

Nevada Bureau of Mines and Geology

SPECIAL PUBLICATION P-17

Major Mines of Nevada 2005

Mineral Industries in Nevada's Economy

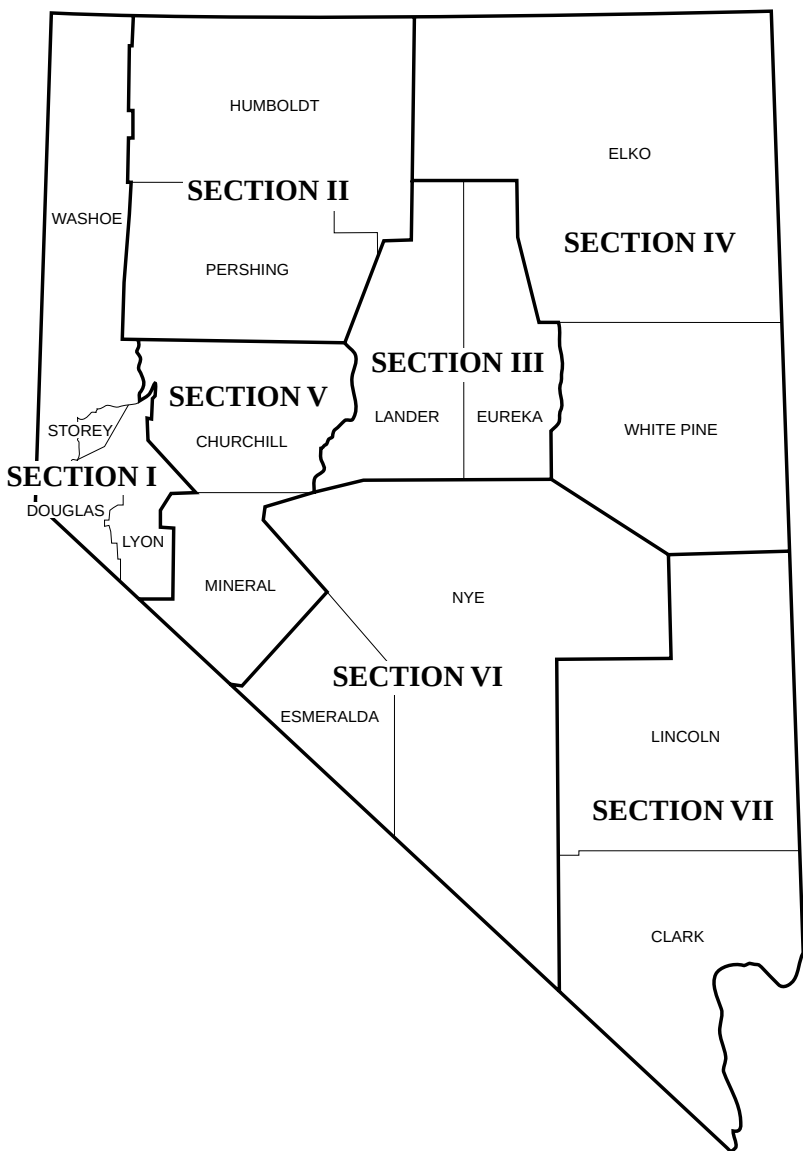
By Doug Driesner and Alan Coyner

The Nevada Division of Minerals

2006

This is the seventeenth 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 2005 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.state.nv.us>.

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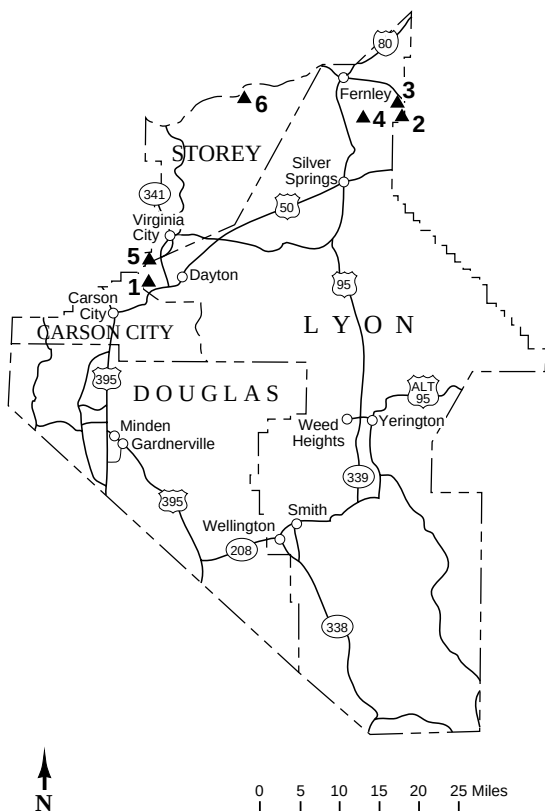
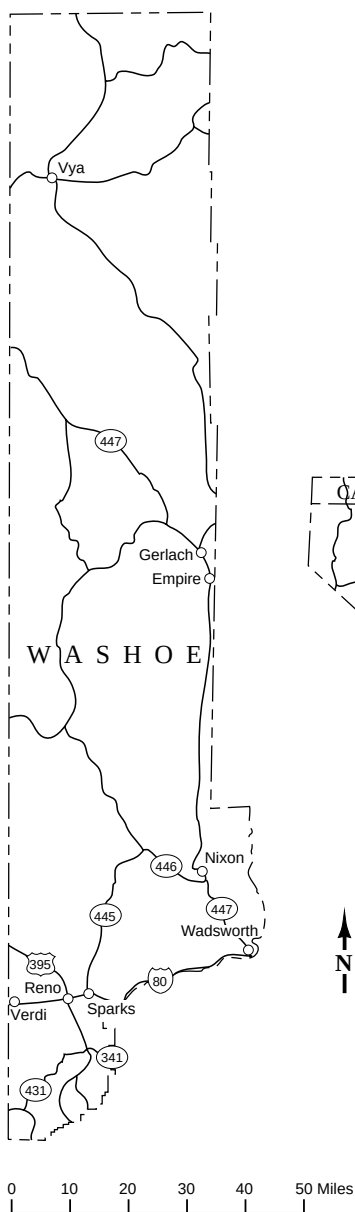
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Section I

Lyon County

Adams Claim Gypsum Mine (1)

Operator:

Art Wilson Co.
P.O. Box 20160
Carson City, NV 89702-1160
775-882-0700 Fax: 882-0790
Company employees: 47

Production:

Gypsum - 127,812 tons
Limestone

Celite Diatomite Mine (2)

Operator:

World Minerals, Inc.
100 Front Street
Fernley, NV 89408
775-575-2536 Fax: 575-4857
Company employees: 16
Contract employees: 2

Production:

Diatomite

Hazen Pit (3)

Operator:

Eagle-Picher Filtration &
Minerals, Inc.
640 Clark Station Rd.
Sparks, NV 89434
775-824-7700 Fax: 824-7715
Company employees: 2

Production:

Diatomite

NCC Limestone Quarry (4)

Operator:

Nevada Cement Co.
P.O. Box 840
Fernley, NV 89408
775-575-2281 Fax: 575-4387
Company employees: 115

Production:

Limestone/Clay

Storey County

Billy the Kid Mine (5)

Operator:

The Plum Mining Company LLC
P.O. Box 1118
Virginia City, NV 89440
775-847-5272 Fax: 847-4762
Company employees: 19
Contract employees: 10

Production:

Gold - 5,715 oz
Silver - 26,488 oz

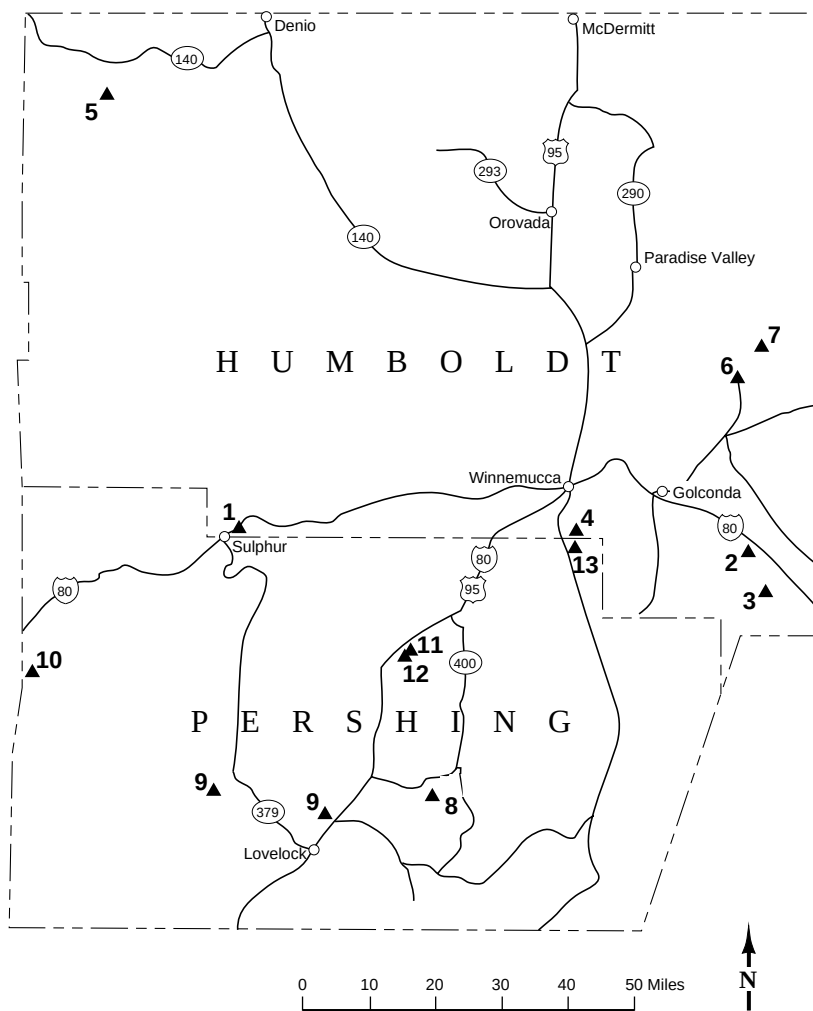
Clark Mine and Mill (6)

Operator:

Eagle-Picher Filtration
Minerals, Inc.
640 Clark Station Rd.
Sparks, NV 89434
775-824-7700 Fax: 824-7715
Company employees: 69

Production:

Diatomite



Section II

Humboldt County

Hycroft Mine (1)

Operator:

Hycroft Resources & Dev., Inc.
P.O. Box 3030
Winnemucca, NV 89446-5122
775-623-5260 Fax: 623-0215
Company employees: 4
Contract employees: 3

Production:

Gold - 106 oz
Silver - 63 oz

Lone Tree Mine (2)

Operator:

Newmont Mining Corp.
P.O. Box 388
Valmy, NV 89438
775-635-9000 Fax: 635-0111
Company employees: 586
(includes Phoenix, Mule
Canyon, and Trenton Canyon)

Production:

Gold - 339,187 oz
Silver - 46,934 oz

Marigold Mine (3)

Operator:

Glamis Gold Inc.
P.O. Box 160
Valmy, NV 89438
775-635-2317 Fax: 635-2551
Company employees: 178
Contract employees: 90

Production:

Gold - 205,663 oz
Silver - 1,723 oz

MIN-AD Mine and Mill (4)

Operator:

MIN-AD, Inc.
P.O. Box 39
Winnemucca, NV 89446
775-623-5944 Fax: 623-9028
Company employees: 16
Contract employees: 4

Production:

Dolomite

Royal Peacock Opal Mine (5)

Operator:

Walter Wilson
P.O. Box 165
Denio, NV 89404
775-941-0374

Production:

Precious opal

Turquoise Ridge

Joint Venture (6)

Operator:

Barrick Gold Corporation
HC66 Box 220
Golconda, NV 89414
775-529-5001 Fax: 529-0752
Company employees: 302
Contract employees: 73

Production:

Gold - 208,492 oz
Silver - 54,419 oz

Twin Creeks Mine (7)

Operator:

Newmont Mining Corp.
P.O. Box 69
Golconda, NV 89414
775-623-4300 Fax: 635-4602
Company employees: 567

Production:

Gold - 267,620 oz
Silver - 144,172 oz

Pershing County

Coeur Rochester Mine (8)

Operator:

Coeur Rochester, Inc.
P.O. Box 1057
Lovelock, NV 89419
775-273-7995 Fax: 273-7423
Company employees: 206

Production:

Gold - 70,298 oz
Silver - 5,720,489 oz

Colado Mine and Plant (9)

Operator:

Eagle-Picher Filtration &
Minerals, Inc.
150 Coal Canyon Road
Lovelock, NV 89419
775-824-7540 Fax: 824-7582
Company employees: 115

Production:

Diatomite, Perlite

Empire Mine (10)

Operator:

United States Gypsum Co.
P.O. Box 130
Empire, NV 89405
775-557-2341 Fax: 557-2212
Company employees: 131

Production:

Gypsum - 364,870 tons

Florida Canyon Mine (11)

Operator:

Florida Canyon Mining, Inc.
P.O. Box 330
Imlay, NV 89418
775-538-7300 Fax: 538-7324
Company employees: 100
(Included with Standard Mine)

Production:

Gold - 29,186 oz
Silver - 17,571 oz

Standard Mine (12)

Operator:

Standard Gold Mining, Inc.
P.O. Box 330
Imlay, NV 89418
775-538-7300 Fax: 538-7324
Company employees: 100
(Included with Florida
Canyon Mine)

Production:

Gold - 21,522 oz
Silver - 51,751 oz

W. Glen Sexton Family Trust (13)

Operator:

Nutritional Additives Corp.
415 Wellington Street
Winnemucca, NV 89445
775-623-1151 Fax: 623-1153
Company employees: 3

Production:

Dolomite



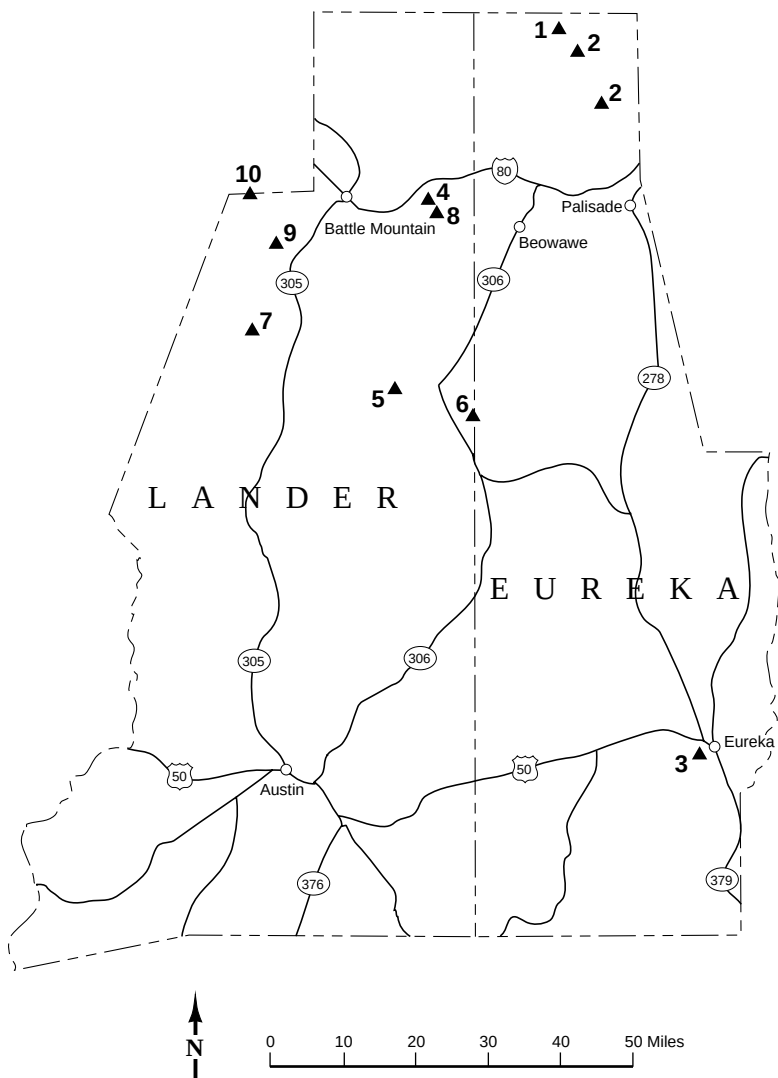
Standard Mine (Mike Visher photo).



Standard Mine (*Mike Visser photo*).



Standard Mine (*Mike Visser photo*).



Section III

Eureka County

Betze-Post Mine (1)

Operator:

Barrick Goldstrike Mines, Inc.
P.O. Box 29
Elko, NV 89803
775-738-8043 Fax: 738-6543
Company employees: 1,107

Production:

Gold - 1,514,320 oz
Silver - 114,248 oz

Ruby Hill Mine (3)

Operator:

Barrick Gold Corporation
P.O. Box 676
Eureka, NV 89316
775-237-6060 Fax: 237-5408
Company employees: 85
Contract employees: 4

Production:

Gold - 1,695 oz
Silver - 694 oz

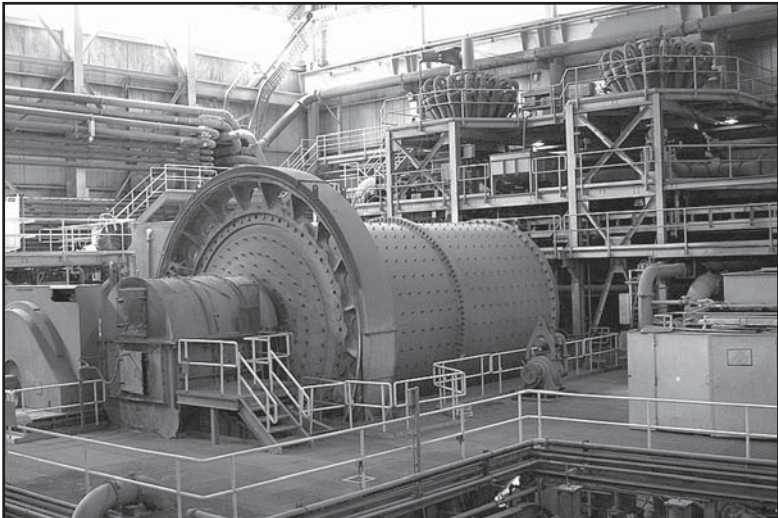
Eastern Nevada Operations (2)

Operator:

Newmont Mining Corp.
P.O. Box 669
Carlin, NV 89822
775-778-4000 Fax: 778-4757
Company employees: 1,844

Production:

Gold - 1,397,583 oz
Silver - 227,158 oz



Twin Creeks ball mill (Mike Visher photo).

Lander County

Argenta Mine and Mill (4)

Operator:

Baker Hughes Drilling Fluids
P.O. Box 277
Battle Mountain, NV 89820
775-635-5441 Fax: 635-5455
Company employees: 19

Shipped:

Barite - 68,154 tons

Battle Mountain Grinding Plant (Greystone Mine) (5)

Operator:

M-I Swaco
P.O. Box 370
Battle Mountain, NV 89820
775-635-5135 Fax: 635-2191
Company employees: 85

Shipped:

Barite - 274,650 tons

Cortez Gold Mines (6)

Operator:

Cortez Joint Venture
HC66 Box 1250
Crescent Valley, NV 89821-1250
775-468-4400 Fax: 468-4496
Company employees: 488
Contract employees: 43

Production:

Gold - 915,889 oz
Silver - 52,160 oz

McCoy/Cove Mine (7)

Operator:

Newmont Mining Corp.
P.O. Box 1658
Battle Mountain, NV 89820
775-635-4923 Fax: 635-4921
Company employees: 8

Production:

Gold - 2,740 oz
Silver - 776 oz

Mule Canyon Mine (8)

Operator:

Newmont Mining Corp.
P.O. Box 388
Valmy, NV 89438
775-635-9000 Fax: 635-0111
Company employees:
included with
Lone Tree Mine

Production:

Gold - 47,896 oz
Silver - 5,449 oz

Phoenix Project (9)

Operator:

Newmont Mining Corp.
P.O. Box 388
Valmy, NV 89438
775-635-9000 Fax: 635-0111
Company Employees:
included with
Lone Tree Mine

Production:

Gold - 6,406 oz
Silver - 1,156 oz

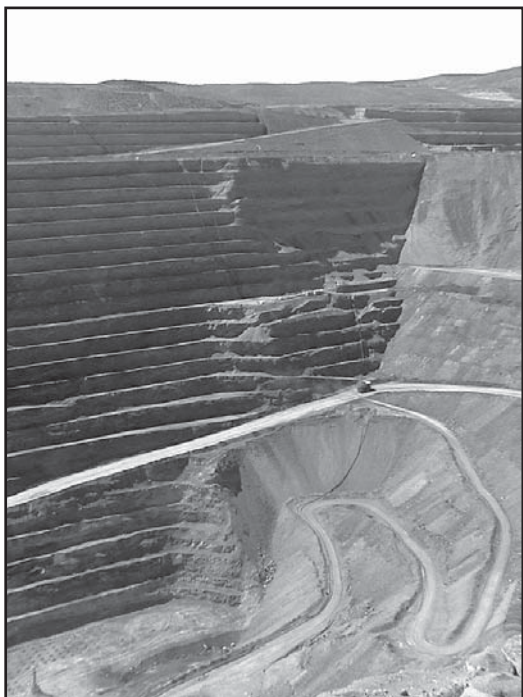
Trenton Canyon Mine (10)

Operator:

Newmont Mining Corp.
P.O. Box 388
Valmy, NV 89438
775-635-9000 Fax: 635-0111
Company Employees:
included with
Lone Tree Mine

Production:

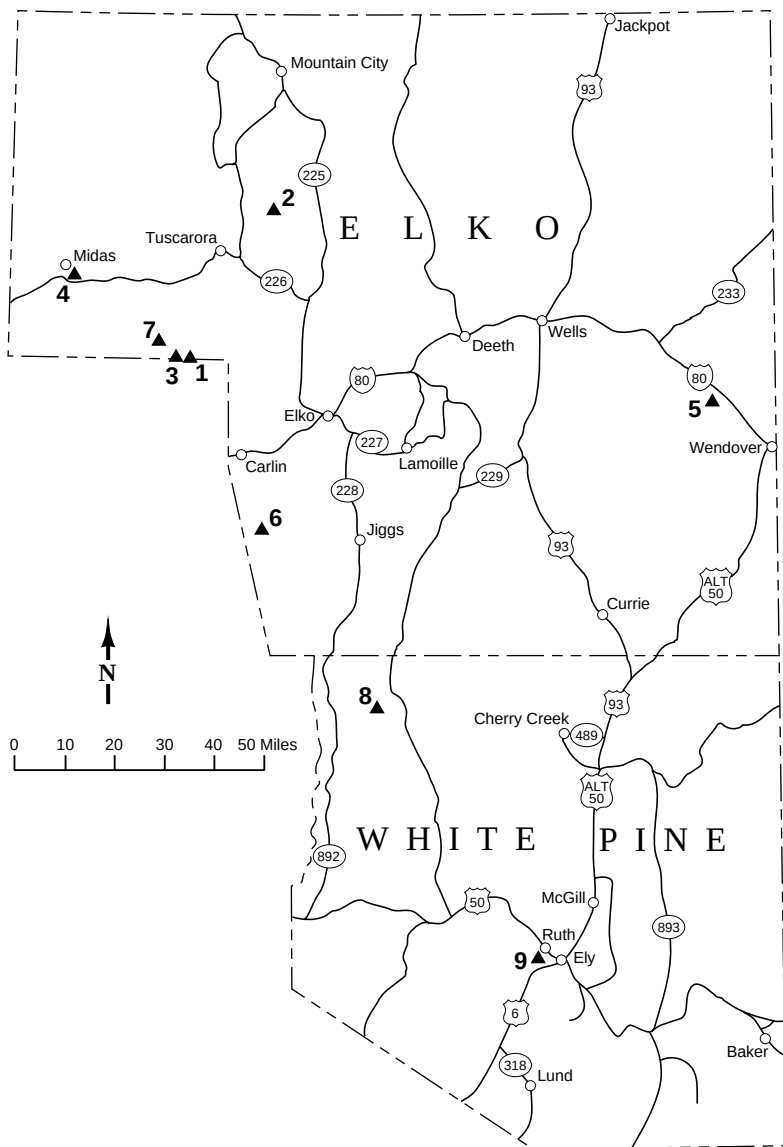
Gold - 2,642 oz
Silver - 97 oz



Twin Creeks Mine backfill (D.D. LaPointe photo).



Lone Tree Mine blast (D.D. LaPointe photo).



Section IV

Elko County

Capstone Mine (1)

Operator: Newmont Mining Corp.
P.O. Box 669
Carlin, NV 89822
775-778-4000 Fax: 778-4757
Employees: included with
Eastern Nevada
Operations

Production: Gold - 3,849 oz
Silver - 322 oz

Jerritt Canyon Mine (2)

Operator:
Queenstake Resources USA, Inc.
HC31 Box 78
Elko, NV 89801
775-738-5006 Fax: 758-9231
Company employees: 416
Contract employees: 40
Production: Gold - 202,911 oz
Silver - 6,322 oz

Meikle Mine (3)

Operator: Barrick Goldstrike Mines,
Inc.
P.O. Box 29
Elko, NV 89803
775-738-8043 Fax: 738-6543
Company employees: 500
Production: Gold - 509,568 oz
Silver - 133,979 oz

Midas Mine (4)

Operator: Newmont Mining Corp.
HC66 Box 125
Midas, NV 89414
775-635-6423 Fax: 635-6460
Company employees: 217
Production:
Gold - 167,297 oz
Silver - 2,166,396 oz

Pilot Peak Lime Plant (5)

Operator: Graymont Western U.S.
P.O. Box 2520
West Wendover, NV 89883
775-483-5463 Fax: 483-5149
Company employees: 58
Production: Limestone, Quicklime,
Hydrated lime

Rain Mine (6)

Operator: Newmont Mining Corp.
P.O. Box 669
Carlin, NV 89822
775-778-4000 Fax: 778-4757
Employees: included with
Eastern Nevada
Operations
Production: Gold - 404 oz
Silver - 90 oz

Rossi Mine-Dunphy Mill (7)

Operator: Halliburton Energy
Services/BAROID
912 Dunphy Ranch Rd.
Battle Mountain, NV 89820
775-468-0515 Fax: 468-2060
Company employee: 30
Contract employees: 20
Shipped: Barite - 168,000 tons

White Pine County

Bald Mountain Mine (8)

Operator: Placer Dome U.S. Inc.
P.O. Box 2706
Elko, NV 89803
775-237-7100 Fax: 237-7101
Company employees: 162

Production:

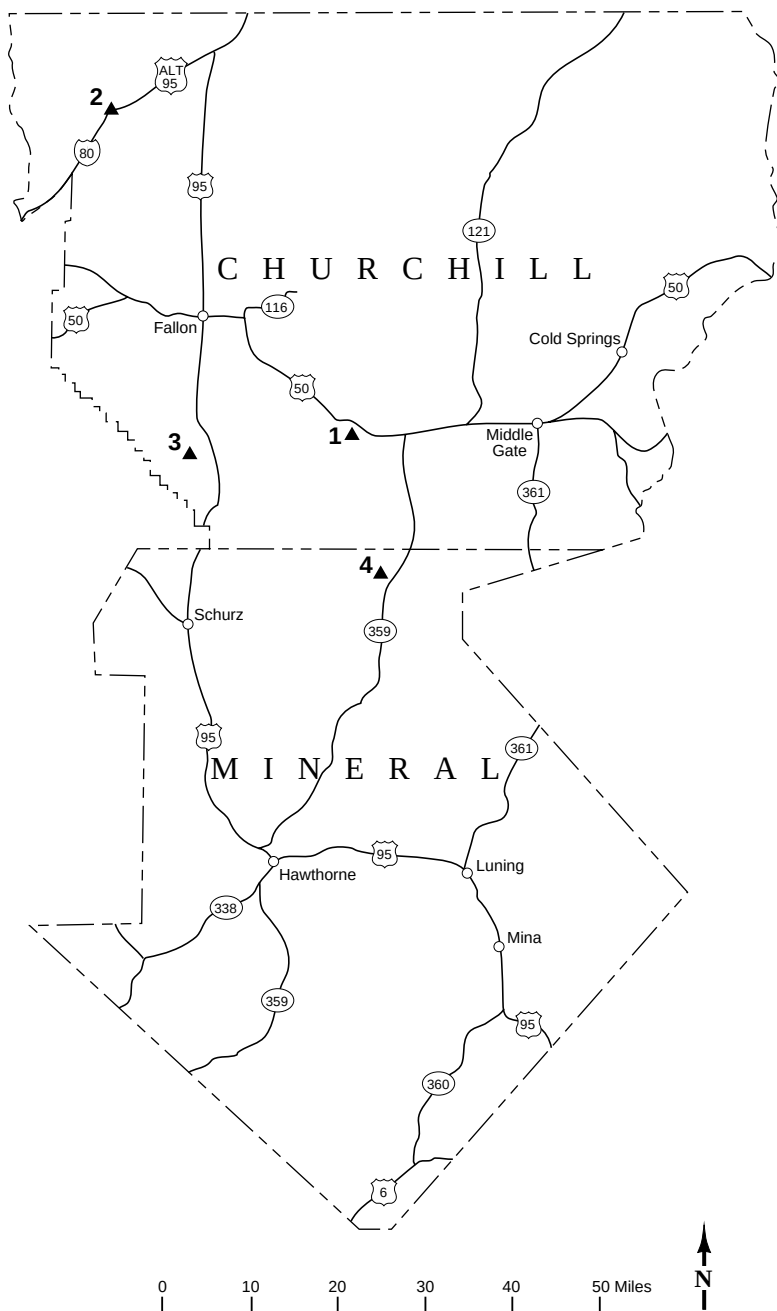
Gold - 77,767 oz
Silver - 32,652 oz

Robinson Mine (9)

Operator: Robinson Nevada Mining
Company
P.O. Box 382
Ruth, NV 89319
775-289-7000 Fax: 289-7103
Company employees: 438

Production:

Copper - 126,225,413 pounds
Gold - 80,941 oz
Silver - 191,479 oz



Section V

Churchill County

Huck Salt Company (1)

Operator:

Huck Salt Company
2900 Phritzie Ln.
Fallon, NV 89406
775-423-2055 Fax: 423-0467
Company employees: 5

Production:

Salt - 30,502 tons

Moltan Company (2)

Operator:

Moltan Company
P.O. Box 860
Fernley, NV 89408
775-423-6668 Fax: 423-6411
Company employees: 56

Production:

Diatomite

Popcorn Perlite Mine (3)

Operator:

Eagle-Picher Filtration &
Minerals, Inc.
640 Clark Station Rd.
Sparks, NV 89434
775-824-7700 Fax: 824-7715
Company employees: 1

Production:

Perlite

Mineral County

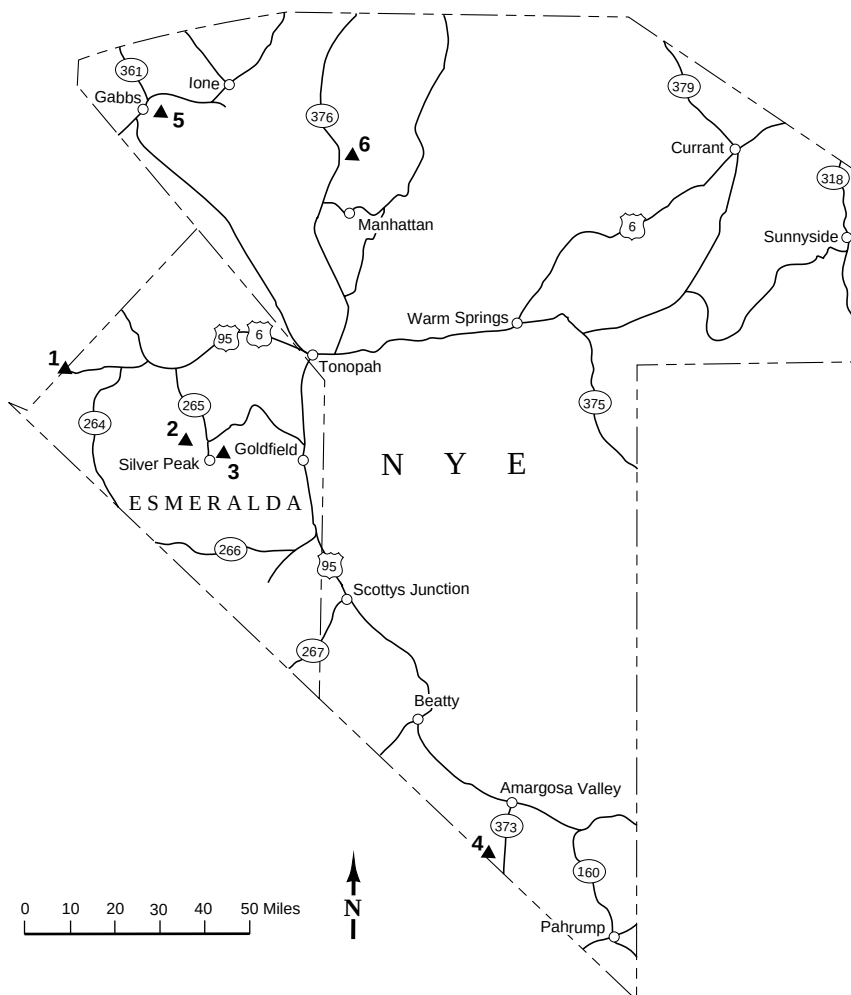
Denton-Rawhide Mine (4)

Operator:

Kennecott Rawhide Mining Co.
P.O. Box 2070
Fallon, NV 89407
775-945-1015 Fax: 945-1213
Company employees: 18
Contract employees: 4

Production:

Gold - 33,820 oz
Silver - 311,760 oz



**Round Mountain
Gold Corporation
(Mike Visser photo).**

Section VI

Esmeralda County

Basalt Mine and Mill (1)

Operator:

Grefco Minerals, Inc.
36994 Summit Lake Rd.
Burney, CA 96013
775-573-2422 Fax: 573-2422
Company employees: 4

Production:

Diatomite

Mineral Ridge Mine (2)

Operator:

Golden Phoenix Minerals, Inc.
1675 E. Prater Way, Suite 102
Sparks, NV 89434
775-853-4919 Fax: 853-5010
Company employees: 3

Production:

Gold - 1,589 oz
Silver - 1,073 oz

Silver Peak Operations (3)

Operator:

Chemetall Foote Corp.
P.O. Box 98
Silver Peak, NV 89047
775-937-2222 Fax: 937-2250
Company employees: 50
Contract employees: 9

Production:

Lithium compounds

Nye County

IMV Nevada (4)

Operator:

Mud Camp Mining Co. LLC
dba IMV Nevada
Route Box 549
Amargosa Valley, NV 89020
775-372-5341 Fax: 372-5640
Company employees: 29

Production:

Specialty clays - 30,630 tons

Premier Chemicals (5)

Operator:

Premier Chemicals, LLC
P.O. Box 177
Gabbs, NV 89409
775-285-2601 Fax: 285-4021
Company employees: 78

Production:

Magnesium compounds

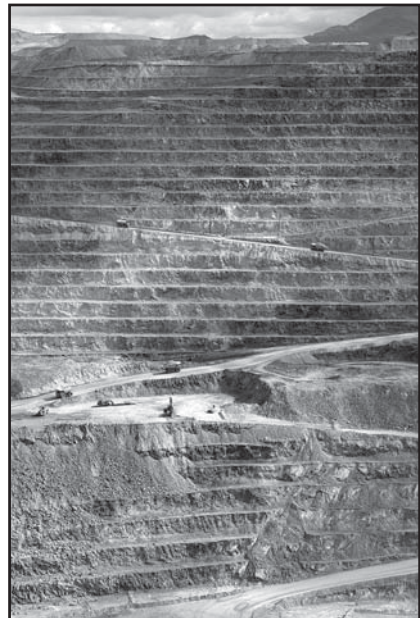
Smoky Valley Common Operation (6)

Operator:

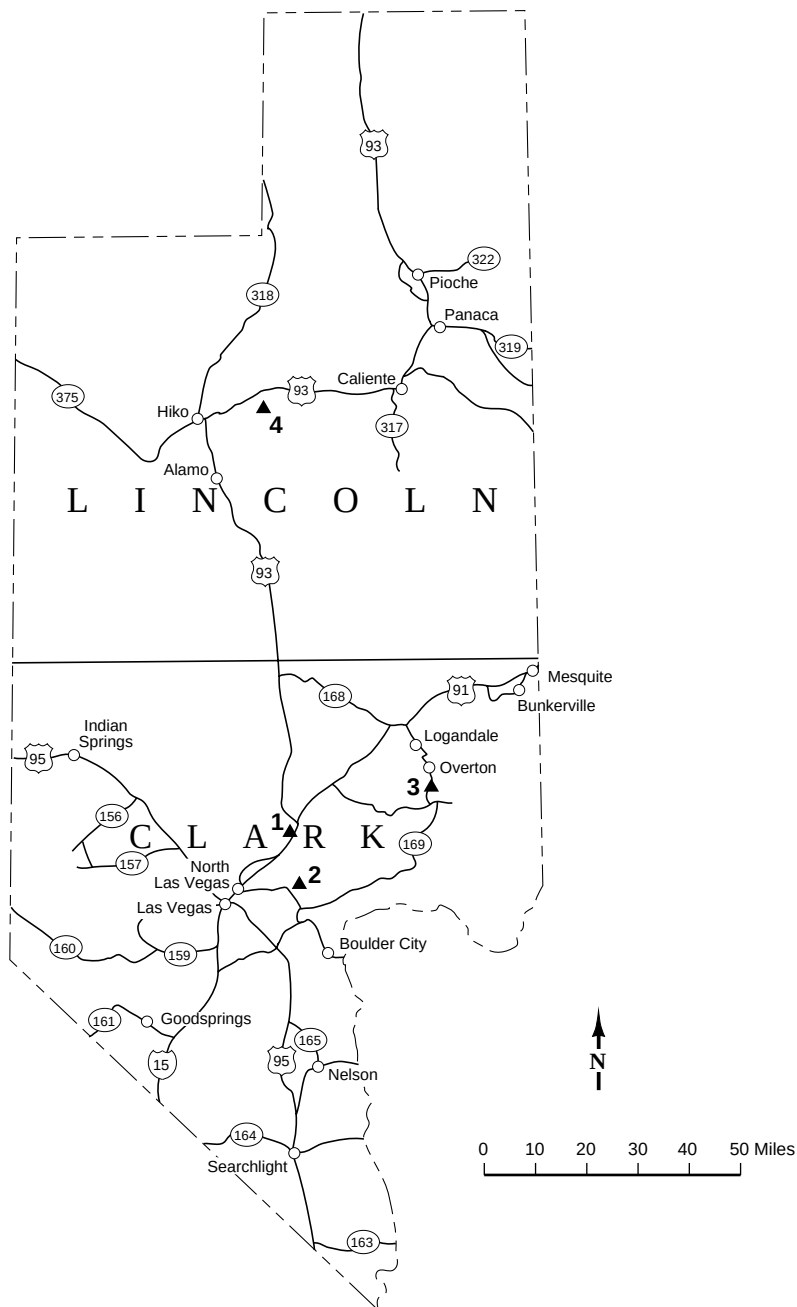
Round Mountain Gold Corp.
P.O. Box 480
Round Mountain, NV 89045-0480
775-377-2366 Fax: 377-3224
Company employees: 636

Production:

Gold - 736,886 oz
Silver - 636,361 oz



Round Mountain Gold Corporation
(Mike Visser photo).



Section VII

Clark County

Apex Quarry and Plant (1)

Operator:

Chemical Lime Co.
P.O. Box 3609
North Las Vegas, NV 89036
702-643-7702 Fax: 643-9517
Company employees: 110

Production:

Limestone, lime

PABCO Gypsum (2)

Operator:

PABCO Building
Products, LLC
1973 N. Nellis Blvd. #328
Las Vegas, NV 89115
702-643-1016 Fax: 643-6249
Company employees: 164

Production:

Gypsum - 1,688,841 tons

Simplot Silica Products (3)

Operator:

J.R. Simplot Company
P.O. Box 308
Overton, NV 89040
702-397-2667 Fax: 397-2798
Company employees: 46

Production:

Silica sand - 750,000 tons

Lincoln County

Tenacity Perlite Mine and Mill (4)

Operator:

Wilkin Mining & Trucking, Inc.
P.O. Box 829
Panaca, NV 89042
775-728-4463
Company employees: 8

Production:

Perlite



Lime kiln at Apex (Jon Price photo).

SUMMARY OF 2005 PRODUCTION

Gold	6,852,000	ounces *
Silver	9,946,000	ounces *
Barite (shipped)	511,000	tons
Copper	126,225,000	pounds
Diatomite	200,000	tons (dry)
Dolomite	91,000	tons
Gypsum	2,182,000	tons
Limestone	2,386,000	tons
Lithium compounds	13,272,000	pounds
Magnesium oxide compounds	**	
Mercury	240,000	pounds
Perlite	6,000	tons
Precious opal	45	pounds
Salt	31,000	tons
Silica sand	750,000	tons
Specialty clay	35,000	tons
Turquoise	4	pounds

*Includes production from smaller mines not listed in this report.

**Proprietary information.



Robinson Mine (*Mike Visser photo*).

Economic Impacts of Mining in Nevada—2005

The Nevada mineral industry led the nation in 2005 in the production of gold and barite as it has for several years. Nevada's mines produced a wide variety of other mineral and energy commodities such as aggregates, copper, diatomite, dolomite, geothermal energy, lapidary and gem stones, lime and limestone, lithium compounds, magnesium compounds, mercury, oil, perlite, potassium sulfate, salt, silica sand, silver, and specialty aggregates and clays. The total value of Nevada's mineral production in 2005 was about \$3.7 billion, the highest ever recorded. This is a \$400 million increase over the 2004 value of about \$3.3 billion.

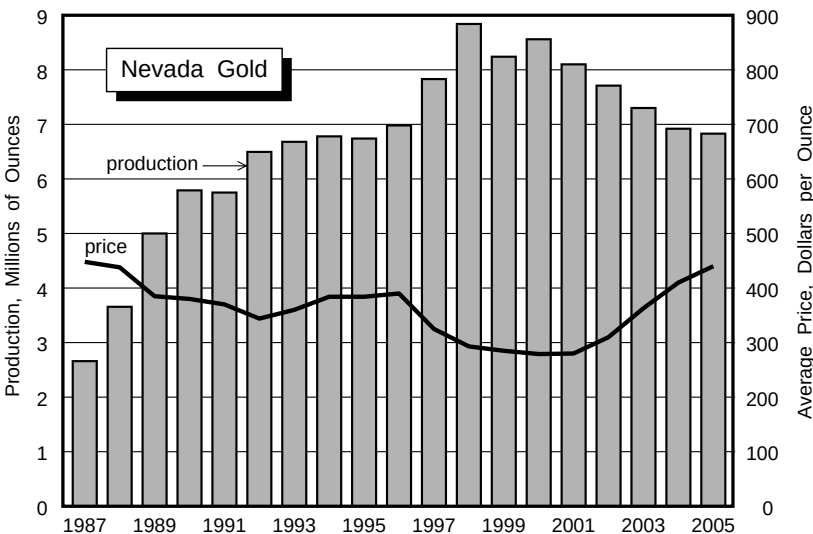
Production Highlights

Nevada's gold production was 6,852,000 troy ounces in 2005. While the production level is down approximately 1% from 2004, Nevada remains the nation's top gold producing state, contributing 83% of the U.S. total. Underground operations contributed about 23% of the gold production in

2005. Silver production dropped to 9,946,000 troy ounces compared to 10,398,000 ounces in 2004. Barite production was 511,000 tons, down slightly from 2004, and gypsum production was 2,182,000 tons, up slightly from 2004. Copper production was up sharply to 126,225,000 pounds in 2005 compared to 26,900,000 pounds in 2004.

Employment

According to the Nevada Department of Employment, Training, and Rehabilitation, the Nevada mining industry employed an average of 10,561 employees in 2005. The average pay for mineral industry employees during this time was \$62,716 per year, the highest average of any employment sector in the state. In addition, it is estimated that there are about 48,000 jobs in the state related to providing goods and services needed by the mining industry. Mining employment has been on a rebound the past 2 years due to more favorable prices for several mineral commodities.

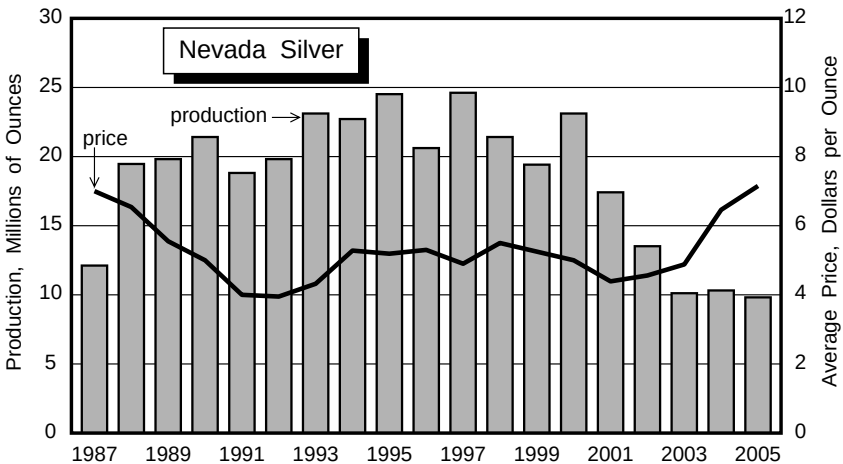


Permitting and Reclamation

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 Division of Environmental Protection, approximately \$809 million in reclamation bonds are currently posted. Mine operators are proud of their efforts and are constantly seeking ways to enhance their reclamation technology.

Gold Reserves

Nevada's reported gold reserves at or near currently operating mines that can be mined at a profit under current economic conditions stood at about 97.1 million troy ounces at the end of 2005. The amount of reserves is always in a state of flux, due to some reserves being lost to production, additions of reserves through new discoveries, and changing economic conditions. Even though nearly 6.9 million ounces of gold were produced in 2005, statewide reserves are up by 16.8 million from the 80.3 million ounces reported for the end of 2004. The price of gold and the cost of production are the main factors determining whether a reserve is really a reserve or just a sub-economic resource. Extensive gold resources, not currently economic, exist at or near many operations. An increase in the gold price would mean many companies would be able to reclassify their resources back into a reserve category. An increase in the cost of regulatory compliance has the same effect as a lowering of the gold for



price, thus increasingly complex and expensive regulations can reduce reserves. Under current conditions, the existing proven reserves are sufficient to sustain gold production at current levels for about 14 years.

Exploration

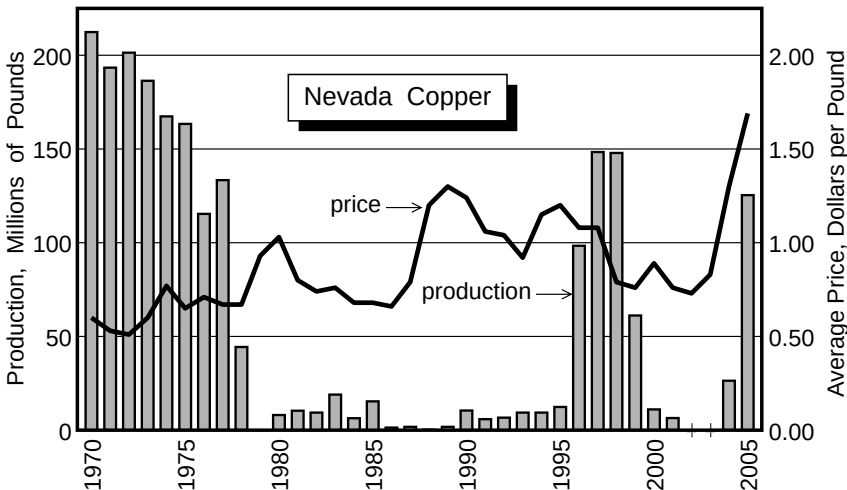
Exploration for new deposits, particularly gold, is an ongoing effort by both the operating companies and many others who do not operate mines in the state. Each year, the Division of Minerals conducts an exploration survey to determine the level of exploration activity and the factors that are responsible for those levels. The respondents to the latest survey indicated they spent \$121.3 million on exploration in Nevada in 2005, up from \$79.7 million in 2004. The respondents reported having 190 geologists on the payroll in 2005, up from 124 in 2004. Existence of favorable geology and commodity prices are cited as the most important factors influencing exploration levels. Exploration geologists and the drillers, assayers, and others who support their activities represent a significant positive economic impact, particularly in Nevada's rural areas.

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 2005. Sand, gravel, and crushed stone are critical to the building requirements of the state's infrastructure and ranked third in terms of dollar value of production. Industrial minerals such as barite, diatomite, dolomite, gypsum, limestone, lithium compounds, magnesite, perlite, salt, and specialty clays are produced in this state.

Oil and gas exploration and production are relatively minor when compared to mining, but are nevertheless important to the economy of east-central Nevada. In oil field terms, Nevada is considered a frontier, meaning its potential is yet to be realized. Oil production in 2005 was about 447,000 barrels (42 gallons per barrel).

Nevada is rich in geothermal resources and is second only to California in the production of geothermal power. Currently, Nevada has 15 plants at 10 locations that sold approximately 1.3 million megawatt hours of electricity in 2005. This is enough to power about 80,000 typical homes. Geothermal heat is also used

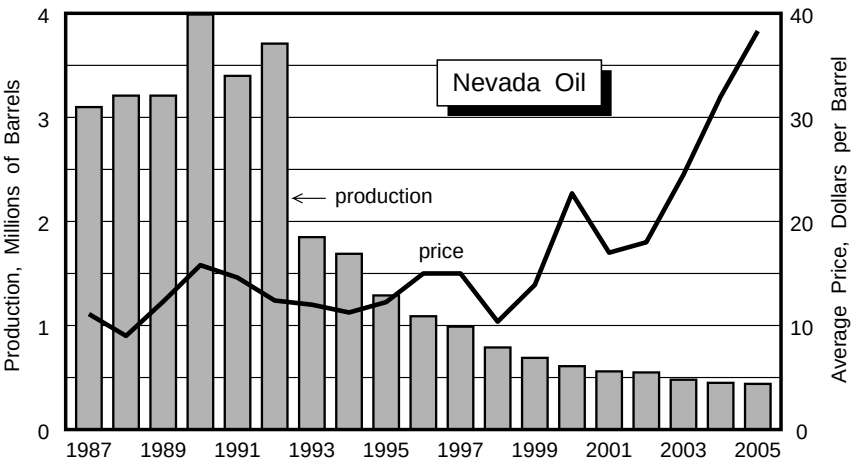


a variety of commercial, domestic, and public applications in Nevada. Schools in Elko County and homes in Lincoln and Washoe Counties are examples of public and private facilities using this renewable energy source.

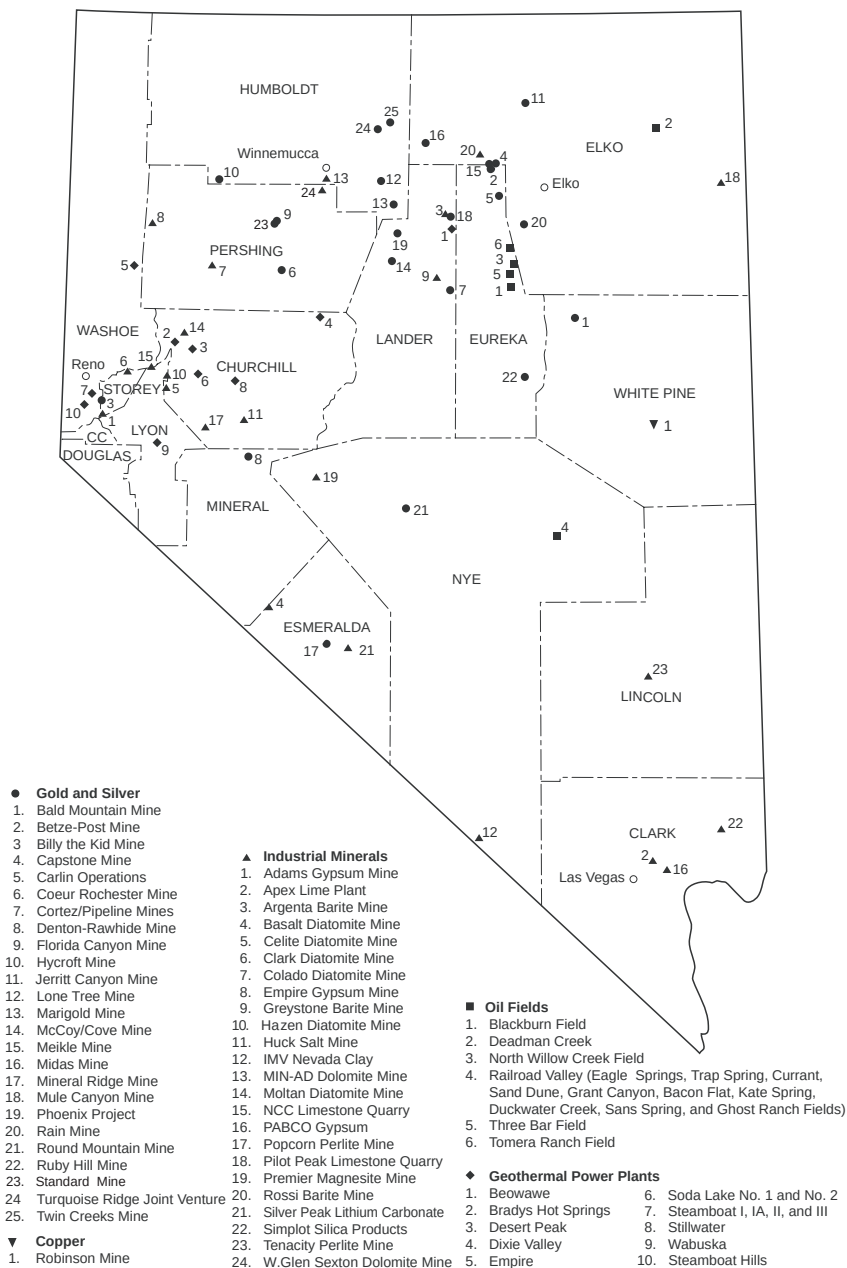
Conclusion

Nevada’s mineral industry continued to be a major economic force in the state in 2005. This situation should continue

for many years to come. Challenges will exist, as they always have, but Nevada’s mineral reserves and the potential to add to them will spur the creativity of the mineral industry. Prices of many mineral commodities have improved in recent years, allowing companies to increase their exploration and development efforts. The continued development of new projects will assure that the mining industry will remain strong in the future.



Drilling rig in the Piñon Range (Jon Price photo).



Major mines, oil fields, and geothermal plants, 2005.

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