# GEOLOGICAL SOCIETY OF NEVADA **NEWSLETTER**



Geological Society of Nevada, 2175 Raggio Parkway, Reno, NV 89512 (775) 323-3500 - Hours Monday -- Friday, 10 a.m. to 5 p.m.

Website: www.gsnv.org • E-mail: gsn@gsnv.org



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FEB. 6, 2024 TUESDAY

**GSN 2024 MEMBERSHIP DIRECTORY PICK-UP PARTY** 

The 2024 directories will be available on TUES, FEB. 6th at the Great Basin Brewing Company, 5565 S. Virginia St., Reno, NV from 4-7 p.m. SRK CONSULTING will buy you a drink if you can pick-up your directory at the party. IF YOU DO NOT WANT A HARD COPY OF THE DIRECTORY, PLEASE SEND LAURA RUUD AN EMAIL: GSN@GSNV.ORG. Details on pg. 5.

FEB. 14, 2024 WEDNESDAY

**GSN WINNEMUCCA CHAPTER MEETING** 

The GSN Winnemucca Chapter Meeting will be held at the Martin Hotel, 94 W. Railroad St. SPEAKER: Greg Dering, Headwater Gold. TITLE: "Exploring for Blind Epithermal Vein Systems at Spring Peak and Midas North". FOOD & BEER SPONSOR: LEGARZA and IMDEX. For more information, please contact Chapter President, Kris Alvarez at: kalvarez@i80gold.com. Details on pg. 6.

FEB. 15, 2024 **THURSDAY** 

**GSN ELKO CHAPTER MEETING** 

The GSN Elko Chapter Meeting will be held at the Western Folklife Center, 501 Railroad St. Elko. SPEAKER & TOPIC: TO BE ANNOUNCED. FOOD & BEER SPONSOR: TO BE AN-**NOUNCED.** Please contact Chapter President, Luke Schranz. lukeschranz@gmail.com for more information. Details on pg. 7.

FEB. 16, 2024 **FRIDAY** 

**GSN REGULAR MEMBERSHIP MEETING** 

The GSN Membership meeting will be held at the Atlantis Casino Resort, Reno, NV. SPEAKER: Moira Smith will be giving the Ralph J. Roberts Annual Distinguished Lecture at GSN this month. TITLE: "Mineral Exploration: Where we might (or might not) be headed in 2024 and beyond". DRINKS SPON-SOR IS: ALFORD DRILLING! Dinner cost is \$60 per person. Please register for dinner online by clicking the link: **DINNER** RESERVATION or RSVP to Laura Ruud: gsn@gsnv.org. PLEASE Register or RSVP by MONDAY, February 12th! Details on pg. 3.

### GSN RENO MEETING SPONSOR



# FROM THE PRESIDENT Tony Gesualdo, GSN President 2023-2024 FEBRUARY 2024



It always amazes me how there can be blizzard conditions in Eureka and Austin, and a couple hours to the west people are wearing t-shirts in Reno. Central Nevada likes to live up to its Spanish name. No matter the weather, a scenic tour on Highway 50 is an entertaining cross section of Nevada geology. I have noticed different weather can highlight different geologic features, and snow seems to highlight the geomorphology of the ranges. As a plug for our GSN publications: GSN has many Special Publications that record road logs of the 73 field trips across the state (including Highway 50) along with many Symposia field trip guidebooks as well. You can find all of them at the GSN website store, searched for by name, date, project, mining district, or county.

A big thank you to Garrett Frey for speaking at our January meeting. He gave a talk on lithium brine exploration at the Elko meeting and the Reno meeting on back-to-back nights. It was an insightful and helpful introduction to understanding the logistics of drilling and practically sampling certain stratigraphy in basins/playas. With lithium and other critical metals in demand, this educational talk was definitely useful.

For our February meeting we are happy to host the Ralph J. Roberts Annual Distinguished Lecturer, Dr. Moira Smith. Her talk is titled "Mineral Exploration: Where we might (or might not) be headed in 2024 and beyond" and will explore recent challenges in the junior exploration space. The meeting will be at the Atlantis on Friday, February 16<sup>th</sup>. See page 3 for more information.

Cheers,

Tony



Snow in the mountains can highlight the geology (bedding and fault scarps), geomorphology, and slope angles. This picture is (...in California) looking west over Crowley Lake at McGee Creek Canyon with McGee Mountain to the north (right) and Nevahbe Ridge to the south (left).

## GSN wishes to thank our JANUARY MEETING sponsors!





## GSN MEMBERSHIP MEETING—February 16, 2024

# Ralph J. Roberts Annual Distinguished Lecture

GUEST SPEAKER: MOIRA SMITH, Semi-Retired Geologist

TITLE: "Mineral Exploration: Where we might (or might not) be headed in 2024 and beyond"

**SPONSOR:** 



TIME: Drinks @ 6 pm, Dinner @ 6:30 pm, Talk @ 7:30 pm

WHERE: ATLANTIS CASINO RESORT, RENO, NV DINNER COST: \$60 per person

ONLINE RESERVATIONS CAN BE MADE on the GSN WEBSITE by clicking this link: **DINNER RESERVATIONS**.

### PLEASE RSVP/REGISTER NO LATER THAN MONDAY, FEBRUARY 12TH!

#### Abstract:

Recent years have presented both opportunity and heartbreak in the minerals exploration industry. While gold and most other LME-traded metal prices have remained relatively high or stable, most junior exploration companies have struggled with low valuations and lack of access to capital, while even mining companies with healthy operations have seen share prices and market capitalization fall or remain flat. The decoupling of share prices from metals prices has become acute in recent years and unless reversed, this trend may threaten the viability of the minerals industry as we know it.

Minerals explorers have employed a number of strategies to help counter the trend of lower valuations and lack of capital, including: Pivoting from "traditional" metals to "critical" metals supplying the green energy transition; employing fewer people, doing less drilling and field work and realizing greater efficiencies through use of Al and new technology; and gaining social acceptance and preserving access to capital through ESG and DEI programs. Some companies have been successful, while others, facing volatile prices for lesser -known metals and minerals, rising prices, depleted treasuries and lack of new discoveries, have not.

This may be a good time for us all to reflect on the flight of investors and capital from the exploration and mining industry and ask ourselves what we can do to help stem the tide. Even accepting that mineral exploration has always been speculative and high risk, in recent years the junior exploration model in particular has not generated returns comparable to other sectors. A lack of discoveries and a business model that favours short-lived stories and promotional plays that are not sustainable in the long term harms all companies, including those with potentially viable projects. In order to restore confidence in the junior exploration space, we all need to 1) resist the urge to form new companies around marginal assets; 2) work only on projects with a viable path to a producing mine; 3) walk away from zombie companies with no hope of recovery; 4) not waste money in the good times; 5) stay current on new technology that increases efficiency and accuracy/quality of resources; bring metallurgy, engineering, infrastructure and other factors into the equation sooner and 6) understand the industry we work for, not just the rocks.

#### Bio:

Dr. Smith was, until recently, the V.P. of Exploration and Geoscience for Liberty Gold Corp, with development properties in Idaho, Utah and Turkey.

She is now a semi-retired consultant to Liberty Gold, with a focus on the advancement of the Black Pine Carlin-type gold oxide deposit in southeastern Idaho and identifying the next big opportunity for Liberty Gold.

Formerly Chief Geologist, Nevada for Fronteer Gold, Dr. Smith was instrumental in the successful advancement of Long Canyon, now an operating gold mine in Nevada. She developed an understanding of the geology and controls on mineralization at Long Canyon, and built the geological model for ongoing exploration and resource growth. Prior to Fronteer Gold, she managed exploration programs for Teck on several high-profile, advanced-stage gold and coppergold projects (now operating mines) throughout the Americas, including the Pogo gold deposit in Alaska, the Cobre Panama Cu-Mo-Au porphyry deposit in Panama and the El Limon gold deposit in Mexico.

Dr. Smith has a Ph.D. in geology from the University of Arizona (1990) and is a P.Geo. (British Columbia). She has held board or executive positions with numerous industry associations and is a past president of the Society of Economic Geologists. She was a recipient of the Colin Spence award from the Association for Mineral Exploration of B.C. Dr. Smith is also a director of Discovery Metals Corp.



# "Faces of GSN"

# Kris Alvarez, Winnemucca, Nevada



I am told by my mother that I was born to be a geologist; apparently when I was five, I hopped over the backyard fence to investigate the culverts behind our house in Boulder, Colorado. I still have a thunder egg that I found back then in my collection. My earliest memories involve camping and hiking near Estes Park, Colorado, and later, in the area around Park City, Utah.

In high school, I had an amazing earth science teacher that had wonderful labs, but grew up thinking geology was a

hobby, not a career. When I graduated from high school, I thought there were only two real occupations: writer or doctor, so went for the chemistry/physics track.

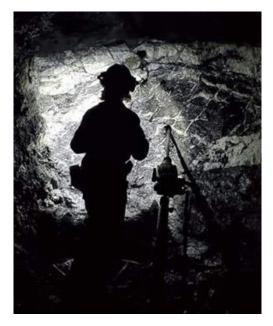
In the meantime, I started rock climbing. My rock-climbing partner/boyfriend had a geology course with a one-week field trip in Utah that had an empty seat. I tagged along and I was hooked. My passion was mapping, and with a nudge from Fred Pashley at Weber College University, I scored a fellowship with the USGS with Roland Tabor mapping the Mt. Baker Quadrangle for the summer.

One summer morphed into two, and my friend Ralph Haugerud introduced me to Western Washington University. I applied and attended with the assistance of an NSF Fellowship (thanks, Ralph and Roland). My thesis was "The Structure and Metamorphism of the Kwoiek Creek Area" in the Coast Range of British Columbia, examining the temporospatial evolution of metamorphism in that area, and spending months above tree line, navigating glaciers. It was, as my friends call it, "an excellent boondoggle".



Months before I graduated with my M.S., I somehow stumbled into a short gig near the Severance deposit near Gerlach with Karl Marlowe of Homestake Exploration. This introduced me to geology in Nevada, and that unique yearly occurrence known as Burning Man. Karl has been an amazing friend and mentor, and we had some great adventures in Pioche, Nevada as my temporary gig morphed into a several year junket.

That's where I was introduced to GSN. I have fond memories of meeting Dave Shaddrick and Mary Stollenwerk on a rowdy bus driving out to Mount Hope from Eureka. (continued on page 5)



Alas, gold prices dropped, and I experienced the bust cycle acutely, heading to Tyson Corner, Virginia to learn databases and database development. I worked for SAIC in the Tri-Cities in Washington working on software tracking radioactive waste, and then as a web developer for Avista. When my friend Kim Craig called to let me know about openings at Turquoise Ridge, I applied immediately. When we went down the hoist, and they blasted on shift (we were in the 4'x6' topcuts) right before the interview, I was sold.

I fell madly in love with underground production work and have worked at several mines underground and in Nevada and Alaska — Getchell, Pogo, Nixon Fork, and the Sundance Mine. I have worked a few surface mines also, and while I learned a great deal, find I keep going back to the "dark side". I am always amazed at how unique each deposit can be, and never tire at seeing more rocks. I am proud to be part of teams that use their creativity, intelligence, and resourcefulness to wrest a living from the insides of mountains.

Currently, I'm a production modeling geologist for i80 Gold at the Granite Creek property, working with a great team. I really enjoy working with the upcoming geologists in my company and look forward to collaborating and discovering new things with them. Geology really is the best.

# GSN 2024 Directory Pick-up Partyl

## The new GSN 2024 Membership Directories are at the Printer!

They will be available to pickup in Reno only on **TUESDAY**, **FEBRUARY 6th** at the **Great Basin Brewing Company**, 5565 S. Virginia St., Reno, NV **from 4-7 p.m.** 

**SRK CONSULTING** has agreed to continue their tradition of sponsoring the Pick-Up party. You can help save GSN postage by picking your directory up and have a drink on **SRK CONSULTING!** 

If you'd like us to hold your copy to pick up at the GSN office at a later date, please email Laura Ruud at the GSN Office: gsn@gsnv.org.

IF YOU <u>DO NOT WANT</u> A HARD COPY DIRECTORY MAILED TO YOU, PLEASE SEND LAURA RUUD AN EMAIL BY FEB 9th!

<u>GSN@GSNV.ORG</u>

## **GSN WINNEMUCCA CHAPTER NEWS**



## Wednesday, February 14, 2024 The Martin, 94 W. Railroad St., Winnemucca

Food and Drinks at 6 pm, Talk at 7 pm

Speaker: Greg Dering
Vice President – Exploration, Headwater Gold

Title: "Title: Exploring for Blind Epithermal Vein Systems at Spring Peak and Midas North"

FOOD & BEER SPONSORS:





#### **ABSTRACT:**

Headwater Gold is currently exploring for high-grade epithermal Au-Ag veins across a large portfolio of projects in the western USA, with an emphasis on Nevada. The Company is focused on large epithermal systems where the paleosurface remains at least partly intact and where potential remains for blind high-grade mineralization at depth. In 2023 the company drilled a total of four properties, two of which adjoin pastproducing high-grade vein deposits in well-known Nevada districts. Headwater's Spring Peak project is located immediately south of the past-producing Aurora mine in Mineral County. Headwater completed 25 exploration holes for a total of 8,475 m in 2023. The Spring Peak program further defined a mineralized corridor which hosts a series of high-grade epithermal veins at depth discovered by Headwater in 2021 by drilling beneath a thick accumulation of unmineralized silica sinter at surface. Previous Headwater drilling intercepted multiple, discrete epithermal veins with textures indicative of boiling, including ginguro banding, silica replacement of lattice-bladed calcite and vein sediments. Headwater's Midas North project adjoins Hecla's pastproducing Midas Mine complex and covers a large hydrothermal alteration cell, extending at least 4 km in strike and 1 km in width with no known previous drilling. Epithermal alteration at Midas North includes widespread zones of high-level chalcedonic to opaline silica flooding, clay alteration, local sinter formation, and fossilized geyser vents. A maiden drill program totaling 4,202 m was completed in October, 2023. Exploration at Spring Peak and Midas North is fully funded by Newmont Corporation pursuant to earn-in agreements announced on August 16, 2022.

#### Bio:

Greg Dering is a geologist with over a decade of experience in mineral and geothermal exploration, including underground, brownfields, and greenfields projects, working on a range of deposit types including Carlin, epithermal, and orthomagmatic systems. Greg joined Headwater in 2018 upon earning a PhD from the Centre for Exploration Targeting at the University of Western Australia. He has previously held roles with Barrick and the Nevada Bureau of Mines and Geology.



## GSN ELKO CHAPTER NEWS



# When: Thursday, February 15, 2024 Presenter & Topic: To Be Announced

TIME: Drinks & Appetizers @ 6 pm, Talk @ 7 pm

Where: The Western Folklife Center, Elko, NV

SPONSOR: To Be Announced

# NOTICE OF AMENDMENT TO THE GSN BYLAWS From Steve Weiss. GSN Secretary

On January 19, 2024, the GSN Executive Committee approved an amendment to the GSN Bylaws to clarify and better define the procedures for proposing a candidate for election to Honorary GSN Member status under Article IV, Section 4 of the GSN Constitution. The amendment will be to add the following as Section 7 to Article II Election Procedures in the GSN Bylaws:

Section 7. In accordance with the GSN Constitution's Article IV, Section 4, nominations for honorary membership can be proposed by any GSN member. The procedure for nominating candidates for election to Honorary Member status shall be as follows: Nominations are to be proposed to the GSN Executive Committee. Each nomination recommended by the Executive Committee for approval by the Board of Directors must be accompanied by a document approved by the Executive Committee and including the following: 1) Name of Nominee; 2) Membership Status; 3) Statement of reasons for qualification as an Honorary Member; 4) Brief biography including a history of GSN involvement and contributions; and 5) Statement that the nominee agrees to be so honored. The Board of Directors shall review and approve/disapprove all nominations for Honorary Members recommended to it by the Executive Committee. Following the BOD approval, the Executive Committee will notify the nominee prior to the next General Meeting. The Board of Directors will accept for consideration the nomination of any member who meets the following three subjective qualifications: a) A long career in the geological sciences or a related field; b) Long-term association and membership in the Geological Society of Nevada; and c) A long-term history of accomplishment in the geological sciences or support of the GSN.

# GSN STUDENT POSTER COMPETITION! FRIDAY, APRIL 19, 2024

## at the Atlantis Casino, Reno

The Geological Society of Nevada announces their annual *Student Poster Competition* will be held on Friday, April 19, 2024, during the GSN Membership Meeting at the Atlantis Hotel and Casino, 3800 South Virginia Street, Reno, NV 89502, USA.

There will be a first-place prize of \$300, second place prize of \$200 and third place prize of \$100. This year the GSN will also offer a prize for the best Undergraduate Poster. We invite all University of Nevada, Western Nevada Community College, Great Basin College, and Truckee Meadows Community College geoscience and hydrology students to participate. Geoscience students at UNLV, Sonoma State, Sacramento State and Chico State are also invited and welcome to participate.

Student membership in GSN is required (join GSN as a Student Member on-line for \$25 at <a href="https://www.gsnv.org/">https://www.gsnv.org/</a>).

Posters will be judged by a panel of GSN volunteers. Poster presenters should arrive at the meeting room in the Atlantis at 5:00pm on April 19th and have their posters up by 5:30pm—judging will start at 6:00pm sharp. GSN will provide student presenters with free dinner starting at 7:00pm. Winners will be announced, and prizes awarded starting at 8:00pm, after dinner.

This will be a casual, sponsored, fun event and a good opportunity for students to showcase their work in progress and interact with the wider, Reno geoscience community.

Students must send their name and poster subject or title no later than March 31, 2024 via email to Steve Weiss (siraweiss@outlook.com) or Tony Gesualdo (anthony.gesualdo@gmail.com).

Thanks, we hope to see you at GSN!

Steve Weiss Secretary, Geological Society of Nevada siraweiss@outlook.com



## **NEWS FROM THE FOUNDATION**

February, 2024 Bob Felder



It's scholarship season!! The GSN Foundation funds several scholarships for the 2024 academic year and now is the time to apply.

- 1. **2024 Summer Field Camp Grant Application:** For Mackay students enrolled in 6 credits of UNR geology Field Camp, Geology 451, for spring/summer 2024, or another accredited field camp. **Application deadline is March 22, 2024.**
- 2. <u>GSN Great Basin Geology Scholarship</u>: \$12,000 available funding for fundamental research on geologic problems in the Great Basin. **Application deadline is May 31, 2024.**
- 3. **GSN D.D. LaPointe Scholarship:** \$12,000 available funding for UNR students with a commitment to the minerals industry. **Application deadline is May 31, 2024.**
- 4. <u>GSN Brian Morris Scholarship</u>: \$5,000 available funding for undergraduate and graduate students engaged in mineral deposit exploration or research. Application deadline is May 31, 2024.

For more information on these scholarships and how to apply, visit the GSN website at <a href="www.gsnv.org">www.gsnv.org</a> and click on GSN Foundation/Scholarship Opportunities or Field Camp Grant Application

#### **OTHER UPCOMING EVENTS**

February 1, 2024 Nevada Petroleum & Geothermal Society meeting, Please join us on Thur., Feb. 1st, at 6:30 pm for the monthly meeting at Tamarack casino 13101 S Virginia St, Reno, NV 89511. We will have 2 speakers for this meeting: Speaker 1: Kelly Blake - Geothermal Rising President. "What's new with Geothermal Rising in 2024?". Speaker 2: Gabby Ramirez - Ormat. "All about Imperial Valley: Integrated conceptual models of sedimentary-hosted geothermal systems." Click here to register: Register Now . Contact Luis Navarro for more info: 832-707-2778 or email energygeologist@gmail.com

<u>February 5, 2024:</u> DREGS Meeting, Colorado School of Mines, Petroleum Hall, Green Center, Golden CO. Social at 5:00, Talk begins at 5:30 p.m. **Speaker: Katharina Pfaff. Title: "Automated Mineralogy – A Valuable Tool Throughout the Mine Life Cycle".** Zoom link <u>here</u>. For more information, please see our <u>Events</u> page.

February 6, 2024: Arizona Geological Society Meeting. Location: Hexagon Mining Division Office, 40 East Congress St, Suite 150, Tucson, AZ. Parking: On the street or parking garage (Old Pueblo Parking). Social Hour with Sandwiches from Beyond Bread (5:30-6:30 PM) Presentation (6:35 PM). Speaker: John Douglas, PhD, Faculty, Paradise Valley Comm. College. Title "New Discovery of Beach Sand, Beachrock, and Tuffa from the Uppermost Portion of the Bidahochi Formation and their Implications for the Development of the Grand Canyon". More information and online registration: New Discovery of Beach Sand, Beachrock, and Tuffa from the Uppermost Portion of the Bidahochi Formation and their Implications for the Development of Grand Canyon

<u>February 12, 2024:</u> <u>SME Northern Nevada Chapter Meeting.</u> Circus Circus Mandalay Room, Reno, NV. 6 p.m. **Speaker: Michael Osborne. Sponsor: IONEER.** Email: <u>NNevSME@gmail.com</u>. email us about the details. <u>REGISTER</u>

## GSN ELKO CHAPTER SCHOLARSHIP NEWS

GSN Elko Scholarship is now open for applications. Please share the flyer with any qualifying students.

Geological Society of Nevada, Elko Chapter:

# SCHOLARSHIP OPPORTUNITY

WHO: This opportunity is for any graduate or undergraduate student who intends to pursue or is currently involved with a research topic related to Nevada geology or regionally related to Nevada geology.



WHAT: The successful applicant will be awarded a tuition scholarship in an amount based on tuition and/or research needs.

WHEN: We will be awarding this tuition scholarship for the 2024-25 academic year with a submission deadline of **April 30, 2024**.

WHERE: Any undergraduate or graduate student with a project that involves Nevadarelated geology is eligible to apply for this tuition assistance. Preference will be given to economic geology associated projects within Northern Nevada, but this is not necessary.

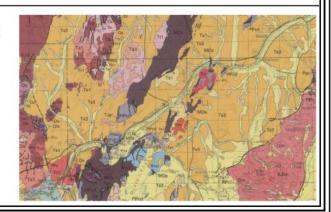
WHY: The successful applicant upon completion of their research will be invited to give back to GSN Elko in the form of a technical presentation at one of our regularly scheduled meetings to present your research.

HOW: Please submit an application to GSN Elko Executive Committee via mail, email, or online and you will be contacted as opportunities are formalized. You can find application details at: <a href="https://www.gsnv.org/chapters/elko/">https://www.gsnv.org/chapters/elko/</a>.

For more details or to send in applications: GSN Elko Exec. Comm.
P.O. Box 2591

Elko, NV 89803-2591

Or email – Luke Schranz, Elko President lukeschranz@gmail.com



# Mining Activity Update

### DECEMBER 2023, Mike Brady

LMBrady@aol.com

#### **NEVADA**

Amani Gold Ltd. announced that it offered to acquire Authium Ltd. for \$600,000 cash and 253,125,000 shares for a total value of \$50,625,000. Authium owns the Clayton Ridge Lithium Property. *Press Release:* December 2

Barrick Gold Corp.(61.5%) announced that the Bureau of Land Management approved its plan of operations for the Goldrush Project. Initial production is now scheduled for 2024 with a scaled-up production estimate of 400,000 ounces/year of gold. (reserve = 33,200,000 tonnes @ 7.29 gpt Au proven+probable) *Press Release:* December 11

Ridgeline Minerals Corp. announced that recent drill results at the Selena Project include 131.0 -135.6 meters @ 55.2 gpt Ag, 1.22% Pb, 7.24% Zn, 0.20 gpt Au (SE23-47); 88.4-89.3 meters @ 720.3 gpt Ag, 12.04% Pb, 0.07% Zn, 0.43 gpt Au (SE23-48); 307.6-309.1 meters @ 51.6 gpt Ag, 1.94% Pb, 1.90% Zn, 0.36 gpt Au (SE23-49) and 254.8-259.7 meters @ 229.7 gpt Ag, 6.47% Pb, 3.54% Zn, 0.15 gpt Au (SE23-50). *Press Release:* December 6

Fortitude Gold Corp. announced that recent drill results at the East Camp Douglas Project include 25.91-35.05 meters @ 1.61 gpt Au (ECDRC-38); 18.29-32.01 meters @ 0.38 gpt Au (ECDRC-40); 24.38-30.48 meters @ 0.34 gpt Au (ECDRC-43) and 10.67-16.77 meters @ 1.04 gpt Au (ECDRC-51). *Press Release:* December 7

Nevada King Gold Corp. announced that recent drill results at the Atlanta Project include 33.5-71.6 meters @ 1.14 gpt Au, 43.4 gpt Ag (AT23NS-120); 12.2-86.9 meters @ 2.37 gpt Au, 43.9 gpt Ag (AT23NS-124) and 109.8-143.3 meters @ 1.14 gpt Au, 31.4 gpt Ag (AT23NS-129). (resource = 11,000,000 tonnes @ 1.3 gpt Au measured+indicated) *Press Release:* November 29

Falcon Copper Corp. announced that it acquired an option to earn a 60% interest in the

Cabin/Schell Creek Property from Kennecott Exploration Co. for \$2,500,000 in exploration expenditures. *Press Release:* November 29

I-80 Gold Corp. announced that recent drill results at the Ruby Hill/Blackjack Project include 596.8-616.9 meters @ 0.6 gpt Au, 51.1 gpt Ag, 0.6% Pb, 8.3% Zn (iRH23-42); 530.8-647.1 meters @ 0.3 gpt Au, 37.0 gpt Ag, 0.6% Pb, 10.1% Zn (iRH23-42A) and 587.0-603.4 meters @ 0.5 gpt Au, 12.4 gpt Ag, 0.1% Pb, 16.1% Zn (iRH23-43B). *Press Release:* December 4

I-80 Gold Corp. announced that recent drill results at the Granite Creek/South Pacific Project include 59.1-66.8 meters @ 37.7 gpt Au (GCPU23-20); 155.8-177.7 meters @ 31.1 gpt Au (GCPU23-22); 75.9-79.9 meters @ 27.3 gpt Au (GCPU23-25) and 89.6-106.1 meters @ 28.7 gpt Au (GCPU23-30). (resource @ Granite Creek = 562,000 tonnes @ 10.49 gpt Au measured+indicated) *Press Release:* December 14

Eminent Gold Corp. announced that it terminated its interest in the Spanish Moon Property of Nevada Select Royalty Inc. *Press Release:* December 18

Summa Silver Corp. announced that recent drill results at the Hughes Project include 323.2-326.2 meters @ 3.04 gpt Au, 147 gpt Ag (SUM23-60). *Press Release:* December 7

Headwater Gold Inc. announced that recent drill results at the Spring Peak Project include 153.92-156.97 meters @ 0.89 gpt Au (SP23-20); 248.41-250.85 meters @ 3.80 gpt Au (SP23-21); 170.69-179.86 meters @ 0.54 gpt Au (SP23-23) and 184.71-192.18 meters @ 1.67 gpt Au (SP23-24). *Press Release:* December 6

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## **ALVARADO MINE FOR SALE**

The Alvarado Mine located near Congress, AZ, was developed to the 1300' level and produced 24,780 oz of gold between 1935 and 1942. Two other mines on geologic strike have been worked to 2200' and 4,000'. Levels 1-8 at the Alvarado have probable reserves of 41,000 T @ 0.207 OPT, measured resource of 30,000 T at 0.242 OPT, and indicated resource of 63,700 T @ 0.264 OPT. Levels 9-13 have an inferred resource is 100,000 T @ 0.35 OPT. Surface minable reserves include dumps (22,000 T @ 0.1 OPT) and tailings (139,000 T @ 0.044 OPT).

For further details including feasibility studies, sampling results and UG maps contact:
KIM ROBERTS (775) 741-1692 or

kim.roberts1949@yahoo.com.

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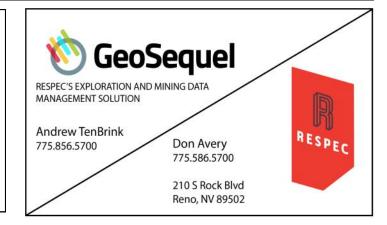
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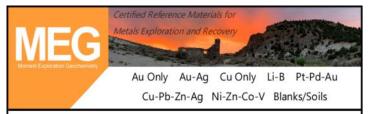
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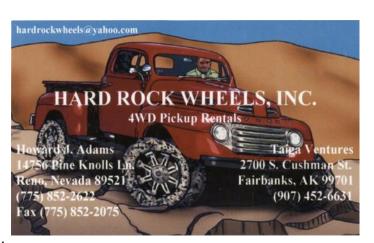
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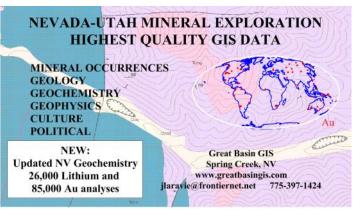
Mining history on this property dates to the early 60s. Mining was halted in the 80s because of price drops and claim loss. Present claims have been in effect since the 80s with no mining.

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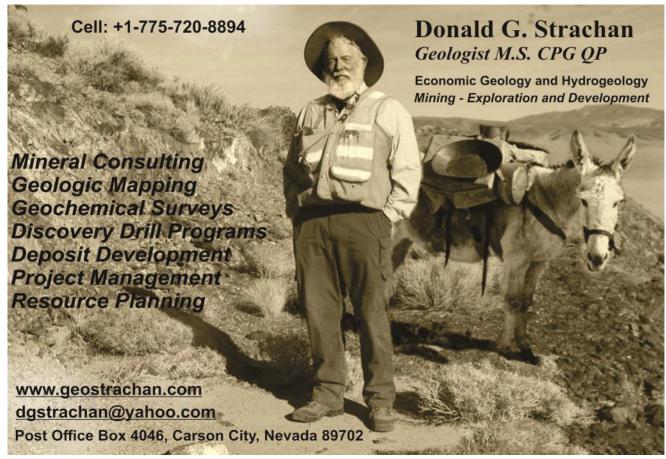
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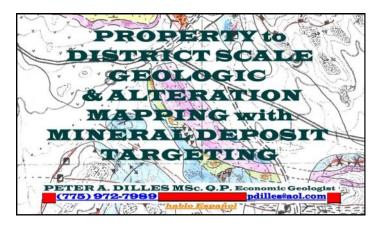
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