The seven-member Commission on Mineral Resources is a public body appointed by the Governor that provides advice and recommendations to 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 activities relating to mineral, oil, gas, and geothermal 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 the minerals industry are also produced. The Division often acts as a cooperating agency in federal land use actions at the request of the Governor’s office.

The Division is the fluid minerals permitting agency for drilling activities on both public and private lands in Nevada. Staff also monitors production of oil, gas, and geothermal resources to ensure 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

Josh Nordquist, Chair (Geothermal Resources)
Nigel Bain (Large-Scale Mining)
Bob Felder (Exploration and Development)
Randy Griffin (Small-Scale Mining and Prospecting)
Stephanie Hallinan (Large-Scale Mining)
Arthur Henderson (Oil and Gas)
Mary Korpi (Public-at-Large)

Division of Minerals Staff

Mike Visher - Administrator, Division of Minerals
Sean Derby - Chief, Abandoned Mine Lands Program
Rebecca Ely - Public Outreach/AML Field Specialist
Robert Ghiglieri - Deputy Administrator
Dustin Holcomb - AML/Fluid Minerals Field Specialist
Valerie Kneefel - Program Officer II
Courtney Luxford - Program Manager, Oil, Gas, and Geothermal
Sherrie Nuckolls - Administrative Assistant IV, Carson City Office
Lucia Patterson - GIS/Field Specialist-Geologist
Deborah Selig - Administrative Assistant IV, Las Vegas Office
Garrett Wake - Southern Nevada Programs Manager

Cover photo: Top Pit, Bald Mountain mine, White Pine County. (Kinross photo).
This is the thirty-third of an annual series of summary reports on major mines of Nevada. Aggregate operations are not included. Information on employment and production for the calendar year 2021 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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Major mines, oil fields, and geothermal plants, 2021 (centerfold map)

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Lyon County

Adams Claim Gypsum Mine (1)
Operator:
Art Wilson Co.
P.O. Box 20160
Carson City, NV 89721
775-882-0700
Company employees: 34
Production:
Gypsum - 294,574 tons
Limestone - 1,644 tons

Ludwig Mine (2)
Operator:
Art Wilson Co.
P.O. Box 20160
Carson City, NV 89721
775-882-0700
Company employees: 1
Production:
No mining occurred in 2021

NCC Fernley Operations (3)
Operator:
Nevada Cement Co.
1290 West Main Street
Fernley, NV 89408
775-575-2281 Fax: 575-4387
Company employees: 110
Contract employees: 30
Production:
Limestone - 48,000 tons

NCC Mustache Mine (4)
Operator:
Nevada Cement Co.
1290 West Main Street
Fernley, NV 89408
775-575-2281 Fax: 575-4387
Company employees: 2
Production:
Pozzolan - 8,000 tons

Pumpkin Hollow (5)
Operator:
Nevada Copper, Inc.
61 East Pursel Ln.
Yerington, NV 89447
775-463-3510
Company employees: 100
Contract employees: 122
Production:
Copper - 3,296,515 pounds

Storey County

Clark Mine (6)
Operator:
US Silica
640 Clark Station Rd.
Sparks, NV 89434
775-824-7600 Fax: 824-7601
Company employees: 69
Contract employees: 5
Production:
Diatomite - 52,836 tons

Washoe County

NCC Flanigan Mine (7)
Operator:
Nevada Cement Co.
1290 West Main Street
Fernley, NV 89408
775-575-2281 Fax: 575-4387
Company employees: 4
Production:
Specialty Clay - 8,000 tons
Humboldt County

Hycroft Mine (1)
Operator: Hycroft Mining, Corp.
P.O. Box 3030
Winnemucca, NV 89446
775-333-0643
Company employees: 90
Contract employees: 30
Production:
Gold - 56,045 oz
Silver - 397,546 oz

Section II

Lone Tree Complex (2)
Operator: i-80 Gold Corp.
5190 Neil Road, Suite 460
Reno, NV 89502
775-525-6450
Company employees: 20
Contract employees: 2
Production:
Gold - 8,789 oz
Marigold Mine (3)
Operator:
SSR Mining
P.O. Box 160
Valmy, NV 89438
775-502-4800
  Company employees: 457
  Contract employees: 20
Production:
  Gold - 235,282 oz
  Silver - 4,285 oz

MIN-AD Mine (4)
Operator:
MIN-AD, Inc.
P.O. Box 39
Winnemucca, NV 89446
775-623-5944  Fax: 623-9028
  Company employees: 15
Production:
  Dolomite - 39,175 tons

Turquoise Ridge Underground Mine (5)
& Twin Creeks Open Pit (6)
Operator:
Nevada Gold Mines, LLC
HC 66 Box 220
Golconda, NV 89414
775-529-5001 Fax: 775-748-3125
  Company employees: 812
  Contract employees: 289
Production:
  Gold - 543,123 oz
  Silver - 94,908 oz
Pershing County

Buff/Satin Mine (7)
Operator:
Vanderbilt Minerals, LLC
P.O. Box 6660
Pahrump, NV 89041
775-513-6316
No mining occurred in 2021

Coeur Rochester Mine (8)
Operator:
Coeur Rochester, Inc.
P.O. Box 1057
Lovelock, NV 89419
775-273-7995
  Company employees: 327
  Contract employees: 244
Production:
  Gold - 27,985 oz
  Silver - 3,158,017 oz

Colado Mine (9)
Operator:
US Silica
P.O. Box 959
Lovelock, NV 89419
775-824-7600 Fax: 824-7601
  Company employees: 35
  Contract employees: 2
Production:
  Diatomite - 198,202 tons

Empire Gypsum Mine (10)
Operator:
Empire Mining Co., LLC
P.O. Box 157
Gerlach, NV 89412
775-600-4569 Fax: 702-921-9552
  Company employees: 60
  Contract employees: 15
Production:
  Gypsum - 702,026 tons

Florida Canyon Mine (11)
Operator:
Florida Canyon Mining, Inc.
Argonaut Gold
P.O. Box 330
Imlay, NV 89418
775-259-4579
  Company employees: 276
  Contract employees: 44
Production:
  Gold - 51,175 oz
  Silver - 27,681 oz

Relief Canyon (12)
Operator:
Gold Acquisition Corp.
P.O. Box 1033
Lovelock, NV 89419
775-273-7019 Fax: 273-7063
  Company employees: 15
Production:
  Gold - 5,388 oz
  Silver - 12,773 oz

Relief Canyon Limestone Quarry (13)
Operator:
Nevada Cement Company
1290 West Main Street
Fernley, NV 89408
775-575-2281 Fax: 575-4387
  Company employees: 2
  Contract employees: 18
Production:
  Limestone - 110,000 tons
Granite Creek mine, Humboldt County (i-80 Gold Corp. photo).
Section III

Eureka County

Betze-Post Mine (1)
Operator:
Nevada Gold Mines, LLC
1655 Mountain City Highway
Elko, NV 89801
775-748-1001
Company employees: 880
Production:
Gold - 377,082 oz
Silver - 28,268 oz

Eastern Nevada Operations (2)
(Carlin Operations)
Operator:
Nevada Gold Mines, LLC
1655 Mountain City Highway
Elko, NV 89801
775-748-1001
Company employees: 1,755
Production:
Gold - 755,016 oz
Silver - 7,767 oz

Gold Bar Mine (3)
Operator:
McEwen Mining Nevada, Inc.
2215 N. 5th Street
Elko, NV 89801
775-777-9977
Company employees: 70
Contract employees: 75
Production:
Gold - 43,881 oz

Goldrush (4)
Operator:
Nevada Gold Mines, LLC
HC 66 Box 1250
Crescent Valley, NV 89821
775-468-4400 Fax: 468-4496
Company employees: 154
Contract employees: 30
Production:
Gold - 35,175 oz

Maggie Creek Operation (5)
Operator:
Progressive Contracting, Inc.
P.O. Box 1930
St. George, UT 84771
435-628-6662 Fax: 628-7314
Company employees: 2
Production:
No mining occurred in 2021

Ruby Hill Mine (6)
Operator:
i-80 Gold Corp.
P.O. Box 676
Eureka, NV 89316
775-304-0286
Company employees: 18
Contract employees: 28
Production:
Gold - 8,653 oz
Silver - 3,500 oz
Lander County

Argenta Mine (7)
Operator:
Baker Hughes Oilfield Operations, LLC
P.O. Box 277
Battle Mountain, NV 89820
775-625-8700  Fax: 635-5455
Production:
Not reported

Cortez Hills Underground Mine (8)
Operator:
Nevada Gold Mines, LLC
HC 66 Box 1250
Crescent Valley, NV 89821
775-468-4400  Fax: 468-4496
Company employees: 319
Contract employees: 106
Production:
(underground only, excluding the open-pit)
Gold - 378,777 oz
Silver - 8,841oz

Fire Creek Mine (9)
Operator:
Klondex Gold and Silver Mining Co. (Hecla Mining Co.)
4000 W. Winnemucca Blvd.
Winnemucca, NV 89445
775-299-2522
Company employees: 6
Production:
Gold - 26,214 oz

Greystone Mine (10)
Operator:
M-I LLC
P.O. Box 370
2 North Second Street
Battle Mountain, NV 89820
775-635-5135
Company employees: 23
Production:
No mining occurred in 2021

Mountain Springs Mine (11)
Operator:
M-I LLC
P.O. Box 370
2 North Second Street
Battle Mountain, NV 89820
775-635-5135
Company employees: 23
Production:
Barite - 46,500 tons

Pipeline Mine (12)
Operator:
Nevada Gold Mines, LLC
HC 66 Box 1250
Crescent Valley, NV 89821
775-468-4400  Fax: 468-4496
Company employees: 983
Contract employees: 709
Production:
(includes the Cortez Hills open pit)
Gold - 451,736 oz
Silver - 112,785 oz
Phoenix Mine (13)
Operator:
    Nevada Gold Mines
    P.O. Box 1657
    Battle Mountain, NV 89820
    775-635-6514
    Company employees: 450
    Contract employees: 383
Production:
    Gold - 173,067 oz
    Silver - 1,322,700 oz
    Copper - 36,736,179 pounds

Slaven Canyon Mine (14)
Operator:
    Baker Hughes Oilfield Operations, LLC
    P.O. Box 277
    Battle Mountain, NV 89820
    775-625-8700   Fax: 635-5455
Production:
    Not reported
Section IV

Elko County

Arturo Mine (1)
Operator:
Nevada Gold Mines, LLC
1655 Mountain City Highway
Elko, NV 89801
775-748-1001
Company employees: 54
Production:
Gold - 53,303 oz

Hollister Mine (2)
Operator:
Klondex Hollister Mine, Inc.
(Hecla Mining Co.)
4000 W. Winnemucca Blvd.
Winnemucca, NV 89445
775-299-2522
Company employees: 23
Contract employees: 6
No mining occurred in 2021

Jerritt Canyon Mine (3)
Operator:
First Majestic Silver
P.O. Box 2778
Elko, NV 89803
775-738-5600  Fax: 551-9810
Company employees: 300
Contract employees: 300
Production:
Gold - 98,303 oz
Silver - 1,809 oz

Elko and White Pine continued on page 15 after the centerfold
Section IV (continued)

White Pine County

Bald Mountain Mine North & South Operations (9)
Operator:
KG Mining (Bald Mountain), Inc.
Kinross Gold Corp.
435 Jiggs Hwy., Unit 16
Spring Creek, NV 89815
775-237-7100 Fax: 237-7101
Company employees: 603
Contract employees: 219

Production:
Gold - 260,924 oz
Silver - 531 oz

Meikle Mine (5)
Operator:
Nevada Gold Mines, LLC
1655 Mountain City Highway
Elko, NV 89801
775-748-1001
Company employees: 502

Production:
Gold - 325,826 oz
Silver - 24,425 oz

Midas Mine (6)
Operator:
Klondex Midas Operations, Inc.
(Hecla Mining Co.)
4000 W. Winnemucca Blvd.
Winnemucca, NV 89445
775-299-2522
Company employees: 8

No mining occurred in 2021

Pilot Peak Quarry (7)
Operator:
Graymont
P.O. Box 2520
West Wendover, NV 89883
775-483-5463
Company employees: 69

Production:
Limestone - 1,192,834 tons

Rossi Mine (8)
Operator:
Halliburton Energy Services
912 Dunphy Ranch Rd.
Battle Mountain, NV 89820
775-401-1725
Company employees: 5
Contract employees: 15

Production
Barite - 414 tons

Mt. Moriah Quarry (10)
Operator:
Mt. Moriah Stone
#10 Hatch Rock Road
P.O. Box 70
Baker, NV 89311
435-855-2232 Fax: 855-2332
Company employees: 22

Production:
Quartzite - 5,300 tons

Pan Mine (11)
Operator:
GRP Pan, LLC
(Calibre Mining Corp.)
P.O. Box 150278
Ely, NV 89315
775-386-1900
Company employees: 62
Contract employees: 173

Production:
Gold - 46,783 oz

Robinson Mine (12)
Operator:
KGHM International, Ltd.
P.O. Box 382
Ruth, NV 89319
775-289-7000 Fax: 289-7349
Company employees: 620
Contract employees: 95

Production:
Copper - 123,700,000 pounds
Gold - 41,050 oz
Molybdenite - 240,000 pounds
Section V

Churchill County

Churchill Limestone Quarry (1)
Operator:
Nevada Cement Co.
1290 West Main Street
Fernley, NV 89408
775-575-2281
Company employees: 3
Contract employees: 18
Production:
Limestone - 531,099 tons

Fernley Diatomite Operations (2)
Operator:
US Silica
9785 Gateway Drive
Reno, NV 89521
775-824-7600 Fax: 824-7601
Company employees: 40
Production:
Diatomite - 55,888 tons
Drilling operation at Ruby Hill mine, Eureka County (i-80 Gold Corp. photo).

Clay processing facility Lhoist, Nye County (Garrett Wake photo).
Hazen Mine (3)
Operator:
   US Silica
   640 Clark Station Rd.
   Sparks, NV 89434
   775-824-7600  Fax: 824-7601
   Company employees: 0
No mining occurred in 2021

Huck Salt (4)
Operator:
   Huck Salt Company
   2900 Phritzie Ln.
   Fallon, NV 89406
   775-423-2055  Fax: 423-0467
   Company employees: 12
Shipped:
   Salt - 16,495 tons

Nightingale Mine (5)
Operator:
   Imerys of California, Inc.
   100 Front Street
   Fernley, NV 89408
   775-404-6267  Fax: 575-1470
   Company employees: 15
   Contract employees: 3
No mining occurred in 2021

Perlite Mine (6)
Operator:
   US Silica
   P.O. Box 959
   Lovelock, NV 89419
   775-824-7600  Fax: 824-7601
   Company employees: 0
No mining occurred in 2021

Mineral County

Aurora Mine (7)
Operator:
   Klondex Aurora Mine, Inc.
   (Hecla Mining Co.)
   4000 W. Winnemucca Blvd.
   Winnemucca, NV 89445
   775-299-2522
   Company employees: 0
No mining occurred in 2021

Borealis Mine (8)
Operator:
   Borealis Mining Company, LLC
   P.O. Box 549
   Hawthorne, NV 89415
   775-299-5123
   Company employees: 26
   Contract employees: 15
Production:
   Gold - 3,936 oz
   Silver - 6,473 oz

Denton-Rawhide Mine (9)
Operator:
   Rawhide Mining, LLC
   P.O. Box 2070
   Fallon, NV 89407
   775-945-1015
   Company employees: 137
   Contract employees: 12
Production:
   Gold - 23,209 oz
   Silver - 126,510 oz

Isabella Pearl (10)
Operator:
   Fortitude Gold Corp.
   P.O. Box 247
   Mina, NV 89422
   775-300-1592
   Company employees: 54
   Contract employees: 85
Production:
   Gold - 46,459 oz
   Silver - 44,551 oz
Section VI

Esmeralda County

Basalt Diatomite Mine (1)
Operator:
Grefco Minerals, Inc.
P.O. Box 278
Dyer, NV 89010
775-573-2422
Company employees: 15
Contract employees: 3
Production:
Diatomite - 4,774 tons

Blanco Mine (2)
Operator:
Vanderbilt Minerals, Inc.
P.O. Box 6660
Pahrump, NV 89041
775-513-6316
Company employees: 1
Production:
Specialty clays - No mining occurred in 2021
Mineral Ridge Mine (3)
Operator:
    Mineral Ridge Gold, LLC
    1910 Idaho St., Ste. 102-550
    Elko, NV 89801
    775-753-4778   Fax: 775-753-4780
    Company employees: 20
Production:
    Gold - 1,827 oz
    Silver - 1,154 oz

Silver Peak Lithium Operations (4)
Operator:
    Albemarle U.S., Inc.
    P.O. Box 98
    Silver Peak, NV 89047
    775-937-2222   Fax: 937-2317
    Company employees: 70
    Contract employees: 15
Shipped:
    Lithium compounds - 12,963,995 lbs

New Discovery Mine (7)
Operator:
    Vanderbilt Minerals, LLC
    P.O. Box 6660
    Pahrump, NV 89041
    775-513-6316
Production:
    Specialty clays - No mining occurred in 2021

Premier Magnesia (8)
Operator:
    Premier Magnesia, LLC
    P.O. Box 177
    Gabbs, NV 89409
    775-285-2601   Fax: 285-4021
    Company employees: 109
    Contract employees: 10
Shipped:
    Magnesium compounds - 129,252 tons

Round Mountain Mine (9)
Operator:
    Round Mountain Gold Corp.
    P.O. Box 480
    Round Mountain, NV 89045
    775-377-2366   Fax: 377-3224
    Company employees: 872
    Contract employees: 128
Production:
    Gold - 247,662 oz
    Silver - 666,411 oz

Nye County

Amargosa Clay Operation (5)
Operator:
    Lhoist North America
    P.O. Box 86
    Amargosa Valley, NV 89020
    775-372-5341
    Company employees: 41
Production:
    Specialty clays - 112,454 tons

Manhattan Gulch (6)
Operator:
    Manhattan Gulch, LLC
    2060-D E Ave De Los Arboles #510
    Thousands Oaks, CA 91362
    775-298-8120
No mining occurred in 2021
Section VII

Clark County

Apex Quarry (1)
Operator:
   Lhoist North America
   12101 N. Las Vegas Blvd.
   Las Vegas, NV 89165
   702-643-7702
   Company employees: 101
   Contract employees: 1
Production:
   Limestone - 1,058,000 tons
   Dolomite - 300,000 tons

Lima Nevada Gypsum Mine (2)
Operator:
   H. Lima Nevada, LLC
   704 E. Yosemite
   Manteca, CA 95336
   209-239-6787 Fax: 239-6778
   Company employees: 10
Production:
   Gypsum - 149,440 tons

PABCO Gypsum Mine (3)
Operator:
   Pacific Coast Building Products, Inc.
   8000 E. Lake Mead Blvd.
   Las Vegas, NV 89115
   702-407-3700 Fax: 643-6249
   Company employees: 20
   Contract employees: 3
Production:
   Gypsum - 1,392,558 tons

Rainbow Quarry (4)
Operator:
   Las Vegas Rock, Inc.
   P.O. Box 19118
   2 Jean Prison Rd.
   Jean, NV 89019
   702-791-7625 Fax: 896-4533
   Company employees: 10
   Contract employees: 4
Production:
   Aggregate production only, no dimension stone mined in 2021

Lima Nevada Gypsum Mine (2)
Operator:
   H. Lima Nevada, LLC
   704 E. Yosemite
   Manteca, CA 95336
   209-239-6787 Fax: 239-6778
   Company employees: 10
Production:
   Gypsum - 149,440 tons

PABCO Gypsum Mine (3)
Operator:
   Pacific Coast Building Products, Inc.
   8000 E. Lake Mead Blvd.
   Las Vegas, NV 89115
   702-407-3700 Fax: 643-6249
   Company employees: 20
   Contract employees: 3
Production:
   Gypsum - 1,392,558 tons

Lincoln County

Simplot Silica Products (5)
Operator:
   J.R. Simplot Company
   P.O. Box 308
   Overton, NV 89040
   702-397-2667 Fax: 397-2798
   Company employees: 33
Shipped:
   Silica sand - 657,796 tons

Tenacity Perlite Mine (6)
Operator:
   Wilkin Mining & Trucking, Inc.
   HC 34 Box 199
   Caliente, NV 89008
   775-728-4463
   Company employees: 15
Production:
   Perlite - 3,728 tons
## Summary of 2021 Production

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>4,502,365</td>
<td>ounces</td>
</tr>
<tr>
<td>Silver</td>
<td>6,218,415</td>
<td>ounces</td>
</tr>
<tr>
<td>Barite (mined)</td>
<td>46,914</td>
<td>tons</td>
</tr>
<tr>
<td>Copper</td>
<td>163,732,694</td>
<td>pounds</td>
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<tr>
<td>Diatomite</td>
<td>311,700</td>
<td>tons</td>
</tr>
<tr>
<td>Dolomite</td>
<td>339,175</td>
<td>tons</td>
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<tr>
<td>Gypsum</td>
<td>2,538,598</td>
<td>tons</td>
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<tr>
<td>Limestone</td>
<td>2,941,577</td>
<td>tons</td>
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<tr>
<td>Lithium compounds (shipped)</td>
<td>12,963,995</td>
<td>pounds</td>
</tr>
<tr>
<td>Magnesium compounds (shipped)</td>
<td>129,252</td>
<td>tons</td>
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<tr>
<td>Molybdenite</td>
<td>240,000</td>
<td>pounds</td>
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<tr>
<td>Perlite</td>
<td>3,728</td>
<td>tons</td>
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<tr>
<td>Pozzolan</td>
<td>8,000</td>
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<tr>
<td>Quartzite</td>
<td>5,300</td>
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<tr>
<td>Salt (shipped)</td>
<td>16,495</td>
<td>tons</td>
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<tr>
<td>Silica sand (shipped)</td>
<td>657,796</td>
<td>tons</td>
</tr>
<tr>
<td>Specialty clays</td>
<td>46,548</td>
<td>tons</td>
</tr>
</tbody>
</table>
Economic Impacts of Mining in Nevada—2021

Nevada’s mining industry recorded approximately $9.7 billion in total value of all commodities in 2021, representing a 2.8% increase from the $9.4 billion dollar value recorded in 2020. Nearly 89% of the value was driven by gold and silver, which contributed over $8 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 2021 were $1,798.61 and $25.04, per troy ounce, respectively. Nevada led the nation in 2021 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, dolomite, geothermal energy, gypsum, lapidary and gemstones, limestone, molybdenite, oil, perlite, salt, silica sand, silver, and specialty aggregates. A summary of commodity production amounts, value, and year over year percentage changes can be seen in Table 1.

Production Highlights

Nevada’s gold production was 4,502,365 troy ounces in 2021 compared to 4,632,690 troy ounces in 2020, a decrease of 2.8%. According to the U.S. Geological Survey, Nevada remains the nation’s top gold producer with about 74% (133 metric tons) of the U.S. total (180 metric tons) and would rank 5th in world gold production behind China (370), Australia (330), Russia (300), and Canada (170). A summary of 2021 metal production, ranked by producer, is shown in Table 2.

Employment

According to the Nevada Department of Employment, Training, and Rehabilitation, the Nevada minerals industry, including support activities and oil and gas extraction, directly employed an average of 15,024 people in 2021. The average yearly pay for mineral industry employees during this time was $103,000, the third highest average private employment sector in the state, behind Company Management and Utilities. Mining employment remains an important factor in the economic diversity of Nevada.

Table 1. Summary of 2021 Nevada Mineral Commodity Production

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Production Amount</th>
<th>Unit</th>
<th>YOY Change (%)</th>
<th>Value ($)</th>
<th>YOY Value Change (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>4,502,365</td>
<td>ounces</td>
<td>-2.8%</td>
<td>$8,097,998,713</td>
<td>-1.2%</td>
</tr>
<tr>
<td>Silver</td>
<td>6,218,415</td>
<td>ounces</td>
<td>1.5%</td>
<td>$155,709,112</td>
<td>23.7%</td>
</tr>
<tr>
<td>Barite (shipped)</td>
<td>283,779</td>
<td>tons</td>
<td>70.8%</td>
<td>$27,288,230</td>
<td>14.4%</td>
</tr>
<tr>
<td>Copper</td>
<td>163,732,694</td>
<td>pounds</td>
<td>6.1%</td>
<td>$687,677,315</td>
<td>59.2%</td>
</tr>
<tr>
<td>Diatomite</td>
<td>311,700</td>
<td>tons</td>
<td>-25.8%</td>
<td>$51,282,304</td>
<td>0.8%</td>
</tr>
<tr>
<td>Dolomite</td>
<td>39,175</td>
<td>tons</td>
<td>5.7%</td>
<td>$3,917,743</td>
<td>-9.9%</td>
</tr>
<tr>
<td>Gypsum</td>
<td>2,538,598</td>
<td>tons</td>
<td>5%</td>
<td>$49,643,160</td>
<td>20%</td>
</tr>
<tr>
<td>Limestone</td>
<td>3,241,577</td>
<td>tons</td>
<td>0.6%</td>
<td>$32,570,285</td>
<td>-6.1%</td>
</tr>
<tr>
<td>Lithium compounds (shipped)</td>
<td>12,963,995</td>
<td>pounds</td>
<td>87.8%</td>
<td>$41,691,698</td>
<td>46.1%</td>
</tr>
<tr>
<td>Magnesium compounds (shipped)</td>
<td>129,252</td>
<td>tons</td>
<td>4.2%</td>
<td>$8,057,512</td>
<td>-6.1%</td>
</tr>
<tr>
<td>Molybdenite</td>
<td>240,000</td>
<td>pounds</td>
<td>-43.7%</td>
<td>$1,992,000</td>
<td>-48.5%</td>
</tr>
<tr>
<td>Perlite</td>
<td>3,728</td>
<td>tons</td>
<td>37.3%</td>
<td>$767,906</td>
<td>14.9%</td>
</tr>
<tr>
<td>Salt (shipped)</td>
<td>16,495</td>
<td>tons</td>
<td>9.7%</td>
<td>$560,830</td>
<td>9.7%</td>
</tr>
<tr>
<td>Silica sand (shipped)</td>
<td>657,796</td>
<td>tons</td>
<td>15.4%</td>
<td>$18,173,927</td>
<td>26.9%</td>
</tr>
<tr>
<td>Specialty clays</td>
<td>120,454</td>
<td>tons</td>
<td>-75.7%</td>
<td>$11,839,493</td>
<td>6.2%</td>
</tr>
<tr>
<td>Geothermal energy (sold)</td>
<td>3,971,982</td>
<td>megawatt hours</td>
<td>0.3%</td>
<td>$318,747,661</td>
<td>1.5%</td>
</tr>
<tr>
<td>Oil (sold)</td>
<td>288,342</td>
<td>barrels</td>
<td>32%</td>
<td>$15,219,762</td>
<td>107.6%</td>
</tr>
<tr>
<td>Aggregates</td>
<td>29,400,000</td>
<td>tons</td>
<td>19%</td>
<td>$235,000,000</td>
<td>19.3%</td>
</tr>
</tbody>
</table>

Total Value $9,758,137,650
Permitting and Reclamation

Before mining can begin, plans of operation must be submitted and permits 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 be rehabilitated so they can be used for other activities once mining is completed. This process, called reclamation, returns mined areas to other productive practices such as livestock grazing, wildlife habitat, recreation opportunities, or other natural resource uses. To ensure that reclamation is completed, mine operators are required to post reclamation bonds with government agencies prior to commencement of operations. The bonds are released only after the mined area is stabilized and all the reclamation requirements have been met. According to the Nevada Division of Environmental Protection, approximately $3.4 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 while addressing environmental concerns. In 2021, one operator received the Nevada Excellence in Mine Reclamation Awards for their exemplary efforts. NOV Inc. received an award for Innovative Reclamation and Closure for their work at the Big Ledge Barite Mine, West Waste Rock Facility, in Elko County. Information on the award and past award winners can be found at https://minerals.nv.gov/Programs/Mining/MiningExcMineRec/.

Gold Reserves

Gold reserves are defined as that portion of a gold deposit known to be economically feasible for extraction. The amount of stated reserves changes with commodity prices and operating costs or when new reserves are added through exploration. Extensive gold resources 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 or the application of gross

Table 2. 2021 Nevada Metal Production, by Producer

<table>
<thead>
<tr>
<th>Operator</th>
<th>Gold (ozs)</th>
<th>Silver (ozs)</th>
<th>Copper (lbs)</th>
<th>Moly (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nevada Gold Mines</td>
<td>3,354,029</td>
<td>1,600,225</td>
<td>36,736,179</td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>450,567</td>
<td>808,072</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSR Mining</td>
<td>235,282</td>
<td>4,285</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First Majestic Silver</td>
<td>98,303</td>
<td>1,809</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hycroft Mining</td>
<td>56,045</td>
<td>397,546</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida Canyon Mining (Argonaut Gold)</td>
<td>51,175</td>
<td>27,681</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortitude Gold</td>
<td>46,459</td>
<td>44,551</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calibre Gold</td>
<td>45,783</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McEwen Mining</td>
<td>43,881</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KGHM International</td>
<td>41,050</td>
<td>NR</td>
<td>123,700,000</td>
<td>240,000</td>
</tr>
<tr>
<td>Coeur</td>
<td>27,985</td>
<td>3,158,017</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rawhide Mining</td>
<td>23,209</td>
<td>126,510</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I-80 Gold</td>
<td>17,442</td>
<td>3,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gold Acquisition Corp.</td>
<td>5,388</td>
<td>12,773</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boreal Mining</td>
<td>3,936</td>
<td>6,473</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineral Ridge Gold</td>
<td>1,827</td>
<td>1,154</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nevada Copper</td>
<td>NR</td>
<td>NR</td>
<td>3,296,515</td>
<td></td>
</tr>
<tr>
<td>Geo-Nevada</td>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Klondex (Hecla)</td>
<td>0</td>
<td>26,214</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>4,502,364</strong></td>
<td><strong>6,218,814</strong></td>
<td><strong>163,732,694</strong></td>
<td><strong>240,000</strong></td>
</tr>
</tbody>
</table>
royalties levied on production can have the same effect as a lowering of the gold price, thereby reducing reserves. For the larger operating mines, the publicly reported reserves for the year ending 2021 totaled approximately 56 million ounces of gold. Assuming similar economic conditions without any reserve replacement, current reserves are sufficient to sustain gold production near current levels in Nevada for about ten years (table 3).

Exploration

Exploration for new deposits is an ongoing effort by both the existing operating companies and many others who do not yet 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 are closely tied to economic conditions and commodity prices. To quantify the level of exploration activity and the factors responsible for those levels, the Division contracted with the Nevada Bureau of Mines and Geology, who released the results of the biennial exploration survey in early 2021, using 2019 and projected 2020 data. This informative report, which can be downloaded at http://pubs.nbmg.unr.edu/NV-exploration-survey-2020-p/es2020.htm, revealed that precious metals exploration accounted for 63 percent ($164 million) of $261 million total exploration spending, down significantly from $461 million total spent in 2018. Two large companies accounted for nearly 40 percent of the total spending. Approximately 599 people were directly employed by companies doing exploration activities in Nevada in 2019, down from 784 in 2018. Exploration for base metals accounted for 21 percent ($55 million) and exploration for lithium and other energy metals continues to be significant at 16 percent ($42 million).

Table 3. Nevada Mine Reserves (Proven and Probable) Reported for End of Year 2021

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine</th>
<th>Gold (ozs)</th>
<th>Silver (ozs)</th>
<th>Copper (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argonaut Gold</td>
<td>Florida Canyon</td>
<td>921,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coeur</td>
<td>Rochester</td>
<td>1,080,000</td>
<td>161,245,000</td>
<td></td>
</tr>
<tr>
<td>Calibre</td>
<td>Pan</td>
<td>190,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gold Aquisition</td>
<td>Relief Canyon</td>
<td>584,000</td>
<td>1,577,000</td>
<td></td>
</tr>
<tr>
<td>Fortitude Gold</td>
<td>Isabella Pearl</td>
<td>109,700</td>
<td>954,100</td>
<td></td>
</tr>
<tr>
<td>Hecla</td>
<td>Fire Creek</td>
<td>61,000</td>
<td>128,000</td>
<td></td>
</tr>
<tr>
<td>Hecla</td>
<td>Hollister</td>
<td>51,000</td>
<td>217,000</td>
<td></td>
</tr>
<tr>
<td>Hecla</td>
<td>Midad</td>
<td>33,000</td>
<td>444,000</td>
<td></td>
</tr>
<tr>
<td>KGHM</td>
<td>Robinson</td>
<td>263,000</td>
<td></td>
<td>716,000,000</td>
</tr>
<tr>
<td>Kinross</td>
<td>Bald Mountain</td>
<td>798,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>Round Mountain</td>
<td>3,037,000</td>
<td>1,146,000</td>
<td></td>
</tr>
<tr>
<td>McEwen</td>
<td>Gold Bar</td>
<td>302,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nevada Copper</td>
<td>Pumpkin Hollow</td>
<td>419,000</td>
<td>14,544</td>
<td>6,503,000</td>
</tr>
<tr>
<td>NV Gold Mines</td>
<td>Carlin Operations (Includes Goldstrike &amp; Arturo)</td>
<td>19,512,195</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NV Gold Mines</td>
<td>Cortez &amp; Goldrush</td>
<td>9,756,098</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NV Gold Mines</td>
<td>Long Canyon</td>
<td>357,724</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NV Gold Mines</td>
<td>Phoenix</td>
<td>2,926,829</td>
<td>34,146,341</td>
<td>845,528,455</td>
</tr>
<tr>
<td>NV Gold Mines</td>
<td>Turquoise Ridge &amp; Twin Creeks</td>
<td>12,520,325</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSR</td>
<td>Marigold</td>
<td>3,410,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Totals 56,331,871 199,871,885 1,568,031,455
Oil and Geothermal Activity

Economic activity from oil and gas exploration and production is relatively minor when compared to mining but is 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. According to the U.S. Energy Information Administration, the price for a barrel of West Texas Intermediate crude in 2021 ranged from a monthly average low of $52.01 to a high of $81.48 and averaged $67.99 for the year, versus $39.23 in 2020. Nevada’s oil production in 2021 increased by 3.2% from 218,372 barrels (42 gallons per barrel) in 2020 to 288,342 barrels sold, worth approximately $15.2 million. This increase was largely due to increased oil prices and the easing of pandemic-based restrictions resulting in increased travel. Table 4 summarizes the number of producing wells and the number of barrels sold by operator and oil field in 2021.

Nevada is rich in geothermal resources and is second only to California in the production of geothermal energy. For 2021, Nevada had 26 plants at 17 geothermal fields that sold approximately 4 million megawatt hours of electricity, worth approximately $319 million (table 5). According to the U.S. Energy Information Association, this is sufficient to power approximately 377,000 residential homes in Nevada 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.

Table 4. Nevada Oil Production in 2021

<table>
<thead>
<tr>
<th>Operator</th>
<th>Producing Field</th>
<th># of Producing Wells</th>
<th>Total Barrels Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Makoil</td>
<td>Trap Spring</td>
<td>43</td>
<td>164,668</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Grant Canyon</td>
<td>4</td>
<td>34,909</td>
</tr>
<tr>
<td>Kirkwood</td>
<td>Eagle Springs</td>
<td>19</td>
<td>31,969</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Blackburn</td>
<td>8</td>
<td>20,087</td>
</tr>
<tr>
<td>Western General</td>
<td>Kate Spring</td>
<td>6</td>
<td>13,696</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Bacon Flat</td>
<td>2</td>
<td>8,326</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Three Bar</td>
<td>2</td>
<td>7,204</td>
</tr>
<tr>
<td>Kirkwood</td>
<td>Ghost Ranch</td>
<td>3</td>
<td>5,821</td>
</tr>
<tr>
<td>Grant Canyon</td>
<td>Sans Spring</td>
<td>3</td>
<td>796</td>
</tr>
<tr>
<td>Tomera Oil Fields</td>
<td>Tomera Ranch</td>
<td>2</td>
<td>391</td>
</tr>
<tr>
<td>Makoil</td>
<td>Ghost Ranch</td>
<td>1</td>
<td>271</td>
</tr>
<tr>
<td>Kirkwood</td>
<td>Sand Dune</td>
<td>1</td>
<td>204</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>94</strong></td>
<td><strong>288,342</strong></td>
</tr>
</tbody>
</table>

Table 5. Nevada Geothermal Production in 2021 by Company

<table>
<thead>
<tr>
<th>Company</th>
<th>Total Output (Sales) MWh</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ormat Nevada Inc.</td>
<td>3,293,926</td>
<td>83%</td>
</tr>
<tr>
<td>Cyq Energy</td>
<td>494,849</td>
<td>12.5%</td>
</tr>
<tr>
<td>Enel North America Inc.</td>
<td>157,658</td>
<td>4%</td>
</tr>
<tr>
<td>Homestretch Energy/Whitegrass No. 1 LLC</td>
<td>25,549</td>
<td>0.6%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,971,982</strong></td>
<td></td>
</tr>
</tbody>
</table>
Conclusion

Nevada’s mineral industry continues to be a major economic force in the state. Nevada is a major natural resource producer and has significant mineral and energy resources. Given a stable price and regulatory environment, this situation should continue for many years to come. Major factors affecting the stability of the minerals industry are potential future withdrawals of resource-rich federal lands from mineral entry and leasing, and significant changes to taxation on mineral production.

As exploration for critical minerals takes a front seat, Nevada is a prime location to explore. Of the 50 critical minerals published in the Federal Register on February 24, 2022, 33 minerals have known occurrences or deposits in Nevada. With its rich mineral endowment and stable regulatory environment, Nevada ranked as the 3rd best mining jurisdiction in the world based on the Investment Attractiveness Index in the Fraser Institute’s 2021 annual survey.

Data

The Nevada Division of Minerals and the Nevada Bureau of Mines and geology continuously strive to provide data for the mineral, oil-gas, and geothermal exploration and mining community. The websites listed below have been developed to provide spatial data for Nevada explorers and beyond.

Nevada Division of Minerals
Open Data Site
https://data-ndom.opendata.arcgis.com/

Nevada Bureau of Mines and Geology
Open Data Site
https://data-nbmg.opendata.arcgis.com/

C.L.A.I.M.S.
miningclaim.org
<table>
<thead>
<tr>
<th>Index</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams Claim Gypsum Mine</td>
<td>5</td>
</tr>
<tr>
<td>Amargosa Clay Operation</td>
<td>19</td>
</tr>
<tr>
<td>Apex Quarry</td>
<td>21</td>
</tr>
<tr>
<td>Argenta Mine</td>
<td>12</td>
</tr>
<tr>
<td>Arturo Mine</td>
<td>14</td>
</tr>
<tr>
<td>Aurora Mine</td>
<td>17</td>
</tr>
<tr>
<td>Bald Mountain Mine</td>
<td>15</td>
</tr>
<tr>
<td>Basalt Diatomite Mine</td>
<td>18</td>
</tr>
<tr>
<td>Betze-Post Mine</td>
<td>11</td>
</tr>
<tr>
<td>Blanco Mine</td>
<td>18</td>
</tr>
<tr>
<td>Borealis Mine</td>
<td>17</td>
</tr>
<tr>
<td>Buff/Satin Mine</td>
<td>8</td>
</tr>
<tr>
<td>Eastern Nevada Operations (Carlin)</td>
<td>11</td>
</tr>
<tr>
<td>Churchill Limestone Quarry</td>
<td>16</td>
</tr>
<tr>
<td>Clark Mine</td>
<td>5</td>
</tr>
<tr>
<td>Coeur Rochester Mine</td>
<td>8</td>
</tr>
<tr>
<td>Colado Mine</td>
<td>8</td>
</tr>
<tr>
<td>Cortez Hills Underground Mine</td>
<td>12</td>
</tr>
<tr>
<td>Denton-Rawhide Mine</td>
<td>17</td>
</tr>
<tr>
<td>Empire Gypsum Mine</td>
<td>8</td>
</tr>
<tr>
<td>Fernley Diatomite Operations</td>
<td>16</td>
</tr>
<tr>
<td>Fire Creek Mine</td>
<td>12</td>
</tr>
<tr>
<td>Florida Canyon Mine</td>
<td>8</td>
</tr>
<tr>
<td>Gold Bar Mine</td>
<td>11</td>
</tr>
<tr>
<td>Goldrush 11</td>
<td></td>
</tr>
<tr>
<td>Greystone Mine</td>
<td>12</td>
</tr>
<tr>
<td>Hazen Mine</td>
<td>17</td>
</tr>
<tr>
<td>Hollister Mine</td>
<td>14</td>
</tr>
<tr>
<td>Huck Salt</td>
<td>17</td>
</tr>
<tr>
<td>Hycroft Mine</td>
<td>6</td>
</tr>
<tr>
<td>Isabella Pearl Mine</td>
<td>17</td>
</tr>
<tr>
<td>Jerritt Canyon Mine</td>
<td>14</td>
</tr>
<tr>
<td>Lima Nevada Gypsum Mine</td>
<td>21</td>
</tr>
<tr>
<td>Lone Tree Complex</td>
<td>6</td>
</tr>
<tr>
<td>Long Canyon Mine</td>
<td>15</td>
</tr>
<tr>
<td>Ludwig Mine</td>
<td>5</td>
</tr>
<tr>
<td>Maggie Creek Operation</td>
<td>11</td>
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<tr>
<td>Manhattan Gulch</td>
<td>19</td>
</tr>
<tr>
<td>Marigold Mine</td>
<td>7</td>
</tr>
<tr>
<td>Meikle Mine</td>
<td>15</td>
</tr>
<tr>
<td>Midas Mine</td>
<td>15</td>
</tr>
<tr>
<td>MIN-AD Mine</td>
<td>7</td>
</tr>
<tr>
<td>Mineral Ridge Mine</td>
<td>19</td>
</tr>
<tr>
<td>Mt. Moriah Quarry</td>
<td>15</td>
</tr>
<tr>
<td>Mountain Springs Mine</td>
<td>12</td>
</tr>
<tr>
<td>NCC Flanigan Mine</td>
<td>5</td>
</tr>
<tr>
<td>NCC Fernley Operations</td>
<td>5</td>
</tr>
<tr>
<td>NCC Mustache Mine</td>
<td>5</td>
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<td>Silver Peak Lithium Operations</td>
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<td>Tenacity Perlite Mine</td>
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<tr>
<td>Turquoise Ridge Underground Mine &amp; Twin Creeks Mine</td>
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