# Nevada Bureau of Mines and Geology SPECIAL PUBLICATION P-25

## Major Mines of Nevada 2013

## Mineral Industries in Nevada's Economy

By Rich Perry and Mike Visher
The Nevada Division of Minerals

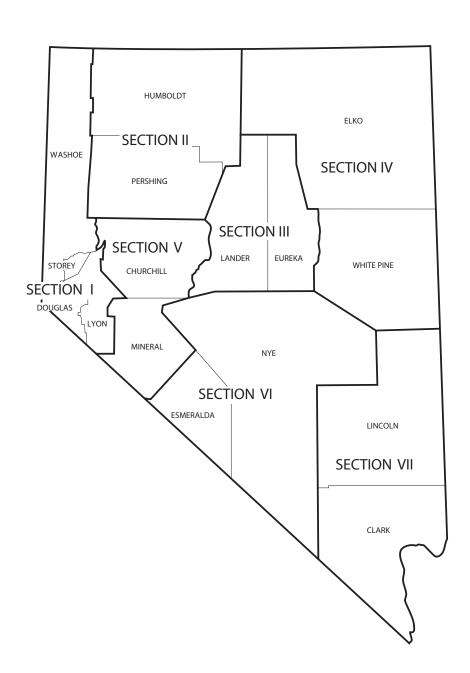
2014

This is the twenty-fifth of an annual series of summary reports on major mines of Nevada. Sand and gravel operations are not included. Information on employment and production for the calendar year 2013 was provided by the individual mine operators. The Nevada Division of Minerals maintains a complete register of Nevada mines. For further information, contact them at 400 W. King, Suite 106, Carson City, Nevada 89703 or call (775) 684-7040, fax (775) 684-7052, or visit their Web site at http://minerals.nv.gov.

College of Science
Mackay School of Earth Sciences and Engineering



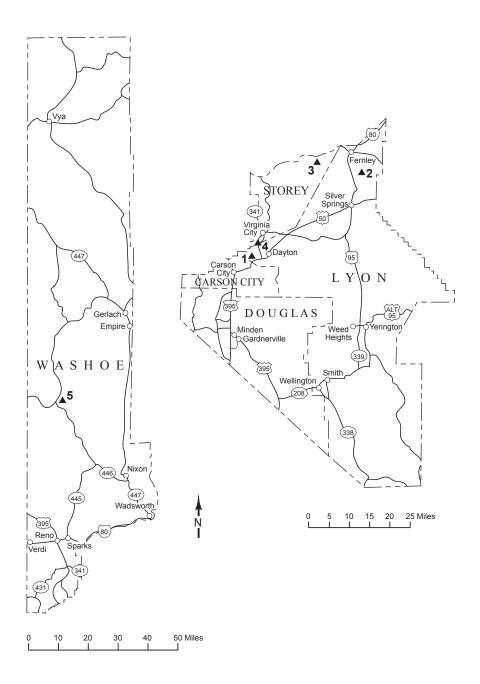
University of Nevada, Reno



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## Section I

### **Lyon County**

#### Adams Claim Gypsum Mine (1)

Operator:

Art Wilson Co. P.O. Box 20160 Carson City, NV 89721

775-882-0700 Fax: 882-0790 Company employees: 70

Contract employees: 1

Production:

Gypsum - 441,129 tons

Limestone

#### NCC Fernley Operations (2)

Operator:

Nevada Cement Co. P.O. Box 840 Fernley, NV 89408 775-575-2281 Fax: 575-4387 Company employees: 117

Production:

Limestone

#### **Storey County**

Clark Mine (3)

Operator:

EP Minerals, LLC 640 Clark Station Rd.

Sparks, NV 89434

775-824-7700 Fax: 824-7715 Company employees: 4 Contract employees: 9

Production:

Diatomite

#### Lucerne Mine (4)

Operator:

Comstock Mining, Inc.

P.O. Box 1118

Virginia City, NV 89440

775-847-5272 Fax: 800-750-5740

Company employees: 118 Contract employees: 15

Production:

Gold - 17,739 ounces

Silver - 186,482 ounces

## **Washoe County**

NCC Flanigan Mine (5)

Operator:

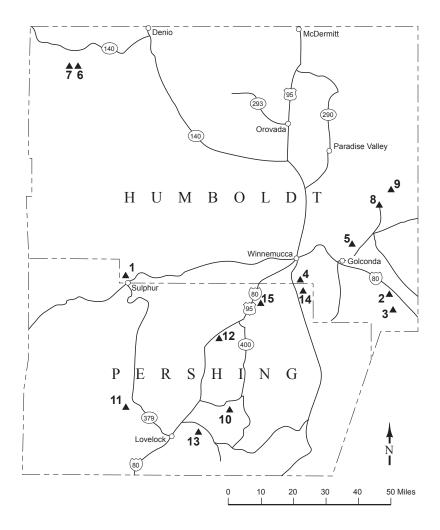
Nevada Cement Co. P.O. Box 840

Fernley, NV 89408

775-575-2281 Fax: 575-4387

Production:

Specialty Clays



## **Section II**

## **Humboldt County**

#### Hycroft Mine (1)

Operator:

Allied Nevada Gold P.O. Box 3030 Winnemucca, NV 89446 775-623-5260 Fax:623-0215 Company employees: 472 Contract employees: 165

#### Production:

Gold - 181,941 oz Silver - 858,073 oz

#### Lone Tree Complex (2)

Operator:

Newmont Mining Corp. P.O. Box 388 Valmy, NV 89438 775-738-4000

Company employees: 56 Contract employees: 55

Production:

Gold - 22,931 oz Silver - 4,970 oz

#### Marigold Mine (3)

Operator:

Goldcorp, Inc. P.O. Box 160

Valmy, NV 89438

775-635-2317 Fax: 635-2551

Company employees: 343 Contract employees: 17

Production:

Gold - 161,062 oz Silver - 3,394 oz

#### MIN-AD Mine (4)

Operator:

MIN-AD, Inc.

P.O. Box 39

Winnemucca, NV 89446

775-623-5944 Fax: 623-9028

Company employees: 13 Contract employees: 2

Production:

Dolomite

#### Pinson Mine (5)

Operator:

Atna Resources, Inc.

P.O. Box 969

Winnemucca, NV 89446

775-529-5026 Fax: 529-5030

Company employees: 2

Production:

Gold - 5,183 oz

#### **Rainbow Ridge Opal Mines (6)**

Operator:

Rainbow Ridge Opal Mines, Inc.

P.O. Box 97

Denio, NV 89404

775-941-0270 (summer)

Production:

Precious opal

#### **Royal Peacock Opal Mine (7)**

Operator:

Royal Peacock Opal Mine

P.O. Box 165

Denio, NV 89404

775-941-0364 (summer)

Production:

Precious opal

## **Turquoise Ridge Joint Venture (8)**

Operator:

Barrick Gold Corporation

2055 Getchell Mine Road Golconda, NV 89414

Golcolida, INV 69414

775-529-5001 Fax: 529-0752

Company employees: 417 Contract employees: 112

Production:

Gold - 223,189 oz

### Twin Creeks Mine (9)

Operator:

Newmont Mining Corp.

P.O. Box 69

Golconda, NV 89414

775-635-9400 Fax: 635-4602

Company employees: 558

Contract employees: 259

Production:

Gold - 406,847 oz

Silver - 88,184 oz

### **Pershing County**

#### Coeur Rochester Mine (10)

Operator:

Coeur Rochester, Inc.

P.O. Box 1057

Lovelock, NV 89419

775-273-7995 Fax: 273-7423

Company employees: 275

Contract employees: 44

Production:

Gold - 30.860 oz

Silver - 2,798,937 oz

#### Colado Mine (11)

Operator:

EP Minerals, LLC

P.O. Box 959

Lovelock, NV 89419

775-824-7591 Fax: 824-7595

Company employees: 30

Production:

Diatomite

#### Florida Canyon Mine (12)

Operator:

Jipangu Florida Canyon Mining, Inc.

P.O. Box 330

Imlay, NV 89418

775-538-7300 Fax: 538-7691

Company employees: 168

Contract employees: 56

Production:

Gold - 46,152 oz

Silver - 58,333 oz

#### Nassau Mine (13)

Operator:

American Colloid Company

P.O. Box 428

Lovell, WY 82431

307-548-5135 Fax: 548-6449

Contract employees: 1

Production:

Bentonite

### Sexton Mine (14)

Operator:

Nutritional Additives Corp.

415 Wellington St.

Winnemucca, NV 89445

775-623-1151 Fax: 623-1153

Company employees: 2

Production:

Dolomite

#### **Sunrise Gold Placer Mine (15)**

Operator:

Sunrise Minerals, LLC

7343 S. Alton Way, Suite 100

Centennial, CO 80112

303-779-1800 Fax: 303-770-1995

Company employees: 3

Production:

Gold - 133 oz

Silver - 36 oz



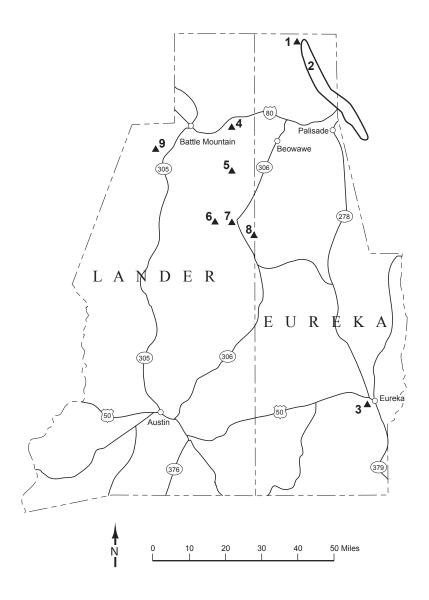
Marigold Mine (Rachel Wearne photo).



Marigold Mine (Rachel Wearne photo).



Marigold Mine (Rachel Wearne photo).



## Section III

#### **Eureka County**

#### **Betze-Post Mine (1)**

Operator:

Barrick Goldstrike Mines, Inc. P.O. Box 29

Elko, NV 89803

775-748-1001 Fax: 748-1240 Company employees: 1,036

Production:

Gold - 521,489 oz Silver - 86,124 oz

## Eastern Nevada Operations (Carlin Operations) (2)

Operator:

Newmont Mining Corp. 1655 Mountain City Highway Elko, NV 89801 775-778-4000 Fax: 778-4751

Company employees: 2,335 Contract employees: 710

Production:

Gold - 1,020,791 oz Silver - 221,256 oz

#### Ruby Hill Mine (3)

Operator:

Homestake Mining Co. P.O. Box 676 Eureka, NV 89316

775-237-6060 Fax: 237-5408 Company employees: 136 Contract employees: 6

Production:

Gold - 91,074 oz Silver - 76,283 oz



Remotely operated mucker at Newmont's Leeville Mine (Mike Visher photo).

#### **Lander County**

#### Argenta Mine (4)

Operator:

Baker Hughes Oilfield Operations, Inc.

P.O. Box 277

Battle Mountain, NV 89820

775-635-5441 Fax: 635-5455 Company employees: 27

Contract employees: 47

Shipped:

Barite - 150,802 tons

#### Fire Creek Mine (5)

Operator:

Klondex Gold and Silver Mining Co. 360 Western Mine Rd., Suite 1

Reno, NV 89506

775-284-5757

Company employees: 43 Contract employees: 41

Production:

Gold - 6,208 oz

#### **Greystone Mine (6)**

Operator:

M-I Swaco

P.O. Box 370

Battle Mountain, NV 89820 775-635-5135 Fax: 635-2645

Company employees: 43

Shipped:

Barite - 317,241 tons

#### Pipeline Mine (7)

Operator:

Barrick Cortez, Inc.

HC66 Box 1250

Crescent Valley, NV 89821

775-468-4400 Fax: 468-4496

Company employees: 1,017 Contract employees: 124

Production:

(includes the Cortez Hills open-pit)

Gold - 825,196 oz

Silver - 22,187 oz

### Cortez Hills Mine (8)

Operator:

Barrick Cortez, Inc.

HC66 Box 1250

Crescent Valley, NV 89821

775-468-4400 Fax: 468-4496

Company employees: 297

Contract employees: 66

Production:

(underground only, excluding the open-pit)

Gold - 545,852 oz

Silver - 13.666 oz

#### Phoenix Mine (9)

Operator:

Newmont Mining Corp.

P.O. Box 1657

Battle Mountain, NV 89820

775-635-6423 Fax: 635-6460

Company employees: 486

Contract employees: 312

Production:

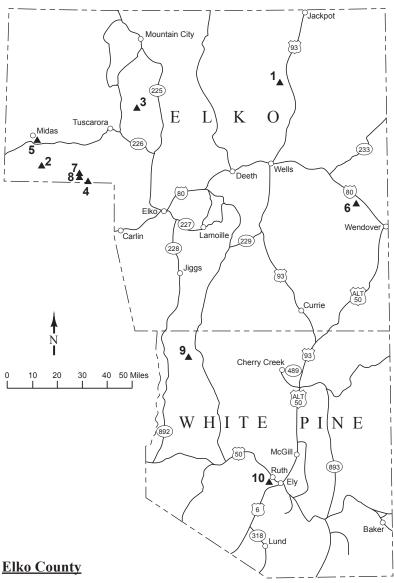
Gold - 202.055 oz

Silver - 1,550,346 oz

Copper - 29,815,908 pounds



Drilling rig at Ormat's McGinness Hills geothermal complex, Lander County (Mike Visher photo).



Big Ledge Mine (1)

Operator:

National Oilwell Varco 247 Bluffs Ave., Suite 101 Elko, NV 89801 775-738-7171 Fax: 738-7

775-738-7171 Fax: 738-7196 Company employees: 30 Contract employees: 4

Shipped:

Barite - 91,962 tons

Hollister Mine (2)

Operator:

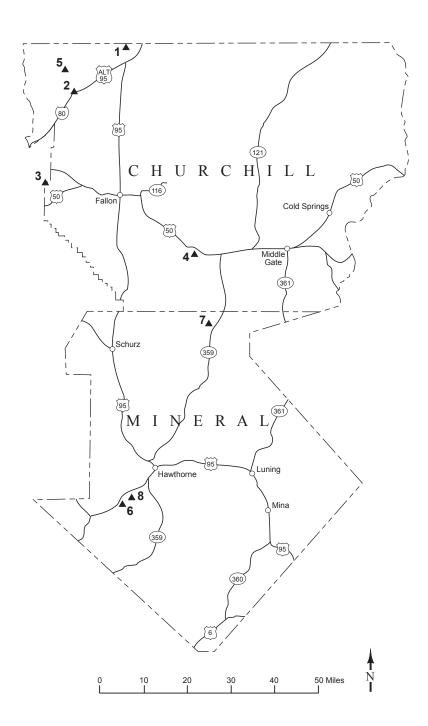
Waterton Global Mining Co., LLC 4000 W. Winnemucca Blvd. Winnemucca, NV 89446 775-623-5760 Fax: 623-5767 Company employees: 90 Contract employees: 10

Production:

Gold - 26,641 oz Silver - 88,628 oz

## **Section IV**

Jerritt Canyon Mine (3) Operator: Veris Gold USA, Inc. HC31 Box 78 Elko, NV 89801 775-738-5600 Fax: 758-9233 Company employees: 360 Contract employees: 130 Production: Gold - 139,556 oz  Meikle Mine (4) Operator: Barrick Goldstrike Mines, Inc. P.O. Box 29 Elko, NV 89803 775-748-1001 Fax: 748-1240 Company employees: 629 Production: Gold - 360,578 oz Silver - 58,352 oz  Midas Mine (5) Operator: Newmont Mining Corp. HC66 Box 125 Midas, NV 89414 775-635-6423 Fax: 635-6460 Company employees: 198 Contract employees: 61 Production: Gold - 52,195 oz Silver - 1,368,896 oz  Pilot Peak Quarry (6) Operator: Graymont Western U.S. P.O. Box 2520 West Wendover, NV 89883 775-483-5463 Company employees: 55 Production:	Storm Mine (8) Operator:  Barrick Goldstrike Mines, Inc. P.O. Box 29 Elko, NV 89803 775-748-1001 Fax: 748-1240 Company employees: 3 Production: Gold - 9,503 oz Silver - 15,575 oz  White Pine County Bald Mountain Mine (9) Operator: Barrick Gold U.S., Inc. P.O. Box 2706 Elko, NV 89803 775-237-7100 Fax: 237-7101 Company employees: 425 Contract employees: 13 Production: Gold - 95,497 oz Silver - 29,479 oz Silver - 29,479 oz  Robinson Mine (10) Operator: KGHM International, Ltd. P.O. Box 382 Ruth, NV 89319 775-289-7000 Fax: 289-7349 Company employees: 608 Contract employees: 40 Production: Copper - 107,898,857 pounds Gold - 47,452 oz Silver - 161,638 oz
Production: Limestone	Molybdenite - 1,384,649 pounds
Rossi Mine (7) Operator: Halliburton 912 Dunphy Ranch Rd. Battle Mountain, NV 89820 775-468-0515 Fax: 468-2060 Company employees: 16 Contract employees: 65 Shipped: Barite - 251,329 tons	



## **Section V**

## **Churchill County**

#### Churchill Mine (1)

Operator:

Nevada Cement Co. P.O. Box 840

Fernley, NV 89408

775-575-2281 Fax: 575-4387

Production:

Limestone

#### Fernley Operations (2)

Operator:

EP Minerals, LLC P.O. Box 860 Fernley, NV 89408

775-423-6668 Fax: 423-6411

Company employees: 36

Production:

Diatomite

#### Hazen Mine (3)

Operator:

EP Minerals, LLC 640 Clark Station Rd. Sparks, NV 89434 775-824-7700 Fax: 824-7715 Company employees: 2 Contract employees: 4

Production:

Diatomite

#### Huck Salt (4)

Operator:

Huck Salt Company 2900 Phritzie Ln. Fallon, NV 89406

775-423-2055 Fax: 423-0467

Company employees: 10

Production:

Salt - 19,564 tons

#### Nightingale Mine (5)

Operator:

Imerys Minerals California, Inc.

100 Front Street Fernley, NV 89408

775-575-2536 Fax: 575-1570

Company employees: 14 Contract employees: 5

Production:

Diatomite

#### **Mineral County**

#### **Borealis Mine (6)**

Operator:

Borealis Mining Company, LLC

P.O. Box 549

Hawthorne, NV 89415

775-341-0042

Company employees: 39 Contract employees: 2

Production:

Gold - 10,556 oz

Silver - 21,187 oz

#### **Denton-Rawhide Mine (7)**

Operator:

Rawhide Mining, LLC

P.O. Box 2070

Fallon, NV 89407

775-945-1015 Fax: 945-1213 Company employees: 64

Contract employees: 42

Production:

Gold - 23,900 oz

Silver - 305,000 oz

#### Lucky Boy Quarry (8)

Operator:

James Hardie Building Products, Inc.

P.O. Box 295

Goldfield, NV 89013

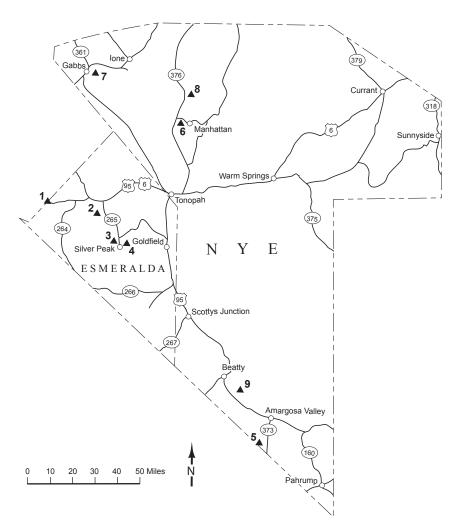
775-482-1176

Company employees: 1

Contract employees: 6

Production:

Silica sand - 38,521 tons



### **Esmeralda County**

#### Basalt Mine (1)

Operator:

Grefco Minerals, Inc. P.O. Box 278 Dyer, NV 89010

775-573-2422 Company employees: 14

Production:

Diatomite

### Blanco Mine (2)

Operator:

Vanderbilt Minerals, LLC P.O. Box 6660 Pahrump, NV 89041

775-537-6976 Fax: 537-6879 Company employees: 7

Production:

Specialty clays

## Section VI

#### Mineral Ridge Mine (3)

Operator:

Scorpio Gold (US) Corp. #1 Coyote Summit Silver Peak, NV 89047 702-799-9273 Fax: 775-753-4780

Company employees: 82 Contract employees: 22

Production:

Gold - 39,160 oz Silver - 14,975 oz

#### Silver Peak Operations (4)

Operator:

Rockwood Lithium, Inc. P.O. Box 98 Silver Peak, NV 89047 775-937-2222 Fax: 937-2250 Company employees: 75 Contract employees: 10

Production: Lithium compounds

Specialty clays

#### IMV Nevada (5)

**Nve County** 

Operator:

Lhoist North America of Arizona P.O. Box 86 Amargosa Valley, NV 89020 775-372-5341 Fax: 372-5230 Company employees: 30 Production: Manhattan Gulch Mine (6)

Operator:

A.U. Mines, Inc. P.O. Box 72 Manhattan, NV 89022 775-487-2465 Fax: 487-2467

Company employees: 32 Contract employees: 2

Production:

Gold - 93 oz Silver - 31 oz

#### Premier Magnesia (7)

Operator:

Premier Magnesia, LLC
P.O. Box 177
Gabbs, NV 89409
775-285-2601 Fax: 285-4021
Company employees: 98
Contract employees: 5
Production:

Magnesium compounds

**Smoky Valley Common Operation (8)** Operator:

Round Mountain Gold Corp.

P.O. Box 480 Round Mountain, NV 89045 775-377-2366 Fax: 377-3224 Company employees: 830

Contract employees: 150

Production:

Gold - 314,886 oz Silver - 636,564 oz

#### Sterling Mine (9)

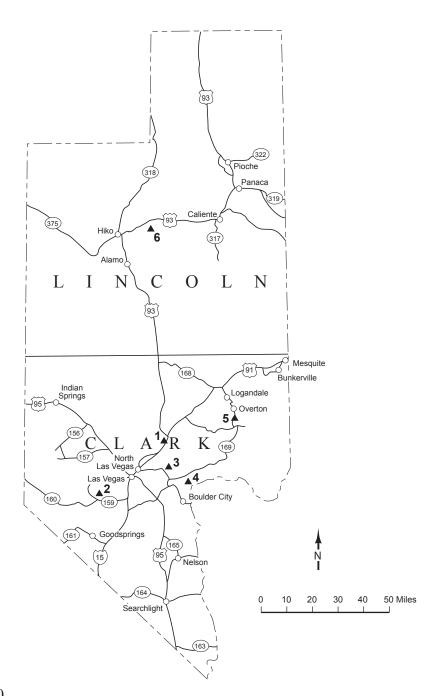
Operator:

Sterling Gold Mining Corp. P.O. Box 549 Beatty, NV 89003

866-608-4381 Fax: 775-981-9044 Company employees: 42

Production:

Gold - 7,500 oz



## **Section VII**

### **Clark County**

#### Apex Quarry (1)

Operator:

Lhoist North America P.O. Box 363068 North Las Vegas, NV 89156 702-643-7702 Fax: 643-9517 Company employees: 140

Contract employees: 20

Production:

Limestone

#### Blue Diamond Mine (2)

Operator:

Gypsum Resource Materials, LLC 8912 Spanish Ridge Ave., Ste. 200 Las Vegas, NV 89143 702-343-0795 Fax: 441-7148 Company employees: 40 Contract employees: 6

Production:

Gypsum - 30,000 tons Limestone

#### PABCO Gypsum Mine (3)

PABCO Building

Operator:

Products, LLC P.O. Box 364329 North Las Vegas, NV 89036 702-407-3700 Fax: 643-6249 Company employees: 145 Contract employees: 3

Production:

Gypsum - 1,177,633 tons

#### **Pioneer Gypsum Mine (4)**

Operator:

Pioneer Gypsum Mining, Inc. 4880 Donovan Way North Las Vegas, NV 89081 702-399-5939 Fax: 399-8353 Company employees: 101 Contract employees: 1

Production:

Gypsum - 155,535 tons

#### **Simplot Silica Products (5)**

Operator:

J.R. Simplot Company
P.O. Box 308
Overton, NV 89040
702-397-2667 Fax: 397-2798
Company employees: 44
Production:

Silica sand - 600,936 tons

## Lincoln County

#### **Tenacity Perlite Mine (6)**

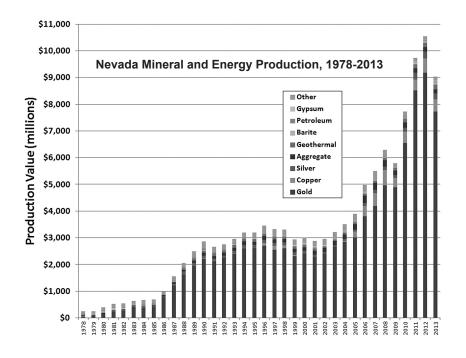
Operator:

Wilkin Mining & Trucking, Inc. HC 34 Box 199 Caliente, NV 89008 775-728-4463 Fax: 728-4456 Company employees: 8

Production: Perlite

## **Summary of 2013 production**

Gold	5,436,430	ounces	
Silver	8,668,596	ounces	
Barite (shipped)	811,334	tons	
Copper	137,714,765	pounds	
Diatomite (shipped)	262,551	tons	
Dolomite	44,445	tons	
Gypsum	1,834,297	tons	
Limestone	4,105,921	tons	
Lithium compounds	N/A		
Magnesium compour	nds N/A		
Molybdenite	1,384,649	pounds	
Perlite	N/A	•	
Salt	19,564	tons	
Silica sand	639,457	tons	
Specialty clay	47,967	tons	

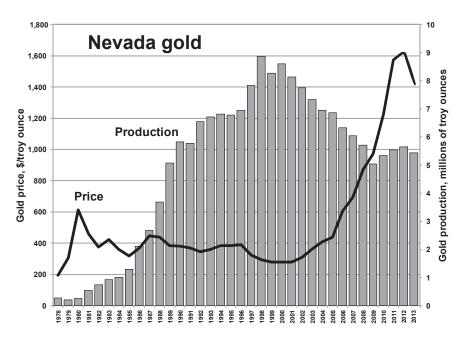


## Economic Impacts of Mining in Nevada—2013

Nevada's mining industry recorded approximately \$9.036 billion in total value of all mined commodities in 2013, representing a 13% decrease from the \$10.437 billion value in 2012. Nearly 90% of the value was driven by gold and silver, which contributed about \$8.1 billion, based on the actual gross proceeds reported to the Nevada Department of Taxation. According to Kitco Metals Inc. (www.kitco.com), the average prices for gold and silver in 2013 were \$1,411.23 and \$23.79 per troy ounce, respectively. Nevada led the nation in 2013 in the production of gold, barite, lithium compounds and magnesium compounds. Nevada produced a wide variety of other mineral and energy commodities such as clays, copper, diatomite, dolomite, geothermal energy, gypsum, lapidary and gem stones, limestone, molybdenite, oil, perlite, salt, silica sand, silver, and specialty aggregates.

#### **Production Highlights**

Nevada's gold production was 5,436,430 troy ounces in 2013 compared to 5,615,255 troy ounces in 2012, a decrease of approximately 3%. According to the USGS, Nevada remains the nation's top gold producer with about 75% of the U.S. total. Silver production increased slightly to 8,668,596 troy ounces in 2013 from 8,525,104 troy ounces in 2012. Copper production decreased to 137,714,765 pounds in 2013 compared to 145,318,737 pounds in 2012. Molybdenite production increased significantly to 1,384,649 pounds in 2013 compared to 493,093 pounds in 2012. Barite production increased slightly to 811,334 tons shipped in 2013 compared to 744,764 tons shipped in 2012. Gypsum production increased significantly to 1.834.297 tons in 2013 compared to 1,481,716 tons in 2012.



#### **Employment**

According to the Nevada Department of Employment, Training, and Rehabilitation, the Nevada mining industry employed an average of 15,323 employees in 2013. The average pay for mineral industry employees during this time was \$87,335 per year, the highest average of any employment sector in the state. Mining employment has remained an important factor in Nevada.

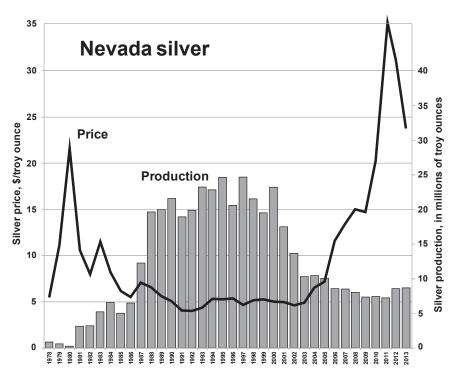
#### **Permitting and Reclamation**

Before mining can take place, plans of operation must be submitted and permits must be obtained from federal and state agencies to ensure that resources such as wildlife, air, and water are protected. Nevada and federal laws and regulations require that lands disturbed by mining activities must be rehabilitated so they can be used for other activities once mining is completed. This process,

called reclamation, returns mined areas to other productive uses such as livestock grazing, wildlife habitat, or other industrial applications. To ensure that reclamation is done, mine operators are required to post reclamation bonds that are held by government agencies. The bonds are released only after the mined area is stabilized and the reclamation goals have been met. According to the Nevada Division of Environmental Protection, approximately \$2.35 billion in reclamation financial assurance is currently in place. Mine operators are proud of their efforts and are constantly seeking ways to enhance their reclamation technology.

#### **Gold Reserves**

Gold reserves are defined as that portion of a gold ore deposit known to be economically feasible for extraction. Total reserves are always in a state

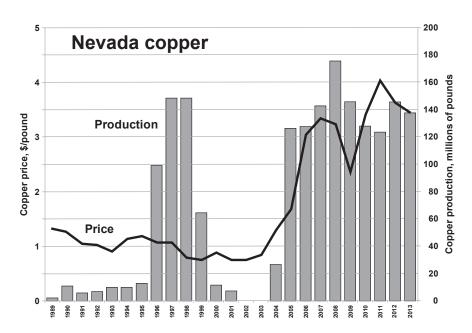


of flux, due to some reserves being mined and additions of new reserves through near mine exploration and new discoveries, and changes in commodity prices and operating costs. The ore grade, price of gold, and cost of production are the main factors in determining a reserve or resource. Extensive gold resources, not currently economic, are known to exist at or near many mining operations in Nevada. An increase in the gold price, with all else being equal, would mean many companies would be able to reclassify their resources into a reserve category. An increase in taxes or the cost of regulatory compliance has the same effect as increasing operating cost, which reduces reserves. Under current conditions, the existing publicallyreported reserves are sufficient to sustain gold production at current levels in Nevada for about 12-15 years.

#### **Exploration**

Exploration for new deposits, particularly gold, is an ongoing effort by both

the operating companies and many others who do not operate mines in the state. Periodically, the Division of Minerals conducts an exploration survey to determine the level of exploration activity and the factors that are responsible for those levels. 2012, the Division expanded the scope of the survey and contracted the work to the Nevada Bureau of Mines and Geology, who released the results of their survey in early 2013 using 2011 data. This informative report, which can be downloaded at http://www. nbmg.unr.edu/dox/es2011.pdf, revealed that gold exploration accounted for 80 to 90 percent of total exploration spending. Two large companies accounted for 25 to 30 percent of the spending. Approximately 1,040 people were employed by companies doing exploration activities in Nevada in 2011. Exploration geologists, drillers, assavers, and others who support exploration activities represent a significant positive economic impact, particularly in Nevada's rural areas.



Exploration activity and funding, like gold reserves, are closely tied to economic conditions and commodity prices. The amount of exploration activity in 2013 decreased from 2012, largely due to declining gold prices, which ranged from a high of \$1,791.50 in 2012 to a low of \$1,192.00 in 2013.

#### Minerals Other Than Gold and Silver

Minerals other than gold and silver are also important to Nevada's economy. Copper ranked second behind gold in terms of value in 2013. Important industrial minerals such as barite, diatomite, dolomite, gypsum, limestone, lithium compounds, magnesite, molybdenite, perlite, salt, and specialty clays are also produced in Nevada. There was renewed exploration activity in a variety of industrial minerals and base metals, including, barite, copper, fluorspar, iron, lithium, molybdenum, and vanadium.

Economic activity from oil and gas exploration and production is relatively minor when compared to mining, but are locally important to the economy of east-central Nevada. Although oil has been produced since 1954, Nevada is still considered a frontier exploration state. Several companies have leased land positions in eastern and central Nevada, targeting unconventional shale oil plays which would require the use of hydraulic

fracturing. At the end of 2013, there were nine permits for oil exploration which included the potential use of hydraulic fracturing. Total production in 2013 was 336,672 barrels (42 gallons per barrel) worth approximately \$31.5 million.

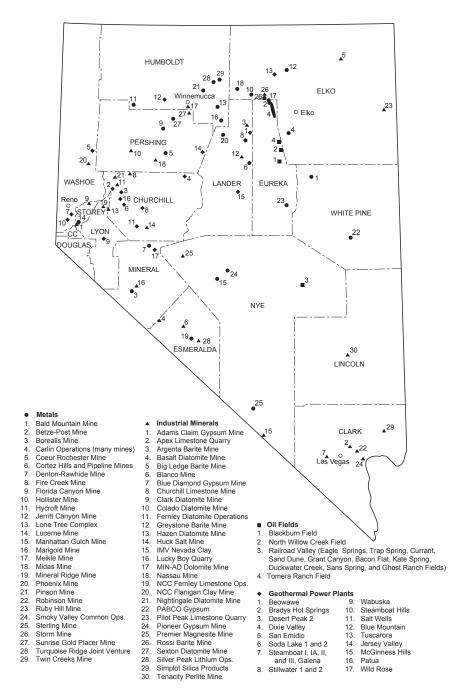
Nevada is rich in geothermal resources and is second only to California in the production of geothermal energy. For 2013, Nevada had 22 plants at 17 sites that sold approximately 2.6 million megawatt hours of electricity. This is enough to power about 240,000 typical homes for a year. Geothermal heat is also used for a variety of commercial, domestic and public applications in Nevada. Schools in Elko County, a casino in Washoe County and homes in Lincoln and Washoe counties are examples of public and private facilities using this renewable energy resource.

#### Conclusion

Nevada's mineral industry continued to be a major economic contributor with gross production of over \$9 billion in 2013 and directly employing over 15,000 workers. Nevada's favorable geology, availability of federal lands for exploration, stable regulatory and tax climate, trained workforce, and natural resources infrastructure will continue to attract investment and should provide economic development into the future.



Round Mountain Gold Corporation, Nye County (Robert Ghiglieri photo).



Major mines, oil fields, and geothermal plants, 2013.

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