



GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Room 107, Reno, NV 89512
(775) 323-3500 - Hours Monday -- Friday 8-3
Website: www.gsnv.org • E-mail: gsn@gsnv.org



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CALENDAR OF GSN EVENTS

**Oct. 13
Wednesday**

WINNEMUCCA CHAPTER *(Every 2nd Wednesday of the month)*

The monthly meeting will be held at the Martin Hotel, 94 West Railroad Street. Drinks and appetizers at 6:30 PM, speaker at 7:00 PM. Sponsors for the evening will be Boart Longyear. Speaker for the evening will be John Marma, Newmont Mining. His talk is titled "Importance of Cymoid Loops and Implications for Exploration and Development of Epithermal Gold-Silver Veins in the Gold Circle District, Midas, Nevada". (see abstract on page 8). For more information contact Rebecca Morris at (775) 304-2661.

**Oct. 15
Friday**

GSN MEMBERSHIP MEETING *(Every 3rd Friday of the month)*

The monthly meeting will be held at the Reno Elks Lodge, 597 Kumle Lane, Reno, NV. Drinks at 6:00 PM, dinner at 7:00 PM, and talk at 8:00 PM. Sponsor for the evening will be Ruen Drilling Incorporated. Speaker for the evening will be Richard Bedell, AuEx Ventures, Inc. His talk is titled "The Pequop Mining District, Elko County, Nevada: An Evolving New Gold District". (see abstract on page 3). Dinner reservations must be made by 1:00 PM Wednesday, October 13. Contact Kathy Sestanovich at (775) 323-3500 or e-mail gsn@gsnv.org for reservations.

**Oct. 21
Thursday**

ELKO CHAPTER *(Every 3rd Thursday of the month)*

The monthly meeting will be held at the Western Folk Life Center, 501 Railroad Street. Refreshments at 6:00 PM, talk at 7:00 PM. Speaker and sponsor for the evening to be announced. For more information contact Joe Becker at (775) 778-4071.

**Oct. 28
Thursday**

SOUTHERN NEVADA CHAPTER *(Every Last Thursday of the month)*

The monthly meeting will be held at the Lilly Fong Geoscience building at UNLV, Room 105. Social hour begins at 6:45 pm with the speaker starting at roughly 7:15 pm. For more information contact Josh Bonde at 702-468-2500.

*Don't be left out of the 2011 Membership Directory - Pay your dues now so you don't forget!
We will email you a Membership Application and it can also be found on the GSN website.*

FROM THE PRESIDENT

Peter Vikre, GSN President 2010-2011

Percentages of Us

Based on a careful read of "Membership Directory 2010", one of those volumes you just can't put down, Geological Society of Nevada members are indeed unified by profession. Nearly all of the ~950 members listed bow to mineral resources. Most are, or appear to be, affiliated with the mining industry or mining service organizations, and most reside in NV or have provided NV addresses. Self-employment comprises the largest distinguishable group; 53% of rank-and-file members are listed as consulting geologist, consultant, geologist, geophysicist, land-person, GISperson, graphicsperson, or other entrepreneurial specialist. About 30% of members are employed by mining companies, exploration companies, and mining services companies (~10% each). Smaller member contingents are government (federal and state, including academia) at 6.5%, students at 5.3%, and retirees and Honorary Members (2% combined).

(Continued on page 2)

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(Continued from page 1)

Two point six percent of Directorites have listed no professional affiliation. The legal and realty professions are represented (over or under) twice each.

External to our stately borders GSN has captured very few government and university members, yet our semi-decadal Symposia, and their printed record, have attracted numerous academics from distal states and shores. One growth sector. Another apparently is mine geologists, also strong contributors to and attendees of Symposia, but not easily recognized in Directory pages. Also un- to under-represented are geoscientists who do not deal daily with mineral resources. They exist, probably tens to >100 of them in NNW alone. So, if you also are unable to put the Directory down, please consult it when you see a suspect, possibly unlisted geoface and apply your best GSN-sell.

Field Trip to Eastern NV October 1-3

A great field trip to Cortez Hills, Bald Mountain, the Eureka district, and the Star has been put together for the weekend of October 1-3; it will be legendary by the time this NL is distributed. The guidebook is packed with geopublications on these areas (sans Star) and contains several new contributions. GSN field trips are scientific, social, culinary, and anti-dehydration experiences rivaled by none.

October monthly dinner meeting presentation

The October dinner meeting presentation will be given by Richard Bedell of AuEx. The topic is recent discoveries of Carlin-type Au deposits, Long Canyon and West Pequop, in the Pequop Mountains, Elko Co., NV. These non-trend/new trend(?) deposits have both captured the interest of all explorationists and warped linear thinking.

**GSN Newsletter
Monthly Advertising Rates**

Business Card Size (3 1/2 x 2")	\$50.00
Quarter page (3 1/2 x 4 3/4")	150.00
Half Page (4 3/4 x 7 1/2")	300.00
Classified ads (per line) (up to business card size)	10.00

For an advertising form, call the GSN office at 775-323-3500, fax 323-3599, email gsn@gsnv.org, or download the form from the GSN website:
<http://www.gsnv.org/membership.html>

Digital or text ads must be received by the 20th of the month to appear in the following month's newsletter.

There will be a 10% discount on all orders for 10-months or more.

Tax Deduction

It is that time of the year to consider gift giving. If you have any geologic books that you are considering giving away please contact Clancy Wendt. GSN and the Tucson Gem and Mineral Society have given over 55,000 books to Universities in Mexico. This is a tax deductible item and anything you have will be greatly appreciated as Mexican Universities have very little in the way of reference books. 775-852-2513

Each month the GSN Newsletter features a member in "Faces of GSN". Please consider nominating a colleague for this highlight by submitting a biographic write-up and an appropriate photograph of the nominee to Kathy at the GSN Office gsn@gsnv.org.



**Thanks to Boart Longyear Drilling Services
For Hosting the September Meeting**

GSN October 15, 2010 Membership Meeting

Reservations Are Required - Please Cancel if You Are Unable to Attend

The reason we need reservations and also cancellations is because our caterer needs to know how many people to cook for.

GSN CAN NO LONGER GUARANTEE DINNER SEATING WITHOUT ADVANCE RESERVATIONS.
Please call 775-323-3500, Fax 775-323-3599 or e-mail gsn@gsnv.org by 1:00 PM, Wednesday, October 13, 2010.
Social Hour: 6:00 PM – Dinner: 7:00 PM – Speaker: 8:00 PM
\$17.00 per person

Location: Elks Lodge, 597 Kumle Lane, Reno, NV
Directions: across (W) from the Reno-Sparks Convention Center
(S. Virginia Street, behind the Les Schwab Tire Center)

**Prepaid dinner reservations will only be accepted for the current monthly meeting.
Cancellations must be received two days before the meeting in order for your money to be refunded.**
Download the prepayment form from the GSN website: <http://www.gsnv.org/membership.html>

The Pequop Mining District, Elko County, Nevada: An Evolving New Gold District

Richard Bedell, Eric Struhsacker, Lindsay Craig, Marilyn Miller,
Mark Coolbaugh, Jessica Smith, and Ronald Parratt

Speaker: Richard Bedell
AuEx Ventures, Inc.



Abstract

Several gold deposits discovered since 1990 in the central Pequop Mountains of Elko County, northeastern Nevada, comprise the new Pequop mining district. The most advanced projects, including Long Canyon and West Pequop, have a combined resource exceeding 42.5 tonnes Au and growing. Favorable open-pit mining economics are generated by high-grade, oxidized gold deposits above the water table.

The deposits exhibit characteristics typical of Carlin-type gold deposits, including limestone and calcareous siliciclastic host rocks, collapse breccias, and <5 micron gold grains in rims of oxidized arsenian pyrite grains. Host rocks are decalcified, argillized, and locally silicified (jasperoid). Some gold mineralization, particularly at Long Canyon, occurs along the margins of competent blocks of Cambrian Notch Peak dolomite in contact with limestone.

The Pequop mining district lies outside the well-known Nevada gold trends. In contrast to many Carlin-type deposits, mineralization is hosted by the Cambrian and Ordovician miogeoclinal sequence of interbedded platform carbonate and siliciclastic rocks. The degree of penetrative deformation and metamorphism is unusually high due to extensive crustal thickening and deep burial during the Jurassic Elko and Cretaceous Sevier orogenies.

Zircon U-Pb dates show that the Pequop Mountains were the site of Jurassic (162-154 Ma), Cretaceous (85-70 Ma), and Eocene (41-39 Ma) intrusive activity, which is observed in other Carlin-type districts. Jurassic mafic to felsic dikes and sills, particularly lamprophyres, form passive hosts to mineralization. Eocene felsic dikes on the western side of the Pequop Mountains are unaltered and unmineralized, they lie within a NE-trending corridor of gold anomalies, older dikes, and positive aeromagnetic anomalies, which is permissive evidence for an Eocene age of mineralization.

Geophysical anomalies suggest the Pequop district may lie above a prominent break in the continental crust. It is near a W- to NW-trending conductor, defined by magnetotelluric surveys that may mark the transition between rocks of the Archean Wyoming Province and the Paleoproterozoic Mojave Province. Aeromagnetic data suggest the district is astride a northeastern alignment of intrusions that extends from the Bald Mountain district, located to the southwest, and can be traced northeast to the Tecoma district. Low-frequency filtering of gravity data reveals a distinct NW-trending boundary that coincides with a similarly oriented trend of barite vein occurrences. These data, along with the ages of intrusions, suggest the district may be underlain by a deep magmatic plumbing system.

FACES OF GSN

D.D. LaPointe - Reno, Nevada

Nevada Bureau of Mines & Geology - University of Nevada

It's been a circuitous route for Daphne Denise LaPointe (called D.D. since birth—not sure why – ask her Mom!) from the tiny village of Summit, Rhode Island, where she was born, to Reno. She would probably still be back there with her 27 aunts & uncles and 50+ first cousins in a family of “Swamp Yankees” traceable back 12 generations or more in New England genealogy....except for the enthusiasm of an earth science teacher with the unlikely name of DaVinci Leonardo DeLuca. He made the effort to take her class on weekend geology field trips in 8th grade, and as a result she was hooked on rocks for life. The same teacher later mentored her and a few other promising high school science students, taking them on college preview trips that encouraged several of them to apply to colleges they would never have attended otherwise. She went to Smith College and Williams College in Massachusetts and graduated from Smith in 1973. At Smith she participated in a grant-supported summer field program to the Colorado Front Range and Sunlight Basin in Wyoming in 1972, where she was surprised to find for the first time that there were rocks you didn't have to scrape moss & lichen off to see fresh surfaces. It was her first excursion west of the Hudson River and she didn't want to go back to those sporadic exposures of moss-covered rocks.

Having seen “real rocks,” she applied to grad schools in the West and ended up first at UCLA and later at the University of Montana in Missoula, (where she shared a grad student office with GSN member Debra Struhsacker!) and where she completed her masters degree mapping a small volcanic center in the Absarokas. In between those two schools she worked for Exxon Minerals Exploration in 1974 - as a field tech for current GSN member, Rick Schwarz, doing base & precious metals exploration in Idaho & western Montana. She had the misfortune on her last day of work on that job to be run off the road by a drunk driver near Dillon and rolled her pickup truck along with its load of soil samples. She was not badly injured, and bad luck turned into good when another Exxon employee and his summer student working a few hours away came by with a replacement truck for her to use to retrieve her samples and haul them back to Missoula. His name was Tom Irwin (another current GSN member!).

Tom and D.D. were married in 1975 in Rhode Island (with all those relatives in attendance!) She continued working in minerals exploration for Utah International out of Missoula mainly in western Montana while Tom continued working for Exxon. Tom was transferred to Tucson, Arizona in 1976 and so they moved south. In Tucson, D.D. took a break from field work and practiced real estate until their first daughter, Tamison, was born in 1978. Exxon then transferred Tom to head up a new exploration office in Reno and they moved here in 1979.

After a couple years on the “Mommy Track,” D.D. missed geology and applied for and found work at NBMG doing mining district research for Joe Tingley on the USGS mineral resource evaluation project in 1980. She and Tom had a baby son Thomas in 1982. D.D. says that one of her warmest GSN memories is all the help and support GSN members gave her and Tom when their son was being treated in San Francisco for cancer in 1989, when countless GSN members drove over “the hill” and visited and donated blood needed in his treatment. She will never forget that and can never repay all the GSN members for their rock-solid support during those tough times. In 1991, the family welcomed the arrival of Teila; many GSN members have shared in the family's joys following her exploits as she has grown up, now studying engineering at UNR.

D.D. continues to work as a faculty member of the Nevada Bureau of Mines and Geology where over the years she has authored, co-authored, or contributed to numerous Bureau publications, including “Mineral Resources of Elko County” (1991); Radon in Nevada (1994), “Rocks, gemstones, minerals, and fossils in Nevada” (2001); “the Nevada mineral catalog” (2004); many open file reports, and all of the Earth Science Week road logs for the past eleven years. Most recently, D.D. has been focusing her efforts on the education of Nevada science teachers (in conjunction with the UNR College of Education and the Nevada Mining Association) and editing work on both Bureau publications and for the Nevada Dept. of Emergency Management on hazard mitigation plans. She continues to co-lead the yearly Earth Science Week field trips, which many GSN members participate in and enjoy.

D.D. has been a GSN member for more than 30 years, an occasional officer, and helped to establish the GSN Foundation. She is currently a board member of the Foundation and continues to run the yearly “rock raffle” in support of its fundraising mission. She has been scholarship chair of the Reno WAAIME section for many years, which complements her work in coordinating scholarships for Mackay students at UNR. She enjoys quilting, rockhounding, gardening, hunting big game with Tom, and spending time with their grandchildren, Bradley and Hannah.



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Mackay Rockhounds Club - Mineral Sale



Time: 6:00 pm

When: Friday, October 15, 2010

Where: Geological Society of Nevada Meeting at the Elk's Lodge

All proceeds go to the Mackay Rockhounds Club

News from the Geological Society of Nevada Foundation

At the spring GSN Foundation Board of Directors meeting a FY2010-2011 operating budget of \$35,500 was approved to support our programs and to build the Endowment. Our principal activities will be the K-12 Field Trip grants, UNR scholarships, NBMG geology mapping support, and a contribution to the DeLaMar Library. This year we are planning to add a grant program to assist UNR geology students with their summer geology field course expenses. The Foundation supplied grants for field course support in FY 2008-2009 and it was such a success that our intent is to make this a permanent program. Only after the programs are funded will any excess contributions be transferred to the Endowment, which is the base to keep the Foundation on a solid financial footing.

During FY2009-2010 the Foundation supplied 39 grants to K-12 teachers in eight Nevada communities for transportation on geology related field trips. A total of 2,022 students participated in this program. Although the K-12 Field Trip Program is a strong part of our outreach we are always looking for opportunities to grow the program. If you know of teachers who are not acquainted with this program please direct them to our website for details and an application form.

Also last year the Foundation supported the completion of three geological maps through the NBMG, in areas of interest to the membership. We also continued support of the UNR Geology Department scholarship program.

Fund raising is an important activity of the Foundation so that we can continue our several programs. As we start the new GSN year please consider adding a contribution to your membership renewal. If you have an interest in a specific program the contribution can be so designated and it will be used as directed. This summer's GSN Golf Tournament was a good start to year. We raised \$1,645 through Mulligan and raffle ticket sales. The Foundation is greatly appreciative of the support from Inspectorate America Corporation and the GSN golfers for the continual support of the Foundation and its programs. Finally, a very generous contribution was just received from Bill Wilson of Grand Junction, CO. Thank you Bill.

Roger C. Steininger

Chair, GSN Foundation

Upcoming Event - SME Meeting

Monday, October 11th, 2010
Social Hour 6 PM, Dinner 6:45 PM and Technical Session, at 7:30 PM
Circus - Circus Hotel and Resort, Mandalay Room in Convention Center
(Casino Entrance at the corner of 5th Street and North Sierra Street.)
500 N Sierra Street, Reno, NV

Meeting Sponsored by: N.A. Degerstrom, Inc

Members \$22/person and Non-Members \$25/person payable at the door
RSVP Required by noon, THURSDAY, October 7th 2010
Call Neville Rhoden at (775) 746-4856
or email: neville.rhoden@gmail.com

Renewable Energy and Mining – Yucca Energy Park
John Dunn - [NV4CFE \(Nevadans 4 Carbon-Free Energy\)](#)

Abstract - Remote Energy Solutions of Reno last week entered into a partnership with Warm Springs Renewable Energy Corp. of New Mexico to push forward Warm Springs' plans for a solar power plant in south central New Mexico.

RES, which specializes in renewable energy development and management, will guide the Warm Springs project through feasibility studies and into construction, which is expected to begin in 2011. RES will act as management partner and minority owner on the project, coordinating permitting, transmission and interconnection studies, financing and other details of advancing the solar facility. [more...](#)

Directions to Circus-Circus:

From West: Take I-80 East to Exit 13 (Downtown/Virginia Street) turn right on North Sierra Street

From East: Take I-80 West to Exit 13 (Downtown/Virginia Street), turn left on North Sierra Street, third intersection on the off ramp.

Best parking (FREE) is in the Circus-Circus Garage on west side of North Sierra Street past 6th Street
The Northern Nevada Section of SME meets monthly from September until May.

GSN Winnemucca Chapter Meeting October 21, 2010

“Importance of Cymoid Loops and Implications for Exploration and Development of Epithermal Gold-Silver Veins in the Gold Circle District, Midas, Nevada”

J. C. Marma* and R.B. Vance
Newmont Mining Corporation, Elko, Nevada 89801

* Speaker's email: John.Marma@Newmont.com

ABSTRACT

The Gold Circle (Midas) district, Elko County, Nevada, contains numerous well-developed examples of cymoid loops, which significantly affected the formation of veins, and influence geotechnical aspects of mine development and economic exploitation of ore.

The first use of the term cymoid loop to describe veins was suggested by Dr. Kirk Bryan as an analogy to the architectural form used to describe certain shapes of molding (McKinstry, 1948). In general, a cymoid loop can be described as a vein or structure that branches and swerves from its course only to reunite and return to its general course, whereby enclosing a doubly-convex lens of wall rock (McKinstry, 1948). Ultimately, by taking either branch of the structure one will return to the same general trend as one started. Cymoid loops have been described in many well known gold and silver vein districts, such as Grass Valley, Calif., (Johnston, 1940), Pachuca, Mexico (Thornburg, 1945) and the Hauraki goldfield of New Zealand (Begbie, Spörl and Mauk, 2007).

In general there are three manifestations of cymoid loops at Midas: 1) vein-vein cymoid loops, where both branches of the cymoid contain vein, 2) vein-structure cymoid loops, where one branch of the cymoid contains vein material and the other does not, and 3) structure-structure cymoid loops, where both branches lack vein. These generalizations should be considered end-members as cymoids can occur as a varying collage of all three. All three types formed at Midas during an extensional structural regime with a left-lateral, oblique strike-slip component.

In the production setting, mine geologists can make better development decisions by recognizing and understanding cymoid loops. Cymoid loops can impact ore/waste calls, sill development directions, stope design, and mining dilution as well as offer economically significant opportunities in the ribs (such as missed cymoid branches). In addition, understanding cymoids greatly improves the safety of mining. By knowing the location of cymoid loops and the tendency of rock to fail to cymoid branches, cable bolting designs can be implemented efficiently and effectively to mitigate failures in sills and stopes.

In district exploration, geologists can increase their margins of success. Recognizing and understanding cymoid loops can be useful in drill hole targeting, interpretation of drill holes, designing offset holes, and structural interpretation at the local and district scales. Cymoid loops at Midas are fractal in nature, occurring at all scales, from inches to thousands of feet along strike. They are also similar in appearance whether viewed in plan or in cross-section.

As exploration continues in epithermal vein districts, application of the cymoid loop model can improve mine development, mine safety, and exploration success.

WINNEMUCCA CHAPTER OCTOBER MEETING SPONSOR



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Thanks to Redcor Drilling, Inc.
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Winnemucca Chapter's
September Meeting



Activity Update

Mike Brady, August 2010

Nevada

www.activityupdate.com

Scorpio Gold Corp.(70%) announced that based on recent drill results at the Mineral Ridge Project, resources aggregate 4,653,000 tons @ 0.043 opt Au indicated and 3,784,000 tons @ 0.033 opt Au inferred. (was 2,658,000 tons @ 0.079 opt Au inferred) *N.M.:* August 2

Claremont Nevada Mines LLC. announced that it is suing the state alleging that the new mining claim fees amount to an unconstitutional tax hike. *Reno G-J:* August 20

Allied Nevada Gold Corp. announced that based on recent drill results at the Hycroft Project, oxide resources aggregate 170,000,000 tons @ 0.013 opt Au, 0.30 opt Ag measured; 226,000,000 tons @ 0.012 opt Au, 0.34 opt Ag indicated and 183,000,000 tons @ 0.011 opt Au, 0.55 opt Ag inferred. Sulfide resources aggregate 80,000,000 tons @ 0.018 opt Au, 0.72 opt Ag measured; 97,000,000 tons @ 0.018 opt Au, 0.73 opt Ag indicated and 153,000,000 tons @ 0.017 opt Au, 1.07 opt Ag inferred. (was 510,918,000 tons @ 0.014 opt Au measured+indicated) *Press Release:* August 10

Fronteer Gold Corp.(51%) announced that recent drill results at the Long Canyon Project include 159.4-203.6 meters @ 0.296 opt Au (LC529C); 112.2-132.4 meters @ 0.248 opt Au (LC537C); 282.9-295.4 meters @ 0.183 opt Au (LC539C) and 27.4-38.1 meters @ 0.084 opt Au (LC558). (resource = 13,464,000 tons @ 0.050 opt Au measured+indicated) *Press Release:* August 18

Fronteer Gold Corp. announced that recent drill results at the Northumberland Project include 37.49 meters @ 0.207 opt Au, 0.72 opt Ag (FNU035) and 13.11 meters @ 0.310 opt Au, 0.36 opt Ag (FNU035). (resource = 40,169,000 tons @ 0.056 opt Au, 0.23 opt Ag indicated) *Press Release:* August 3

Rye Patch Gold Corp. announced that recent drill results at the Wilco Project include 85.3-91.4 meters @ 0.019 opt Au (WR-101); 93.0-115.8 meters @ 0.010 opt Au (WR-102); 80.8-93.0 meters @ 0.015 opt Au (WR-103) and 71.6-80.8 meters @ 0.012 opt Au (WR-104). (resource = 8,278,000 tons @ 0.020 opt Au measured) *Press Release:* August 17

Nevada Copper Corp. announced that recent drill results at the Pumpkin Hollow/North Project include 329.5-334.0 meters @ 0.97% Cu, 0.003 opt Au (NC10-41); 344.4-356.6 meters @ 0.36% Cu, 0.001 opt Au (NC10-46); 172.2-183.8 meters @ 1.00% Cu, 0.001 opt Au (NC10-48) and 222.5-251.5 meters @ 0.56% Cu, 0.002 opt Au (NC10-50). (resource = 138,000,000 tons @ 0.71% Cu inferred) *Press Release:* August 4

Ramelius Resources Inc. announced that it acquired an option to earn a 70% interest in the Angel Wing Property from Miranda Gold Corp. for \$10,000,000 in exploration expenditures over 10 years. *Press Release:* August 5

Queensgate Resources Inc. announced that it terminated its interest in the Coal Canyon, BPV and CONO properties of Miranda Gold Corp. *Press Release:* August 4

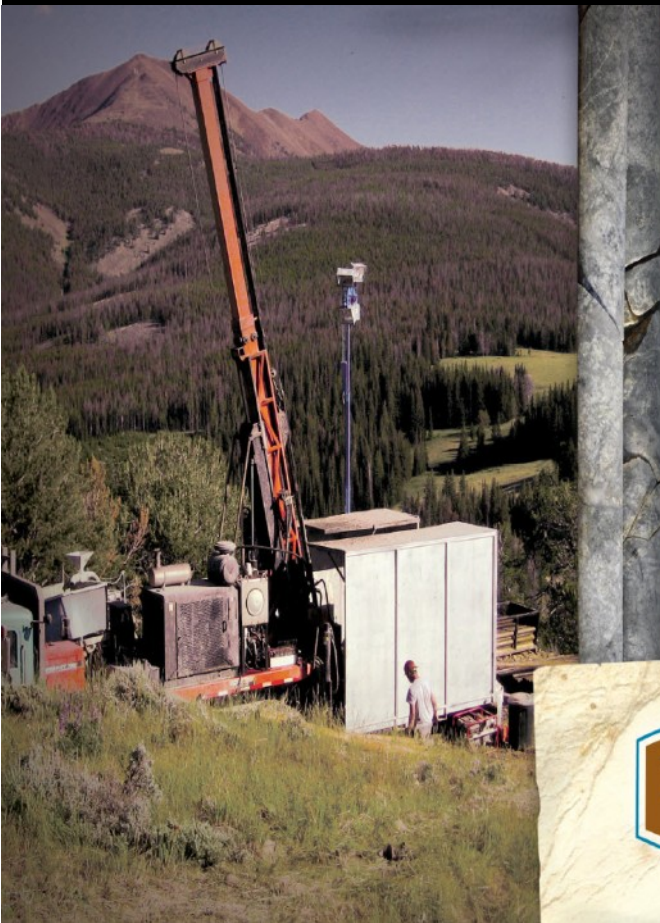
Lincoln Mining Corp. announced that it acquired an option to earn a 100% interest in the Cavanaugh Property (near its Pine Grove Project) from private interests for \$650,000 and 400,000 shares over 3 years. *Press Release:* August 24

Harvest Gold Corp. announced that recent drill results at the Rosebud Project include 77.7-85.3 meters @ 0.022 opt Au (HGR-1); 315.5-350.5 meters @ 0.024 opt Au (HGR-3); 79.2-93.0 meters @ 0.008 opt Au (HGR-4) and 97.5-211.8 meters @ 0.014 opt Au (HGR-5). *Press Release:* August 5

Golden Phoenix Minerals Inc. announced that it acquired an option to earn an 80% interest in the Vanderbilt Property from private interests for undisclosed terms. *Press Release:* August 25

Golden Dory Resources Corp. announced that it acquired an option to earn a 70% interest in the Reef Property from AuEx Ventures Inc. for \$10,000 and \$2,850,000 in exploration expenditures over 7 years. *Press Release:* August 17





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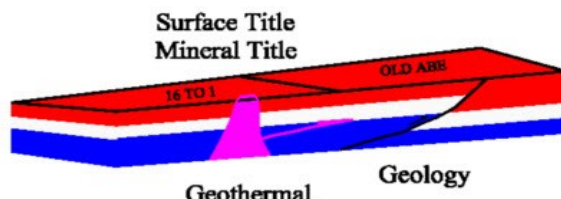
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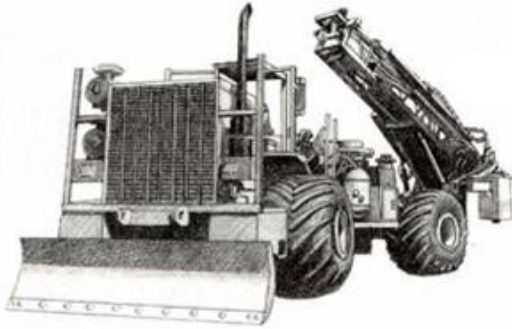


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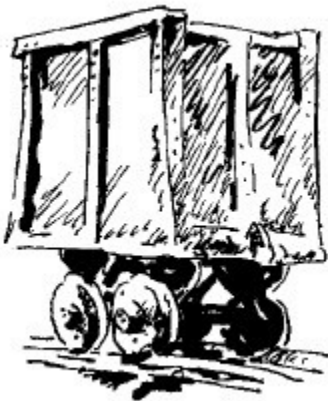


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