NEVADA COMMISSION ON MINERAL RESOURCES
Division of Minerals

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

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Dennis Bryan, Vice-Chairman (Small-Scale Mining and Prospecting)
Nigel Bain (Large-Scale Mining)
Arthur Henderson (Oil and Gas)
Mary Kepsh (Public at Large)
Bob Fekler (Exploration and Development)
John R. Snow (Geothermal Resources)

Division of Minerals Staff

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Linda Wells - Program Office II

The Nevada Bureau of Mines and Geology

The Nevada Bureau of Mines and Geology (NBMG) is a research and public service unit of the University of Nevada and is the State geological survey. NBMG is part of the Mackay School of Earth Sciences and Engineering at the University of Nevada, Reno.

NBMG scientists conduct research and publish reports on mineral resources, engineering geology, environmental geology, hydrogeology, and geologic mapping. Individuals interested in Nevada geology are encouraged to visit, call, write NBMG, or visit our home page.

http://www.nbmg.unr.edu

Most NBMG scientists (Director and research faculty), cartographic, and administrative staff are located on the University of Nevada campus. 775-794-6690

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Please contact the Information Office for information on aerial photographs; cuttings, core, and well records for oil, gas, and geothermal; and general geological information.
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This is the twenty-ninth 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 2017 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, 2017 (centerfold map)

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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: 46
Production:
  Gypsum - 388,368 tons
  Limestone - 4,924 tons

NCC Fernley Operations (2)
Operator: Nevada Cement Co.
P.O. Box 840
Fernley, NV 89408
775-575-2281   Fax: 575-4387
Company employees: 120
Production:
  Limestone - 94,687 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
Production:
  Diatomite - 87,112 tons

**Washoe County**

NCC Flanigan Mine (4)
Operator: Nevada Cement Co.
P.O. Box 840
Fernley, NV 89408
775-575-2281   Fax: 575-4387
Production:
  Specialty clays - 13,655 tons
Section II

Humboldt County

Hycroft Mine (1)
Operator:
Hycroft Mining Company
P.O. Box 3030
Winnemucca, NV 89446
775-623-5260  Fax: 201-1045
Company employees: 26
Contract employees: 9
Production:
Gold - 1,866 oz
Silver - 6,067 oz

Lone Tree Complex (2)
Operator:
Newmont Mining Corp.
1655 Mountain City Highway
Elko, NV 89801
775-778-4000  Fax: 778-4360
Company employees: 51
Contract employees: 29
Production:
Gold - 41,784 oz
Marigold Mine (3)
Operator:
   SSR Mining
   P.O. Box 160
   Valmy, NV 89438
   775-635-2317   Fax: 635-2551
   Company employees: 384
   Contract employees: 7
Production:
   Gold - 202,239 oz
   Silver - 3,216 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 - 47,525 tons (shipped)

Turquoise Ridge Joint Venture (5)
Operator:
   Barrick Gold Corporation
   2055 Getchell Mine Road
   Golconda, NV 89414
   775-529-5001   Fax: 748-3125
   Company employees: 480
   Contract employees: 100
Production:
   Gold - 369,000 oz

Twin Creeks Mine (6)
Operator:
   Newmont Mining Corp.
   1655 Mountain City Highway
   Elko, NV 89801
   775-778-4000   Fax: 778-4360
   Company employees: 470
   Contract employees: 227
Production:
   Gold - 374,740 oz
   Silver - 181,104 oz
**Pershing County**

**Coeur Rochester Mine (7)**  
Operator:  
Coeur Rochester, Inc.  
P.O. Box 1057  
Lovelock, NV 89419  
775-273-7995 Fax: 273-7423  
Company employees: 287  
Contract employees: 28  
Production:  
Gold - 51,051 oz  
Silver - 4,713,574 oz

**Colado Mine (8)**  
Operator:  
EP Minerals, LLC  
P.O. Box 959  
Lovelock, NV 89419  
775-824-7591 Fax: 824-7595  
Company employees: 35  
Production:  
Diatomite - 199,488 tons

**Empire Gypsum Mine (9)**  
Operator:  
Empire Mining Co., LLC  
P.O. Box 157  
Gerlach, NV 89412  
775-600-9886 Fax: 702-921-9552  
Company employees: 50  
Contract employees: 5  
Production:  
Gypsum - 600,000 tons

**Florida Canyon Mine (10)**  
Operator:  
Rye Patch Mining U.S.  
P.O. Box 330  
Imlay, NV 89418  
775-538-7300 Fax: 538-7324  
Company employees: 173  
Contract employees: 24  
Production:  
Gold - 28,157 oz  
Silver - 21,128 oz

**Relief Canyon Limestone Quarry (11)**  
Operator:  
Nevada Cement Company  
P.O. Box 840  
Fernley, NV 89408  
775-575-2281 Fax: 575-4387  
Company employees: 6  
Production:  
Limestone - 46,044 tons

**Sunrise Placer Mine (12)**  
Operator:  
Sunrise Minerals, LLC  
7343 S. Alton Wy., Ste. 100  
Centennial, CO 80112  
775-340-7044 Fax: 623-5043  
Company employees: 8  
Production:  
Gold - 546 oz  
Silver - 91 oz
Jersey Valley geothermal power plant, Pershing County (Lowell Price 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: 1,123
Production:
   Gold - 433,422 oz
   Silver - 96,541 oz

Ruby Hill Mine (3)
Operator:
   Ruby Hill Mining Co.
   P.O. Box 676
   Eureka, NV 89316
   775-401-6435
   Company employees: 16
Production:
   Gold - 4,463 oz
   Silver - 4,263 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: 2,155
   Contract employees: 431
Production:
   Gold - 971,613 oz
   Silver - 74,594 oz
Lander County

Argenta Mine (4)
Operator:
  Baker Hughes, Inc.
  P.O. Box 277
  Battle Mountain, NV 89820
  775-625-8700 Fax: 635-5455
Company employees: 15
Shipped:
  Barite - 62,263 tons

Cortez Hills Mine (5)
Operator:
  Barrick Cortez, Inc.
  HC66 Box 1250
  Crescent Valley, NV 89821
  775-468-4400 Fax: 468-4496
Company employees: 322
Contract employees: 130
Production:
(underground only, excluding the open-pit)
  Gold - 336,063 oz
  Silver - 55,284 oz

Fire Creek Mine (6)
Operator:
  Klondex Gold and Silver Mining Co.
  (Acquired by Hecla Mining Co., July 2018)
  6110 Plumas St., Ste. A
  Reno, NV 89519
  775-284-5757 Fax: 284-5756
Company employees: 84
Contract employees: 39
Production:
  Gold - 107,143 oz
  Silver - 72,283 oz

Greystone Mine (7)
Operator:
  M-I Swaco
  P.O. Box 370
  Battle Mountain, NV 89820
  775-635-5135
Company employees: 56
Shipped:
  Barite - 133,000 tons

Mountain Spring Mine (8)
Operator:
  M-I Swaco
  P.O. Box 370
  Battle Mountain, NV 89820
  775-635-5135
Company employees: 4
Shipped:
  Barite - 146,900 tons

Pipeline Mine (9)
Operator:
  Barrick Cortez, Inc.
  HC66 Box 1250
  Crescent Valley, NV 89821
  775-468-4400 Fax: 468-4496
Company employees: 932
Contract employees: 425
Production:
(includes the Cortez Hills open-pit)
  Gold - 902,887 oz
  Silver - 28,690 oz

Phoenix Mine (10)
Operator:
  Newmont Mining Corp.
  P.O. Box 1657
  Battle Mountain, NV 89820
  775-635-9000 Fax: 778-4600
Company employees: 471
Contract employees: 133
Production:
  Gold - 197,026 oz
  Silver - 1,191,630 oz
  Copper - 33,178,523 pounds
Employees celebrate the first round of development mining at Newmont’s Twin Underground project, Humboldt County (Newmont Mining photo).
Section IV

Elko County

Arturo Mine (1)
Operator:
Barrick Goldstrike Mines, Inc.
P.O. Box 29
Elko, NV 89803
775-748-1001
Company employees: 7
Production:
Gold - 142,810 oz

Hollister Mine (2)
Operator:
Klondex Hollister Mine, Inc.
(Acquired by Hecla Mining Co., July 2018)
6110 Plumas St., Ste. A
Reno, NV 89519
775-284-5757 Fax: 284-5756
Company employees: 87
Contract employees: 28
Production:
Gold - 6,751 oz
Silver - 47,305 oz

Jerritt Canyon Mine (3)
Operator:
Jerritt Canyon Gold, LLC
HC31 Box 78
Elko, NV 89801
775-738-5600 Fax: 758-9233
Company employees: 240
Contract employees: 210
Production:
Gold - 129,439 oz

Elko and White Pine continued on page 15 after the centerfold
Sedimentary layering at EP Minerals’ Clark diatomite mine, Storey County (Courtney Brailo photo).

Haul trucks being loaded at KGHM’s Robinson copper mine, White Pine County (Rich Perry photo).

**Industrial Minerals**
1. Adams Claim Gypsum Mine
2. Amargosa Clay Operation
3. Apex Limestone Quarry
4. Argenta Barite Mine
5. Basalt Diatomite Mine
6. Blanco Clay Mine
7. Blue Diamond Gypsum Mine
8. Churchill Limestone Mine
9. Clark Diatomite Mine
10. Colado Diatomite Mine
11. Empire Gypsum Mine
12. Fernley Diatomite Operations
13. Greystone Barite Mine
14. Hazen Diatomite Mine
15. Heart of Nature Gypsum Mine
16. Huck Salt Mine
17. Lima Nevada Gypsum Mine
18. MIN-AD Dolomite Mine
19. Mt. Moriah Quartzite Quarry
20. Mountain Spring Barite Mine
21. NCC Fernley Limestone Ops.
22. NCC Flanagan Clay Mine
23. New Discovery Mine
24. Nightingale Diatomite Mine
25. PACCO Gypsum
26. Perlite Mine
27. Pilot Peak Limestone Quarry
28. Premier Magnesia
29. Rainbow Quarry
30. Relief Canyon Limestone Mine
31. Rossi Barite Mine
32. Silver Peak Lithium Ops.
33. Simplot Silica Products
34. Tenacity Perlite Mine

**Metals**
1. Arturo Mine
2. Aurora Mine
3. Bald Mountain Mine
4. Betze-Post Mine
5. Borealis Mine
6. Carlin Operations (many mines)
7. Coeur Rochester Mine
8. Cortez Hills and Pipeline Mines
9. Denton-Rawhide Mine
10. Fire Creek Mine
11. Florida Canyon Mine
12. Hollister Mine
13. Hycroft Mine
14. Jennit Canyon Mine
15. Lone Tree Complex
16. Long Canyon Mine
17. Marigold Mine
18. Meikle Mine
19. Midas Mine
20. Mineral Ridge Mine
21. Pan Mine
22. Phoenix Mine
23. Robinson Mine
24. Ruby Hill Mine
25. Smoky Valley Common Ops.
26. Sterling Mine
27. Sunrise Placer Mine
28. Turquoise Ridge Joint Venture
29. Twin Creeks Mine

**Oil Fields**
1. Blackburn Field
2. Railroad Valley (Eagle Springs, Trap Spring, Sand Dune, Grant Canyon, Bacon Flat, Kate Spring, Sans Spring, and Ghost Ranch Fields)
3. Tomera Ranch Field

**Geothermal Power Plants**
1. Beowawe
2. Brady's Hot Springs
3. Desert Peak 2
4. Dixie Valley
5. San Emidio
6. Soda Lake 1 and 2
7. Steamboat I, IA, II, and III, Galena
8. Stillwater 1 and 2
9. Wabuska
10. Steamboat Hills
11. Salt Wells
12. Blue Mountain
13. Tuscarora
14. Jersey Valley
15. McGinnis Hills
16. Patua
17. Wild Rose
18. Tungsten Mountain
Sedimentary layering at EP Minerals’ Clark diatomite mine, Storey County (Courtney Brailo photo).

Haul trucks being loaded at KGHM’s Robinson copper mine, White Pine County (Rich Perry photo).
Section IV (continued)

Long Canyon Mine (4)
Operator:
Newmont USA, Ltd.
1655 Mountain City Highway
Elko, NV 89801
775-778-4000
Company employees: 244
Production:
Gold - 174,462 oz

Meikle Mine (5)
Operator:
Barrick Goldstrike Mines, Inc.
P.O. Box 29
Elko, NV 89803
775-748-1001  Fax: 748-1240
Company employees: 584
Production:
Gold - 332,315 oz
Silver - 20,632 oz

Midas Mine (6)
Operator:
Klondex Midas Operations, Inc.
(Acquired by Hecla Mining, Co., July 2018)
6110 Plumas St., Ste. A
Reno, NV 89519
775-284-5757  Fax: 284-5756
Company employees: 121
Contract employees: 47
Production:
Gold - 34,343 oz
Silver - 780,316 oz

Pilot Peak Quarry (7)
Operator:
Graymont
P.O. Box 2520
West Wendover, NV 89883
775-483-5463  Fax: 801-262-3942
Company employees: 69
Production:
Limestone - 1,465,164 tons

Rossi Mine (8)
Operator:
Halliburton Energy Solutions
912 Dunphy Ranch Rd.
Battle Mountain, NV 89820
720-593-7115
Company employees: 5
No mine production in 2017

White Pine County

Bald Mountain Mine (9)
Operator:
KG Mining (Bald Mountain), Inc.
435 Jiggs Hwy., Unit 16
Spring Creek, NV 89815
775-237-7100  Fax: 237-7101
Company employees: 550
Contract employees: 200
Production:
Gold - 281,597 oz
Silver - 82,271 oz

Mt. Moriah Quarry (10)
Operator:
Mt. Moriah Stone Quarries
#10 Hatch Rock Rd.
Baker, NV 89311
435-855-2232  Fax: 855-2332
Company employees: 40
Production:
Quartzite - 4,966 tons

Pan Mine (11)
Operator:
Fiore Gold (US), Inc.
P.O. Box 150278
Ely, NV 89315
775-396-1901
Company employees: 42
Contract employees: 63
Production:
Gold - 15,652 oz

Robinson Mine (12)
Operator:
KGHM International, Ltd.
P.O. Box 382
Ruth, NV 89319
775-289-7000  Fax: 289-7349
Company employees: 579
Contract employees: 25
Production:
Copper - 112,633,428 pounds
Gold - 37,897 oz
Molybdenite - 652,763 pounds
Section V

Churchill County

Churchill Limestone Quarry (1)

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

Production:
Limestone - 376,628 tons
Fernley Diatomite Operations (2)
Operator:
EP Minerals, LLC
P.O. Box 860
Fernley, NV 89408
775-423-6668 Fax: 423-6411
Company employees: 35
Production:
Diatomite - 31,221 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 - 9,363 tons

Huck Salt (4)
Operator:
Huck Salt Company
2900 Phritzie Ln.
Fallon, NV 89406
775-423-2055 Fax: 423-0467
Company employees: 9
Shipped:
Salt - 24,855 tons

Nightingale Mine (5)
Operator:
Imerys Filtration Minerals, Inc.
100 Front Street
Fernley, NV 89408
775-575-2536 Fax: 575-1570
Company employees: 15
Contract employees: 6
Production:
Diatomite - 28,300 tons

Perlite Mine (6)
Operator:
EP Minerals, LLC
640 Clark Station
Sparks, NV 89434
775-824-7700 Fax: 824-7715
Company employees: 2
Production:
Perlite - 10,754 tons

Aurora Mine (7)
Operator:
Klondex Aurora Mine, Inc.
(Acquired by Hecla Mining Co., July 2018)
6110 Plumas St., Ste. A
Reno, NV 89519
775-284-5757 Fax: 284-5756
Company employees: 12
Contract employees: 9
Production:
Gold - 922 oz
Silver - 4,854 oz

Mineral County

Borealis Mine (8)
Operator:
Borealis Mining Company, LLC
P.O. Box 549
Hawthorne, NV 89415
775-826-7567
Company employees: 6
Production:
Gold - 300 oz
Silver - 508 oz

Denton-Rawhide Mine (9)
Operator:
Rawhide Mining, LLC
P.O. Box 2070
Fallon, NV 89407
775-945-1015 Fax: 945-1213
Company employees: 56
Contract employees: 2
Production:
Gold - 18,379 oz
Silver - 213,481 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
Production: Diatomite - 2,422 tons

**Blanco Mine (2)**
Operator: Vanderbilt Minerals, Inc.
P.O. Box 6660
Pahrump, NV 89041
775-537-6976 Fax: 537-6879
Company employees: 4
Production: Specialty Clays - 4,243 tons
Heart of Nature (3)
Operator:
Heart of Nature, LLC
3055 Saint Rose Parkway #778203
Henderson, NV 89052
702-462-6690
Company employees: 1
Contract employees: 4
Production:
Gypsum/sulfur soil amendment
- 15,039 tons

Mineral Ridge Mine (4)
Operator:
Mineral Ridge Gold, LLC
1515 7th St.
Elko, NV 89801
702-799-9273   Fax: 775-753-4780
Company employees: 60
Contract employees: 20
Production:
Gold - 19,045 oz
Silver - 10,203 oz

Silver Peak Lithium Operations (5)
Operator:
Rockwood Lithium, Inc.
P.O. Box 98
Silver Peak, NV 89047
775-937-2222   Fax: 937-2317
Company employees: 70
Contract employees: 10
Shipped:
Lithium compounds - 10,233,342 lbs

New Discovery Mine (7)
Operator:
Vanderbilt Minerals, LLC
P.O. Box 6660
Pahrump, NV 89041
775-537-6976   Fax: 537-6879
Company employees: 4
Production:
Specialty clays - 2,200 tons

Premier Magnesia (8)
Operator:
Premier Magnesia, LLC
P.O. Box 177
Gabbs, NV 89409
775-285-2601   Fax: 285-4021
Company employees: 104
Contract employees: 10
Shipped:
Magnesium compounds - 112,139 tons

Smoky Valley Common Operation (9)
Operator:
Round Mountain Gold Corp.
P.O. Box 480
Round Mountain, NV 89045
775-377-2366   Fax: 377-3224
Company employees: 764
Contract employees: 236
Production:
Gold - 425,324 oz
Silver - 868,402 oz

Sterling Mine (10)
Operator:
Northern Empire Resources
(Acquired by Couer Mining, August 2018)
P.O. Box 549
Beatty, NV 89003
866-608-4381   Fax: 775-981-9044
Company employees: 5
Production:
Gold - 265 oz

Nye County

Amargosa Clay Operation (6)
Operator:
Lhoist North America
P.O. Box 86
Amargosa Valley, NV 89020
775-372-5341   Fax: 372-5320
Company employees: 29
Contract employees: 4
Production:
Specialty clays - 24,571 tons
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: 120
Contract employees: 2
Production:
Limestone - 1,254,000 tons
Dolomite - 268,000 tons

Blue Diamond Hill Mine (2)
Operator:
Gypsum Resource Materials, LLC
P.O. Box 147
Blue Diamond, NV 89004
702-830-3378 Fax: 441-7148
Company employees: 82
Contract employees: 4
Production:
Gypsum - 980,520 tons

Lima Nevada Gypsum Mine (3)
Operator:
H. Lima Nevada, LLC
704 E. Yosemite
Manteca, CA 95336
209-239-6787 Fax: 239-6778
Company employees: 10
Production:
Gypsum - 50,000 tons

PABCO Gypsum Mine (4)
Operator:
Pacific Coast Building Products, Inc.
P.O. Box 364329
North Las Vegas, NV 89036
702-407-3700 Fax: 643-6249
Company employees: 18
Contract employees: 1
Production:
Gypsum - 1,461,632 tons

Rainbow Quarry (5)
Operator:
Las Vegas Rock, Inc.
P.O. Box 19118
2 Jean Prison Rd.
Jean, NV 89019
702-791-7625 Fax: 896-4533
Company employees: 20
Production:
Meta-quartzite - 2,305 tons

Simplot Silica Products (6)
Operator:
J.R. Simplot Company
P.O. Box 308
Overton, NV 89040
702-397-2667 Fax: 397-2798
Company employees: 37
Shipped:
Silica sand - 727,088 tons

Lincoln County

Tenacity Perlite Mine (7)
Operator:
Wilkin Mining & Trucking, Inc.
HC 34 Box 199
Caliente, NV 89008
775-728-4463
Company employees: 5
Production:
Perlite - 2,530 tons
### Summary of 2017 production

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
</tr>
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<tbody>
<tr>
<td>Gold</td>
<td>5,641,538 ounces</td>
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<tr>
<td>Silver</td>
<td>8,477,388 ounces</td>
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<tr>
<td>Barite (shipped)</td>
<td>391,402 tons</td>
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<tr>
<td>Copper</td>
<td>145,811,951 pounds</td>
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<tr>
<td>Diatomite</td>
<td>277,043 tons</td>
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<tr>
<td>Dolomite</td>
<td>315,525 tons</td>
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<tr>
<td>Gypsum</td>
<td>3,484,350 tons</td>
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<tr>
<td>Limestone</td>
<td>3,241,447 tons</td>
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<tr>
<td>Lithium compounds (shipped)</td>
<td>10,233,342 pounds</td>
</tr>
<tr>
<td>Magnesium compounds (shipped)</td>
<td>112,139 tons</td>
</tr>
<tr>
<td>Molybdenite</td>
<td>652,763 pounds</td>
</tr>
<tr>
<td>Perlite</td>
<td>11,977 tons</td>
</tr>
<tr>
<td>Salt (shipped)</td>
<td>24,855 tons</td>
</tr>
<tr>
<td>Silica sand (shipped)</td>
<td>727,088 tons</td>
</tr>
<tr>
<td>Specialty clay</td>
<td>44,669 tons</td>
</tr>
</tbody>
</table>

---

**Nevada Mineral and Energy Production Values 1978-2017**

![Bar chart showing production values for various minerals and energies from 1978 to 2017.](chart.png)
Nevada’s mining industry recorded approximately $8.47 billion in total value of all commodities in 2017, representing a 4.1% increase from the $8.14 billion value in 2016. Nearly 86% of the value was driven by gold and silver, which contributed over $7.2 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 2017 were $1,257.12 and $17.04 per troy ounce, respectively. Nevada led the nation in 2017 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. 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 5,641,538 troy ounces in 2017 compared to 5,467,646 troy ounces in 2016, an increase of 3.2%. According to the USGS, Nevada remains the nation’s top gold producer with about 71% (175 metric tons) of the U.S. total (245 metric tons) and would rank 5th in world gold production behind China (400), Australia (300), Russia (255), and Canada (176). A summary of 2017 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 14,387 people in 2017. The average pay for mineral industry employees during this time was $95,121 per year, the second highest average of any employment sector in the state. Mining employment has remained an important factor in Nevada.

---

**Table 1. Summary of 2017 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>5,641,538</td>
<td>ounces</td>
<td>3.2%</td>
<td>$7,092,090,251</td>
<td>3.7%</td>
</tr>
<tr>
<td>Silver</td>
<td>8,477,388</td>
<td>ounces</td>
<td>-4.6%</td>
<td>$144,492,840</td>
<td>-5.1%</td>
</tr>
<tr>
<td>Barite (shipped)</td>
<td>391,402</td>
<td>tons</td>
<td>70.1%</td>
<td>$31,500,532</td>
<td>43.0%</td>
</tr>
<tr>
<td>Copper</td>
<td>145,811,951</td>
<td>pounds</td>
<td>-9.0%</td>
<td>$415,564,060</td>
<td>12.1%</td>
</tr>
<tr>
<td>Diatomite</td>
<td>277,043</td>
<td>tons</td>
<td>5.5%</td>
<td>$46,441,888</td>
<td>9.6%</td>
</tr>
<tr>
<td>Dolomite</td>
<td>315,525</td>
<td>tons</td>
<td>-2.5%</td>
<td>$4,419,714</td>
<td>5.4%</td>
</tr>
<tr>
<td>Gypsum</td>
<td>3,484,350</td>
<td>tons</td>
<td>6.4%</td>
<td>$42,745,295</td>
<td>14.8%</td>
</tr>
<tr>
<td>Limestone</td>
<td>3,241,447</td>
<td>tons</td>
<td>0.8%</td>
<td>$35,161,445</td>
<td>2.0%</td>
</tr>
<tr>
<td>Lithium compounds (shipped)</td>
<td>10,233,342</td>
<td>pounds</td>
<td>9.6%</td>
<td>$39,621,926</td>
<td>70.4%</td>
</tr>
<tr>
<td>Magnesium compounds (shipped)</td>
<td>112,139</td>
<td>tons</td>
<td>1.9%</td>
<td>$7,900,419</td>
<td>15.0%</td>
</tr>
<tr>
<td>Molybdenite</td>
<td>652,763</td>
<td>pounds</td>
<td>-20.7%</td>
<td>$5,329,614</td>
<td>-1.8%</td>
</tr>
<tr>
<td>Perlite</td>
<td>11,977</td>
<td>tons</td>
<td>-39.8%</td>
<td>$831,699</td>
<td>-38.8%</td>
</tr>
<tr>
<td>Salt (shipped)</td>
<td>24,855</td>
<td>tons</td>
<td>30.1%</td>
<td>$548,054</td>
<td>-10.4%</td>
</tr>
<tr>
<td>Silica sand (shipped)</td>
<td>727,088</td>
<td>tons</td>
<td>-3.7%</td>
<td>$19,846,588</td>
<td>-2.8%</td>
</tr>
<tr>
<td>Specialty clays</td>
<td>44,669</td>
<td>tons</td>
<td>-54.8%</td>
<td>$11,246,239</td>
<td>40.3%</td>
</tr>
<tr>
<td>Geothermal energy (sold)</td>
<td>3,323,882</td>
<td>megawatt hours</td>
<td>-0.6%</td>
<td>$242,362,149</td>
<td>-6.1%</td>
</tr>
<tr>
<td>Oil (sold)</td>
<td>280,970</td>
<td>barrels</td>
<td>0.9%</td>
<td>$12,889,724</td>
<td>24.7%</td>
</tr>
<tr>
<td>Aggregates</td>
<td>40,100,000</td>
<td>tons</td>
<td>6.1%</td>
<td>$313,000,000</td>
<td>5.0%</td>
</tr>
<tr>
<td><strong>Total Value</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$8,467,992,437</strong></td>
<td></td>
</tr>
</tbody>
</table>
Table 2. 2017 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>Barrick</td>
<td>2,424,247</td>
<td>201,147</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>1,851,875</td>
<td>1,448,264</td>
<td>33,178,523</td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>706,921</td>
<td>950,673</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSR Mining</td>
<td>202,239</td>
<td>3,216</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Klondex</td>
<td>149,159</td>
<td>904,758</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jerritt Canyon Gold</td>
<td>129,439</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coeur Rochester</td>
<td>51,051</td>
<td>4,713,574</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KGHM International</td>
<td>37,897</td>
<td>NR</td>
<td>112,633,428</td>
<td>652,763</td>
</tr>
<tr>
<td>Florida Canyon Mining</td>
<td>28,157</td>
<td>21,128</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineral Ridge Gold</td>
<td>19,045</td>
<td>10,203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rawhide Mining</td>
<td>18,379</td>
<td>213,481</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRP Pan</td>
<td>15,652</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ruby Hill Mining</td>
<td>4,463</td>
<td>4,263</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hycroft</td>
<td>1,866</td>
<td>6,067</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunrise Minerals</td>
<td>546</td>
<td>91</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Borealis Mining</td>
<td>300</td>
<td>508</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sterling Gold Mining</td>
<td>265</td>
<td>NR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Gold Nevada</td>
<td>23</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geo-Nevada</td>
<td>14</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>5,641,538</strong></td>
<td><strong>8,477,388</strong></td>
<td><strong>145,811,951</strong></td>
<td><strong>652,763</strong></td>
</tr>
</tbody>
</table>

**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 enhancement, recreation opportunities, or other natural resource uses. To ensure that reclamation is completed, 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 $2.78 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. For the larger operating mines, the publically reported reserves for the year ending 2017 totaled approximately 60 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, 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. In order 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 2017, using 2015 and 2016 data. This informative report, which can be downloaded at [http://pubs.nbmg.unr.edu/NV-exploration-survey-2016-p/es2016.htm](http://pubs.nbmg.unr.edu/NV-exploration-survey-2016-p/es2016.htm), revealed that gold exploration accounted for 86 percent ($278 million) of $325 million total exploration spending, down slightly from $348 million in 2015. Two large companies accounted for 38 percent of the total spending. Approximately 808 people were directly employed by companies doing exploration activities in Nevada in 2016, up from 745 in 2015. Interestingly, exploration for lithium was second in total exploration spending at $20.9M in 2016, followed closely by exploration for geothermal energy at $16.6M.

Oil and Geothermal Activity

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. Exploration activity and production were both negatively impacted by the price of crude in 2017. According to the U.S. Energy Information Administration, the price for a barrel of West Texas Intermediate crude in 2017 ranged from a monthly

Table 3. Nevada Mine Reserves (Proven and Probable) Reported for End of Year 2017

<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>Newmont</td>
<td>Carlin Operations</td>
<td>14,830,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>Phoenix</td>
<td>4,030,000</td>
<td></td>
<td>1,330,000,000</td>
</tr>
<tr>
<td>Newmont</td>
<td>Twin Creeks</td>
<td>3,410,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>Turquoise Ridge (25%)</td>
<td>1,980,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newmont</td>
<td>Long Canyon</td>
<td>1,070,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Goldstrike (OP and UG)</td>
<td>8,419,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Cortez</td>
<td>10,086,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Goldrush</td>
<td>1,481,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>Turquoise Ridge (75%)</td>
<td>5,878,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrick</td>
<td>South Arturo (60%)</td>
<td>365,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coeur</td>
<td>Rochester</td>
<td>757,000</td>
<td>117,623,000</td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>Round Mountain</td>
<td>2,884,000</td>
<td>1,371,000</td>
<td></td>
</tr>
<tr>
<td>Kinross</td>
<td>Bald Mountain</td>
<td>1,698,000</td>
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<td></td>
</tr>
<tr>
<td>SSR</td>
<td>Marigold</td>
<td>3,000,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Klondex</td>
<td>Midas</td>
<td>140,000</td>
<td>2,475,000</td>
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<tr>
<td>Klondex</td>
<td>Fire Creek</td>
<td>226,000</td>
<td>220,000</td>
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</tr>
<tr>
<td>Klondex</td>
<td>Hollister</td>
<td>110,000</td>
<td>624,000</td>
<td></td>
</tr>
<tr>
<td>KGHM</td>
<td>Robinson</td>
<td></td>
<td></td>
<td>565,400,000</td>
</tr>
</tbody>
</table>

Totals 60,364,000 122,313,000 1,895,400,000
average low of $42.48 to a high of $60.46 and averaged $50.80 for the year, versus $43.29 in 2016. Nevada’s oil production in 2017 increased slightly from 276,328 barrels (42 gallons per barrel) in 2016 to 280,970 barrels sold, worth approximately $12.9 million. Table 4 summarizes the number of barrels sold and wells by operator and field in 2017.

Nevada is rich in geothermal resources and is second only to California in the production of geothermal energy. For 2017, Nevada had 25 plants at 17 fields that sold approximately 3.3 million megawatt hours of electricity worth approximately $242 million, (table 5). According to the U.S. Energy Information Association, this is enough to power about 262,000 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 $8 billion in 2017. 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 opportunities for economic development well into the future.

#### Table 4. Nevada Oil Production in 2017

<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 Trap Spring</td>
<td></td>
<td>25</td>
<td>125,473</td>
</tr>
<tr>
<td>Grant Canyon Blackburn</td>
<td></td>
<td>6</td>
<td>40,762</td>
</tr>
<tr>
<td>Grant Canyon Grant Canyon</td>
<td></td>
<td>3</td>
<td>38,658</td>
</tr>
<tr>
<td>Kirkwood Eagle Springs</td>
<td></td>
<td>11</td>
<td>26,634</td>
</tr>
<tr>
<td>Western General Kate Spring</td>
<td></td>
<td>3</td>
<td>18,209</td>
</tr>
<tr>
<td>Kirkwood Ghost Ranch</td>
<td></td>
<td>3</td>
<td>9,275</td>
</tr>
<tr>
<td>Makoil Kate Spring</td>
<td></td>
<td>1</td>
<td>5,590</td>
</tr>
<tr>
<td>Grant Canyon Bacon Flat</td>
<td></td>
<td>1</td>
<td>5,416</td>
</tr>
<tr>
<td>Makoil Ghost Ranch</td>
<td></td>
<td>1</td>
<td>5,044</td>
</tr>
<tr>
<td>Western General Taylor Fed (Kate Spring)</td>
<td></td>
<td>2</td>
<td>3,104</td>
</tr>
<tr>
<td>Grant Canyon Sans Spring</td>
<td></td>
<td>1</td>
<td>1,678</td>
</tr>
<tr>
<td>Tomera Oil Fields Tomera Ranch</td>
<td></td>
<td>2</td>
<td>854</td>
</tr>
<tr>
<td>Noble Energy Huntington</td>
<td></td>
<td>1</td>
<td>163</td>
</tr>
<tr>
<td>Kirkwood Sand Dune</td>
<td></td>
<td>1</td>
<td>110</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td><strong>61</strong></td>
<td><strong>280,970</strong></td>
</tr>
</tbody>
</table>

#### Table 5. Nevada Geothermal Production in 2017 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>2,044,365</td>
<td>61.5%</td>
</tr>
<tr>
<td>Terra-Gen Dixie Valley LLC</td>
<td>475,833</td>
<td>14.3%</td>
</tr>
<tr>
<td>NGP Blue Mountain 1 LLC</td>
<td>229,622</td>
<td>6.9%</td>
</tr>
<tr>
<td>Enel North America Inc.</td>
<td>224,767</td>
<td>6.8%</td>
</tr>
<tr>
<td>Patua Project LLC (Cyrq as of 7/17)</td>
<td>111,135</td>
<td>3.3%</td>
</tr>
<tr>
<td>Beowawe Power LLC</td>
<td>98,166</td>
<td>3.0%</td>
</tr>
<tr>
<td>USG Nevada LLC</td>
<td>66,591</td>
<td>2.0%</td>
</tr>
<tr>
<td>Cyrq Energy</td>
<td>64,100</td>
<td>1.9%</td>
</tr>
<tr>
<td>Homestretch Energy</td>
<td>9,303</td>
<td>0.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,323,882</strong></td>
<td></td>
</tr>
</tbody>
</table>
Eagle Springs oil well, Railroad Valley, Nye County (Lowell Price photo).

Terra-Gen geothermal plant, Dixie Valley, Churchill County (Lowell Price photo).
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Adams Claim Gypsum Mine 5
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Betze-Post Mine 11
Blanco Mine 18
Blue Diamond Hill Mine 21
Borealis Mine 17
Carlin Operations 11
Churchill Limestone Quarry 16
Clark Mine 5
Coeur Rochester Mine 8
Colado Mine 8
Cortez Hills Mine 12
Denton-Rawhide Mine 17
Empire Gypsum Mine 8
Fernley Diatomite Operations 17
Fire Creek Mine 12
Florida Canyon Mine 8
Greystone Mine 12
Hazen Mine 17
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Huck Salt 17
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Lone Tree Complex 6
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Meikle Mine 15
Midas Mine 15
MIN-AD Mine 7
Mineral Ridge Mine 19
Mt. Moriah Quarry 15
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NCC Flanigan Mine 5
NCC Fernley Operations 5
New Discovery Mine 19
Nightingale Mine 17
PABCO Gypsum Mine 21
Pan Mine 15
Perlite Mine 17
Phoenix Mine 12
Pilot Peak Quarry 15
Pipeline Mine 12
Premier Magnesia 19
Rainbow Quarry 21
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Suggested Citation:
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.

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Dennis Bryan, Vice-Chairman (Small-Scale Mining and Prospecting)
Arthur Henderson (Oil and Gas)
Mary Korpi, Public at Large
Bob Felder (Exploration and Development)
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The Nevada Bureau of Mines and Geology

The Nevada Bureau of Mines and Geology (NBMG) is research and public service unit of the University of Nevada and is in the State geological survey. NBMG is part of the Mackay School of Earth Sciences and Engineering at the University of Nevada, Reno.

NBMG scientists conduct research and publish reports on mineral resources, engineering geology, environmental geology, hydrogeology, and geologic mapping. Individuals interested in Nevada geology are encouraged to visit, call, write NBMG, or visit our home page.

http://www.nbmg.unr.edu

Most NBMG scientists (Director and research faculty), cartographic, and administrative staff are located on the University of Nevada campus, 775-794-6600.

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