

NUGGET

A large yellow Caterpillar 785C haul truck is the central focus of the image. It is a massive piece of heavy machinery with large, treaded tires. The truck is parked on a dirt surface, and its body is marked with the number '785C' and the Caterpillar logo. The background is a clear blue sky.

Arts & Entertainment Along the Copper Corridor

Vol. 6, No. 12

• October 2013 •

FREE

*October is
National
Copper
Month*

Celebrating copper's past, present & future

Self Defense

The requirements needed to become a good student

By Steve Weber

Special to the Nugget

Martial Arts training can be a unique and satisfying experience. But for someone who has never taken such a class before, it can also be very

challenging on a number of levels.

Let us first discuss fitness. Certainly anyone with average or better physical skills is a potential candidate. Yet, I have successfully taught

people with minor health issues and in poor physical condition. Those with a proper mindset and a determined, spirited drive, often overcome significant obstacles. We are not generally training at a pace that the average person would find difficult to keep up with. Every class starts with approximately fifteen minutes of warm up exercises that are

specifically geared toward the types of movements one would use in the class.

The next consideration is mindset. Why do you want to train? What motivated you to visit the school? Assuming one has the time to devote to training and the funds to pay for it, ask yourself if you intend to stick with it long enough to learn something of value. If you're the type to quit

anything that frustrates you when it isn't easy to do, you will require an attitude adjustment that puts more emphasis on patience and perseverance. Come in with an open mind and prepare to accept the discipline of listening intently and using keen observation skills. These necessary traits enhance your focus and will contribute to your success in the learning process. While training, it will be critically important to clear your mind of all extraneous thoughts. Finally, your "spirit" or better put, your emotional attitude will determine whether you meet the goals you have set for yourself. Your position or ability outside the school is not equivalent to rank or skill inside the school. Humbling one's ego is essential to fitting in. Those with emotional baggage, including issues with authority figures, will need to modify their behavior. The Martial Arts begin and end with



Steve Weber

courtesy. If you chafe at saying yes or no sir, it's not for you.

Mr. Weber is the chief instructor at the Aikido Academy of Self-Defense located at 16134 North Oracle Road, in Catalina. He has more than 45 years of experience in the Martial Arts and has achieved skills in a variety of disciplines. He also teaches Tai-Chi on Saturday from 9 to 10 a.m.

Please call (520) 825-8500 for information regarding these and other programs. If you wish, check out the website at www.AikidoAcademyOfArizona.com.

NUGGET

Covering the Copper Corridor Communities of Globe, Miami, Superior, Kearny, Hayden, Winkelman, Dudleyville, Aravaipa, Mammoth, San Manuel, Oracle, SaddleBrooke and Catalina.

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Self Healing

What 'Mother Magma' taught me

By John Huntington
Special to the Nugget

I was raised in San Manuel, AZ, a town developed to house the employees of Magma Copper Co., and I had the good fortune to work for that company in variety of job descriptions.

There was a long strike in 1979, and I left pursue a Doctor of Chiropractic degree after being helped by a chiropractor for back pain resulting from a work injury the prior year.

Beyond learning to cut and weld steel, vulcanize conveyor belts, or wield a 16 pound hammer without hurting myself, I picked up a few other habits at Magma that have helped me through the years.

Work Hard

The jobs were plentiful, and a young man could hire on, gain new skills, and learn to get up and get at it daily.

The jobs most always required physical activity – from operators stair-

climbing in the Mill, to Chute Tappers breaking boulders, to shift boss's walking miles to monitor production.

The walking, climbing, carrying all helped build strong hips, thighs and back, crucial to a healthier and less painful spine.

Take a Horizontal Break

Many of the workers would lie down during lunch breaks. I observed older chute tappers that could out-work us young-uns, and I mimicked their leisure "lagon" time at lunch. I would recharge by getting off gravity's pull, allowing postural muscle to relax, and getting a 10 to 15 minute power nap on top of it all.

Research shows men who work and also nap, have a 37% lessened incident of heart failure.

Take a Coffee Break

Coffee has been used by man for over 500 years, and more and more published research shows its role in advancing health

and well-being.

Some benefits include decreasing the risk of liver disease and the effects of previous stroke, reducing pain while increasing energy and pleasure. Coffee also has anti-microbial properties and reduces levels of MRSA colonization in the nose.

Coffee provides about the only "bitters" in our sweet-fixated diet. *Coffee has been shown to help counter the development of the type 2 diabetes, heart disease and cancer these diets produce.*

Take a Laughter Break

I always enjoyed bigger jobs where many hands were needed. Changing a large conveyor belt, pan

feeder rehab at the ore dumps, or replacing cone crusher liners required a team approach (full discloser: Richard C. and Pappie did cone changes just the two of them – that's a team).

This group effort was accompanied with jokes, some friendly "ribbing" of one another and belly-laughs more often than not.

(This takes me back even further, maybe 1960 or so at the Drug Store in San M., and watching Sig Schaul, John Mitchell, and maybe a very young John Dicus (and others) having coffee and filling the air with their guffaws! They impressed me deeply with their camaraderie and

ease.)

Laughter decreases blood pressure, strengthens the immune system, is a fun abdominal work out, reduces chronic pain and burns calories similar to a slow to moderate walk.

And...it makes you feel better right now, whether there is a 16 lb. hammer, a shovel or a coffee cup in your hand.

Thanks to all my co-workers that were Magma. I learned from you all.

Dr. Huntington



John Huntington

practices Chiropractic, Biomedical Acupuncture and Physiotherapy in Oracle, Az. 520-896-9844 huntingtonchiro@hotmail.com.

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One hundred years of mining and many more to go for ASARCO

By Mila Besich Lira
Nugget

In 2012, ASARCO celebrated 100 years of copper mining and smelting in the Hayden and Kearny areas. The mine has far outlived its overall expectations.

In a recent interview with Tom Aldrich, Vice President of Environmental Affairs at ASARCO, he explained that in 1976 the company predicted that there were enough copper reserves

to mine another 30 years. Thirty-seven years later the company is still mining and smelting. About the future of continued mining for ASARCO. "Miners are optimistic," explained Aldrich.

The company reports that in 2012 it had 1,403 employees. Those employees were paid \$140.8 million dollars in wages, salaries and benefits. The company paid \$28.6 million in

property, severance and sales taxes and they spend \$347.5 million for services and products such as fuel, energy and operating supplies.

Copper mining remains the main industry for the Copper Basin area, yet many of the workers commute to their jobs using van pools and carpooling. It is not uncommon to find a childhood resident of the Copper Basin working at the mine, yet commuting from their home in one of the metro areas. The ease of commuting and transportation advancements have changed the dynamics of the mining community. The mining towns of the past often had 5,000 to 7,000 residents those numbers are almost half that in today's operations. The employees now have a choice, and some still choose to enjoy living near work; others enjoy the hour commute into work from the city. The mining operations



Asarco employees and dignitaries enjoyed handing out Asarco 'hard' hats to the children attending the Hayden Smelter 100th anniversary celebration in March 2012. (James Carnes photo)

have expanded and developed tremendously since the early mining days, which date back to early 1900s. In those early days

mining was less regulated than it is today. The communities of Hayden and Kearny grew around the expansion of the Ray pit and the smelting operations in Hayden. The long lost

towns of Ray, Sonora and Barcelona, succumbed to the growth of the open pit. Those communities are now only memories but the legacy of the work

Asarco, Page 11

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Get a taste of more than

By John Hernandez
Nugget

The Tri-Community Visitors Center and the Oracle Women's Network are hosting the Second Annual Taste of Oracle event on Oct. 12 from 1 – 5 p.m. The event will be held at the Village Square parking lot in front of the Tri-Community Visitors Center.

The Taste of Oracle is an event to highlight the Tri-Community businesses of Oracle, Mammoth and San Manuel. It was the Taste of Oracle last year that allowed the Tri-Community Visitors Center to open. The profits made from the event go towards funding the Tri-Community Visitors Center and the Oracle Women's

Network (O.W.N.).

The mission of the Tri-Community Visitors Center is to “encourage residents and visitors to discover the beauty, art and amenities of the Tri-Communities.” The center provides information about local businesses and places to visit in Oracle, Mammoth, San Manuel and the surrounding areas. They provide maps of the area, brochures, and a community calendar. They help promote the area including the Copper Corridor. They greet visitors and answer questions from tourists about the communities.

The Visitors Center has had numerous people stop by including some from as far away as Germany and Austria. Visitors from Texas, Illinois, Kansas, Wyoming, Colorado, Iowa, and British Columbia have stopped by asking questions.

This year's event will have more than food to offer.

There will be entertainment including the music of Dr. John Huntington and Steve Priestle. Other entertainers have also been invited.

Events and games for kids will be offered. Information booths from community organizations will be on the grounds as well as vendors offering arts and crafts as well as food. Food vendors lined up include kettle corn, shave ice, Patio Café, and shredded beef tacos. Charlotte's Way Animal Rescue will have a pet adoption center and more set up. There will be an Avon booth and Oracle's own Oro Creek winery will offer wine tasting and bottles of wine for sale.

Troy Letwak owner of Car Quest in Oracle and his new Recluse Customs bike shop will have his custom built motorcycle that won first place in the Radical Class of the Easy Riders Bike Show at the 2013 Sturgis



Farmers Market offerings at the 2012 Taste of Oracle. (John Hernandez photo)

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food at the second annual Taste of Oracle

Motorcycle Rally on display. This motorcycle also took second place in the Rat's Hole Custom Bike Show in the Extreme Class at Sturgis, SD.

Vendors and information booths are still welcome. Food booths are \$50 for a space; information and other booths are \$25. For more information contact the Tri-Community Visitor Center at 520-896-2320 or info@VisitTriCommunity.org. The visitors center is open daily from 1 – 4 p.m. Volunteers are needed to staff the visitor center. If you are interested in the volunteer program contact Debi Pfaff at 520-400-5772. Don't forget to visit their website at www.VisitTriCommunity.org and like them on Facebook.

If You Go

From Florence, take Highway 79 south (towards Tucson). At the Junction of

Highways 79 and 77, turn left, heading east on 77. Take the first entrance to the town of Oracle (American Avenue). Village Square will be on the right just across the street from Circle K.

From Superior, take Highway 177 south to the Junction of Highways 177 and 77. Turn right (towards Tucson). When you reach the town of Oracle, turn left on Rockliffe Blvd. Continue through the intersection of Rockliffe Blvd. and American Ave. onto Calle Futura. Village Square will be on your right.

From Globe, head south on Highway 77 (towards Tucson). When you reach the town of Oracle, turn left on Rockliffe Blvd. Continue through the intersection of Rockliffe Blvd. and American Ave. onto Calle Futura. Village Square will be on your right.



Local youth organizations used the Taste of Oracle event in 2012 to raise funds for activities. (John Hernandez photo)



Central Arizona College

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Changing the way copper is made – What to expect on a Florence Copper Tour

By Stacy Gramazio

Special to the Nugget
“Where is the big open pit?” This is a typical question I’ll hear when

I tell people I work for a copper mining company. Most people who’ve grown up here know a little bit about the state’s history of

copper. Harkening back to junior high lectures of the 5 C’s of Arizona, they usually expect to hear exciting tales about a big hole in the ground, large trucks and shovels, and waste pile, and while I’m happy to explain how the Florence Copper project will recover copper using a state-of-the-art technology, the best suggestion I can offer is to take the tour.

With their curiosity piqued, I explain that we offer free tours of our copper recovery site along Hunt Highway at least twice a month.

Florence Copper is different—we are a company proposing to use cutting-edge in-situ technology that is minimally invasive to the land. I watch the interest and excitement grow in

their expressions as they discover the opportunity here in the Town of Florence: Florence Copper, in full production, will create over 170 direct head of household jobs and hundreds of additional indirect jobs using a process that is technically proven, environmentally safe and allows for a number of exciting possibilities for the second life of the land at the close of the project.

Tours of Florence Copper are open to anyone, and they provide a great education about in-situ copper recovery technology in a just a couple hours. Let me tell you about a typical site tour:

Generally, guests of Florence Copper site

Curis, Page 12



Poston Butte Mountain's 'Pyramid to the Sun'.



Visiting the core shed on the Florence Copper tour.



The well fields at Florence Copper.

LET'S TALK COPPER

Pilot Test Facility "PTF"

The Pilot Test Facility (PTF) is a project that will:

- Prove the safety and reliability of in-situ mining
- Show and improve best water quality practices
- Optimize the process utilized by previous property owner BHP Copper Inc.



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WHAT IS IN-SITU COPPER RECOVERY?

- Low profile and low intensity operation where a solution of 99.5% water to .5% sulfuric acid is injected into the copper formation to dissolve the copper. The copper rich solution is extracted using a series of withdrawal wells that control where the liquid moves
- Small scale test facility will demonstrate that we can create and maintain control of the copper bearing solution
- The solution has an acidic strength similar to household vinegar

HAS THIS BEEN DONE IN FLORENCE?

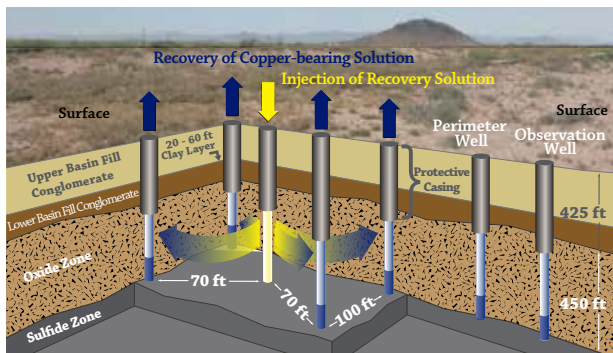
- Yes, in the late 90s, previous site owner BHP successfully ran a nearly identical PTF at our site
- Since the first PTF in the late 90s, we have 16 years of water testing results from 31 wells at various locations on site

HOW BIG WILL THE PTF BE?

- Approximately two acres with 24 triple cased wells – 4 injection wells, 9 recovery wells, 4 geochemical sampling wells, and 7 observation wells
- The system is monitored 24 hours a day
- The PTF will operate for less than 2 years

WHAT ABOUT WATER QUALITY?

- Modern in-situ recovery practices and technologies have proved to fully protect the integrity and quality of groundwater resources
- Arizona Department of Water Quality has granted a very stringent Aquifer Protection Permit to monitor activities and ensure water quality is protected
- A permit from the US Environmental Protection Agency will provide federal oversight and regulation of the wells



Well placement pattern



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OCT. 12th & 13th

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SATURDAY TRUCKS

Spice It Up! - Dishes from around the world. Curry dishes, Cambodian dishes, Jamaican Jerk. **Island Loco** - Hawaiian Food.
The Rite Food Truck - Po'boy Sandwiches. **Paleta's Betty** - Handmade Mexican Popsicles. **Aji Mobile Food** - Latin American Food on a Roll.
Queen Creek Olive Mill Truck- Piggy in a Waffle

SUNDAY TRUCKS

Burgers Amore - Beef, Chicken, Pork, Black Bean, Veggie Burgers, French Fries. **The Great Pho King Food Truck** - French/Vietnamese Food.
Lulu's Italian Ice - Vegan, 100% Natural, Gluten Free Italian Ice. **J-licious Taco Truck** - Tacos. **Queen Creek Olive Mill Truck**- Piggy in a Waffle

Harvest Festival

OCT. 12th - Dec. 15th



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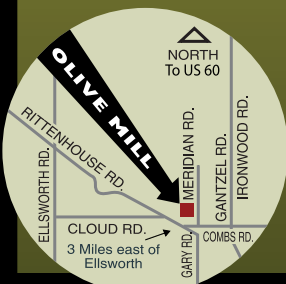


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 Olivepalooza food truck weekend, Bocce Tournament
October 12
 Upper East Side Big Band
October 13
 The Chris Putrino Band featuring Suzy Steinmann
October 20
 Artists of the Superstition Art Fair
December 8
 San Tan Artists Art Fair

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Asarco

Continued from Page 4

of their people continue through the ongoing mining operations, what was given up provides employment for yet another generation.

ASARCO continues to look for ways to develop and further their exploration. The company currently has claim to several more mining rights in the area. ASARCO has been working on a land exchange that will allow them to own the land that their mining claims are on. These claims will have to go through Environmental Impact Studies, something that the original mines did not have to go through during the early 1900s.

The company is currently going through the public participation phase of permitting new tailings sites. The current tailing sites in Hayden date back to the 1930s and '40s, and were built in the days when the thought of reclamation and end use was not a priority. But those sites are still highly regulated and permitted to ensure the local environment is safe. As the federal regulations

have changed over the years the company has had to make modifications to their operations and smelting to ensure that environmental regulations are met, and that employees and the communities surrounding the mine are not harmed by the operations.

Other challenges that ASARCO often faces as they continue is developing a workforce. Will there be people to continue working in the mines? As the future develops into the present for these longtime mining operations, the industry is developing new tools for extraction and that will mean new job skills for a work force. A workforce that can often date back to generations in some families. The tasks and tools of a miner today wont be the same tasks that their father or grandfather may have done, however the industry will always have a need for skilled workforce to be machinists, electricians, welders, engineers, and accountants.

The mining methods and skills may change, regulations may increase



Pouring the smelted copper into anode forms. (File photo)

but the mining industry continues to have

projections for a long lived future in the area.

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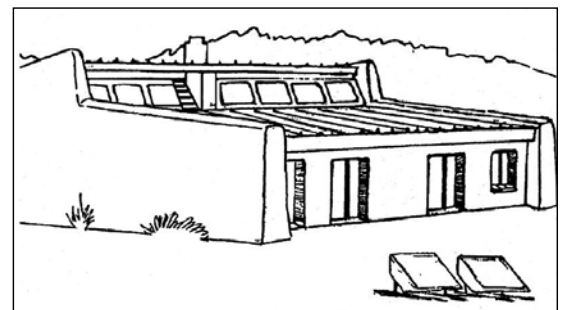


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Continued from Page 8
tours start their day at our Community Office, located in downtown Florence at 130 N. Main Street. One of Florence's official historic sites, this is a place we love to show off. From its start in 1948 as the site of the local town hall that included a police and fire station, to its days as the Country Thunder offices, this location has served the community in many

capacities.

When you arrive, we'll have a cup of coffee and doughnuts waiting for you from Eugene & Kim's, a great local donut shop. After getting to know each other a bit, you'll be invited to view a short slide presentation about the Florence Copper project, which includes our animated video of in-situ technology, "Changing the Way Copper Is Made." We'll make sure your questions are answered

by our hydrologists and environmental engineers who proudly explain how the groundwater is protected and hydraulic control is maintained with in-situ technology.

Then you'll hop on the tour bus, head toward the "mine." Along the way, you'll hear about the history of the copper site that was first discovered in the 1960s. The agricultural and industrial sites that surround the property are easily spotted, and you'll

notice how Florence Copper is directly across the highway from Poston Butte Mountain. (Often referred to by locals as "F" mountain because of a large letter F on its side. This mountain is distinct with its "pyramid to the sun" on its summit. It's also the burial place for Charles D. Poston, known as "the Father of Arizona.")

Once on site, you'll enter the administration building. Here, you can see and touch drill core samples taken from the copper bearing deposit located around 700 feet underground. It becomes clear how Mother Nature has been very helpful to Florence Copper, the core samples show how the deposit is broken up naturally, offering perfect in-situ copper recovery conditions that will never require hydraulic fracturing.

Once back on the bus, we'll pull up to a vintage Quonset hut that originally came from William's Field Air Force base.

At Florence Copper, we call this our "library" as it contains hundreds and hundreds of core samples that geologists have been studying since the late 1960s. If the cores were laid end to end it would stretch more than 150 miles! It becomes crystal clear how we know that Florence Copper has ideal conditions for this project, the data is there to prove it.

Next, we arrive at the existing in-situ copper recovery well field that was once successfully operated in the late 1990s by BHP Copper. You'll see for yourself the small footprint of the recovery wells and well field, and how they function. Like BHP, Florence Copper will use a 99.5% water and 0.5% sulfuric acid solution to gently extract the copper through the hydraulic closed-loop system created by these wells. We'll remind you that this solution is about the same acidity as common household vinegar and hydraulic control of the solution

is always maintained 24 hours a day, seven days a week. Our operating permits include an Aquifer Protection Permit from the Arizona Department of Environmental Quality and an Underground Injection Control Permit issued by the U.S. Environmental Protection Agency to ensure that our groundwater is continually protected.

At this point, I get to enjoy the best part of my job, distributing the Florence Copper hats and other giveaways. Our guests are generally enthusiastic and happy knowing that soon the world will be watching Florence and Florence Copper when our Production Test Facility begins operations, and most are ready to proudly put on their Florence Copper ball caps and continue their day.

We return to the Community Office in downtown Florence and while the tour may be over, our team is still prepared to answer any remaining questions you may have. Our goal is to maintain complete transparency about the Florence Copper project, and our door is open long after your visit is over.

Sound interesting? If so, give me a call at the Florence Copper office, and I'll be more than happy to reserve your space for a tour. (520) 374-3984 or email stacygramazio@florencecopper.com.

Public tours are the second and fourth Fridays of the month at 9 a.m. Alternate tours are arranged for community groups and special situations.

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- Very well maintained 1.25 with 2bd/2ba, rock ramada, workshop, new roof. \$79,000.
- Well maintained home, very spacious open floor plan, great views, large deck, 2.5 ac. \$134,900.

- 10 ac bordering state land, 2 bd / 2 ba home, huge 1,500 sq. ft. shop with an additional 1,500 sq. ft. slab covered for vehicles. \$315,000.
- 3bd/2ba home on very private 2.5 ac lot, home boarded National Forest, private well. \$275,000.
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- 5bd/4ba on large lot with intricate rockwork wall, home has separate entrance to guest house or studio. \$196,500.

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- 1.25 to 10 ac., buy part or whole, has excellent well, borders State land, no financing necessary, owner will carry. \$32,000 - \$125,000.
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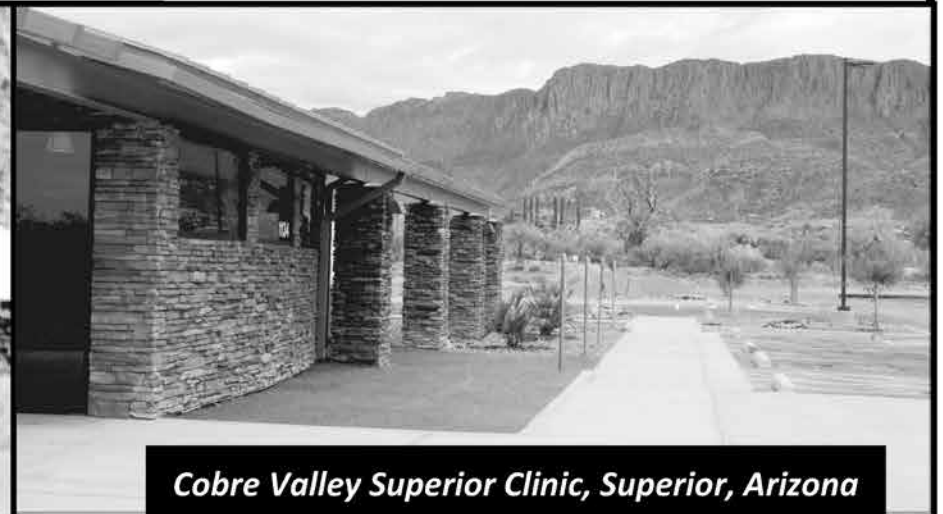
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Copper dreams built Miami, Arizona

By Andrea Justice
Nugget

It was the quest for gold and silver that first drew attention to the mineral rich area surrounding the Pinal Mountains. The 250-mile ore bearing streak of rocks and soil created the foundation for such mining towns as Morenci, Clifton, Ray, Superior and Globe. Prospectors flocked to the area with dreams of silver riches in

a rough territory, but in the end it was copper that conjured inspiration and laid the footings for the establishment of Miami.

On July 11, 1876, the first notice of copper prospecting in the Miami district was made in Globe City's *Arizona Silver Belt*, and from that moment on copper stole the spotlight. Toward the end of the nineteenth century silver mining decreased, and

the area west of Globe City began to see many successful copper mines.

Inspiration Copper Company and Miami Copper Company began to develop large operations. By 1886, the possible riches of Gila County's copper had been recognized. Unfortunately transportation of the precious metals proved to be the biggest obstacle. Miners rallied

for a railroad. John Black, Commissioner of Immigration for the Territory of Arizona said, "The most serious drawback to copper mining in Gila County is the difficulty of transportation and great cost of shipping." At that time the nearest railroads were in Wilcox and Casa Grande, both more than 100 miles away.

Transportation needs were met by use of 200 pack animals. The animals transported copper over a narrow trail; the present

Miami-Superior highway follows the route of the old trail. Two daily pack trains made their way up and over the treacherous path, with each mule carrying at the most 200 pounds. It is said that each load was only exceeded by one or two barrels of whiskey.

Transportation was also a problem for workers. Miners and their families preferred to live closer to the actual mines, rather than having to travel over bad roads everyday. Most of the men traveled to

work on foot. Few miners could afford to keep their horses and the copper mines were located seven miles west of Globe. It was this need that inspired businessman Cleve W. Van Dyke. His idea was to establish a new town closer to the mines, and he expected to make a fortune from this idea. Van Dyke was convinced that a new town would be a profitable blessing for the many miners moving into the region.

Miami, Page 21

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An aerial view of Miami, Arizona. (Andrea Justice photo)



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Asarco metallurgist passionate about sustainable mining



Dr. Krishna Parameswaran

By Alison Stanton
Nugget

Dr. Krishna Parameswaran, the Director of Environmental Services and Compliance Assurance at ASARCO LLC (Asarco) in Tucson, first became interested in metals when he was a high school student in Bombay, India.

"I grew up near the sea, and something that really interested me in my chemistry classes was learning that sea water contains metals, and that many things can dissolve in sea water. For example,

when you pass an electrical current through sea water you can extract minerals—that really fascinated me."

When he enrolled in college, Parameswaran decided to pursue his interests in metals. He earned a Bachelor of Technology degree in metallurgical engineering from the Indian Institute of Technology, Bombay, in 1968 and a Master of Science degree in metallurgical engineering from the University of Missouri-Rolla in 1971 before graduating with a Doctor of Philosophy in metallurgy from Pennsylvania State University in 1974.

"Metallurgy is the science and production of metals through the mining and processing of fine metals," he said, adding that it also entails extraction, recycling and the physical properties of metals.

"It is kind of a wide field, and so metallurgical engineering then is the engineering part of it."

Referring to Dustin Hoffman in "The Graduate," when

his character was told that plastics would be a key industry, Parameswaran said he just felt that metals were the trend.

"And things have just fallen into place," he said.

During his career, Parameswaran has worked for two companies. After graduating from Pennsylvania State University, he worked for Arthur D. Little, an international management consulting firm. There, he did work on environmental and pollution controls, some of which involved the copper industry. This, he said, laid the foundation for his work at Asarco.

When he began at Asarco 32 years ago, Parameswaran started working as a Senior Research Engineer, and he also supported the environmental department. Through his current role, he assists with operations at Asarco's five facilities, including four in Arizona and one in Texas, working with the oversight of environmental permits,

compliance issues, and coordinating environmental activities among the facilities, and managing the company's compliance and system audit programs.

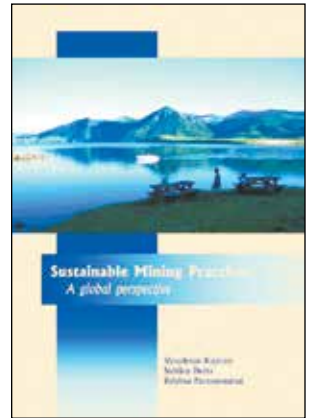
Through his in-depth knowledge of the regulations and how they can impact an individual facility, Parameswaran said he feels he truly knows the process and can explain what it all means to regulators.

"I get a great deal of satisfaction knowing that I'm doing some good," he said. "I feel like I'm bringing some value to the organization, and that is really important."

Sustainability is another of Parameswaran's passions, he said. For more than a decade he has been interested in the subject, and in June 2005, he coauthored a book entitled "Sustainable Mining Practices: A Global Perspective."

"Basically, sustainability to me means balancing the environmental, social and economic components," he said.


"Unless they all come into place, we will not have a viable industry, and if we don't have a viable industry, then there will be no jobs. Striking a balance is very




important."

Over the years, Parameswaran said he has

Sustainability, Page 21



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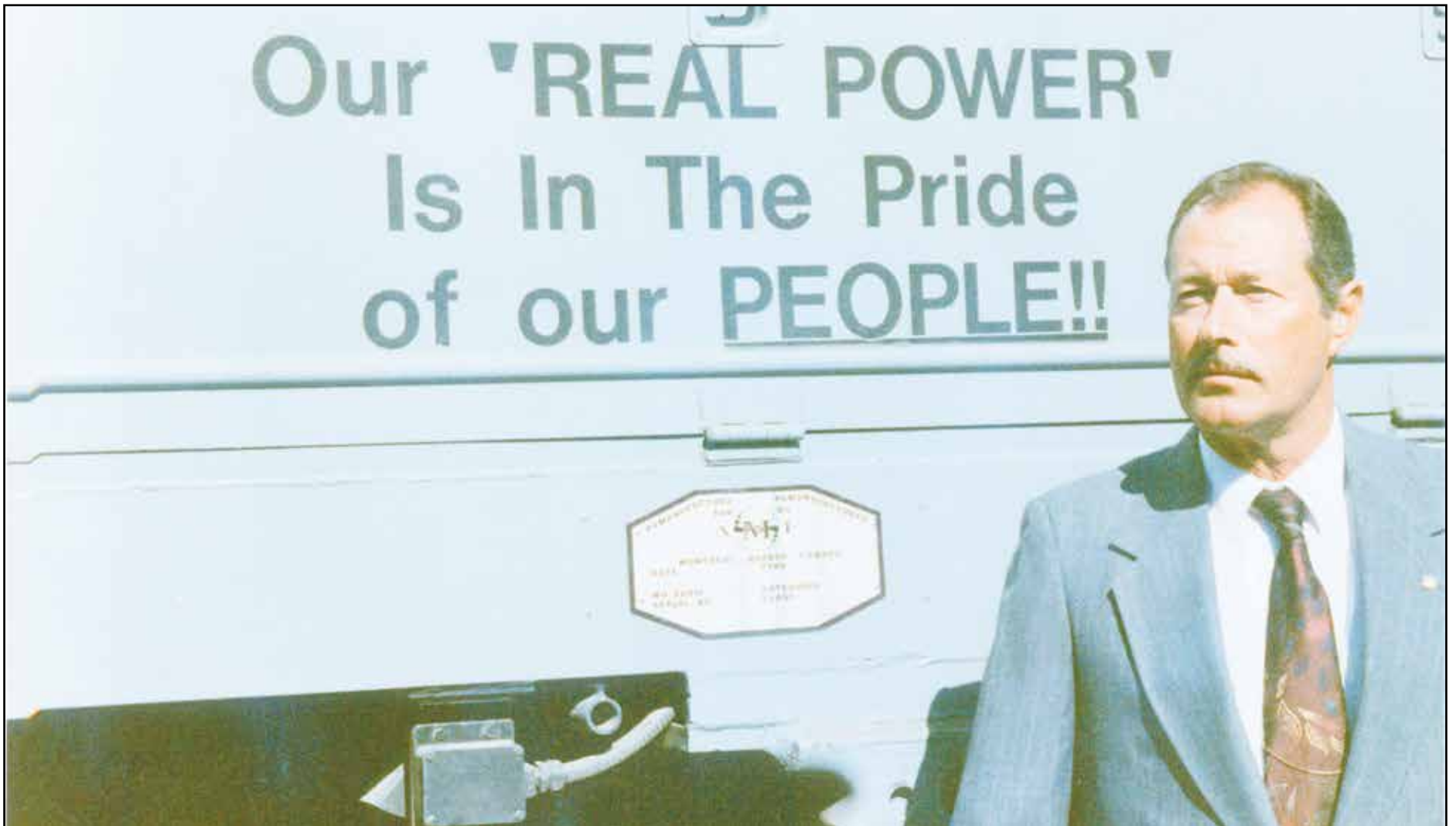
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The Copper Basin Railway People

A NOTE FROM THE PUBLISHER:

Jake Jacobson was chosen as North America’s “Railroad Man of the Year” in 1994, the Copper Basin “Citizen of Year” in 1998 and one of the “Century’s Great Railroaders” in 2000.

Freeport-McMoRan invests in community

By Andrea Justice
Nugget

Freeport-McMoRan Copper and Gold is a proud supporter of the communities in which they operate. In a recent report to the community, Freeport detailed their 2013 Community Investment Fund. The company announced the 2013 grant awards with a total of \$222,000 to be distributed throughout Globe and Miami. These grants support programs and projects that provide sustainable solutions and benefits to address the community's priority needs. All grant awards are funded by the Freeport-McMoRan Copper and Gold Foundation.

This year grants have been awarded to nonprofit and educational programs with the intent of helping the local communities obtain sustainable futures.

Seven grants have been announced. According to the report, Bullion Plaza Cultural Center and Museum received a grant for infrastructure

enhancements. This grant will provide for the electrical, heating, ventilation and air conditioning in the museum. Bullion Plaza is looking to attract new business and better improve the care of exhibits and collections.

The Cobre Valley Center for the Arts also received a grant to help complete the addition of an elevator in the historic building. The CVCA will be able better serve the community with the addition of a much needed elevator. The center will be able to pursue new revenue opportunities and realize a fuller potential as a venue for meetings and conferences.

The Gila County Historical Society is another grant recipient. This grant will help the historical society preserve the historical building that houses the society's exhibits. It will help the society continue to draw tourism revenue and contribute to the economic development of the area.

The Globe-Miami Habitat

for Humanity will be able to continue aiding the community. The Freeport grant will help accelerate the timeline to build two homes for working families in need. The grant will also help assist the nonprofit group with required permitting and lot development costs for each project.

In support of the Town of Miami, Freeport awarded a grant to renovate the gym at Bullion Plaza. This renovation will



FREEPORT-McMoRAN COPPER & GOLD

create additional available space for local sporting events. It will also create opportunities for new income sources. According to the report these funds will provide leverage for the town to raise additional private grant monies.

The Miami Unified

School District received a grant for new, quality educational programs. These programs will be dedicated to increasing students' learning potential by expanding their access to technology in school.






The final grant went to Gila Community

College to establish a medical billing and coding workforce training program at the Globe Campus.

For more information on Freeport's community funds see www.freeportinmycommunity.com.

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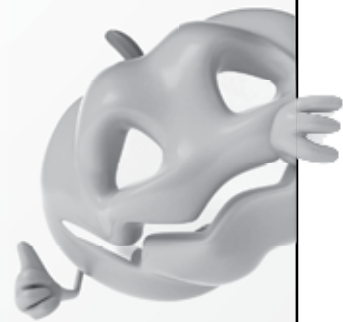
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Miami

Continued from Page 16

By 1907 Van Dyke's idea of a new town had been embraced by area. He decided to promote his idea throughout the U.S. Van Dyke took advertisements

out in newspapers and supplied articles to create enthusiasm and interest. He also decided that the beginnings of the town would have a certain date. Van Dyke called Oct. 11, 1909 Miami Townsite Day. A few days prior to the townsite day the first

train arrived on the newly constructed railroad, radically changing transportation for both copper and miners.

As Miami's proud pioneer investor, Van Dyke organized several special events to celebrate the town's birth. One of the biggest attractions during the celebration day included a highly anticipated land rush. It was a chance for prospective land owners to claim lots. While most of the land was already owned by Van Dyke and other real estate men in Globe, they were willing to sell for reasonable prices. The *Arizona Silver Belt* ran a full page ad for the sale on Oct. 1, 1909. The ad marketed the sale as, "The greatest real estate opportunity ever offered to the public in the history of the Southwest." The ad also relayed that there were millions of tons of copper blocked and ready to be mined. It stated that this

was a young man's chance to make a fortune, and that the lots would be sold cheap, upon easy terms, and the developments in mining assured tremendous increases in property value.

The town of Miami was officially born with streets graded in copper. The town was started and promoted as an undertaking inspired by social idealism. It was advertised as, "A place that would encourage home building, relaxation from the restraint of living 24 hours daily 'on the works,' and exercise personal choice in dealing with independent trade concerns." Over a hundred years after its establishment, Miami and its mines have survived. The town remains a



Early mining in Globe-Miami, Arizona.

genuine hub for Arizona's rich mining history. Materials researched at the Gila County Historical

Society. Quotes taken from "A History of the Miami Area, Arizona" by Wilma Gray Sain.

Sustainability

Continued from Page 17

noticed some changes in the industry and the public's perception about what they do.

"The general feeling sometimes is that our credibility is being questioned, but the professionals in the field are truly interested in protecting the public health and the environment. There has been a great deal of progress on this."

In addition to getting a lot of satisfaction from his work, Parameswaran said he truly enjoys working with his colleagues and co-workers.

"I work with some great people, and it is a pleasure to work with them," he said.

Parameswaran's colleagues and co-workers share these same feelings about him and his commitment to his work.

"The mining industry in Arizona is facing increasingly stringent regulations on the state and national level," said Kelly Norton, President of Arizona Mining Association.

"Dr. Parameswaran has

been a critical member of the executive team in helping the association strategize on a way forward in dealing with these issues," she added.

"For over 30 years Dr. Parameswaran has been instrumental in providing Asarco with guidance and advice regarding our operations, environmental regulations and compliance," said Thomas L. Aldrich, Vice President of Environmental Affairs.

"He has become a world renown expert in sustainable mining practices and has presented papers and authored books on the subject. He is well respected in the industry and within Asarco. He truly is an Asarco treasure."

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Despite challenges of 2013, Resolution Copper still moving forward

By Mila Besich Lira
Nugget

Residents of the Copper Corridor are often reminded of the boom and bust of the

Copper industry. They have seen their communities grow with thriving economies when mines were going strong, and they have seen

the dwindle as the mines have shut down. That has been the case for the Town of Superior, the town itself has seen its share of challenges

since 1982 when Magma Copper first shut down. Residents left Superior in hopes of new jobs outside of the community, that spurred a population decrease.

The community saw some relief when BHP re-opened the mine for a few years, but then once again there was a shut down. The bust seemed short lived after BHP and Rio Tinto announced in 1996 that they would partner to reopen the mine after they found the largest copper deposit to be found in the last 100 years. They would call the mine mine Resolution Copper.

Resolution Copper is 55 percent owned by Resolution Copper a Rio Tinto PLC subsidiary and BHP Copper owns 45 percent. The Resolution Copper project is expected to extract what is considered today to be the largest copper deposit in North America. This large deposit is 7,000 feet below the earths surface, and is considered to be the the largest undeveloped copper deposit in the world. To actually mine this deposit safely, the company needs approval of the Southeast Arizona Land Exchange through the United States Congress.

For over a decade the company and surrounding communities have lobbied Congress to approve the Southeast Arizona Land



Exchange and Conservation Act, a bill which will remove the Oak Flats Campground, approximately 2,422 acres of the Tonto National Forest from Federal ownership, in exchange for this land the federal government will receive 5,344 acres of environmentally sensitive lands, which is currently owned by Resolution Copper. This year the land exchange legislation was introduced with bi-partisan support into the House of Representatives by Representative Ann Kirkpatrick from Congressional District 1 and Representative Paul Gosar from Congressional District 4. The bill moved rather swiftly through Congress despite continued opposition from environmental groups, climbers and Native American groups. H.R. 687 the Southeast Arizona Land Exchange and Conservation Act is slated for a vote in the

House of Representatives on Thursday, September 26, 2013.

On November 30, 2012, Rio Tinto announced major budget scale-backs throughout their company, Resolution Copper was not exempt from those scale backs and the company was forced to lay off many employees and halt some of the development projects that were slated for 2013. Rio Tinto in their announcement cited that political uncertainty was a primary reason to cut the budget for the Resolution Copper project. Despite the scale-back the company has continued to move forward with educating the public on the project, moving the bill through Congress and completing the rehabilitation of the number 9 shaft and has kept some work focused on further exploratory work on

RCM, Page 28

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Saturday, October 26—7:30pm
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Wednesday, October 30—7:30pm
Salute To Our Hero's

Join SaddleBrooke's favorite Robert Shaw and Friends for our Second Annual "Salute To Our Hero's" concert performance that will benefit Tucson military families in need! All net proceeds go to providing assistance with rent and utility bills to groceries and diapers. \$35 inclusive \$40 door.



Wednesday, November 6—7:30pm

How Great Thou Art—The Gospel Music of Elvis Presley

Starring Robert Shaw and a 12-piece band with a gospel quartet performing such hits as "Peace In The Valley," "Amazing Grace" and of course "How Great Thou Art," you're sure to find inspiration and lots of great memories in this wonderful music.. \$25 inclusive \$30 door



Saturday, November 16—7:30pm

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Saturday, November 30—7:30pm

Picture Rachmaninoff With Dr. Stephen Cook

Written by Paul Harvey Jr., this one-man-show combines the beautiful piano music of Rachmaninoff with dramatic projections of artwork and features the voice of Paul Harvey Jr. Proceeds to help the newly founded Oracle Piano Society. VIP guests will join Stephen & the Board of Directors in a private cocktail party. \$88 VIP, \$25 regular, \$30 door



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William 'Curly' Neal – mining history in Mammoth and Oracle

By John Hernandez
Nugget

February was Black History Month, a time to celebrate the achievements of Black

Americans and to recognize the central role African Americans played in American history. The month of February was chosen as it was the month

that both Abraham Lincoln and Frederick Douglas were born. A man who played a central part in the history of Oracle and was important to

the mining history of the "Old Hat" Mining District which included Mammoth was William "Curly" Neal. His wife Annie would also be a big part of Oracle's history.

William Neal was of African American and Cherokee ancestry. He was born in 1849 in the Cherokee Nation in Oklahoma. He ran away from home at a young age and worked odd jobs around train stations to survive. When he was nineteen he met William F. Cody. Cody helped him get a job scouting for the military during the Indian wars in Colorado, Wyoming, New Mexico and Arizona. Neal would remain life long friends with "Buffalo Bill" Cody. He traveled with the army to Arizona in 1878. After a year he left the army and began working as a cook for the Maison Dairy in Tucson. He worked for \$40 a month plus room and board. He would later start up a livery

business and eventually a stage line and freighting business. It would be the mining industry that would allow him to build his freighting business and become a respected and successful businessman.

When the Mammoth Mine was getting ready to go into production, Captain Johnson was the manager and he was looking for someone to haul ore from the mine to the mill. Neal was interested but did not have the equipment to haul the tonnage that was required. He convinced Johnson to advance him enough money to purchase some large Murphy wagons and mules to do the job. Johnson agreed but stipulated that if the ore was not delivered to the mill on time that Neal would have to pay the mill's expenses. Neal agreed and kept his word and never had to pay as his deliveries were always on time. Neal traveled to Kansas City and purchased a number

of specially built wagons and mules. He began to expand his hauling business. Curly Neal obtained a contract with the government in 1885 to carry mail to Oracle. His route later included American Flag and Manleyville. In 1886 he had the lowest bid contracting to haul supplies from Tucson to Fort Lowell. His freighting business also hauled supplies to some of the mines on the north side of the Catalinas. In 1890 Neal was awarded the contract for carrying mail from Tucson to the Mammoth Mine. The contract paid him \$1,666 a year. Neal also owned a "public eating establishment" in Mammoth and had the contract to deliver fuel wood and water to the mine and mill. The livery stable and the stage line were moved to the corner of Pennington and Meyer streets in 1891. Neal purchased the property for \$1,800 from C.T.


Neal, Page 30



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- 10 Pork Boneless Ribs • (10) 1/4 lb. cuts
- 20 lbs. Lean Ground Beef • (10) 2 lb. packs
- 20 lbs. Chicken Leg Quarters • (4) 5 lb. packs
- 10 lbs. Pork Butt Roast • (2) 5 lb. cuts
- 20 lbs. Beef Cross Rib Roast • (8) 2 1/2 lb. cuts
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RCC

Continued from Page 22

the ore body.

The Resolution Copper mine will utilize much of

the existing workings of the Magma Mine but will expand the mine to adapt new mining technologies to accommodate the depth and heat of the project. The mine will use a block cave

mining method to extract the copper, this method will cause subsidence to the area. Opposition groups continue to advocate that the ore be extracted by the cut and fill method which was used in the Magma Mine operations.

During the Summer of 2013, Resolution Copper hosted a series of community forums to address concerns assuring the public that the project will not affect local water supplies, and that all aspects of the National Environmental Protection Acts policies would be followed. The forums also covered the economic impacts of the Town of Superior, the region and state. These forums were organized after the Town of Superior, pulled their unqualified support of the project in the early spring. The Town, claimed that their opposition came after members of the council became concerned about the environmental impacts.

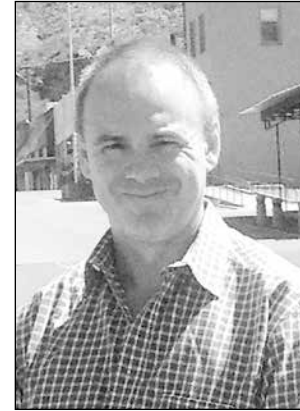
The Resolution Copper project is expected to bring in \$20 billion in tax revenues over the life of the project which is expected to be 40-60 years of operations. The project will create 3,700 direct, indirect and induced jobs and will pay \$220.5

million in annual wages.

The company has stated that they will complete the mine plan of operations this year, once the mine plan of operations is complete and submitted to the Forest Service that will allow the Forest Service to begin a full NEPA on the project. Another challenge for the company this year was the sale of the BHP owned Pinto Valley mine to Capstone Mining, in the original plans for the mine, the tailings from Resolution Copper were going to be put into the open pit at Pinto Valley, these plans fell through when BHP announced that they expect the mine to continue operating, and then sold the mine to Capstone. Resolution Copper has set up a community advisory group to determine another site for the tailings and currently is finalizing those plans. The tailings site will need to be determined in order for the mine plan of operations to be completed and submitted.

Recent polling in Superior and the surrounding areas have shown that the project still has an 80 percent approval from the community members despite attempts by opposition groups to refute that support.

At the Helm of the Resolution Project



Andrew Taplin

Andrew Taplin is the Project Manager for the Resolution Copper project. He is primarily responsible for the overall permitting and further development of the project. Taplin has been with Rio Tinto since 1993, during this time he has worked in various leadership positions in the port, rail and mine operations in Australia, Canada and West Africa. Prior to being selected to work at the Resolution Copper Project, he served as Chief Integration Office for the Simandou iron ore project in Guinea, West Africa.

Taplin explained that he has enjoyed working at the Resolution Copper Project and especially enjoys working in smaller mining communities. One of Taplin's goals is to continue developing a strong working relationship with the Town of Superior and the surrounding communities. "We can do some really good things," he explained in regards to working with the Town of Superior and the economic benefits the project will bring to the town. During his interview, he explained that Rio Tinto requires a social license to operate, that social license is where the company can work with the communities to ensure the environmental and economic concerns are managed.

He enjoys working with



Vicky Peacey

In the early days of mining, you rarely saw a woman in labor position let alone a management position. The mine workforce of today is much more diverse, and you find more women leading the way throughout the industry. Vicky Peacey is the Senior Manager of Environmental and External Affairs for Resolution Copper. Peacey is responsible for the environmental permitting and regulations. She has been one of the primary managers responsible for the completion of the Mine Plan of Operations, and often speaks publicly about the how the National Environmental Policy Act will be applied to the project.

Peacey provided some insight on working for Rio Tinto and being a woman in the mining industry. "Being a woman isn't any different, the industry is diverse and working for Rio Tinto, they provide the tools and resources to get the job done," she said. Peacey explained that she always enjoyed technical work, reclamation, and community issue. "The mining industry has allowed me to explore and gain experience in these areas."

While mining companies have been operating all over the world for decades,



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Taplin, Page 31

Peacey, Page 31



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Neal

Continued from Page 24 Etchells. Both the hauling business and the stage line began doing well. To give you an idea of how the hauling at the Mammoth Mine was done and how well Neal's business was doing, an article in the Mohave County Miner dated May 12, 1894 reported:

"One of the largest freighting outfits in the world is used in connection with the mill at the Mammoth property. The distance from the mine to the mill is three miles, all but half a mile down grade. Three teams move 145 tons of ore a day. Each team consists of twenty animals, and they draw four wagons. Three trips are made a

day, usually without doubling, though sometimes one or two wagons are taken off at the uphill half mile. The wagons are immense affairs, almost as big as box cars. The tires are from four to five inches wide and from an inch and a quarter to an inch and a half thick. Wm. Neal is one of the best businessmen in southern Arizona."

Besides hauling the ore at the Mammoth mine, Neal also transported gold bullion from the mine to a bank in Tucson on one of his wagons. He would take precautions changing the type of wagon, routes and delivery times each trip to avoid robbers. His wife Annie, known to be a crack shot, would sometimes ride

shotgun. During one transport in a canyon wash somewhere between Mammoth and Oracle, his wagon was caught in a raging flash flood. He was able to make it to safety but the wagon and mules were lost, so was the gold. So well known for his honesty, the mining company did not question that the gold was truly lost. Although many searched for it, the gold was never recovered.

An ad for Neal's stage line that appeared in the *Tucson Weekly Citizen* in the 1890s looked like this:

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Expressage by stage to Oracle 2 cents per pound.

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In 1894 construction on the Mountain View Hotel in Oracle began. Curly had it built for his wife Annie. It would have its grand opening in 1895. The Mountain View would become an internationally renowned resort. The hotel was said to have

Neal, Page 31

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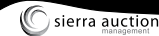
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AIMS / PVIC

Peacey

Continued from Page 28

much has changed in the way they operate, Peacey plays a key role in those industry changes at Resolution Copper. "Communities expect more, they expect a high degree of communication and they want assurances that regulations will be met." Rio Tinto the parent company of Resolution Copper embraces those expectations, she explained. "It's how we work. We work to gain and show trustworthiness."

Copper Area News, asked Peacey about what she sees in the future for the project, and Superior. Fifteen years from now she expects that the Southeast Arizona Land Exchange and Conservation act will be completed, the mine will be permitted and the

Taplin

Continued from Page 28

the local elected officials and community leaders throughout the region. "There are many great leaders in this state," he explained. "Arizona has a great pioneering spirit, that spirit built projects like the Roosevelt Dam, that same pioneering spirit will help us to build the largest copper mine in the United States."

The *Copper Area News*, asked Taplin what he envisioned for the project and Superior 15 years from now. He envisions a world class mine being developed near Superior which will provide local, regional and statewide opportunities. There will be high levels of local employment, procurement and mining service businesses located in Superior, due to the development of the mine. He also sees the company helping to support the growth of eco tourism projects that will help to further diversify the local economy.

company will be working with the Town of Superior on capacity issues such as having adequate housing for the mine employees and their families. "I look forward to seeing vibrancy and the hustle and bustle in the community, in a good way," she explained. In 30 years, she expects to see that the residents of Superior will see decreased tax bills, there will be opportunities for first rate education which is funded adequately. "I hope to see Superior as a sustainable community, with a vibrant diversified economy."

Neal

Continued from Page 30

cost \$90,000. The building that was once the Mountain View Hotel is now the Oracle Baptist Church on American Avenue. Neal was also successful in the ranching business, owning the 3-N Ranch. An article from the El Paso Herald newspaper dated November 3, 1915 reported "William Neal of Oracle, Arizona has closed a deal for the sale of 1,500 head of cattle to New Mexico cattlemen. This sale aggregates about \$40,000, and the cattle are now being shipped to New Mexico." Neal would die in an accident

in 1936. His contributions to the history of Mammoth and Oracle are noteworthy. Although mining was more successful in the Mammoth area, the mines around the Oracle area were important to its history. Neal delivered mail and supplies to many of the mining camps that sprouted up in the Catalina Mountains and brought investors and people with money to the area. Neal's knowledge of the area and his friendship with Buffalo Bill Cody brought Cody to Oracle. Cody would become involved in mining ventures in the area which also brought publicity for Oracle.

Editor's Note: The fourth part of the continuing story of the Superior Massacre will appear in next month's Nugget.

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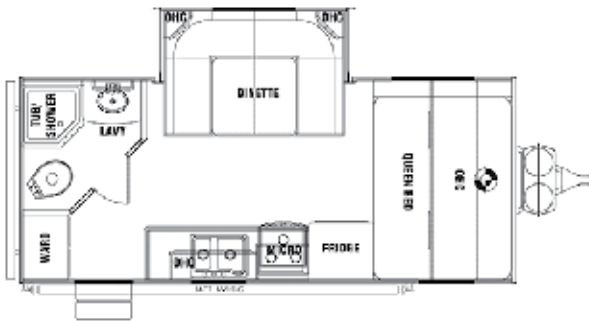
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