

Metal Mines

Site Name	Operator	Commodity
1 Aurora Mine (reprocessing)	Hecla Mining Co.	Gold, silver
2 Bald Mountain Mine (open pit)	Borealis Mining Co., LLC	Gold, silver
3 Borealis Mine (leaching old pads)	Newmont Mining Corp.	Gold, silver
4 Chukar Underground mine	Coeur Rochester, Inc.	Gold, silver
5 Coeur Rochester Mine (open pit)	Coeur Rochester, Inc.	Gold, silver
6 Cortez Hills (open pit)	Cortez Hills (underground mine)	Gold, silver
7 Cortez Hills (underground mine)	Cortez Hills (open pit)	Gold, silver
8 Cortez Pipeline Mine (open pit)	Denton-Rawhide Mine (open pit)	Gold, silver
9 Denton-Rawhide Mine (open pit)	Enright Mine (open pit)	Gold, silver
10 Enright Mine (open pit)	Exodus Mine (underground)	Gold, silver
11 Exodus Mine (underground)	Fire Creek Mine (underground)	Gold, silver
12 Fire Creek Mine (underground)	Florida Canyon Mine (open pits)	Gold, silver
13 Florida Canyon Mine (open pits)	Hollister Mine (underground mine)	Gold, silver
14 Hollister Mine (underground mine)	Gold Hill Mine (open pit)	Gold, silver
15 Gold Hill Mine (open pit)	Goldstrike (formerly West Genesis) (open pit)	Gold, silver
16 Gold Quarry (open pit)	Goldstrike Arturo Mine Project (open pit)	Gold, silver
17 Goldstrike (formerly West Genesis) (open pit)	Goldstrike Betze-Post (open pit)	Gold, silver
18 Goldstrike Betze-Post (open pit)	Goldstrike Meikle Mine (underground mine)	Gold, silver
19 Goldstrike Meikle Mine (underground mine)	Hyrcant Mine (open pit)	Gold, silver
20 Hyrcant Mine (open pit)	Jerritt Canyon Mine (underground mines)	Gold, silver
21 Jerritt Canyon Mine (underground mines)		
22 Leville Mine (underground mine)		
23 Leville Mine (underground mine)		
24 Lone Tree Complex (leaching old pads)		
25 Lone Tree Mine (Brooks Pit) (open pit)		
26 Long Canyon Mine (open pit)		
27 Marigold Mine (open pits)		
28 Midas Mine (underground mine)		
29 Mineral Ridge Mine (open pits)		
30 Pan Mine (open pits)		
31 Pele-Ego Mine (underground mine)		
32 Phoenix Mine (open pits)		
33 Robinson Mine (open pits)		
34 Round Mountain Mine (open pit)		
35 Ruby Hill Mine (leaching old pads)		
36 Silverstar (formerly Genesis) (open pit)		
37 Sterling Mine (permitted open pit)		
38 Summit Gold Flacer Mine		
39 Turquoise Ridge Joint Venture (underground mine)		
40 Twin Creeks Mine (open pit and underground mine)		

Industrial Mineral Mines

41 Adams Claim Gypsum Mine	Art Wilson Co.	Gypsum, limestone
42 Amargosa Clay Operation (MV Pits)	Chloride North America of Arizona	Clay
43 Apex Landfill Pit	Las Vegas Paving Corp.	Aggregate, sand
44 Apex Lhot Quarry	Las Vegas Paving Corp.	Aggregate, sand
45 Apex Lhot Quarry	Las Vegas Paving Corp.	Aggregate, sand
46 Argenta Mine	Baker Hughes Oilfield Operations, Inc.	Barite
47 Basaltic Dayton Pit	Griffin Minerals, Inc.	Sand, gravel
48 Basalt Mine	Kalamazoo Materials, Inc.	Landscape rock
49 Beatty Quarry	A and K Earthmovers	Sand, gravel
50 Bella Vista Pit	Beckman Trucking, Inc.	Sand, gravel
51 Bing Materials Pit	Vanderbilt Minerals Corp.	Sand, gravel
52 Black and Red Cinder Pits	Gypsum Resources, LLC	Gypsum, limestone
53 Blanco Mine	Las Vegas Paving Corp.	Sand, gravel
54 Blue Diamond Hill Mine	Staker Paving Co.	Sand, gravel
55 Blue Diamond Pit	CTO Crushing LLC	Sand, gravel
56 Boulder Ranch Quarry	Vanderbilt Minerals Corp.	Sand, gravel
57 Buff-Satin Mine (stockpile)	Nevada Cement Co.	Limestone
58 Churchill Mine	Allied Building Materials, Inc./Cind-R-Lite Co.	Diatomite
59 Cinder Cone Pit	EP Minerals, LLC	Diatomite, perlite
60 Clark Mine	3D Concrete, Inc.	Aggregate, sand
61 Clark Mine	R.T. Donovon Co., Inc.	Decomposed granite
62 Clark Mine	Portable Aggregate Products, LLC	Sand, gravel
63 Dayton Materials (Mustang Pit)	Vega Construction and Trucking Co.	Sand, gravel
64 Donovan Pit	EP Minerals, LLC	Gypsum
65 El Dorado Quarry	Wulfenstein Construction Co., Inc.	Limestone
66 El Dorado Pit	A and K Earthmovers	Aggregate
67 Empire Mine	Cinderella Trucking Corp.	Sand, gravel
68 Empire Operation Mine	EP Minerals, LLC	Sand, gravel
69 Empire Quarry	Wulfenstein Construction Co., Inc.	Limestone
70 Gambel Pit	A and K Earthmovers	Aggregate
71 Golden Valley Pit	EP Minerals, LLC	Sand, gravel
72 Goni Pit	Sierra Nevada Construction, Inc.	Aggregate
73 Greystone Mine	Heart of Nature, LLC	Alum, sulfur
74 Gypsum Mountain Mine	Various (Bureau of Land Management manages pit)	Sand, gravel
75 Hazen Pit	H. Lima Nevada Gypsum Mine	Sand, gravel
76 Heart of Nature Alum/Sulfur Mine	Granite Construction Co.	Aggregate
77 Henderson Community Pit	Las Vegas Paving Corp.	Sand, gravel
78 Huck Salt Co.	Mal Clark, Inc.	Sand, gravel
79 H. Lima Nevada Gypsum Mine	Nevada Ready Mix Corp.	Sand, gravel
80 Lockwood Quarry	Wells Fargo, Inc.	Sand, gravel
81 Lone Mountain	Various (Bureau of Land Management manages pit)	Sand, gravel
82 Lone Mountain	Various (Bureau of Land Management manages pit)	Sand, gravel
83 Lone Mountain	Various (Bureau of Land Management manages pit)	Sand, gravel
84 Lone Mountain	Various (Bureau of Land Management manages pit)	Sand, gravel
85 Lone Mountain Community Pit	Various (Bureau of Land Management manages pit)	Sand, gravel
86 Mesquite Community Pit	Various (Bureau of Land Management manages pit)	Sand, gravel
87 Mesquite Community Pit	Various (Bureau of Land Management manages pit)	Sand, gravel
88 MIN-AD	MIN-AD, Inc.	Diatomite
89 Money Pit	Southern Nevada Liveweight, Inc.	Slack sand
90 Mount Moriah Quarry	Mount Moriah Stone Quarries, LLC	Building stone, landscape rock
91 Mountain Springs Mine	EP Minerals, LLC	Sand, gravel
92 Mustang Quarry	Sierra Nevada Construction, Inc.	Aggregate
93 Nassau Section 5 Mine (stockpile)	American Colloid Co.	Clay
94 Nevada Earth Iron Mine	Nevada Earth Iron Mine	Sand, gravel
95 New Discovery Mine	Vanderbilt Minerals Corp.	Diatomite
96 Nightingale Pit	Imerys Filtration Minerals, Inc.	Gypsum
97 PABCO Apex Quarry	Pacific Coast Building Products, Inc.	Sand, gravel
98 Palmum Community Pit	Various (Bureau of Land Management manages pit)	Sand, gravel
99 Pauls Pit	CENEX Construction Materials Pacific, LLC	Aggregate
100 Pilot Peak Quarry	Graymont Western US, Inc.	Limestone
101 Pole Line Pit	Boulder Sand and Gravel, Inc.	Sand, gravel
102 Popcorn Mine	EP Minerals, LLC	Sand, gravel
103 Premier Chemicals, LLC, Mine	Premier Chemicals, LLC	Magnesium
104 Rainbow Quarries	Las Vegas Ready Mix Corp.	Sand, gravel
105 Relief Canyon Quarry	Nevada Cement Co.	Limestone
106 Rille Aggregate	Rille Aggregate Co.	Sand, gravel
107 River Canyon II	Joy Engineering	Aggregate
108 Rock Road Pit	Desert Engineering	Sand, gravel
109 Sexton Mine	Nutritional Additives Corp.	Sand, gravel
110 Sierra Ready Mix Quarry	Sierra Ready Mix, LLC	Sand, gravel
111 Sierra Stone Quarry	CENEX Construction Materials Pacific, LLC	Aggregate
112 Sierra Stone Operations	Ricewood Lithium, Inc.	Lithium carbonate
113 Simple Silica Products Pit	EP Minerals, LLC	Sand, gravel
114 Sloan Quarry	Aggregate Industries	Crushed stone
115 South Jean Pit	Service Rock Products	Sand, gravel
116 Spanish Springs Quarry	Avaton Geothermal, LLC	Aggregate, decomposed granite
117 Spring Mountain Pit	Wells Fargo, Inc.	Sand, gravel
118 Tenacity Perle Mine	Wulfenstein Mining and Trucking Co., Inc.	Perlite
119 Terraced Hill Clay (Flanigan) Mine	Nevada Cement Co.	Clay
120 Tracy Pit	EP Minerals, LLC	Sand, gravel
121 Trico Pit	Granite Construction Co.	Sand, gravel
122 Wade Sand Pit	Granite Construction Co.	Sand, gravel
123 Wulfenstein (BLM) Pit	Wulfenstein Construction Co., Inc.	Sand, gravel

Gemstone Mines

124 Bonanza Opal Mines, Inc.	Bonanza Opal Mines, Inc.	Precious opal
125 Gemfield Gems	Gemfield Gems	Chalcedony
126 Lone Mountain Turquoise Mine	Lone Mountain Mining, LLC	Turquoise
127 May Turquoise Mine Co.	Red Wolf Mine Co.	Turquoise
128 Rainbow Ridge Opal Mine	Rainbow Ridge Opal Mines, Inc.	Opalized wood, precious opal
129 Royal Peacock Opal Mine	Royal Peacock Opal Mine, Inc.	Precious opal

Geothermal Production Sites

130 Beowawe	Terra-Gem Power, LLC	Electricity
131 Blue Mountain	AltaRock Energy	Electricity
132 Brady Hot Springs	Ormat Nevada, Inc.	Electricity
133 Brady Hot Springs	Ormat Nevada, Inc.	Electricity
134 Burdette (Galena 3)	Ormat Nevada, Inc.	Electricity
135 Desert Peak II	Ormat Nevada, Inc.	Electricity
136 Dixie Valley	Terra-Gem Power, LLC	Electricity
137 Don A. Campbell, Don A. Campbell II	Ormat Nevada, Inc.	Electricity
138 Elio Hot Springs	Elio County School District	Electricity
139 Galena 1	Ormat Nevada, Inc.	Electricity
140 Galena 2	Ormat Nevada, Inc.	Electricity
141 Jersey Valley	Ormat Nevada, Inc.	Electricity
142 McGinness Hills, McGinness Hills II, III	Ormat Nevada, Inc.	Electricity
143 Moama Hot Springs	Avaton Geothermal, LLC	Electricity
144 Moama Hot Springs	Peppermill Casinos, Inc.	Electricity
145 Pataua	Cym Energy	Electricity
146 Salt Wells	Ormat Nevada, Inc.	Electricity
147 San Emidio	Cym Energy	Electricity
148 Soda Lake Nos. 1, 2	Cym Energy	Electricity
149 Steamboat II, III	Ormat Nevada, Inc.	Electricity
150 Steamboat Hills	Ormat Nevada, Inc.	Electricity
151 Stillwater 2	Ormat Nevada, Inc.	Electricity
152 Tule Springs	Ormat Nevada, Inc.	Electricity
153 Tule Springs	Ormat Nevada, Inc.	Electricity
154 Tule Springs	Ormat Nevada, Inc.	Electricity
155 Vabaska	Ormat Mountain Energy	Electricity

Oil Fields

156 Bacon Flat	Grant Canyon Oil and Gas, LLC	Oil
157 Blackfoot	Grant Canyon Oil and Gas, LLC	Oil
158 Eagle Springs	Kirkwood Oil and Gas, LLC	Oil
159 Gosh Ranch	Kirkwood Oil and Gas, LLC/Makoli, Inc.	Oil
160 Huntington	Noble Energy, Inc.	Oil
161 Kate Spring	Grant Canyon Oil and Gas, LLC	Oil
162 Sand Dune	Grant Canyon Oil and Gas, LLC	Oil
163 Sand Spring	Grant Canyon Oil and Gas, LLC	Oil
164 Tomera Ranch	Tomera Oil Fields, LLC	Oil
165 Tomera Ranch	Makoli, Inc./Frontier Exploration Co.	Oil
166 Tomera Ranch		Oil

Mining Districts

Township and Range Grid

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Additional information on mining, oil and gas, and geothermal development in Nevada can be found online at:

<http://www.nbrmg.unr.edu/Mining/>
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Nevada Active Mines
and Energy ProducersJohn L. Muntan and David A. Davis
Nevada Bureau of Mines and Geology
2019

Site locations and information on this map were obtained from a variety of published and non-published sources with the latest updates made in January 2019. All sites shown on this map have had some form of production activity during 2017.

MINES

The metal mines shown were active in 2017. Industrial mineral mines that are shown had production in 2017. The gravel operations are those producing more than 100,000 tons annually. Active mines and their locations were determined from a variety of sources, including the "Directory of Mining and Milling Operations" in NBMG's The Nevada Mineral Industry 2017. The main sources of information that went into creating this directory were the Directory of Nevada Mine Operations, January-December 2017 compiled by the mine inspectors at Nevada Mine Safety and Training, and Major Mines of Nevada 2017 compiled by the Nevada Division of Minerals. These two sources were supplemented with information, especially for 2017, from other sources such as company reports, LR2000 (BLM), magazine and journal articles, Net Proceeds of Minerals Bulletin, topographic maps, Google Earth, and contact with people in the mining industry. The sites generally represent the main open pit or portal location and are accurate for a display scale of 1:1,000,000 or smaller.

GEOLOGICAL PRODUCTION SITES

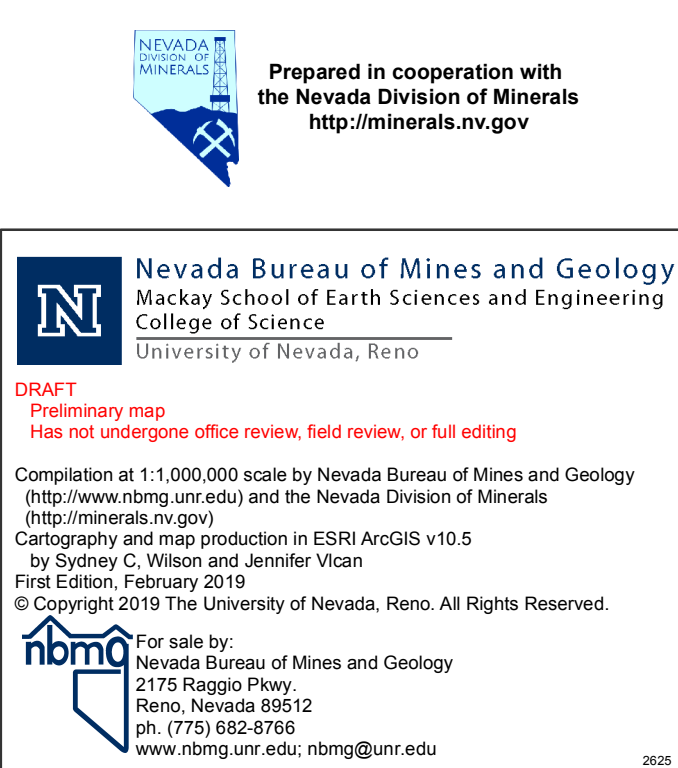
Geothermal site locations are from the "Geothermal Section" in NBMG's The Nevada Mineral Industry 2017 and information provided by the Nevada Division of Minerals.

OIL FIELDS

Oil field locations are from Assessment of the Potential for Carbon Dioxide Sequestration with Enhanced Oil Recovery in Nevada, 2007 with updated information provided in 2017 by the Nevada Division of Minerals. Only currently producing oil fields are shown. Oil field symbol locations are based on initial discovery well. More detailed information on the oil fields, individual wells, company contact information, and production can be found in Assessment of the Potential for Carbon Dioxide Sequestration with Enhanced Oil Recovery in Nevada, 2007. NBMG's The Nevada Mineral Industry 2017, Major Mines of Nevada 2017, Petroleum Data Map of Nevada, 2007, and the NBMG Oil and Gas Well Search website.

MINING DISTRICTS

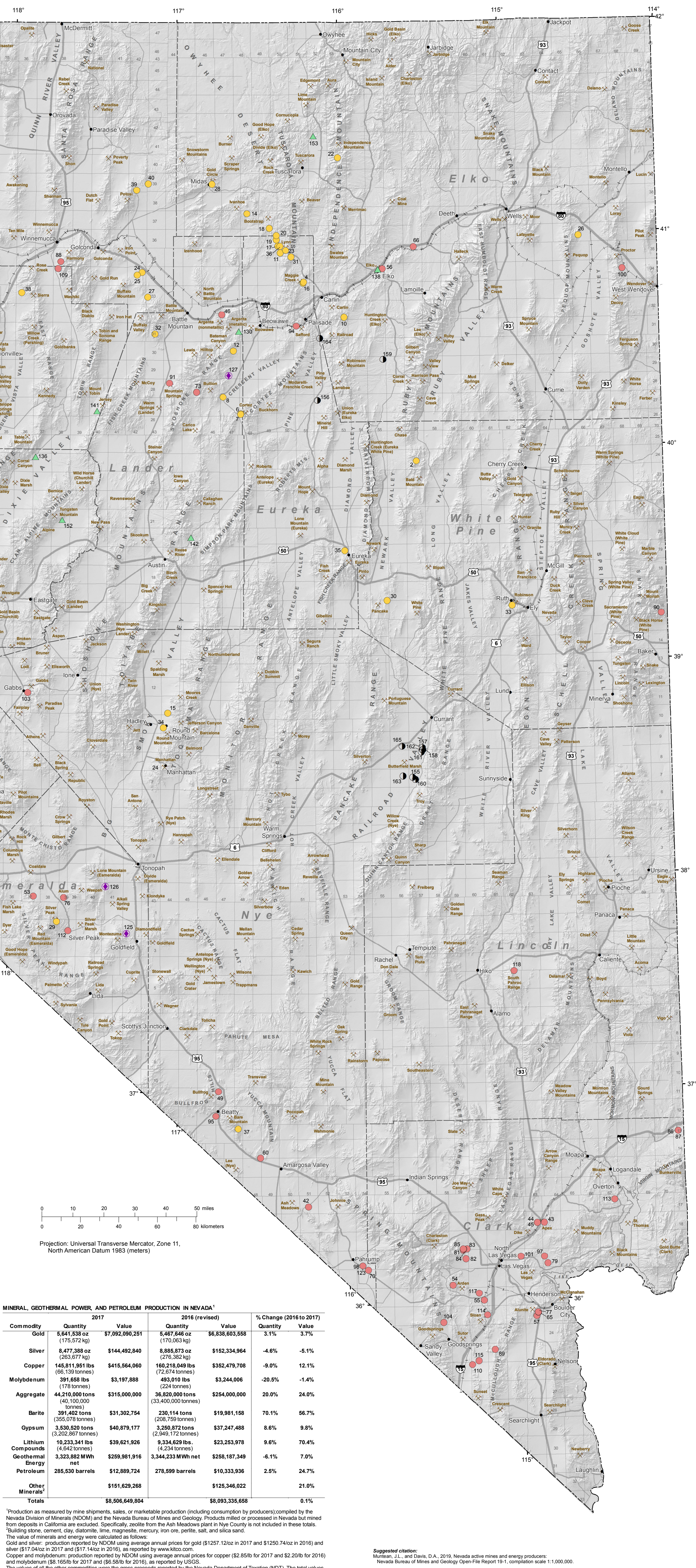
Nevada mining district locations are from NBMG Report 47, Mining Districts of Nevada. The location of the symbol represents the approximate center of the mining district polygon as shown in the original report.



Compilation at 1:100,000 scale by Nevada Bureau of Mines and Geology
(http://www.blm.gov/2000/) and the Nevada Division of Minerals
(http://minerals.nv.gov/Programs/OGG/)
Cartography and map production in ESRI ArcGIS v10.5
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2019

Projection: Universal Transverse Mercator, Zone 11,
North American Datum 1983 (meters)MINERAL, GEOTHERMAL POWER, AND PETROLEUM PRODUCTION IN NEVADA¹

Commodity	2017		2016 (revised)		% Change (2016 to 2017)	
	Quantity	Value	Quantity	Value	Quantity	Value
Gold	5,641,538 oz (175,572 kg)	\$7,092,096,251	5,407,846 oz (170,063 kg)	\$6,836,803,558	-3.1%	-3.7%
Silver	8,477,388 oz (263,877 kg)	\$144,492,840	8,885,873 oz (276,382 kg)	\$152,334,964	-4.6%	-5.1%
Copper	145,811,951 lbs (66,139 tonnes)	\$415,564,060	160,218,049 lbs (72,674 tonnes)	\$352,479,708	-9.0%	-12.1%
Molybdenum	391,658 lbs (178 tonnes)	\$3,197,888	493,016 lbs (224 tonnes)	\$3,244,006	-20.8%	-1.4%
Aggregate	44,210,000 tons (40,100,000 tonnes)	\$315,000,000	36,820,000 tons (33,400,000 tonnes)	\$284,000,000	20.0%	24.0%
Barite	391,402 tons (355,070 tonnes)	\$31,302,754	230,114 tons (208,759 tonnes)	\$19,981,158	70.1%	56.7%
Gypsum	3,530,520 tons (3,202,867 tonnes)	\$40,878,177	3,250,872 tons (2,945,172 tonnes)	\$37,247,488	8.6%	9.8%
Lithium	10,233,341 lbs (4,642 tonnes)	\$39,621,926	9,334,629 lbs (4,234 tonnes)	\$23,253,978	8.6%	70.4%
Geothermal Energy	3,323,882 MWh (net)	\$259,981,916	3,344,233 MWh net	\$258,187,349	-4.1%	7.0%
Petroleum	285,530 barrels	\$12,809,724	278,599 barrels	\$10,333,936	2.5%	24.7%
Other Minerals ²		\$151,829,268		\$125,346,022		21.0%
Totals		\$8,506,649,804		\$8,093,335,658		0.1%

¹Production as measured by mine shipments, sales, or marketable production (including consumption by producers) compiled by the Nevada Division of Minerals (NDOM) and the Nevada Bureau of Mines and Geology. Products mined or processed in Nevada but mined from deposits in California are excluded. Specifically, asphalt from the Ash Meadows plant in Nye County is not included in these totals.

²Building stone, cement, clay, diatomite, lime, magnesite, mercury, iron ore, perlite, sand, and silica sand.

The value of minerals and energy were calculated as follows:
Gold and silver - production reported by NDOM using average annual prices for gold (\$1257.12/oz in 2017 and \$1250.74/oz in 2016) and silver (\$17.64/oz in 2017 and \$17.14/oz in 2016), as reported by www.kitco.com.
Copper and molybdenum - production reported by NDOM using average annual prices for copper (\$2.85/lb for 2017 and \$2.20/lb for 2016) and molybdenum (\$8.16/lb for 2017 and \$8.58/lb for 2016), as reported by USGS.
The values of all of the other commodities were the gross proceeds reported by the Nevada Department of Taxation (NDT). The total values.

Suggested citation:
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Nevada Bureau of Mines and Geology Open-File Report 18-1, compilation scale 1:100,000.