STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
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Carson City, Nevada 89703
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STEVE SISOLAK
Governor

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RICHARD PERRY
Administrator

COMMISSION ON MINERAL RESOURCES
Washoe County Commission Chambers
1001 E. 9th Street #A101, Reno, NV 89512

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 **FOR DISCUSSION ONLY**
Hazard program and long-term forecast of Activity – Rob Ghiglieri

Dennis Bryan; *Small-Scale Mining and Prospecting*
Mary Korpi, *Public at Large*
Arthur Henderson; *Oil and Gas*

Commission on Mineral Resources
Richard DeLong, *Chairman; Large-Scale Mining*

Nigel Bain; *Large-Scale Mining*
Robert Felder; *Exploration and Development*
John H. Snow; *Geothermal Resources*

D. AME Roundup in Vancouver, January 20-23, 2020 **FOR POSSIBLE ACTION**

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 complied 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 **FOR DISCUSSION ONLY**

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 **FOR DISCUSSION ONLY**

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 **FOR DISCUSSION ONLY**

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 **FOR DISCUSSION ONLY**

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 **FOR POSSIBLE ACTION**

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. **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 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

STATE OF NEVADA
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RICHARD PERRY
Administrator

Thursday, February 7, 2019 1:00 P.M.

MINUTES

CALL TO ORDER
1:00 pm by Richard DeLong

ROLL CALL

Commission	Staff
Richard DeLong	Richard Perry
Dennis Bryan	Mike Visher
Nigel Bain	Rob Ghiglieri
Arthur Henderson	Bryan Stockton
Mary Korpi	Debbie Selig
Bob Felder	Valerie Kneefel
John Snow	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

DRAFT

A. <u>Introduction of two new NDOM employees.</u> 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.

B. <u>Delivery of the 2017 Mineral Industry Report and progress on the 2017-2018 Exploration Survey</u> Jim Faulds talked about the Mineral Industry report, Exploration Expenditures through a PowerPoint presentation.
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. <u>Plans for a trade booth and presence at the Prospectors and Developers Association of Canada annual convention on March 3-6, 2019</u>
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. <u>Commission Study and Report by the Nevada Bureau of Mines and Geology (NBMG).</u>
Jim Faulds presented a proposal for 3 projects using a PowerPpoint presentation. Project 1: Publish Database of Structural Setting of Geothermal Systems and Young Epithermal Mineral Deposits in Nevada (Total Cost: $35,000.) Project 2: Trends in Mineral Production – Analysis of Mineral Industry Datasets (Total Cost $35,000.) Project 3: Assessment of Critical Minerals in Nevada (Total Cost $35,000.) all for FY20.
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. <u>Reimbursement Policy for professional organizations and meetings and for Safety Gear</u>
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.
<u>Motion made by:</u> Nigel Bain made a motion to approve as recommended.
<u>Seconded by:</u> 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.
<u>Unanimously approved</u>

<u>Reimbursement Policy for Safety Gear:</u>
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.
<u>Motion made by:</u> 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 PowerPpoint 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% increases 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 a 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: Only in part.
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. <u>Determination of time and place of next CMR meetings</u>
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

QUESTIONS RESPONSES 125

2019 Nevada Mineral and Energy Resources Exploration Survey

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/MtV0OLF6MR0SXjIX2

Thank you very much for participating.

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

Email address *

Valid email address

This form is collecting email addresses. Change settings

Image title

2019 Nevada Exploration Survey

Survey Questions

5. **Phone Number**

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).

6. **2017 approximate exploration expenditures in Nevada ($)**

7. **2018 approximate exploration expenditures in Nevada:($)**

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.

8. **2017 number of employees involved in Nevada exploration:**

9. **2018 number of employees involved in Nevada exploration:**

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

10. **Actual exploration (drilling, geology, geochemistry, geophysics, etc.): (%)**

11. **Land holding costs (claims staking and maintenance, property acquisition, lease payments, etc.); (%)**

12. **Permitting and compliance (environmental studies, bonding, reclamation, etc.): (%)**

13. **Corporate costs (overhead, legal, taxes, etc.): (%)**

14. **Other (please specify) (%)**

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

15. **Expansions (%)**

16. **Grassroots exploration (%)**

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

17. **Favorable geology:**
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

18. **Potential for new discoveries:**
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

19. **Commodity prices:**
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

20. **Access to public land in Nevada:**
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

21. **Claim fees/Leases:**
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

22. **Time and costs required to permit:**
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

23. **Uncertainty over U.S. Mining Law reform:**
Mark only one oval.

1	2	3	4	5
◯	◯	◯	◯	◯

24. **Other (please specify):**

25. **6. Which, if any, of the factors in item 5 above negatively impact Nevada's attractiveness for exploration relative to other regions in which your company explores?**

26. **7. Compared to 2018, do you expect your company to spend more or less in 2019 on Nevada exploration?**
Mark only one oval.

- ◯ Much more
- ◯ More
- ◯ About the same
- ◯ Less
- ◯ Much less

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

Average Commodity Prices

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

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

Global Metals Exploration Expenditures

Nevada spending consistent with global trends

Data from *Global Market Intelligence* summary reports, 2018 and 2019

2018 Global Exploration Spending

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

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

Direct Exploration Employment by Company Size 2011, 2015, and 2016

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

Impacts
Green = positive
Yellow = variable
Red = negative

2018 Factors Impacting Exploration

5=high impact, 1=low impact

• Favorable Geology	4.4/5
• Discovery Potential	4.0/5
• Access to Public Land	3.7/5
• Permitting Time/Costs	3.5/5
• Commodity Prices	3.2/5
• Claim Fees	2.9/5
• Mining Law Uncertainty	2.8/5

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
gwake@minerals.nv.gov
Minerals.nv.gov

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

- Car
  - Similar to the house, parts of the car will have flip boards on it that tell what each part is made of
  - #14 on picture lift car and labels for different resources

- Street Light/Road/Mailboxes/bicycle with flip boards too
  12. Sidewalk
  13. Driveway

Streetscape w/ house; car; mailbox; streetlight; bicycle
↳ All w/ flip boxes stating what mineral resource used to make obj.
↳ When flip box open, light goes on the NV map showing where resources mined.

Nail
Penny
makeup
glass
pencil lead
salt
wall board
Airplane
filling (tooth)
welding
car seat
} Mix of pictures & actual objects

- Cell Phone
  - 3 views
    - Front normal view of phone

    -
    - Remaining two expose all the internal components

NvMA Virtual Mine Tour

Final Sketches – Activity 4

Mineral Properties

Final Sketches – Activity 4 (alternate)

Mineral Properties

Timeline

Task	Date/Time
Deadline for submitting questions	04/01/2019 @ 12:00 PM
Answers posted to website	On or about 04/05/2019
Deadline for submittal of Reference Questionnaires	No later than 4:30 PM on 04/25/2019
Deadline for submission and opening of proposals	No later than 2:00 PM on 04/26/2019
Evaluation period (approximate time frame)	04/26/2019 – 05/10/2019
Selection of vendor	On or about 05/10/2019
Contract start date (contingent upon BOE approval)	05/31/2019

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
Nevada Division of Minerals
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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. 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**

Editable Fields	
# of employees (RNO):	1
# of employees (LAS):	0
# of nights:	4
# of days:	5
CAD/USD=	0.8
Hotel Rate:	2019 A-R + 10% + tax
Admission Type:	Full Access

AME Roundup Budget Estimate
FY/CY 2020
Jan 20 - 23, 2020

Travel:			USD	CAD	Notes
	Airline				
	--->	LAS	$400.00	NA	Accessed 3/29/2018, mid-range fare
	--->	RNO	$500.00	NA	Accessed 3/29/2018, mid-range fare
	Taxi				
	--->	Airport to Hotel	$32.00	$40.00	
	--->	Hotel to Airport	$32.00	$40.00	
	--->	Misc Daily	$16.00	$20.00	
	Hotel				
	--->	Max per-diem	$179.00	NA	
	--->	Max P-D + tax	$205.85	NA	GST is 5%, PST in BC adds 7%, MRDT adds 3%=15%
	--->	Max P-D + 10%	$205.85	NA	
	--->	Max P-D + 10% + tax	$260.40	NA	
	--->	2019 Actual Rate	$183.20	$229.00	https://roundup.amebc.ca/attendees/hotel-visitor-info/
	--->	2019 A-R + tax	$210.68	$263.35	
	--->	2019 A-R + 10% + tax	$231.75	$289.69	These are the conference's listed hotels
	Other				
	M&IE/day		$127.00	NA	GSA Rate 2019
Conference:					
	Admission				
	--->	Full Access	$340.80	$426.00	Includes $86 membership (2019 prices)
	--->	Exhibitor Only	$240.80	$301.00	Includes $86 membership (2019 prices)
		Total:	$2,546.79		

Excel worksheet containing an adjustable cost breakdown (0.80 conversion rate CAD/USD)

AME Roundup – Deliverables

<u>Recommend (1) representative to attend in Jan, 2020 and:</u>

- 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)

Nevada Booth at PDAC, March, 2019

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://www.fraserinstitute.org/sites/default/files/annual-survey-of-mining-companies-2018.pdf
- https://roundup.amebc.ca/
- http://www.mining.com/web/ames-mineral-exploration-roundup-concludes-renewed-support-province/

2020 AME Roundup Trade Show

Recommendation and Budget Forecast

Commission on Mineral Resources Meeting
9 May, 2019

Questions

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III.E 2018 Nevada Mineral, Geothermal and Oil production

2018 Metallic Mine Production for Nevada - DRAFT (As of April 25, 2019)									
Nevada Division of Minerals Annual Status and Production Reports									
Operator	Mine	Gold 2017 (ounces)	Gold 2018 (ounces)	Silver 2017 (ounces)	Silver 2018 (ounces)	Copper 2017 (pounds)	Copper 2018 (pounds)	Molybdenite 2017 (pounds)	Molybdenite 2018 (pounds)
Barrick Cortez	Cortez Hills OP/Pipeline	902,887	508,699	28,690	8,524				
Barrick Cortez	Cortez Hills UG	336,063	76,674	55,284	16,547				
Barrick Gold	Turquoise Ridge JV	369,000	444,720	NR	NR				
Barrick Goldstrike Mines	Arturo	142,810	52,451	NR	NR				
Barrick Goldstrike Mines	Betze Post	433,422	458,287	96,541	70,621				
Barrick Goldstrike Mines	Meikle	332,315	337,376	20,632	15,918				
Borealis Mining	Borealis	300	420	508	394				
Coeur Rochester	Rochester	51,051	54,388	4,713,574	5,037,983				
Coeur Sterling	Sterling Mine	350	280	NR	NR				
Florida Canyon Mining	Florida Canyon	28,157	47,353	21,128	31,993				
Geo-Nevada	Spring Valley	14	14	13	NR				
Fiore Gold	Pan	15,652	37,403	NR	NR				
Hycroft Mining	Hycroft	1,866	0	6,067	0				
Jerritt Canyon Gold LLC	Jerritt Canyon	129,439	145,064	NR	NR				
KGHM International	Robinson	37,897	38,990	NR	171,679	112,633,428	112,552,787	652,763	459,959
Kinross Gold	Bald Mountain	281,597	284,359	82,271	21,793				
Kinross Gold	Round Mountain	425,324	375,741	868,402	798,249				
Hecla (Klondex)	Aurora	922	3,700	4,854	37,174				
Hecla (Klondex)	Fire Creek	107,143	65,450	72,283	69,004				
Hecla (Klondex)	Hollister	6,751	26,612	47,305	246,080				
Hecla (Klondex)	Midas	34,343	13,852	780,316	164,054				
Mineral Ridge Gold	Mineral Ridge	19,045	7,497	10,203	3,444				
New Gold Nevada	Black Rock Canyon	23		2					
Newmont Mining	Carlin Trend Operations	971,613	926,789	74,594	74,494				
Newmont Mining	Lone Tree Complex	41,784	24,253	936	NR				
Newmont Mining	Long Canyon	174,462	170,205	NR	NR				
Newmont Mining	Phoenix	197,026	217,015	1,191,630	826,838	33,178,523	32,102,979		
Newmont Mining	Twin Creeks	374,740	359,042	181,104	206,161				
Rawhide Mining	Denton-Rawhide	18,379	15,444	213,481	208,875				
Ruby Hill Mining	Ruby Hill	4,463	4,648	4,263	3,584				
SSR Mining	Marigold Mine	202,239	205,161	3,216	4,315				
Sunrise Minerals	Sunrise Placer	546	268	91	150				
Totals		5,641,623	4,902,156	8,477,388	8,017,874	145,811,951	144,655,766	652,763	459,959
			-13.1%		-5.4%		-0.8%		-29.5%
			YOY Change		YOY Change		YOY Change		YOY Change

2018 NEVADA METAL PRODUCTION, BY PRODUCER - DRAFT				
Ranked by gold production				
Operator	Gold (ozs)	Silver (ozs)	Copper (lbs)	Moly (lbs)
Newmont	1,808,484	1,107,493	32,102,979	
Barrick	1,767,027	111,610		
Kinross	660,100	820,042		
SSR Mining	205,161	4,315		
Jerritt Canyon Gold	145,064	NR		
Hecla (Klondex)	109,614	516,312		
Coeur	54,668	5,037,983		
Florida Canyon Mining	47,353	31,993		
KGHM International	38,990	171,679	112,552,787	459,959
Fiore Gold	37,403	NR		
Rawhide Mining	15,444	208,875		
Mineral Ridge Gold	7,497	3,444		
Ruby Hill Mining	4,648	3,584		
Borealis Mining	420	394		
Sunrise Minerals	268	150		
Geo-Nevada	14	NR		
Hycroft	0	0		
New Gold Nevada	0	0		
Totals	4,902,156	8,017,874	144,655,766	459,959

NEVADA GEOTHERMAL POWER PRODUCTION
2018 Production
3.5 Million megawatt hours sold
+7.08 % vs. 2017
Average Price
Production
Thousands MWH sold
Average Price, Cents Per KWH
YEAR
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
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2017
2018

NEVADA OIL PRODUCTION
1955 - 2018
CUMULATIVE PRODUCTION
54,199,538 BARRELS
2018 Production
254,968 Barrels
-10.5% vs. '17
4,500,000
4,000,000
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

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

Nevada Division of Minerals Open Data Site

Sign In

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.

Pages

Visit one of our pages to view interactive maps and download data. Hover over any of the photos below and click on text box that appears

Inferred Active Lithium Placer Claims in Nevada

Active mining claims in Nevada

Nevada Claims, NOI, & POO

Nevada Claims, Commodities & Occurrences

Nevada Public Lands Issues

Dissolved Mineral Resource Exploration

Education & Outreach

Visit Our Main Website

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

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Inferred Active Lithium Placer Claims in Nevada

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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

with Web AppBuilder for ArcGIS

Legend

NVCounties

Plan of Operations (380910; March, 2019)

- AUTHORIZED
- PENDING
- CANCELLED
- CLOSED

Notice of Intent (380913; March2019)

- PENDING
- AUTHORIZED
- CANCELLED
- EXPIRED
- CLOSED

Sections With POO or NOI Listings March 2019

Nevada Mining Claim, Notice of Intent and Plan of Operations Listings

with Web AppBuilder for ArcGIS

Legend

NVCounties

Notice of Intent (380913; March2019)

- PENDING
- AUTHORIZED
- CANCELLED
- EXPIRED
- CLOSED

Sections With POO or NOI Listings March 2019

Nevada Mining Claim, Notice of Intent and Plan of Operations Listings

with Web AppBuilder for ArcGIS

Filter

NOI Commodity Filter

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. OPTIONS ARE AS FOLLOWS: "Abrasive, Feldspar",All Locatable Minerals,Antimony,"Barium, Barite","Calcium, Limestone","Calcium, Sulfate-Gypsum","Clay, Bentonite","Clay, Common",Copper,Diatomite-S,"Gemstone, Diamond","Gemstone, Non-Precious","Gemstone, Semiprec Oth","Gemstone, Semiprec Sil",Gemstone-S,Gold,"Gold, Lode","Gold, Placer","Gypsum, Rock Gypsum-S",Gypsum-S,Iron,"Iron, Oxides",Limestone,Lithium,"Lithium, Brine","Magnesium, Dolomite","Metals, Precious",Missing Doc/Illegib Data-,Molybdenum,Other,Other Locatable Minerals,Perlite,"Quartz, Crystal",Rare Earths,"Sand And Gravel, S&G",Shale,Silicon,"Silicon, Quartz",Silver,"Soil/Other, Diatomite","Stone, Riprap","Stone, Specialty",Talc,To Be Defined,Tungsten,Uranium And Other Min,"Uranium, (U308 Content)",Vanadium,Water,Zeolites,"Zeolites, Erionite",Zinc

Copper

Sections With POO or NOI Listings March 2019

Nevada Mining Claim, Notice of Intent and Plan of Operations Listings

with Web AppBuilder for ArcGIS

Filter

NOI Commodity Filter

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. OPTIONS ARE AS FOLLOWS: "Abrasive, Feldspar",All Locatable Minerals,Antimony,"Barium, Barite","Calcium, Limestone","Calcium, Sulfate-Gypsum","Clay, Bentonite","Clay, Common",Copper,Diatomite-S,"Gemstone, Diamond","Gemstone, Non-Precious","Gemstone, Semiprec Oth","Gemstone, Semiprec Sil",Gemstone-S,Gold,"Gold, Lode","Gold, Placer","Gypsum, Rock Gypsum-S",Gypsum-S,Iron,"Iron, Oxides",Limestone,Lithium,"Lithium, Brine","Magnesium, Dolomite","Metals, Precious",Missing Doc/Illegib Data-,Molybdenum,Other,Other Locatable Minerals,Perlite,"Quartz, Crystal",Rare Earths,"Sand And Gravel, S&G",Shale,Silicon,"Silicon, Quartz",Silver,"Soil/Other, Diatomite","Stone, Riprap","Stone, Specialty",Talc,To Be Defined,Tungsten,Uranium And Other Min,"Uranium, (U308 Content)",Vanadium,Water,Zeolites,"Zeolites, Erionite",Zinc

Copper

Find address or place

(1 of 7)

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

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.

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

Copy This

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.

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Applications Reports

Home > Land & Mineral System > Pub CR Serial Register Page

Pub CR Serial Register Page Report

User Guide
Reference Codes

Purpose

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	Land Office	Prefix	Serial Nr	Suffix	
All NV	-	-	097270		Apply

Pub CR SRP

Paste Here

Pub CR SRP

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page

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

01 07-23-1955;069STAT0367;30USC612
Case Type 380913: SURFACE MGT- NOTICE
Commodity 170: COPPER
Case Disposition: AUTHORIZED

Total Acres: 3.830

Serial Number NVN 097270

Serial Number: NVN--- - 097270

Name & Address					Int Rel	% Interest
PRIMUS RESOURCES LC	3300 SKYLINE BLVD #325	RENO	NV	89509	CLAIMANT	100.000000000
INTOR RESOURCES CORPORATION	408-1199 PENDER ST W	VANCOUVER	BC	V6E 2R1	OPERATOR	100.000000000

Serial Number: NVN--- - 097270

Mer	Twp	Rng	Sec	SType	Nr	Suff	Subdivision	District/ Field Office	County	Mgmt Agency
21	0310N	0390E	005	ALIQ			SE;	HUMBOLDT RIVER FO	PERSHING	BUREAU OF LAND MGMT
21	0310N	0390E	008	ALIQ			NE;	HUMBOLDT RIVER FO	PERSHING	BUREAU OF LAND MGMT
21	0310N	0390E	009	ALIQ			SWSE;	HUMBOLDT RIVER FO	PERSHING	BUREAU OF LAND MGMT
21	0310N	0390E	016	ALIQ			NENW;	HUMBOLDT RIVER FO	PERSHING	BUREAU OF LAND MGMT

Open Data Site

New items:

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

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.

Pages

Visit one of our pages to view interactive maps and download data. Hover over any of the photos below and click on text box that appears

Inferred Active Lithium Placer Claims in Nevada

Active mining claims in Nevada

Nevada Claims, NOI, & POO

Nevada Claims, Commodities & Occurrences

Nevada Public Lands Issues

Dissolved Mineral Resource Exploration

Education & Outreach

Visit Our Main Website

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.

Historic Mining Districts Commodities & Occurrences

with Web AppBuilder for ArcGIS

Historic Mining Districts Commodities & Occurrences

with Web AppBuilder for ArcGIS

Filter

Mining Districts

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, fluorspar, fuller's earth, garnet, graphite, gypsum, Hg, kaolin, limestone, lithium, magnesite, marble, mica, 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 zunyite.

Cu

Enter commodity of interest from list & enter

Historic Mining Districts Commodities & Occurrences

with Web AppBuilder for ArcGIS

Filter

Mining Districts

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, fluorspar, fuller's earth, garnet, graphite, gypsum, Hg, kaolin, limestone, lithium, magnesite, marble, mica, 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 zunyite.

bentonite

Questions/Comments/Suggestions

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 <u>PDAC Recap</u>

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

Nevada Explorers

0862130 CORP
3PL OPERATING
AGNICO-EAGLE
ALLEGIANT GOLD
AMERICAN GOLD CAPITAL
AMERICAS SILVER
ANGLOGOLD ASHANTI
ANOVA METALS
ASARCO
AU REKA GOLD
BARRICK GOLD
BASIN AND RANGE RESOURCES
BH MINERALS
BROWNSTONE VENTURES
CENTRESTONE RESOURCES
COEUR ROCHESTER
CORVUS GOLD
COVADA
DAJIN RESOURCES
FRANCO-NEVADA
FREEPORT-MCMORAN
GENESIS GOLD
GOLD STANDARD VENTURES
GOLDEN GRYPHON
GREAT BASIN RESOURCES
GREAT WESTERN MINING
GRP SERVICES
HECLA
HIGH DESERT GOLD
HYCROFT
INTERMONT EXPLORATION
JERRITT CANYON GOLD
KENNECOTT EXPLORATION
KINROSS GOLD
KINSLEY GOLD
LITHIUM HOLDINGS NEVADA
LITHIUM NEVADA
MCEWEN MINING
MERIDIAN MINERALS
MINERAL RIDGE GOLD
MINQUEST
NATIONAL GOLD MINING
NEVADA COPPER
NEVADA MOLY
NEVADA NORTH RESOURCES
NEVADA ROYALTY
NEVADA SELECT ROYALTY
NEVADA SUNRISE
NEWMONT MINING
NULEGACY GOLD
NV GOLD
PARAMOUNT GOLD
PEDIMENT GOLD
PITTSTON NEVADA GOLD
RED ROCK EXPLORATION
RENAISSANCE EXPLORATION
RENNTIGER RESOURCES
ROCKFORD MINING
RYE PATCH GOLD
SIERRA LITHIUM
SIERRA NEVADA GOLD
SILVER ONE RESOURCES
SINGATSE PEAK SERVICES
SLEEPER MINING
SNOWSTORM EXPLORATION
ST VINCENT MINERALS
US GOLD ACQUISITION
VICTORIA GOLD
WALKER LANE MINERALS
WATERTON GLOBAL
WEST KIRKLAND MINING
WESTERN EXPLORATION
...and many more.

Stake your claim and join the list!

NEVADA
Stake your claim.
NEVADA
Partnering to empower your success
NEVADA
Nevada Explorers
Antimony
Uranium
Tungsten
Copper
Gold
Silver
Lead
Zinc
Stake your claim and join the list!

NEVADA
Stake your claim
NEVADA
Stake your claim
GEOLOGICAL SOCIETY OF NEVADA
GSNV.ORG
GSN'S 2020 SYMPOSIUM
VISION FOR DISCOVERY:
Geology and Ore Deposits of the Basin and Range

NEVADA
Stake your claim
TURKISH PAVILION
NEVADA
11% Of U.S. Nonfuel Mineral Production
75% of U.S. Gold Production
EXPLORATION TRENDS AND MINERAL RESOURCES
Antimony
Turquoise
Lithium Brine
Fluorspar
Copper
Uranium
Tungsten
Gypsum
Vanadium
Gold
Barite
Silver
Lead
Zinc
Mercury
Lithium Brine
GEOLOGIC MAP OF NEVADA

NEVADA
Stake your claim
Nevada Mineral Exploration Coalition
The Voice of Nevada Exploration
Isostatic Gravity Anomaly Map
Complete Bouguer Gravity Anomaly Map
NETIC AND GRAVITY MAPS
NEVADA

NEVADA
Mining Association
NMEC
Partnering to empower your success
nbmg
ECONOMIC DEVELOPMENT
The Nevada Advantage
ECONOMIC DEVELOPMENT
NEVADA
NORTHERN ONTARIO SHOWCASE
SALON MINIER DU NORD DE L'ONTARIO
Canada
TDT Engineering Limited
Jacob & Sons Drilling Ltd
TopRops
Top Steel
Rhino Linings
Antimony
Uranium
Copper
Tungsten
Gold
Mining Districts and Commodity Occurences

NMEC
Nevada Mineral Exploration Coalition
The Voice of Nevada Exploration
NEVADA
Mining Association
Partnering to empower your success
nbmo
ECONOMIC DEVELOPMENT
INFORMATION SESSION SCHEDULE
NORTHERN ONTARIO
Canada
Free Water
TIOGA
RESOLUTE
Composite Magnetic Anomaly Map
Isostatic Gravity Anomaly Map
Complete Bouguer Gravity Anomaly Map
MAGNETIC AND GRAVITY MAPS
NEVADA

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

NEVADA
Stake your claim
THE GREAT SEAL OF THE STATE OF NEVADA
EUROPEAN UNION
NEVADA
Mining Association
Partnering to empower your success
NMEC
ECONOMIC DEVELOPMENT
WHAT WE DO AS A PROSPECT GENERATOR
NEVADA
A Rich Diversity of Exploration and
TBT Engineering Limited
Jacob & Sons Drilling Ltd.
Nevada Explorers
Mining Districts and Commodity Occurences
Antimony
Turquoise
Fluorspar
Uranium
Tungsten
Copper
Gold
Barite
Silver
Lead
Stake your claim and join the list!

2019 Web Analytics

NDOM Website

Minerals.nv.gov

NDOM Open-Data Website

2019 Web Analytics (cont.)

NBMG Website

Nbmg.unr.edu

NBMG Open-Data

https://data-nbmg.opendata.arcgis.com/

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

Date (Day of Session)	*Date (Day of Session)*	*Date (Day of Session)*
Feb. 4 (1)	Mar. 16 (41)	Apr. 25 (81)
Feb. 5 (2)	Mar. 17 (42)	Apr. 26 (82)
Feb. 6 (3)	Mar. 18 (43) Legislators' Bill Introductions	Apr. 27 (83)
Feb. 7 (4)	Mar. 19 (44)	Apr. 28 (84)
Feb. 8 (5) ***Subcommittees Start Meeting Jointly***	Mar. 20 (45)	Apr. 29 (85)
Feb. 9 (6)	Mar. 21 (46)	Apr. 30 (86)
Feb. 10 (7)	Mar. 22 (47)	May 1 (87) ***Economic Forum Report Due***
Feb. 11 (8) Legislators' BDR Requests	Mar. 23 (48)	May 2 (88)
Feb. 12 (9)	Mar. 24 (49)	May 3 (89) ***Start Resolving Budget Differences***
Feb. 13 (10)	Mar. 25 (50) Joint Standing Rule No. 14 and Other Remaining Bill Introductions	May 4 (90)
Feb. 14 (11)	Mar. 26 (51)	May 5 (91)
Feb. 15 (12)	Mar. 27 (52)	May 6 (92)
Feb. 16 (13)	Mar. 28 (53)	May 7 (93)
Feb. 17 (14)	Mar. 29 (54)	May 8 (94)
Feb. 18 (15) Joint Standing Rule No. 14 BDR Requests	Mar. 30 (55)	May 9 (95)
Feb. 19 (16)	Mar. 31 (56)	May 10 (96)
Feb. 20 (17)	Apr. 1 (57)	May 11 (97)
Feb. 21 (18)	Apr. 2 (58) ***Start Closing Budgets***	May 12 (98)
Feb. 22 (19)	Apr. 3 (59)	May 13 (99)
Feb. 23 (20)	Apr. 4 (60)	May 14 (100)
Feb. 24 (21)	Apr. 5 (61)	May 15 (101)
Feb. 25 (22) Joint Standing Rule No. 14 BDR Details	Apr. 6 (62)	May 16 (102)
Feb. 26 (23)	Apr. 7 (63)	May 17 (103) Committee Passage (Second House)
Feb. 27 (24)	Apr. 8 (64)	May 18 (104)
Feb. 28 (25)	Apr. 9 (65)	May 19 (105)
Mar. 1 (26)	Apr. 10 (66)	May 20 (106)
Mar. 2 (27)	Apr. 11 (67)	May 21 (107)
Mar. 3 (28)	Apr. 12 (68) Committee Passage (First House)	May 22 (108)
Mar. 4 (29)	Apr. 13 (69)	May 23 (109) ***Finish Budget Differences***
Mar. 5 (30)	Apr. 14 (70)	May 24 (110) Second House Passage
Mar. 6 (31)	Apr. 15 (71)	May 25 (111)
Mar. 7 (32)	Apr. 16 (72)	May 26 (112)
Mar. 8 (33)	Apr. 17 (73)	May 27 (113)
Mar. 9 (34)	Apr. 18 (74)	May 28 (114)
Mar. 10 (35)	Apr. 19 (75)	May 29 (115) ***Budget Bills Introduced Exempt Bills from Committee***
Mar. 11 (36)	Apr. 20 (76)	May 30 (116)
Mar. 12 (37)	Apr. 21 (77)	May 31 (117)
Mar. 13 (38)	Apr. 22 (78)	June 1 (118)
Mar. 14 (39)	Apr. 23 (79) First House Passage	June 2 (119)
Mar. 15 (40)	Apr. 24 (80)	June 3 (120)

Shaded days are Mondays.
Bolded and italicized items are budget related deadlines.

IV. D Division Financials and Recommendations

NDOM Expenditure Analysis for Reserve Guidance

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

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 unforseen revenue decreases.

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
2019	$121,080	$357,900	$1,504,660	$1,628,710	$1,646,750	$1,926,020	$1,930,460	$1,937,910				$2,050,824	**0.9%**		
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**	

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, ST and WP

*Claim payments in June 2016 are skewed due to early payments ahead of $2 fee increase

State Fiscal Year	Total Claim Filings	Federal Fiscal Year	Total Active Claims	% State greater than Fed			
2010	189,781	2010	176,958	7.2%			
2011	196,977	2011	175,000	12.6%			
2012	224,772	2012	195,991	14.7%			
2013	218,407	2013	199,738	9.3%			
2014	195,034	2014	183,267	6.4%			
2015	186,534	2015	177,819	4.9%			
2016	197,043	2016	164,295	19.9%			
2017	179,935	2017	171,854	4.7%			
2018	204,216	2018	177,736	14.9%			
2019	204,164			**10.5%**	**9 yr avg.**		
10 yr avg.	**199,686**						
Note - State claim filings are always in excess of total # active BLM claims since multiple filings may exist for indivudual claims.							
Such as for amended certificates of location and notices of location prior to cert. of location							

KEY NDOM FINANCIALS AND AML EXPENSES
$3,000,000
$2,500,000
$2,000,000
$1,500,000
$1,000,000
$500,000
$0
35.0%
30.0%
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Revenue
Fed./Cnty. Assistance
Expenditures
Reserve
Total AML
AML % of Expend.
SNPLMA
CLARK CO.
CL CO. REVISIT
Arden &
Gold Butte
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
FISCAL YEAR

DIVISION OF MINERALS - FORECAST OF REVENUE AND EXPENDITURES THROUGH FISCAL YEAR 2021

Division of Minerals - Forecast of Revenue and Expenditures Through Fiscal Year 2021 - as of 4/22/2019 (BASE FORECAST)							
Revenue							
GL #	**Description**	**FY18 Actuals**	**FY19 Actuals To Date**	**FY19 Forecast**	**FY20 Forecast**	**FY21 Forecast**	**Remarks**
2511	Balance Forward Previous Year	1,394,682	1,358,743	1,358,743	1,671,240	1,767,167	
3578	BLM Cooperative Agreement	20,268	76,270	191,417	130,494	98,722	FY19 based on planned work, FY20 & 21 assume $100k added each year
3580	USFS Assistance Agreement	6,565	13,409	13,409	8,397	8,397	FS Cost Share Agreement $50,025 ends 2/2022
3654	Oil Production Fee	40,016	23,544	35,000	35,000	35,000	Assumes no change
3717	Oil Permit Fees	6,500	6,800	6,800	6,800	6,800	Assumes no change
3718 & 3727	Mining Claim Fees	2,032,980	1,944,990	2,050,824	1,996,860	1,996,860	Forecast 0.9% increase FY19 vs FY18, FY20-21 assumes 10 yr avg.
3736	Geothermal Fees	157,550	159,000	175,000	175,000	175,000	Assumes no change
3740	Dissolved Mineral Resource Fees	5,000	1,000	5,000	5,000	5,000	Activity decreased, FY19-21 forecast at FY18 actuals
3770	Surface Disturbance Fee (AML)	27,440	15,520	35,360	51,567	51,567	FY19 based on current queue, FY20/21 forecast 3-year avg. (FY16-FY18)
3801	Clark County AML	150,000	129,955	170,000	23,824	0	FY19 - Gold Butte & Valley of Fire AML; FY20 remainder on contract
3805	NAAMLP Conference	0	0	0	0	0	
4011	Copy Machines - Sales to Public	192	40	150	150	150	Copying Charge for Public Records Request
4027	Publication Sales (AML signs)	1,233	979	1,400	1,400	1,400	Assume no change
4203	BOA Travel Card Refund	0	0	0	75	75	
4311	Medallion Royalty Fee	226	107	200	200	200	Assume no change
4326	Treasurer's Interest	25,292	16,801	33,600	33,600	34,272	Assumes no change
4620	Transfer from Recl. Bond Pool	93,327	0	88,269	88,269	88,269	Assumes no change
	REVENUE TOTAL	**$3,961,271**	**$3,747,157**	**$4,165,171**	**$4,227,876**	**$4,268,879**	
Expenditures							
CAT #	**Description**	**FY18 Actuals**	**FY19 Actuals To Date**	**FY19 Forecast**	**FY20 Forecast**	**FY21 Forecast**	**Remarks**
01	Personnel (Sal.,WC, PERS,OT)	1,129,169	860,873	1,205,825	1,280,306	1,284,906	Assumes same as FY18, adj. to 8 interns and one retirement payout (FY19); 11 FTEs for FY20/21, uses Gov Rec budget
02	Out-of-State Travel (Staff, CMR)	15,435	14,346	17,374	17,078	16,438	FY19: PDAC (3), AEMA (3), NAAMLP (2), IOGCC (2); FY20/21 is Gov Rec
03	In-State Travel (Non-AML)	14,654	8,953	16,865	13,724	12,325	Based on FY20/21 Gov Rec
04	Carson Operating Expenses+Equipment	112,369	110,157	125,626	119,043	111,787	Leg. approved # FY19; Gov Rec for FY20/21
08	CMR Travel (In-State)	1,852	3,353	3,660	6,409	6,409	Based on FY20/21 Gov Rec
09	Special Projects (NBMG, PDAC, Outreach)	484,649	114,474	166,947	264,000	134,000	**FY19** - $85k+25kFY18(NBMG deliverables),$5k (DeMull), $25k (PDAC), $15k (NVMA Ed), $4k display updates; **FY20** - $90k (NBMG deliverables), $40k (NBMG Project), $50k (LVNHM), $25k (PDAC), $15k (NVMA Ed) $4k display updates, $40k AML SOSA video; **FY21** - $90k (NBMG deliverables), $25k PDAC, $15k (NVMA Ed), $4k display updates
14	Las Vegas Operating Expenses	33,914	32,722	33,033	34,991	35,687	Based on FY20/21 Gov Rec
17	Fluid Minerals	19,281	5,476	10,000	10,313	10,317	Based on FY20/21 Gov Rec
18	AML Support (per diem, trucks, fuel, AML supplies and travel, SOSA supplies)	164,132	73,552	154,960	155,653	175,078	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 tablets
26	Computer and IT	17,718	7,480	25,467	18,816	19,312	FY19 leg. approved #s, FY20/21 based on Gov Rec
30	Training	2,879	2,085	3,710	4,840	4,840	FY19 leg. approved #s, FY20/21 based on Gov Rec
39	AML Enhancements(contracts, equip.)	507,677	380,707	648,772	494,000	500,000	FY19 includes Gold Butte, FY20 and FY21 assumes $500k/yr contracted work plus materials
40	AML Conference (NAAMLP Sep. 2020)	0	1,568	2,100			
87 & 88 & 89	Cost Allocations (State, Purchasing, AG)	98,798	59,694	79,592	41,536	96,085	FY19 per Leg. Approved (AG Cost=$0), FY20/21 based on Gov Rec
	EXPENDITURE TOTAL	**$2,602,529**	**$1,675,441**	**$2,493,931**	**$2,460,709**	**$2,407,184**	
86	**Reserve - Balance Forward to Next Year**	**$1,358,742**		**$1,671,240**	**$1,767,167**	**$1,861,695**	
		$408,742		**$471,240**	**$567,167**	**$661,695**	**Reserve Amount in excess of $1,200,000 guidance**

Reserve Sensitivity Analysis - using flat 10 yr. avg. for MC Revenue
$2,500,000
$2,000,000
$1,500,000
$1,000,000
$500,000
$0
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)
Reserve Guidance ($1.2M)

Reserve Sensitivity Analysis - 3% YOY MC Revenue Decrease
$2,500,000
$2,000,000
$1,500,000
$1,000,000
$500,000
$0
Agency Reserve Amount
FY 2019
FY 2020
FY 2021
FY 2022
FY 2023
FY 2024
Fiscal Year End
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)