Nevada Bureau of Mines and Geology SPECIAL PUBLICATION P-26

Major Mines of Nevada 2014

Mineral Industries in Nevada's Economy

By Rich Perry and Mike Visher The Nevada Division of Minerals

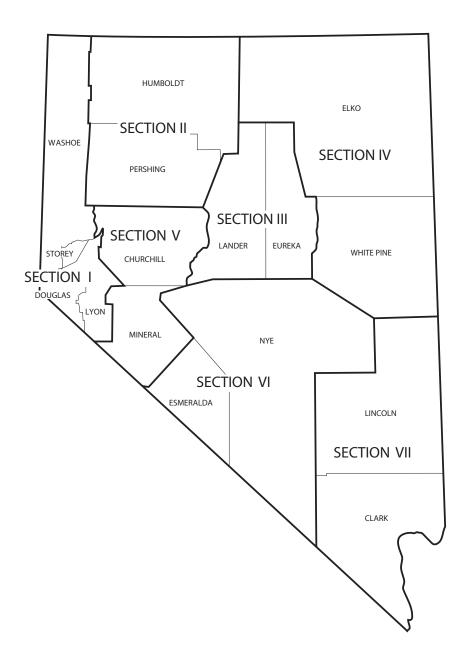
2015

This is the twenty-sixth 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 2014 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



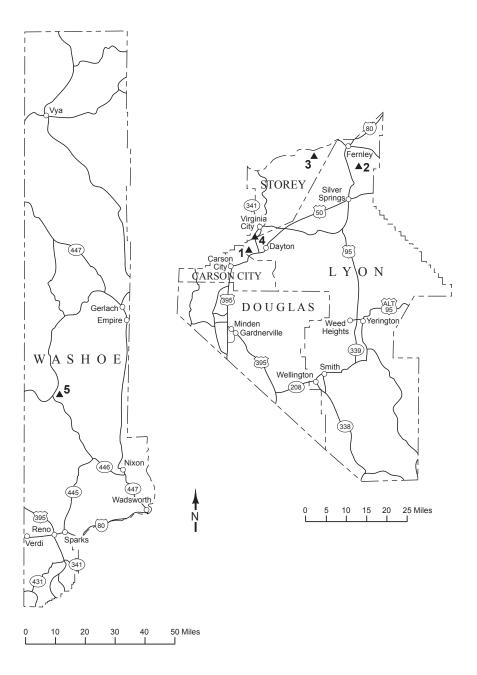
University of Nevada, Reno



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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: 82 Production: Gypsum - 479,563 tons

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 - 120,600 tons

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 - 87,193 tons

Lucerne Mine (4)

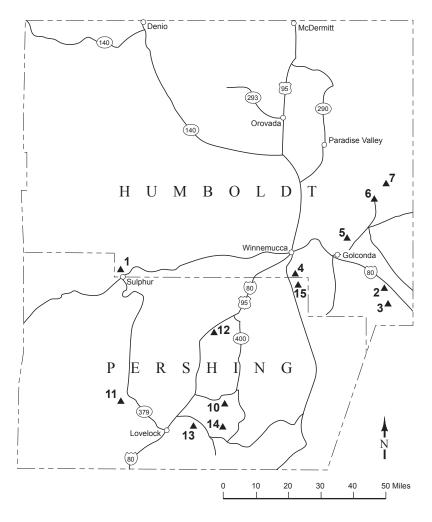
Operator: Comstock Mining, Inc. P.O. Box 1118 Virginia City, NV 89440 775-847-5272 Fax: 847-4762 Company employees: 114 Contract employees: 15 Production: Gold - 19,601 oz Silver - 222,416 oz

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 - 17,531 tons



Clark Mine, Storey County (Rich Perry photo).



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: 370 Contract employees: 84 Production: Gold - 214,345 oz Silver - 1,818,637 oz Lone Tree Complex (2) Operator: Newmont Mining Corp. P.O. Box 388 Valmy, NV 89438 775-738-4000 Company employees: 53 Contract employees: 65 Production: Gold - 21,702 oz Silver - 920 oz

Marigold Mine (3)

Operator: Silver Standard Resources, Inc. P.O. Box 160 Valmy, NV 89438 775-635-2317 Fax: 635-2551 Company employees: 355 Contract employees: 16 Production: Gold - 162,382 oz Silver - 3,085 oz

MIN-AD Mine (4)

Operator: MIN-AD, Inc. P.O. Box 39 Winnemucca, NV 89446 775-623-5944 Fax: 623-9028 Company employees: 16 Production: Dolomite - 40,794 tons (shipped)

Pinson Mine (5)

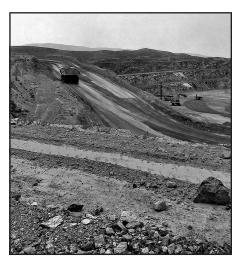
Operator: Atna Resources, Inc. P.O. Box 969 Winnemucca, NV 89446 775-529-5026 Fax: 529-5030 Company employees: 4 Contract employees: 14 Production: Gold - 3,780 oz

Turquoise Ridge Joint Venture (6) Operator: Barrick Gold Corporation 2055 Getchell Mine Road

2055 Getchell Mine Road Golconda, NV 89414 775-748-3172 Fax: 748-3125 Company employees: 453 Contract employees: 120 Production: Gold - 259.345 oz

Twin Creeks Mine (7)

Operator: Newmont Mining Corp. P.O. Box 69 Golconda, NV 89414 775-635-9400 Fax: 635-4602 Company employees: 511 Contract employees: 279 Production: Gold - 385,169 oz Silver - 252,836 oz



Marigold Mine, Humboldt County (Rachel Micander photo).

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: 295 Contract employees: 44 Production: Gold - 44,887 oz Silver - 4,189,071 oz

Colado Mine (11)

Operator: EP Minerals, LLC P.O. Box 959 Lovelock, NV 89419 775-824-7591 Fax: 824-7595 Company employees: 35 Production: Diatomite - 228,236 tons

Florida Canyon Mine (12)

Silver - 79,231 oz

Operator: Jipangu Florida Canyon Mining, Inc. P.O. Box 330 Imlay, NV 89418 775-538-7300 Fax: 538-7691 Company employees: 147 Contract employees: 59 Production: Gold - 40,311 oz

Nassau Mine (13)

Operator: American Colloid Company P.O. Box 428 Lovell, WY 82431 307-548-6521 Fax: 548-6449 Contract employees: 1 Production: Bentonite - 1,500 tons

Relief Canyon Mine (14)

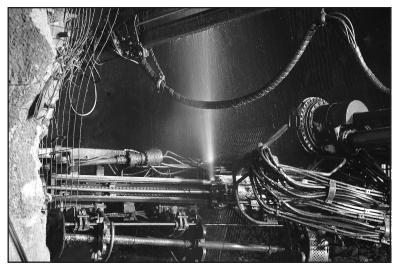
Operator: Nevada Cement Company P.O. Box 840 Fernley, NV 89408 775-575-2281 Company employees: 6 Production: Limestone - 38,948 tons

Sexton Mine (15)

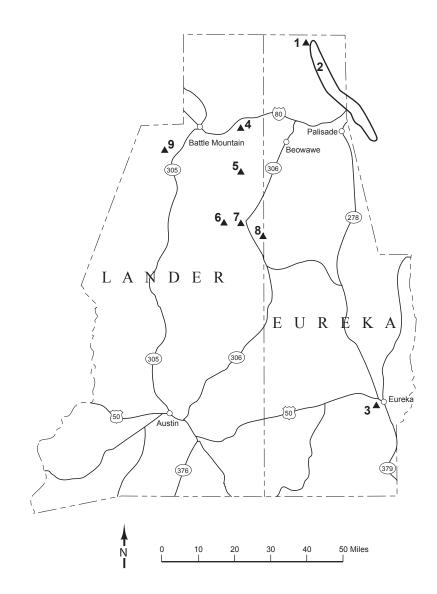
Operator: Nutritional Additives Corp. 415 Wellington St. Winnemucca, NV 89445 775-623-1151 Fax: 623-1153 Company employees: 2 Production: Dolomite - 1,739 tons



Meikle Mine, Elko County (Mike Visher photo).



Rock bolting rig, Meikle Mine, Elko County (Mike Visher 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: 1,079 Contract employees: 1,561 Production: Gold - 515,641 oz Silver - 17,993 oz

Eastern Nevada Operations (Carlin Operations) (2)

Operator:

Newmont Mining Corp. 1655 Mountain City Highway Elko, NV 89801 775-778-4000 Fax: 778-4360 Company employees: 2,495 Contract employees: 538

Production:

Gold - 907,282 oz Silver - 76,614 oz

Ruby Hill Mine (3)

Operator: Homestake Mining Co. P.O. Box 676 Eureka, NV 89316 775-237-6060 Fax: 237-5408 Company employees: 26 Contract employees: 37 Production: Gold - 33,124 oz Silver - 65,020 oz



Rock bolting rig, Newmont's Leeville Mine, Eureka County (Rachel Micander photo).

Lander County

Argenta Mine (4)

Operator: Baker Hughes, Inc. P.O. Box 277 Battle Mountain, NV 89820 775-635-5441 Fax: 635-5455 Company employees: 23 Contract employees: 14 Shipped: Barite - 150,713 tons

Fire Creek Mine (5)

Operator: Klondex Mines 2720 Ruby Vista Dr., Ste. 102 Elko, NV 89801 775-738-6070 Fax: 738-6050 Company employees: 55 Contract employees: 30 Production: Gold - 65,655 oz Silver - 62,911 oz

Greystone Mine (6)

Operator: M-I Swaco P.O. Box 370 Battle Mountain, NV 89820 775-635-5135 Fax: 635-2645 Company employees: 67 Shipped:

Barite - 301,180 tons

Pipeline Mine (7)

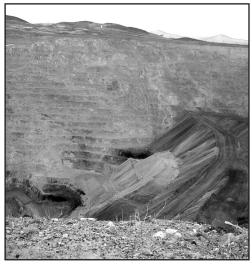
Operator: Barrick Cortez, Inc. HC66 Box 1250 Crescent Valley, NV 89821 775-468-4400 Fax: 468-4496 Company employees: 997 Contract employees: 485 Production: (includes the Cortez Hills open-pit) Gold - 506,274 oz Silver - 17,739 oz

Cortez Hills Mine (8)

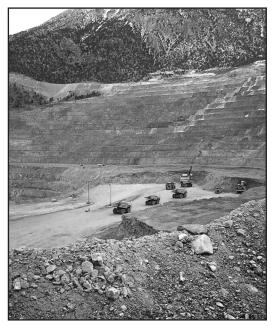
Operator: Barrick Cortez, Inc. HC66 Box 1250 Crescent Valley, NV 89821 775-468-4400 Fax: 468-4496 Company employees: 269 Contract employees: 130 Production: (underground only, excluding the open-pit) Gold - 395,093 oz Silver - 13.464 oz

Phoenix Mine (9)

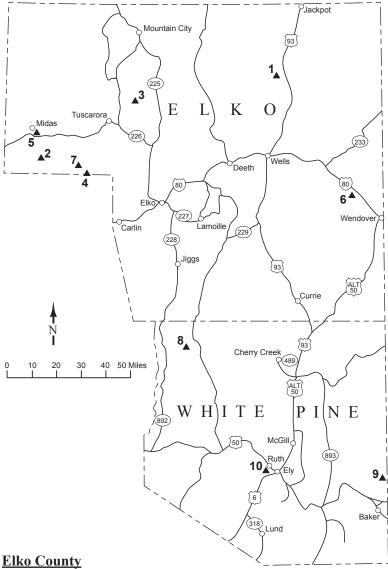
Operator: Newmont Mining Corp. P.O. Box 1657 Battle Mountain, NV 89820 775-635-6423 Fax: 635-6460 Company employees: 494 Contract employees: 330 Production: Gold - 189,474 oz Silver - 1,653,459 oz Copper - 46,014,331 pounds



Pipeline Mine, Lander County (Axel Loehden photo).



Cortez Hills Mine, Lander County (Axel Loehden photo).



Big Ledge Mine (1) Operator: National Oilwell Varco 247 Bluffs Ave., Suite 101 Elko, NV 89801 775-738-7171 Fax: 738-7196 Company employees: 20 Contract employees: 4 Shipped: Barite - 96,919 tons

Hollister Mine (2) Operator: Carlin Resources, LLC 905 Railroad St., Ste. 101 Elko, NV 89801 775-623-5760 Fax: 623-5759 Company employees: 10 Contract employees: 12 Production: Gold - 2,342 oz Silver - 9,433 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: 264 Contract employees: 175 Production: Gold - 160,921 oz Silver - 7,273 oz

Meikle Mine (4)

Operator: Barrick Goldstrike Mines, Inc. P.O. Box 29 Elko, NV 89803 775-748-1001 Fax: 748-1240 Company employees: 630 Contract employees: 912 Production: Gold - 386,679 oz

Silver - 15,707 oz

Midas Mine (5)

Operator: Klondex Mines 2720 Ruby Vista Dr., Ste. 102 Elko, NV 89801 775-738-6070 Fax: 738-6050 Company employees: 55 Contract employees: 30 Production: *Gold - 21,984 oz *Silver - 1,489,149 oz * includes 1 month of production with

Newmont as operator

Pilot Peak Quarry (6)

Operator: Graymont Western U.S. P.O. Box 2520 West Wendover, NV 89883 775-483-5463 Company employees: 55 Production: Limestone - 1,726,619 tons

Rossi Mine (7)

Operator: Halliburton Energy Services 912 Dunphy Ranch Rd. Battle Mountain, NV 89820 775-468-0515 Fax: 468-2060 Company employees: 20 Contract employees: 65 Shipped: Barite - 258,464 tons

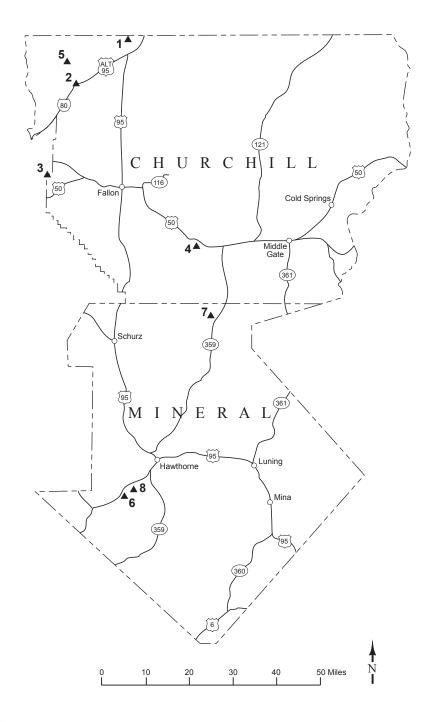
White Pine County

Bald Mountain Mine (8) Operator: Barrick Gold U.S., Inc. P.O. Box 2706 Elko, NV 89803 775-237-7100 Fax: 237-7101 Company employees: 446 Contract employees: 171 Production: Gold - 161,036 oz Silver - 48,240 oz Mt. Moriah Quarry (9) Operator: Mt. Moriah Stone Quarries

#10 Hatch Rock Rd. Baker, NV 89311 435-855-2232 Fax: 855-2332 Company employees: 33 Production: Quartzite - 8,257 tons

Robinson Mine (10)

Operator: KGHM International, Ltd. P.O. Box 382 Ruth, NV 89319 775-289-7000 Fax: 289-7349 Company employees: 605 Contract employees: 12 Production: Copper - 86,601,987 pounds Gold - 26,303 oz Molybdenite - 741,717 pounds



Section V

Churchill County

Churchill Mine (1)

Operator: Nevada Cement Co. P.O. Box 840 Fernley, NV 89408 775-575-2281 Fax: 575-4387 Company employees: 6 Production: Limestone - 564,241 tons

Fernley Operations (2)

Operator: EP Minerals, LLC P.O. Box 860 Fernley, NV 89408 775-423-6668 Fax: 423-6411 Company employees: 35 Production: Diatomite - 32,401 tons

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 - 4.189 tons

Huck Salt (4)

Operator: Huck Salt Company 2900 Phritzie Ln. Fallon, NV 89406 775-423-2055 Fax: 423-0467 Company employees: 10 Production: Salt - 14,217 tons

Nightingale Mine (5)

Operator: Imerys Minerals California, Inc. 100 Front Street Fernley, NV 89408 775-575-2536 Fax: 575-1570 Company employees: 15 Contract employees: 6 Production: Diatomite - 25,300 tons

Mineral County

Borealis Mine (6)

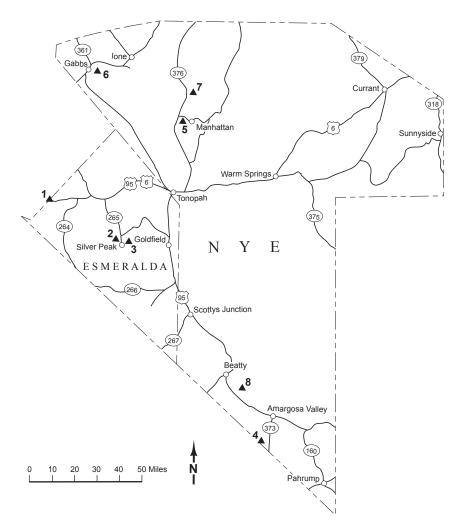
Operator: Borealis Mining Company, LLC P.O. Box 549 Hawthorne, NV 89415 775-341-0042 Company employees: 40 Contract employees: 1 Production: Gold - 10,859 oz Silver - 35,133 oz

Denton-Rawhide Mine (7)

Operator: Rawhide Mining, LLC P.O. Box 2070 Fallon, NV 89407 775-945-1015 Fax: 945-1213 Company employees: 62 Contract employees: 30 Production: Gold - 28,446 oz Silver - 256,138 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: 1 Production: Silica sand - 15,338 tons



Esmeralda County

Basalt Mine (1) Operator: Grefco Minerals, Inc. P.O. Box 278 Dyer, NV 89010 775-573-2422 Company employees: 15 Production: Diatomite - 5,796 tons

Section VI

Mineral Ridge Mine (2)

Operator: Mineral Ridge Gold, LLC 1515 7th St. Elko, NV 89801 702-799-9273 Fax: 775-753-4780 Company employees: 92 Contract employees: 20 Production: Gold - 40,814 oz Silver - 18,182 oz

Silver Peak Operations (3)

Operator: Rockwood Lithium, Inc. P.O. Box 98 Silver Peak, NV 89047 775-937-2222 Fax: 937-2250 Company employees: 72 Contract employees: 10 Production: Lithium compounds - 9,430,641 lbs

Nye County

IMV Nevada (4) Operator: Lhoist North America of Arizona P.O. Box 86 Amargosa Valley, NV 89020 775-372-5341 Fax: 372-5320 Company employees: 38 Production: Specialty clays - 28,436 tons Manhattan Gulch Mine (5) Operator: A.U. Mines, Inc. P.O. Box 72 Manhattan, NV 89022 775-487-2465 Fax: 487-2467 Company employees: 35 Contract employees: 1 Production: Gold - 1,230 oz Silver - 419 oz

Premier Magnesia (6)

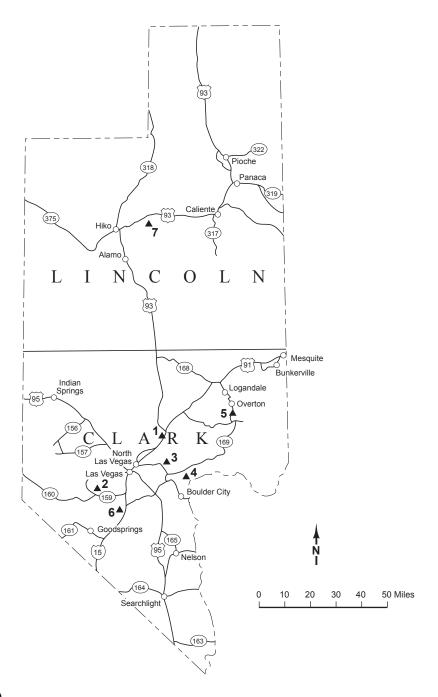
Operator: Premier Magnesia, LLC P.O. Box 177 Gabbs, NV 89409 775-285-2601 Fax: 285-4021 Company employees: 96 Contract employees: 12 Production: Magnesium compounds - 103,304 tons

Smoky Valley Common Operation (7)

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 - 330,071 oz Silver - 580.685 oz

Sterling Mine (8)

Operator: Sterling Gold Mining Corp. P.O. Box 549 Beatty, NV 89003 866-608-4381 Fax: 775-981-9044 Company employees: 32 Production: Gold - 5,700 oz



Section VII

Clark County

Apex Quarry (1)

Operator: Lhoist North America 12101 N. Las Vegas Blvd. North Las Vegas, NV 89165 702-643-7702 Fax: 643-9517 Company employees: 140 Contract employees: 15 Production: Limestone - 1,475,742 tons Dolomite - 303,430 tons

Blue Diamond Hill Mine (2)

Operator: Gypsum Resource Materials, LLC P.O. Box 147 Blue Diamond, NV 89004 702-875-1899 Fax: 441-7148 Company employees: 43 Contract employees: 18 Production: Gypsum - 1,116,784 tons Limestone - 2,996,684 tons

PABCO Gypsum Mine (3)

Operator: PABCO Building Products, LLC P.O. Box 364329 North Las Vegas, NV 89036 702-407-3700 Fax: 643-6249 Company employees: 160 Contract employees: 4 Production: Gypsum - 1,137,216 tons

Pioneer Gypsum Mine (4)

Operator: Pioneer Gypsum Mining, Inc. 4880 Donovan Way North Las Vegas, NV 89031 702-399-5939 Fax: 399-8353 Company employees: 8 Contract employees: 1 Production: Gypsum - 66,185 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: 43 Production: Silica sand - 734,667 tons

Sloan Quarry (6)

Operator: Aggregate Industries - SWR, Inc. 5300 Sloan Rd. Sloan, NV 89054 702-914-2689 Company employees: 35 Production: Limestone - 1,500,000 tons

Lincoln County

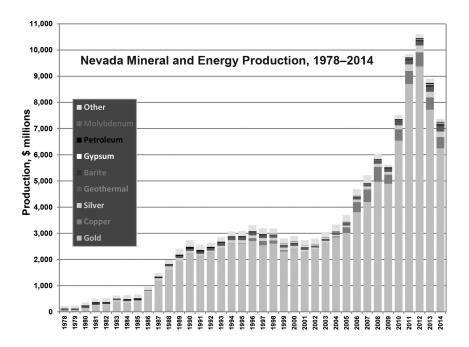
Tenacity Perlite Mine (7) Operator:

Wilkin Mining & Trucking, Inc. HC 34 Box 199 Caliente, NV 89008 775-728-4463 Company employees: 8 Production: Perlite - 1,784 tons



PABCO Gypsum Mine, Clark County (Rich Perry photo).

Summary of 2014 production

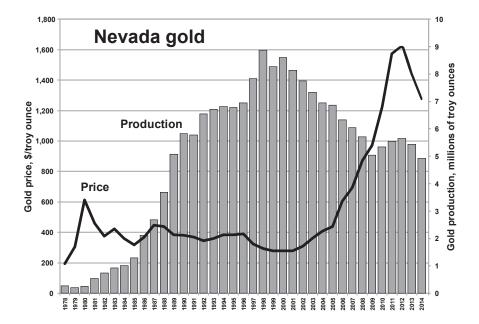


Economic Impacts of Mining in Nevada—2014

Nevada's mining industry recorded approximately \$7.368 billion in total value of all mined commodities (excluding construction aggregates, sand, and gravel) in 2014, representing a 20% decrease from the \$9.036 billion value in 2013. Nearly 91% of the value was driven by gold and silver, which contributed just over \$6.5 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 2014 were \$1,266.40 and \$19.08 per troy ounce, respectively. The value from the production of construction aggregates, sand and gravel in 2014 was estimated to be in excess of \$300M. Nevada led the nation in 2014 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 4,940,540 troy ounces in 2014 compared to 5,436,430 troy ounces in 2013, a decrease of approximately 9%. According to the USGS, Nevada remains the nation's top gold producer with about 73% of the U.S. total. Silver production increased 26% to 10,933,774 troy ounces in 2014 from 8,668,596 troy ounces in 2013. Copper production decreased slightly to 132,616,318 pounds in 2014 compared to 137,714,765 pounds in 2013. Molybdenite production decreased significantly to 741,717 pounds in 2014 compared to 1,384,649 pounds in 2012. Barite production decreased



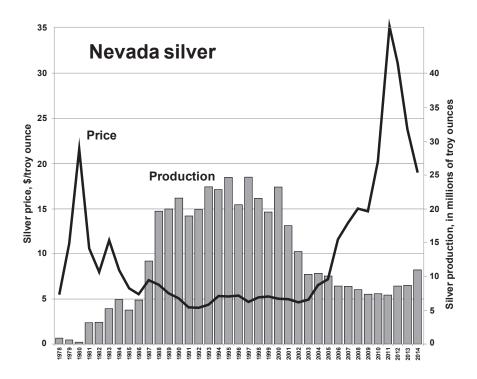
slightly to 807,597 tons shipped in 2014 compared to 811,334 tons shipped in 2013. Gypsum production increased significantly to 2,803,848 tons in 2014 compared to 1,834,297 tons in 2013.

Employment

According to the Nevada Department of Employment, Training, and Rehabilitation, the Nevada mining industry employed an average of 14,413 employees in 2014. The average pay for mineral industry employees during this time was \$88,634 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 \$2.49 billion in reclamation bonds and other financial assurance are currently posted. Mine operators are proud of their efforts and are constantly seeking ways to enhance their reclamation technology.

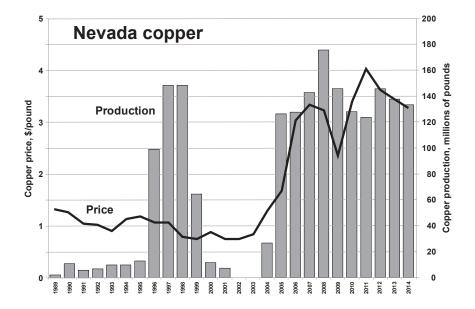


Gold Reserves

Gold reserves are defined as that portion of a gold ore deposit known to be economically feasible for extraction. The amount of reserves is always in a state of flux, due to some reserves being lost to production, additions of new reserves through new discoveries, and changing economic conditions. The price of gold and the cost of production are the main factors in determining whether a reserve is really a reserve or just a sub-economic 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 the cost of regulatory compliance has the same effect as a lowering of the gold price, thus increasingly complex and expensive regulations can reduce reserves. The publically reported reserves, at 2014 year end, were in excess of 73 million ounces of gold, and assuming similar economic conditions, are sufficient to sustain gold production near 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. Exploration geologists, drillers, assayers, 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 2014 decreased from 2013, largely due to declining gold prices, which ranged from a high of \$1,693.75 in 2013 to a low of \$1.142.00 in 2014.



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 2014. Industrial minerals such as barite, diatomite, dolomite, gypsum, limestone, lithium compounds, magnesite, molybdenite, perlite, salt, and specialty clays are also produced in Nevada.

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. In oil field terms, Nevada is considered a frontier state, meaning its potential is yet to be realized. Interest is growing in some new unconventional targets and exploration activity increased in 2014. Oil production in 2014 was 316,426 barrels (42 gallons per barrel), with 311,910 barrels sold worth approximately \$26.9 million.

Nevada is rich in geothermal resources and is second only to California in the production of geothermal energy. For 2014, Nevada had 22 plants at 16 fields that sold approximately 2.7 million megawatt hours of electricity worth approximately \$204 million. According to the U.S. Energy Information Association, this is enough to power about 244,000 Nevada residential 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

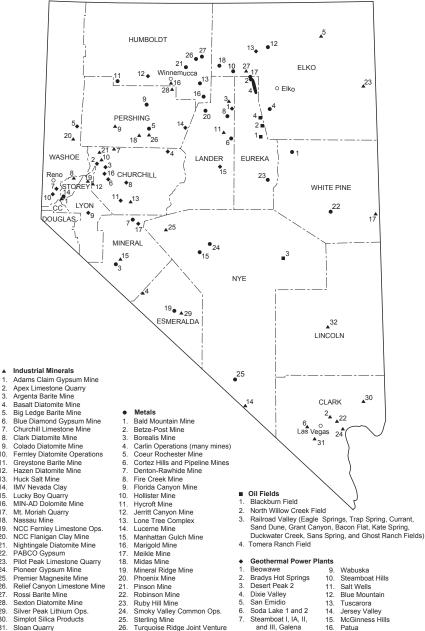
Nevada's mineral industry continued to be a major economic force in the state with a total value of over \$7 billion in 2014. Given a stable price and regulatory environment this situation should continue for many years to come. Nevada is a major natural resource producer and has significant mineral and energy resources that can provide strong economic development into the future.



Oil well, Pine Valley, Eureka County (Mike Visher photo).

> U.S. Geothermal's San Emidio plant, Washoe County ▼ (Mike Visher photo).





Sloan Quarry 31

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Cortez Hills Mine, Lander County (Rich Perry photo).