
<tr>
<td>Feb. 8 (5) Subcommittees Start Meeting Jointly</td>
<td>Mar. 20 (45)</td>
<td>Apr. 29 (85)</td>
</tr>
<tr>
<td>Feb. 9 (6)</td>
<td>Mar. 21 (46)</td>
<td>Apr. 30 (86)</td>
</tr>
<tr>
<td>Feb. 10 (7)</td>
<td>Mar. 22 (47)</td>
<td>May 1 (87) Economic Forum Report Due</td>
</tr>
<tr>
<td>Feb. 11 (8) Legislators' BDR Requests</td>
<td>Mar. 23 (48)</td>
<td>May 2 (88)</td>
</tr>
<tr>
<td>Feb. 12 (9)</td>
<td>Mar. 24 (49)</td>
<td>May 3 (89) Start Resolving Budget Differences</td>
</tr>
<tr>
<td>Feb. 13 (10)</td>
<td>Mar. 25 (50) Joint Standing Rule No. 14 and Other Remaining Bill Introductions</td>
<td>May 4 (90)</td>
</tr>
<tr>
<td>Feb. 15 (12)</td>
<td>Mar. 27 (52)</td>
<td>May 6 (92)</td>
</tr>
<tr>
<td>Feb. 16 (13)</td>
<td>Mar. 28 (53)</td>
<td>May 7 (93)</td>
</tr>
<tr>
<td>Feb. 17 (14)</td>
<td>Mar. 29 (54)</td>
<td>May 8 (94)</td>
</tr>
<tr>
<td>Feb. 18 (15) Joint Standing Rule No. 14 BDR Requests</td>
<td>Mar. 30 (55)</td>
<td>May 9 (95)</td>
</tr>
<tr>
<td>Feb. 19 (16)</td>
<td>Mar. 31 (56)</td>
<td>May 10 (96)</td>
</tr>
<tr>
<td>Feb. 20 (17)</td>
<td>Apr. 1 (57)</td>
<td>May 11 (97)</td>
</tr>
<tr>
<td>Feb. 21 (18)</td>
<td>Apr. 2 (58) Start Closing Budgets</td>
<td>May 12 (98)</td>
</tr>
<tr>
<td>Feb. 22 (19)</td>
<td>Apr. 3 (59)</td>
<td>May 13 (99)</td>
</tr>
<tr>
<td>Feb. 23 (20)</td>
<td>Apr. 4 (60)</td>
<td>May 14 (100)</td>
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<tr>
<td>Feb. 24 (21)</td>
<td>Apr. 5 (61)</td>
<td>May 15 (101)</td>
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<tr>
<td>Feb. 25 (22) Joint Standing Rule No. 14 BDR Details</td>
<td>Apr. 6 (62)</td>
<td>May 16 (102)</td>
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<tr>
<td>Feb. 26 (23)</td>
<td>Apr. 7 (63)</td>
<td>May 17 (103) Committee Passage (Second House)</td>
</tr>
<tr>
<td>Feb. 27 (24)</td>
<td>Apr. 8 (64)</td>
<td>May 18 (104)</td>
</tr>
<tr>
<td>Feb. 28 (25)</td>
<td>Apr. 9 (65)</td>
<td>May 19 (105)</td>
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<td>Mar. 1 (26)</td>
<td>Apr. 10 (66)</td>
<td>May 20 (106)</td>
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<td>Mar. 2 (27)</td>
<td>Apr. 11 (67)</td>
<td>May 21 (107)</td>
</tr>
<tr>
<td>Mar. 3 (28)</td>
<td>Apr. 12 (68) Committee Passage (First House)</td>
<td>May 22 (108)</td>
</tr>
<tr>
<td>Mar. 4 (29)</td>
<td>Apr. 13 (69)</td>
<td>May 23 (109) Finish Budget Differences</td>
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<td>Mar. 5 (30)</td>
<td>Apr. 14 (70)</td>
<td>May 24 (110) Second House Passage</td>
</tr>
<tr>
<td>Mar. 6 (31)</td>
<td>Apr. 15 (71)</td>
<td>May 25 (111)</td>
</tr>
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<td>Mar. 7 (32)</td>
<td>Apr. 16 (72)</td>
<td>May 26 (112)</td>
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<td>Mar. 8 (33)</td>
<td>Apr. 17 (73)</td>
<td>May 27 (113)</td>
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<td>Mar. 9 (34)</td>
<td>Apr. 18 (74)</td>
<td>May 28 (114)</td>
</tr>
<tr>
<td>Mar. 10 (35)</td>
<td>Apr. 19 (75)</td>
<td>May 29 (115) Budget Bills Introduced Exempt Bills from Committee</td>
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<td>Mar. 11 (36)</td>
<td>Apr. 20 (76)</td>
<td>May 30 (116)</td>
</tr>
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<td>Mar. 12 (37)</td>
<td>Apr. 21 (77)</td>
<td>May 31 (117)</td>
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<tr>
<td>Mar. 13 (38)</td>
<td>Apr. 22 (78)</td>
<td>June 1 (118)</td>
</tr>
<tr>
<td>Mar. 14 (39)</td>
<td>Apr. 23 (79) First House Passage</td>
<td>June 2 (119)</td>
</tr>
<tr>
<td>Mar. 15 (40)</td>
<td>Apr. 24 (80)</td>
<td>June 3 (120)</td>
</tr>
</tbody>
</table>

Shaded days are Mondays.
Bolded and italicized items are budget related deadlines.
IV. D Division Financials and Recommendations
### NDOM Expenditure Analysis for Reserve Guidance

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Non-Discretionary Expenses</th>
<th>Discretionary Expenses (CAT 39 only)</th>
<th>Total</th>
</tr>
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<td>2009</td>
<td>$2,196,134</td>
<td>$99,566</td>
<td>$2,295,700</td>
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<tr>
<td>2010</td>
<td>$2,024,003</td>
<td>$130,308</td>
<td>$2,154,311</td>
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<tr>
<td>2011</td>
<td>$1,951,447</td>
<td>$107,940</td>
<td>$2,059,387</td>
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<td>2012</td>
<td>$2,059,079</td>
<td>$310,452</td>
<td>$2,369,531</td>
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<tr>
<td>2013</td>
<td>$2,373,376</td>
<td>$150,290</td>
<td>$2,523,666</td>
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<td>2014</td>
<td>$2,186,485</td>
<td>$90,429</td>
<td>$2,276,914</td>
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<tr>
<td>2015</td>
<td>$2,021,700</td>
<td>$105,448</td>
<td>$2,127,148</td>
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<td>2016</td>
<td>$1,862,033</td>
<td>$45,803</td>
<td>$1,907,836</td>
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<td>2017</td>
<td>$1,908,965</td>
<td>$135,778</td>
<td>$2,044,743</td>
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<tr>
<td>2018</td>
<td>$2,094,852</td>
<td>$507,677</td>
<td>$2,602,529</td>
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<tr>
<td><strong>10 yr avg.</strong></td>
<td><strong>$2,067,807</strong></td>
<td><strong>$168,369</strong></td>
<td><strong>$2,236,177</strong></td>
</tr>
<tr>
<td><strong>6 mos. Op.$</strong></td>
<td><strong>$1,033,904</strong></td>
<td><strong>$84,185</strong></td>
<td><strong>$1,118,088</strong></td>
</tr>
<tr>
<td>2019 forecast</td>
<td>$1,845,159</td>
<td>$648,772</td>
<td>$2,493,931</td>
</tr>
<tr>
<td>2020 forecast</td>
<td>$1,966,709</td>
<td>$494,000</td>
<td>$2,460,709</td>
</tr>
<tr>
<td>2021 forecast</td>
<td>$1,907,184</td>
<td>$500,000</td>
<td>$2,407,184</td>
</tr>
<tr>
<td><strong>3 yr avg.</strong></td>
<td><strong>$1,906,351</strong></td>
<td><strong>$547,591</strong></td>
<td><strong>$2,453,941</strong></td>
</tr>
<tr>
<td><strong>6 mos. Op. $</strong></td>
<td><strong>$953,175</strong></td>
<td><strong>$273,795</strong></td>
<td><strong>$1,226,971</strong></td>
</tr>
</tbody>
</table>

Because FY19 thru FY21, as noted in current budget and in GovRec biennial budget, best reflects future expenditures, **agency recommends using $1.2M as new reserve guidance amount.** Reductions to CAT39 expenses could then act as a safety net in the event of unforeseen revenue decreases.
## Fiscal Year Cumulative Mining Claim Revenue By Month

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>JULY</th>
<th>AUG.</th>
<th>SEPT.</th>
<th>OCT.</th>
<th>NOV.</th>
<th>DEC.</th>
<th>JAN.</th>
<th>FEB.</th>
<th>MAR.</th>
<th>APR.</th>
<th>MAY</th>
<th>JUNE</th>
<th>$ YOY</th>
<th>Total Claim Filings</th>
<th>Claim Filings YOY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>$121,080</td>
<td>$357,900</td>
<td>$1,504,660</td>
<td>$1,628,710</td>
<td>$1,646,750</td>
<td>$1,926,020</td>
<td>$1,930,460</td>
<td>$1,937,910</td>
<td>$2,050,824</td>
<td>0.9%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>$168,630</td>
<td>$425,870</td>
<td>$1,374,840</td>
<td>$1,493,090</td>
<td>$1,512,540</td>
<td>$1,876,580</td>
<td>$1,885,390</td>
<td>$1,892,210</td>
<td>$1,945,520</td>
<td>13.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>$32,650</td>
<td>$236,939</td>
<td>$1,099,584</td>
<td>$1,278,775</td>
<td>$1,301,335</td>
<td>$1,622,635</td>
<td>$1,636,885</td>
<td>$1,664,685</td>
<td>$1,668,165</td>
<td>7.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>$92,072</td>
<td>$219,020</td>
<td>$999,082</td>
<td>$1,158,219</td>
<td>$1,168,827</td>
<td>$1,415,769</td>
<td>$1,418,574</td>
<td>$1,420,520</td>
<td>$1,450,134</td>
<td>5.6%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>$120,352</td>
<td>$250,079</td>
<td>$1,108,417</td>
<td>$1,280,687</td>
<td>$1,290,241</td>
<td>$1,531,683</td>
<td>$1,532,431</td>
<td>$1,550,247</td>
<td>$1,553,571</td>
<td>-4.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>$155,703</td>
<td>$306,646</td>
<td>$1,090,754</td>
<td>$1,290,496</td>
<td>$1,294,681</td>
<td>$1,602,233</td>
<td>$1,606,177</td>
<td>$1,607,656</td>
<td>$1,627,283</td>
<td>-10.7%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>$90,253</td>
<td>$311,806</td>
<td>$1,199,622</td>
<td>$1,417,171</td>
<td>$1,437,104</td>
<td>$1,775,803</td>
<td>$1,781,575</td>
<td>$1,783,870</td>
<td>$1,812,217</td>
<td>-2.8%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>$26,248</td>
<td>$239,904</td>
<td>$1,055,539</td>
<td>$1,309,017</td>
<td>$1,324,445</td>
<td>$1,793,687</td>
<td>$1,802,901</td>
<td>$1,810,432</td>
<td>$1,843,795</td>
<td>14.1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>$18,504</td>
<td>$241,374</td>
<td>$602,803</td>
<td>$895,475</td>
<td>$966,603</td>
<td>$1,554,871</td>
<td>$1,562,053</td>
<td>$1,565,649</td>
<td>$1,609,424</td>
<td>3.8%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>$34,315</td>
<td>$252,520</td>
<td>$866,626</td>
<td>$1,120,355</td>
<td>$1,151,704</td>
<td>$1,527,997</td>
<td>$1,532,639</td>
<td>$1,537,911</td>
<td>$1,566,170</td>
<td>-8.7%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FY19 data as of 3/29/19; ES 2018 payment received in FY19 ($9,180)
12 Counties pay quarterly: CC, CH, DO, ES, HU, LA, LI, LY, NY, PE, SF and WP
*Claim payments in June 2016 are skewed due to early payments ahead of $2 fee increase

**Cumulative Mining Claim Revenue By Fiscal Year**

- 2019: $1,50 fee increase (FY17)
- FY19 Forecast

Cumulative Mining Claim Revenue FY11-19_forecast_as_of_040119.xlsx
<table>
<thead>
<tr>
<th>State Fiscal Year</th>
<th>Total Claim Filings</th>
<th>Federal Fiscal Year</th>
<th>Total Active Claims</th>
<th>% State greater than Fed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>189,781</td>
<td>2010</td>
<td>176,958</td>
<td>7.2%</td>
</tr>
<tr>
<td>2011</td>
<td>196,977</td>
<td>2011</td>
<td>175,000</td>
<td>12.6%</td>
</tr>
<tr>
<td>2012</td>
<td>224,772</td>
<td>2012</td>
<td>195,991</td>
<td>14.7%</td>
</tr>
<tr>
<td>2013</td>
<td>218,407</td>
<td>2013</td>
<td>199,738</td>
<td>9.3%</td>
</tr>
<tr>
<td>2014</td>
<td>195,034</td>
<td>2014</td>
<td>183,267</td>
<td>6.4%</td>
</tr>
<tr>
<td>2015</td>
<td>186,534</td>
<td>2015</td>
<td>177,819</td>
<td>4.9%</td>
</tr>
<tr>
<td>2016</td>
<td>197,043</td>
<td>2016</td>
<td>164,295</td>
<td>19.9%</td>
</tr>
<tr>
<td>2017</td>
<td>179,935</td>
<td>2017</td>
<td>171,854</td>
<td>4.7%</td>
</tr>
<tr>
<td>2018</td>
<td>204,216</td>
<td>2018</td>
<td>177,736</td>
<td>14.9%</td>
</tr>
<tr>
<td>2019</td>
<td>204,164</td>
<td>2019</td>
<td>171,854</td>
<td>10.5%</td>
</tr>
<tr>
<td>10 yr avg.</td>
<td></td>
<td></td>
<td>199,686</td>
<td>9 yr avg.</td>
</tr>
</tbody>
</table>

Note - State claim filings are always in excess of total # active BLM claims since multiple filings may exist for individual claims. Such as for amended certificates of location and notices of location prior to cert. of location.

Cumulative Mining Claim Revenue FY11-19_forecast_as of 040119.xlsx

Filing vs Claims
KEY NDOM FINANCIALS AND AML EXPENSES

- Revenue
- Fed./Cnty. Assistance
- Expenditures
- Reserve
- Total AML
- AML % of Expend.

FISCAL YEAR

SNPLMA
CLARK CO.

CL CO. REVISIT

Arden &
Gold Butte

Revenue
Fed./Cnty. Assistance
Expenditures
Reserve
Total AML
AML % of Expend.
## Division of Minerals - Forecast of Revenue and Expenditures Through Fiscal Year 2021 - as of 4/22/2019 (BASE FORECAST)

### Revenue

<table>
<thead>
<tr>
<th>GL #</th>
<th>Description</th>
<th>FY18 Actuals</th>
<th>FY19 Actuals</th>
<th>FY19 Forecast</th>
<th>FY20 Forecast</th>
<th>FY21 Forecast</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2511</td>
<td>Balance Forward Previous Year</td>
<td>1,394,682</td>
<td>1,358,743</td>
<td>1,358,743</td>
<td>1,671,240</td>
<td>1,767,167</td>
<td>FY19 based on planned work, FY20 &amp; 21 assume $100k added each year</td>
</tr>
<tr>
<td>3578</td>
<td>BLM Cooperative Agreement</td>
<td>20,268</td>
<td>76,270</td>
<td>191,417</td>
<td>130,494</td>
<td>98,722</td>
<td>FY19 based on planned work, FY20 &amp; 21 assume $100k added each year</td>
</tr>
<tr>
<td>3580</td>
<td>USFS Assistance Agreement</td>
<td>6,565</td>
<td>13,409</td>
<td>13,409</td>
<td>8,397</td>
<td>8,397</td>
<td>FY19 based on planned work, FY20 &amp; 21 assume $100k added each year</td>
</tr>
<tr>
<td>3654</td>
<td>Oil Production Fee</td>
<td>40,016</td>
<td>23,544</td>
<td>35,000</td>
<td>35,000</td>
<td>35,000</td>
<td>Assumes no change</td>
</tr>
<tr>
<td>3717</td>
<td>Oil Permit Fees</td>
<td>6,500</td>
<td>6,800</td>
<td>6,800</td>
<td>6,800</td>
<td>6,800</td>
<td>Assumes no change</td>
</tr>
<tr>
<td>3718 &amp; 3727</td>
<td>Mining Claim Fees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>REVENUE TOTAL</strong> $3,961,271 $3,747,157 $4,165,171 $4,227,876 $4,268,879</td>
</tr>
</tbody>
</table>

### Expenditures

<table>
<thead>
<tr>
<th>CAT #</th>
<th>Description</th>
<th>FY18 Actuals</th>
<th>FY19 Actuals</th>
<th>FY19 Forecast</th>
<th>FY20 Forecast</th>
<th>FY21 Forecast</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Personnel (Sal., WC, PERS, OT)</td>
<td>1,129,169</td>
<td>860,873</td>
<td>1,205,825</td>
<td>1,280,306</td>
<td>1,284,906</td>
<td>Assumes same as FY18, adj. to 8 interns and one retirement payout (FY19); 11 FTEs for FY20/21, uses Gov Rec budget</td>
</tr>
<tr>
<td>02</td>
<td>Out-of-State Travel (Staff, CMR)</td>
<td>15,435</td>
<td>14,346</td>
<td>17,374</td>
<td>17,078</td>
<td>16,438</td>
<td>FY19: PDAC (3), AEMA (3), NAAMLP (2), JOGCC (2); FY20/21 is Gov Rec</td>
</tr>
<tr>
<td>03</td>
<td>In-State Travel (Non-AML)</td>
<td>14,654</td>
<td>8,953</td>
<td>16,865</td>
<td>13,724</td>
<td>12,325</td>
<td>Based on FY20/21 Gov Rec</td>
</tr>
<tr>
<td>04</td>
<td>Carson Operating Expenses+Equipment</td>
<td>112,369</td>
<td>110,157</td>
<td>125,626</td>
<td>119,043</td>
<td>111,787</td>
<td>Leg. approved # FY15; Gov Rec for FY20/21</td>
</tr>
<tr>
<td>08</td>
<td>CMR Travel (In-State)</td>
<td>1,852</td>
<td>3,353</td>
<td>3,660</td>
<td>6,409</td>
<td>6,409</td>
<td>Based on FY20/21 Gov Rec</td>
</tr>
<tr>
<td>09</td>
<td>Special Projects</td>
<td>484,649</td>
<td>114,474</td>
<td>166,947</td>
<td>264,000</td>
<td>134,000</td>
<td>FY19 - $85k+25kFY18/NBMG deliverables; $5k (DeMull), $25k (PDAC), $15k (NVMA Ed), $4k display updates; FY20 - $90k (NBMG deliverables), $40k (NBMG Project), $50k (LVNHMM), $25k (PDAC), $15k (NVMA Ed) $4k display updates, $40k AML Sosa video; FY21 - $90k (NBMG deliverables), $25k PDAC, $15k (NVMA Ed), $4k display updates</td>
</tr>
<tr>
<td>14</td>
<td>Las Vegas Operating Expenses</td>
<td>33,914</td>
<td>32,722</td>
<td>33,033</td>
<td>34,991</td>
<td>35,687</td>
<td>Based on FY20/21 Gov Rec</td>
</tr>
<tr>
<td>17</td>
<td>Fluid Minerals</td>
<td>19,281</td>
<td>5,476</td>
<td>10,000</td>
<td>10,313</td>
<td>10,313</td>
<td>Based on FY20/21 Gov Rec</td>
</tr>
<tr>
<td>18</td>
<td>AML Support (per diem, trucks, fuel, AML supplies and travel, SOSA supplies)</td>
<td>164,132</td>
<td>73,552</td>
<td>154,960</td>
<td>155,653</td>
<td>157,088</td>
<td>Assumes $10k swag; AML per diem 6 interns for 3 wks in winter (FY19); 8 interns FY19 - FY21; $5k/yr increased vehicle repair costs; $2k Fleet Services in FY19, $5k in FY20, $7k in FY21; $18k in FY21 for 8 new Mesa tables</td>
</tr>
<tr>
<td>26</td>
<td>Computer and IT</td>
<td>17,718</td>
<td>7,480</td>
<td>25,467</td>
<td>18,816</td>
<td>19,312</td>
<td>FY19 leg. approved #s, FY20/21 based on Gov Rec</td>
</tr>
<tr>
<td>30</td>
<td>Training</td>
<td>2,879</td>
<td>2,085</td>
<td>3,710</td>
<td>4,840</td>
<td>4,840</td>
<td>FY19 leg. approved #s, FY20/21 based on Gov Rec</td>
</tr>
<tr>
<td>39</td>
<td>AML Enhancements(contracts, equip.)</td>
<td>507,677</td>
<td>380,707</td>
<td>648,772</td>
<td>494,000</td>
<td>500,000</td>
<td>FY19 includes Gold Butte, FY20 and FY21 assumes $500k/yr contracted work plus materials</td>
</tr>
<tr>
<td>40</td>
<td>AML Conference (NAAMLP Sep. 2020)</td>
<td>0</td>
<td>1,568</td>
<td>2,100</td>
<td></td>
<td></td>
<td>FY19 per Leg. Approved (AG Cost=$0), FY20/21 based on Gov Rec</td>
</tr>
<tr>
<td>87 &amp; 88 &amp; 89</td>
<td>Cost Allocations (State, Purchasing, AG)</td>
<td>98,798</td>
<td>59,694</td>
<td>79,592</td>
<td>41,536</td>
<td>96,085</td>
<td>EXPENDITURE TOTAL $2,602,529 $1,675,441 $2,493,931 $2,460,709 $2,407,184</td>
</tr>
<tr>
<td>86</td>
<td>Reserve - Balance Forward to Next Year</td>
<td>1,358,742</td>
<td>1,671,240</td>
<td>1,767,167</td>
<td>1,861,695</td>
<td>1,861,695</td>
<td>$408,742 Reserve Amount in excess of $1,200,000 guidance</td>
</tr>
</tbody>
</table>

**RESERVE AMOUNT IN EXCESS OF $1,200,000 guidance**
Reserve Sensitivity Analysis - using flat 10 yr. avg. for MC Revenue

Agency Reserve Amount

FY 2019 FY 2020 FY 2021 FY 2022 FY 2023 FY 2024

Fiscal Year End

Base Forecast
Base w/ $150k increase to AML (4yrs)
$0.50 Claim Fee Reduction
$0.50 reduction w/ $75k increase to AML (4yrs)
$1 Claim Fee Reduction
$1.00 reduction w/ $75k increase to AML (2yrs)
$1.00 reduction w/ $75k increase to AML (2yrs)
Reserve Sensitivity Analysis - 3% YOY MC Revenue Decrease

Base Forecast (with 3% claim revenue decrease)
Base w/ $75k increase to AML (5yrs)
$0.50 Claim Fee Reduction
$0.50 reduction w/ $75k increase to AML (2yrs)
$1 Claim Fee Reduction
$1.00 reduction w/ $75k increase to AML (1yr)
Reserve Guidance ($1.2M)