Major Mines of Nevada 2013

Mineral Industries in Nevada’s Economy
The seven-member Commission on Mineral Resources is a public body appointed by the Governor that directs mineral related policy for the Nevada Division of Minerals and advises the Governor and Legislature on matters relating to mineral resources. The Division’s mission is to encourage and assist in the responsible exploration for, and the production of, minerals, oil, gas, and geothermal energy which are economically beneficial to the State.

The Division 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. Nevada is a member of 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.

Commission on Mineral Resources

Fred D. Gibson, Jr., Chairman (General Public)
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Richard DeLong (Large Scale Mining)
John Mudge (Large Scale Mining)
David Parker (Exploration and Development)
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Cover photo: Round Mountain Gold Corporation, Nye County (Robert Ghiglieri photo).
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.
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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
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

**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

**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

*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).
Elko County

Big Ledge Mine (1)
Operator:
National Oilwell Varco
247 Bluffs Ave., Suite 101
Elko, NV 89801
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:
Limestone

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

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

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
Molybdenite - 1,384,649 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
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

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**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

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

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

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

Nye County

IMV Nevada (5)
Operator:
    Lhoist North America of Arizona
    P.O. Box 86
    Amargosa Valley, NV 89020
    775-372-5341   Fax: 372-5230
    Company employees: 30
Production:
    Specialty clays
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)
Operator:
PABCO Building 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
<table>
<thead>
<tr>
<th>Material</th>
<th>Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>5,436,430 ounces</td>
</tr>
<tr>
<td>Silver</td>
<td>8,668,596 ounces</td>
</tr>
<tr>
<td>Barite (shipped)</td>
<td>811,334 tons</td>
</tr>
<tr>
<td>Copper</td>
<td>137,714,765 pounds</td>
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<tr>
<td>Diatomite (shipped)</td>
<td>262,551 tons</td>
</tr>
<tr>
<td>Dolomite</td>
<td>44,445 tons</td>
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<tr>
<td>Gypsum</td>
<td>1,834,297 tons</td>
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<tr>
<td>Limestone</td>
<td>4,105,921 tons</td>
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<tr>
<td>Lithium compounds</td>
<td>N/A</td>
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<tr>
<td>Magnesium compounds</td>
<td>N/A</td>
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<tr>
<td>Molybdenite</td>
<td>1,384,649 pounds</td>
</tr>
<tr>
<td>Perlite</td>
<td>N/A</td>
</tr>
<tr>
<td>Salt</td>
<td>19,564 tons</td>
</tr>
<tr>
<td>Silica sand</td>
<td>639,457 tons</td>
</tr>
<tr>
<td>Specialty clay</td>
<td>47,967 tons</td>
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</tbody>
</table>

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 publicly-reported 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. In 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, 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 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, fluor spar, 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.
Major mines, oil fields, and geothermal plants, 2013.
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The Nevada Bureau of Mines and Geology

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