Major Mines of Nevada 1998

Mineral Industries in Nevada's Economy
NEVADA COMMISSION ON MINERAL RESOURCES
Division of Minerals

The Nevada Division of Minerals, a part of the Commission on Mineral Resources, is responsible for administering programs and activities to promote, advance, and protect mining and the development and production of petroleum and geothermal resources in Nevada. The Division’s mission is to conduct activities to further the responsible development and production of the State’s mineral resources to benefit and promote the welfare of the people of Nevada. The seven-member Commission on Mineral Resources is a public body appointed by the Governor and directs mineral-related policy for the Division and advises the Governor and Legislature on matters relating to mineral resources. The Division focuses its efforts on three main areas: Industry relations and public affairs; regulation of oil, gas, and geothermal drilling activities and well operations; and abandoned mine lands.

The agency is involved in a wide array of activities relating to mineral development. Staff compiles annual data on all active mines in Nevada and maintains the State’s mine registry. Information concerning mining operations and production is made available to the public through this yearly publication. Educational documents and materials concerning many aspects of the minerals industry are also produced. The Division participates in governmental activities affecting policies and laws concerning the minerals industry and resource development. The Division administers the State’s reclamation bond pool.

The Division is responsible for permitting, inspecting, and monitoring all oil, gas, and geothermal drilling activities on both public and private lands in Nevada. Staff also monitors production of oil, gas, and geothermal resources to insure proper management and conservation. The Administrator is the Governor’s Official Representative to the Interstate Oil and Gas Compact Commission.

The Division’s abandoned mine lands program provides for public safety by identifying and ranking dangerous conditions at mines that are no longer operating, and by securing dangerous orphaned mine openings. The program continually urges the public to recognize and avoid hazardous abandoned mines.

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1999

This is the tenth 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 1998 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) 687-5050, or visit their Web site at www.state.nv.us/minerals.
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### Lyon County

**Adams Claim Gypsum Mine (1)**
- Operator: Art Wilson Co.
  - P.O. Box 1160
  - Carson City, NV 89701
  - 775-882-0700   Fax: 882-0790
  - Company employees: 7
- Production: Gypsum - 115,839 tons

**CR Minerals Mine (2)**
- Operator: CR Minerals Corp.
  - P.O. Box 858
  - Fernley, NV 89408
  - 775-575-2536   Fax: 575-4857
  - Company employees: 17
- Production: Diatomite

**Hazen Pit (3)**
- Operator: Eagle-Picher Minerals, Inc.
  - P.O. Box 10408
  - Reno, NV 89510
  - 775-343-1818   Fax: 343-1821
  - Company employees: 62
- Production (partial year):
  - Gold - 2,912 oz
  - Silver - 1,879 oz

### Storey County

**Clark Mine and Mill (5)**
- Operator: Eagle-Picher Minerals, Inc.
  - P.O. Box 10408
  - Reno, NV 89510
  - 775-343-1818   Fax: 343-1821
  - Company employees: 62
- Production: Diatomite

### Washoe County

**Olinghouse Mine (6)**
- Operator: Alta Gold Co.
  - 1525 E. Newlands Dr. #1
  - Fernley, NV 89408
  - 775-575-0583   Fax: 575-0617
  - Company employees: 135
- Production (partial year):
  - Gold - 2,912 oz
  - Silver - 1,879 oz
Section II

Humboldt County

Getchell Mine (1)
Operator:
Getchell Gold Corp.
P.O. Box 220
Golconda, NV 89414
775-529-5001 Fax: 529-0752
Company employees: 635
Production (includes Turquoise Ridge Mine):
Gold - 175,302 oz
Silver - 52,490 oz

Hycroft Mine (2)
Operator:
Hycroft Resources & Dev., Inc.
P.O. Box 3030
Winnemucca, NV 89446
775-623-5260 Fax: 625-0215
Company employees: 44
Production:
Gold - 112,685 oz
Silver - 226,000 oz
Mercury - 53,240 pounds

Lone Tree Complex (3)
Operator:
Newmont Gold Corp.
P.O. Box 388
Valmy, NV 89438
775-635-9000 Fax: 635-0111
Company employees: 373
Production:
Gold - 257,702 oz
Silver - 27,484 oz

Marigold Mine (4)
Operator:
Rayrock Mines, Inc.
P.O. Box 9
Valmy, NV 89438
775-623-9571 Fax: 635-2551
Company employees: 88
Production:
Gold - 71,936 oz

MIN-AD Mine and Mill (5)
Operator:
MIN-AD, Inc.
4210 W. Jungo Road
Winnemucca, NV 89445
775-623-5944 Fax: 623-9028
Company employees: 13
Production:
Specialty limestone - 61,162 tons

Pinson Mine (6)
Operator:
Pinson Mining Co.
P.O. Box 129
Winnemucca, NV 89446
775-529-5026 Fax: 529-5030
Company employees: 66
Production:
Gold - 34,904 oz
Silver - 640 oz

Royal Peacock Opal Mine (7)
Operator:
Walter Wilson
1 Homestead Road P.O. 144
Orovada, NV 89425
775-941-0374
Production:
Precious opal

Twin Creeks Mine (8)
Operator:
Newmont Gold Co.
P.O. Box 69
Golconda, NV 89414
775-623-4300 Fax: 635-4602
Company employees: 721
Contract employees: 60
Production (does not include Rosebud):
Gold - 871,011 oz
Silver - 252,677 oz
Pershing County

Coeur Rochester Mine (Coeur D’Alene Mines Corp.), photo by Nevada Division of Minerals

Coeur Rochester Mine (9)
Operator:
Coeur D’Alene Mines Corp.
P.O. Box 1057
Lovelock, NV 89419
775-273-7995   Fax: 273-7423
Company employees: 255
Production:
Gold - 88,615 oz
Silver - 7,225,396 oz

Colado Mine and Plant (10)
Operator:
Eagle-Picher Minerals, Inc.
150 Coal Canyon Road
Lovelock, NV 89419
775-273-2636   Fax: 273-7553
Company employees: 157
Production:
Diatomite, Perlite

Empire Mine (11)
Operator:
United States Gypsum Co.
P.O. Box 130
Empire, NV 89405
775-557-2341   Fax: 557-2212
Company employees: 142
Production:
Gypsum - 524,260 tons

Florida Canyon Mine (12)
Operator:
Florida Canyon Mining, Inc.
P.O. Box 330
Imlay, NV 89418
775-538-7300   Fax: 538-7324
Company employees: 220
Contract employees: 7
Production:
Gold - 152,080 oz
Silver - 131,153 oz

Rosebud Mine (13)
Operator:
Hecla Mining Co.
P.O. Box 2610
Winnemucca, NV 89446
775-623-6912   Fax: 623-6967
Company employees: 103
Production (processed at Twin Creeks):
Gold - 131,703 oz
Silver - 477,956 oz

W. Glen Sexton Family Trust (14)
Operator:
Nutritional Additives Corp.
415 Wellington Street
Winnemucca, NV 89445
775-623-1151   Fax: 623-1 153
Company employees: 8
Production:
Dolomite

Gold Quarry mill (Newmont Mining Corp.), photo by Nevada Division of Minerals
Section III

Eureka County

Betze-Post Mine (1)
Operator: Barrick Goldstrike Mines, Inc.
P.O. Box 29
Elko, NV 89803
775-778-8196 Fax: 738-6543
Company employees: 1,455
Contract employees: 220
Production:
Gold - 1,498,683 oz
Silver - 58,000 oz

Carlin Operations (2)
Operator: Newmont Mining Corp.
P.O. Box 669
Carlin, NV 89822
775-778-4000 Fax: 778-4757
Company employees: 1,773
Production:
Gold - 1,575,391 oz
Silver - 150,400 oz

Ruby Hill Mine (3)
Operator: Homestake Mining Co.
P.O. Box 676
Eureka, NV 89316
775-237-6060 Fax: 237-5408
Company employees: 93
Contract employees: 12
Production:
Gold - 116,500 oz
Silver - 8,436 oz

Ruby Hill Mine tailings dryer (Homestake Mining Co.),
photo by Nevada Division of Minerals
Lander County

Argenta Mine and Mill (4)
Operator:
Baker Hughes INTEQ
P.O. Box 277
Battle Mountain, NV 89820
775-635-5441
Company employees: 20
Shipped:
Barite - 69,869 tons

Battle Mountain Complex (5)
Operator:
Battle Mountain Gold Co.
P.O. Box 1627
Battle Mountain, NV 89820
775-635-2465 Fax: 635-8677
Company employees: 21
Production:
Gold - 36,787 oz
Silver - 80,325 oz

Battle Mountain Grinding Plant
(Greystone Mine) (6)
Operator:
M-I L.L.C.
P.O. Box 370
Battle Mountain, NV 89820
775-635-5135 Fax: 635-2191
Company employees: 73
Shipped:
Barite - 284,263 tons

Cortez Gold Mines (7)
Operator:
Placer Dome North America
HC66-50
Beowawe, NV 89821
775-468-4400 Fax: 468-4496
Company employees: 455
Production:
Gold - 1,138,725 oz
Silver - 6,860 oz

McCoy/Cove Mine (8)
Operator:
Echo Bay Minerals Co.
P.O. Box 1658
Battle Mountain, NV 89820
775-635-5500 Fax: 635-5098
Company employees: 356
Production:
Gold - 167,494 oz
Silver - 9,412,323 oz

Gold Quarry Mine (Newmont Gold Corp.), photo by Newmont.
Section IV

Elko County

Dee Gold Mine (1)
Operator: Rayrock Mines, Inc.
P.O. Box 99
Valmy, NV 89438
775-635-8810  Fax: 635-8858
Company employees: 37
Production: Gold - 33,156 oz

Jerritt Canyon Mine (2)
Operator: Independence Mining Co., Inc.
HC31 Box 78
Elko, NV 89801
775-758-9221  Fax: 758-9231
Company employees: 449
Production: Gold - 347,000 oz

Ken Snyder Mine (3)
Owner: Midas Joint Venture
Operator: Dynatec Mining Corp.
P.O. Box 2310
Winnemucca, NV 89446
775-529-0611  Fax: 529-0612
Company employees: 13
Contract employees: 95
Production (partial year):
Gold - 4,357 oz,
Silver - 55,329 oz

Kinsley Mountain Mine (4)
Operator: Alta Gold Co.
778 S. Pioche Highway
Ely, NV 89301
775-289-3007  Fax: 289-4138
Company employees: 95
Contract employees: 2
Production: Gold - 9,543 oz

Meikle Mine (5)
Operator: Barrick Goldstrike Mines, Inc.
P.O. Box 29
Elko, NV 89803
775-778-8196  Fax: 738-6543
Company employees: 279
Contract employees: 75
Production: Gold - 847,313 oz
Silver - 232,000 oz

Pilot Peak Lime Plant (6)
Operator: Continental Lime Inc.
P.O. Box 2520
Wendover, NV 89883
775-478-5463  Fax: 478-5149
Company employees: 43
Production: Lime

Rossi Mine/Dunphy Mill (7)
Operator: Baroid Drilling Fluids, Inc.
912 Dunphy Ranch Rd.
Battle Mountain, NV 89820
775-468-0515  Fax: 468-2060
Company employee: 1
Contract employees: 59
Shipped: Barite - 135,295 tons

White Pine County

Bald Mountain Mine (8)
P.O. Box 2706
Elko, NV 89803
775-744-4227  Fax: 744-4216
Company employees: 148
Production (includes Casino/Winrock, Little Bald Mountain, Alligator Ridge [8a], and Yankee [8b]):
Gold - 130,000 oz, Silver - 2,000 oz

Griffon Mine (9)
Operator: Alta Gold Co.
778 Great Basin Blvd.
Ely, NV 89301
775-289-3007  Fax: 289-4138
Company employees: 51
Production: Gold - 37,921 oz
Silver - 269 oz

Robinson Mine (10)
Operator: BHP Nevada Mining Co.
P.O. Box 382
Ruth, NV 89319
775-289-7000  Fax: 289-7009
Company employees: 440
Production: Concentrate containing:
Copper - 148,485,000 pounds
Gold - 86,000 oz
Silver - 299,500 oz
Section V

**Churchill County**

**Huck Salt (1)**
- Operator: Huck Salt & Sons, Inc.
  - 2900 Phritzie Lane
  - Fallon, NV 89406
  - 775-423-2055 Fax: 423-0467
- Company employees: 4
- Production:
  - Salt - 18,190 tons

**Moltan Company/Fernley Nevada Facility (2)**
- Operator: Moltan Company
  - P.O. Box 860
  - Fernley, NV 89408
  - 775-423-6668 Fax: 423-641
- Company employees: 49
- Production:
  - Diatomite

**Popcorn Perlite Mine (3)**
- Operator: Eagle-Picher Minerals, Inc.
  - P.O. Box 10408
  - Reno, NV 89510
  - 775-343-1818 Fax: 343-1821
- Production:
  - Perlite

**Mineral County**

**Aurora Mine (4)**
- Operator: Nevada Goldfields, Inc.
  - P.O. Box 3070
  - Hawthorne, NV 89415
  - 775-945-3368 Fax: 945-3360
- Company employees: 36
- Production (partial year):
  - Gold - 2,130 oz
  - Silver - 7,287 oz

**Candelaria Mine (5)**
- Operator: Kinross Candelaria Mining Co.
  - P.O. Box 1240
  - Hawthorne, NV 89415
  - 775-573-2471 Fax: 573-2520
- Company employees: 18
- Production:
  - Silver - 1,109,619 oz
  - Gold - 3,006 oz

**Denton-Rawhide Mine (6)**
- Operator: Kennecott Rawhide Mining Co.
  - P.O. Box 2070
  - Fallon, NV 89407
  - 775-945-1015 Fax: 945-1213
- Company employees: 179
- Contract employees: 4
- Production:
  - Gold - 123,800 oz
  - Silver - 848,000 oz
Section VI

Esmeralda County

Basalt Mine and Mill (1)
Operator: Grefco Minerals, Inc.
P.O. Box 288
Mima, NV 89422
Dicalite Toll Station #1
Fax: 760-872-6006
Company employees: 6
Production:

Daisy Gold Mine (5)
Operator: Rayrock Mines Inc.
P.O. Box 190
Beatty, NV 89003
Fax: 760-872-6006
Company employees: 14
Contract employees: 37
Production:
Gold - 32,504 oz

IMV Nevada (6)
Operator: Mud Camp Mining Co. LLC
dba IMV Nevada
Route Box 549
Amargosa Valley, NV 89020
Fax: 937-2202
Company employees: 35
Contract employees: 3
Production:
Specialty clays - 32,555 tons

New Discovery Mine and Mill (7)
Operator: Vanderbilt Minerals Corp.
2320 Viking Road
Las Vegas, NV 89109
Fax: 760-220-374
Company employees: 74
Contract employees: 8
Production:
Lithium compounds

Silver Peak Operations (3)
Operator: Chemetall Foote Corp.
P.O. Box 98
Silver Peak, NV 89007
Fax: 575-937-2202
Company employees: 74
Contract employees: 3
Production:

Silver Peak Mine (4)
Operator: Barrick Bullfrog, Inc.
P.O. Box 519
Beatty, NV 89003
Fax: 575-285-2001
Company employees: 127
Production:
Gold - 208,123 oz
Silver - 299,944 oz

Nye County

Bullfrog Mine (4)
Operator: Barrick Bullfrog, Inc.
P.O. Box 519
Beatty, NV 89003
Fax: 575-285-2001
Company employees: 127
Production:
Gold - 208,123 oz
Silver - 299,944 oz

Smoky Valley Common Operation (9)
Operator: Round Mountain Gold Corp.
P.O. Box 480
Round Mountain, NV 89045-0480
Fax: 775-732-3174
Company employees: 673
Production:
Gold - 510,502 oz
Silver - 511,320 oz

Sterling Mine (10)
Operator: Cathedral Gold US Corp.
P.O. Box 549
Beatty, NV 89003
Fax: 775-220-4844
Company employees: 12
Production:
Gold - 3,970 oz
Section VII

Clark County

Apex Quarry and Plant (1)
Operator:
Chemical Lime Co.
P.O. Box 3609
North Las Vegas, NV 89036
702-643-7702 Fax: 643-9517
Company employees: 60
Production:
Limestone, Lime

James Hardie Gypsum (2)
Operator:
James Hardie Gypsum
HCR 89033, Box 2900
Las Vegas, NV 89124
702-875-4111 Fax: 875-4213
Company employees: 121
Production:
Gypsum - 769,881 tons

PABCO Gypsum (3)
Operator:
Pacific Coast Building Products, Inc.
1973 N. Nellis Blvd. #328
Las Vegas, NV 89115
702-643-1016 Fax: 643-6249
Company employees: 80
Contract employees: 3
Production:
Gypsum - 584,872 tons

Simplot Silica Products (4)
Operator:
Simplot Industries
P.O. Box 308
Overton, NV 89040
702-397-2667 Fax: 397-2798
Company employees: 44
Production:
Silica sand - 640,000 tons
Mining in Nevada in 1998 increased over 1997 in terms of production amounts, but due primarily to lower gold prices, the value of the production hardly changed. From the discovery of the Comstock silver deposits in 1859 to the present, mining has continued to play a major role in the state's economy. The Nevada mineral industry led the nation in the production of gold, silver and barite as it has for several years. Nevada ranked second in the nation in production of diatomite and was the only domestic producer of mined magnesite. Nevada's mines also produced a variety of other mineral commodities, including copper, gypsum, lithium compounds, salt, silica, and others. Total mineral production in Nevada in 1998 had an estimated value of about $3.32 billion, down slightly from $3.36 billion in 1997.

Production Highlights
Nevada's gold production reached 8,865,000 troy ounces in 1998, a new state record, and a 16.8% increase over the former record of 7,853,000 troy ounces set in 1997. Nevada is the third largest producer of gold in the world, behind only South Africa and Australia. Silver production exceeded 20 million troy ounces for the sixth year in a row, giving Nevada undisputed claim to being the Silver State. Silver production was 21.5 million troy ounces, down somewhat from 1997's record 24.7 million. Copper production was 148.5 million pounds, essentially the same as the 148.6 million pounds produced in 1997. Gypsum production increased nearly 15% over 1997 due to increased demand for wallboard. The increase of over a million troy ounces of gold in 1998 over 1997 was due largely to Placer Dome's Pipeline Mine and Homestake's Ruby Hill Mine, which began operations in mid-1997 and achieved full production in 1998. The production of gold from underground operations increased in 1998 over 1997 from 1.57 million troy ounces to 1.97 million troy ounces. In 1998, about 22% of Nevada's gold production was mined at underground operations. The trend of growing production from underground mines is likely to continue in
1999 as the Midas Joint Venture’s Ken Snyder Mine and Getchell Gold’s Turquoise Ridge Mine reach full production, although in July 1999 Placer Dome announced a temporary shutdown at Turquoise Ridge.

Employment
According to the Nevada Department of Employment, Training, and Rehabilitation, for the year ending in 1998, Nevada mining operations employed 13,236 workers. The total payroll for that period was $699,181,917, making the average annual pay for a mine worker $52,824, the highest average for any sector in the state. The average salary for all Nevada workers for the calendar year was $30,159. In addition to the direct employment in mining, there are an estimated 43,000 additional indirect jobs in the state related to providing goods and services needed by the mining industry. Employment trends were down in 1998 over 1997 due to lower commodity prices and a slowdown in mine development primarily in the precious metal sector.

Taxes and Other Impacts
The taxes paid by the mining industry to state and local government are property taxes, sales and use tax, and unique to the state and local government are property taxes paid by the mining industry to state and local government. According to the Nevada Department of Taxation and industry surveys, property taxes paid in 1998 were about $31.5 million. Revenues generated from sales and use taxes in 1998 were not yet totaled as of this report, but they should be about the same as those paid in 1997 (about $59.5 million).

While the economic impact of mining is important to the state as a whole, the greatest impacts are felt by the local communities near the mines. Towns such as Elko, Lovelock, Battle Mountain, Winnemucca, Beatty, Eureka, and Ely have much healthier economies than they would otherwise because of the high paying jobs, taxes, and contributions provided by the mining industry.

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 other 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 purposes once mining is complete. This process, called reclamation, returns mined areas to other productive uses such as wildlife habitat, livestock grazing, recreation, or new industrial applications. To insure that reclamation is done, mine operators are required to post bonds which are held by government agencies. The bonds are released only after the mined area is stabilized and the reclamation goals have been met. Over $420 million in bonds are currently posted. Mine operators are proud of their efforts, and are constantly seeking ways to enhance their reclamation technology.

Gold Reserves
Nevada’s reported gold reserves at or near currently operating mines that can be mined at a profit under current economic conditions stood at about 88 million troy ounces at the end of 1998. The amount of reserves is always in a state of flux, with some reserves being lost to production, additional discoveries being made, and changing economic conditions. Many Nevada operations are able to add to their reserves each year through development drilling. Extensive gold resources, not currently economic, also exist at many operations. The price of gold and the cost of production are the main factors used to determine whether a reserve is really a reserve or just a sub-economic resource. With the price of gold below $300 per troy ounce, many companies have had to reevaluate their reserves and reclassify some as resources. 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. Under current conditions, the existing proven reserves are sufficient to sustain gold production at current levels for about 10 years.

Exploration
Exploration for new deposits, particularly gold, is an ongoing effort by the producing companies and many others who do not operate mines in the state. About 215 geologists were employed in Nevada in 1998 primarily to explore for mineral properties that can be developed into new mines, or to find new ore deposits around existing mines. These geologists, together with their support staff of drillers, samplers, assayers and others represent a significant positive economic impact, particularly in the rural areas. Exploration spending in Nevada declined significantly in 1998 to about $87 million from about $139 million in 1997.
Minerals Other Than Gold and Silver

Minerals besides gold and silver are also important to Nevada’s economy. Copper and industrial minerals such as barite, diatomite, gypsum, limestone, and specialty clays are mined in the state. Sand, gravel, and crushed stone are critical to the building requirements of the state's cities and towns.

Oil and gas exploration and production in Nevada is a small industry when compared with mining, but it does contribute to the economy of east-central Nevada. In oil field terms, Nevada is a frontier, meaning its potential is yet to be realized. Oil production in 1998 was about 800,000 barrels (42 gallons per barrel) with an average value of $10.37 per barrel for a total value of about $8.3 million. Nevada oil is used for the production of kerosene, diesel, boiler fuel, and asphalt. No natural gas is commercially produced in the state, but minor gas produced at some wells is used to fuel onsite equipment.

Nevada is rich in geothermal resources. Currently, there are 14 plants at 10 locations that produced 1.63 million megawatt hours of electricity in 1998. Electric generating capacity and production have remained fairly steady for the past several years. Geothermal heat is also used for a variety of commercial, domestic, and public applications in Nevada. Mining, aquaculture, and agriculture are among the beneficiaries of geothermal heat. Schools in Elko County, and homes and commercial buildings 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 during 1998. This situation should continue for many years to come. Challenges will exist, as they always have, but Nevada’s mineral reserves and the potential to add to them will spur the creativity of the mineral industry. During the past year of relatively low commodity prices, many mineral producers have found ways to reduce their production costs. They will be well positioned to take advantage of increased margins when commodity prices rebound.
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## The Nevada Bureau of Mines and Geology

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