# MINERAL RESOURCES MAP OF OREGON

1984

Compiled by M.L. Ferns, Oregon Department of Geology and Mineral Industries, and D.F. Huber, U.S. Geological Survey

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
DONALD A. HULL, STATE GEOLOGIST

## INTRODUCTION

This minerals map is designed (1) to show where mineral deposits occur in Oregon, (2) to help in regional and local land use planning, and (3) to provide the exploration industry with potential resource clues. All production statistics are as of the end of 1983.

Mineral districts, areas, and deposits that have produced or have had past prious are shown by colored symbols. The size of the symbols indicates the amount of production. Those mineral producers (past and/or present) are numbered and are referenced in Table 1.

Other metallic, nonmetallic, and/or energy localities are indicated by brown diamonds, green squares, and black circles, respectively. These localities include (1) active and inactive mines with total production less than $1 million at average 1983 prices; (2) prospects, which are localities that have been explored to some extent for minerals; and (3) occurrences, which are localities where valuable minerals have been found but with no indication of mineralization. Areas containing too many gold or chromite localities to show individually on the map are delineated as regional zones of gold or chromite. Short discussions of different minerals or specific features of interest are placed in appropriate locations directly on the map.

Specific information on individual localities may be obtained from computerized data systems of either the Mineral Resources Data System (MRDS) of the U.S. Geological Survey (USGS) or the Mineral Occurrence and Development System (MODS) of the U.S. Bureau of Mines. Sources of more detailed information on the geology of individual districts are listed in the Selected References elsewhere on the map. Additional information on the MRDS system may be obtained from Donald P. Huber, USGS, Menlo Park, California. Information on the MILS system may be obtained from Don Rogers, Western Field Office, U.S. Bureau of Mines, Spokane, Washington.

Resource tonnage estimates are based on known deposits whose size, grade, and continuity have been generally defined. Some data was used in compiling the estimates were obtained from a survey of mining companies and are therefore confidential material.

Oregon's mineral resources are classified into three broad groups: (1) geologic processes (see diagram "Mineralization in Oregon"); (1) weathering (physical and chemical decomposition of rocks at the earth's surface), a process important in the formation of nickel and aluminum laterites; (2) sedimentation (the separation, transportation, and deposition of particles broken down from rocks); important in the formation both of placer-gold and black-sand deposits and also of coal and natural gas; and (3) hydrothermal processes of alteration and/or mineralization, important in the formation of lode deposits, where metallic minerals have been dissolved in hot water and redeposited in veins or as replacements of rock (pounds disseminated within solid host rock. The mineralization caused by hydrothermal processes occurs when metal-bearing compounds separate out of solution from hot fluids in response to changes in fluid temperature, pressure, or composition. The hydrothermal systems that form these deposits are commonly associated with hot-spring or volcanic activity and are often marked by extensive areas in which the host rock has been altered to minerals such as quartz, calcite, chalcedony, opal, and/or clay. Fracture fillings, commonly called veins, are the most common type of deposit formed by hydrothermal fluid-channelways and have been major sources of gold and silver in the past.

In general, the older the rocks, the more likely they are to have experienced a mineralizing event. This is well illustrated in Oregon, where most of the known metallic mineral deposits occur in older, pre-Late Jurassic rocks that are exposed in the northeast and southwest corners of the state. For that reason, these rocks are shown on the map. However, this should not minimize the importance of mineralization that has occurred in younger (Tertiary) rocks, as shown by recent exploration of epithermal (hot-spring) gold deposits in the southeastern part of the state.

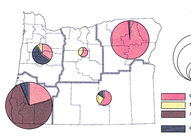
Oregon has few developments in mining in other states such as Nevada, where major gold deposits associated with hot springs have been discovered, or Alaska, where hot springs are presently forming mineral deposits, it is likely that hitherto undiscovered resources will be identified in Oregon in the future. Since 1970, exploration companies in Oregon have discovered new, previously unknown natural gas and coal fields and uranium, porphyry copper, and gold deposits.

The emphasis of this map is mineral resources. The geothermal resources of Oregon are shown on a separate map (Oregon Department of Geology and Mineral Industries and U.S. Department of Geology and Mineral Industries and National Oceanic and Atmospheric Administration, 1982). A land status map (Bureau of Land Management, 1983) is also available at this scale.

## MINERALIZATION IN OREGON

| Geologic time (million years before the present) | | | Geologic processes and mineralizing events | Types of deposits |
|---|---|---|---|---|
| Post Late Jurassic | Cenozoic | Quaternary | Modern day erosion, sedimentation, and volcanic activity | Gold placer and evaporite deposits |
| | | Tertiary 2 | Volcanic and hot-spring activity in Western Cascades and eastern Oregon as coastline shifts from central to western Oregon | (1) Low-temperature (epithermal) gold, mercury, and uranium deposits in southeast and central Oregon. (2) Gold, silver, copper, lead, and zinc deposits in Western Cascades and northeastern and southeastern Oregon. (3) Nickel and cobalt laterites in southwestern Oregon. (4) Iron and aluminum laterites and clay deposits in northwestern Oregon. (5) Bentonite, zeolite, diatomite, and lightweight aggregate deposits. (6) Coal, natural gas and coal deposits in various parts of the state |
| | | 65 | | |
| | Mesozoic | Cretaceous | Emplacement of large granitoid intrusives following accretion of exotic oceanic and island-arc crustal fragments | |
| | | 138 | | |
| | | Jurassic | | |
| | | 205 | | |
| Pre Late Jurassic | Mesozoic | Triassic | Formation of oceanic and island-arc crust | |
| | | 240 | | |
| | Paleozoic | | | |

## PRODUCTION OF METALLIC AND ENERGY MINERALS IN OREGON BY REGION



CUMULATIVE VALUE
Millions of dollars

2,962
1,930
76
66
10

Gold and silver
Mercury and antimony
All other metals including copper, nickel, and chromite
Coal, uranium, and natural gas

Circle segments indicate percentage of total value in region. Very small percentages are not shown.

## ESTIMATED METALLIC AND ENERGY MINERAL PRODUCTION IN OREGON, 1852–1983

**METALS**

| | | |
|---|---|---|
| Aluminum ore | — | 400 tons |
| Antimony ore | — | 470 tons |
| Chromite ore | — | 113,000 tons |
| Copper | — | 26.5 million lb |
| Gold | — | 1.3 million oz |
| Lead | — | 1.3 million lb |
| Manganese ore | — | 1,000 tons |
| Mercury | — | 76,000 flasks |
| Nickel | — | 600 million lb |
| Platinum-group metals | — | 2,000 oz |
| Silver | — | 10 million oz |
| Tungsten | — | 9,000 lb |
| Zinc | — | 1 million lb |

**ENERGY**

| | | |
|---|---|---|
| Coal | — | 3 million tons |
| Natural gas | — | 200 million cf |
| Uranium oxide | — | 200 tons |

*Gold production estimates are based on compiled statistics and estimates by the Oregon Department of Geology and Mineral Industries, U.S. Bureau of Mines, and U.S. Geological Survey. There is unfortunately low due to lack of information on early-day placer production in southwest and northeast Oregon.

**Production data tabulated from files and publications of the Oregon Department of Geology and Mineral Industries, U.S. Bureau of Mines, and U.S. Geological Survey. Reserve and resource data compiled from files and publications of the Oregon Department of Geology and Mineral Industries, publications of the U.S. Bureau of Mines and U.S. Geological Survey, and proprietary data from private industry.

## EXPLANATION OF MAP SYMBOLS

**Mineral producers,** $1 million or more (total) value except for natural gas stated at 1983 prices) — Types of producers are indicated by shapes and colors of symbols; commodity abbreviations are inside symbols. Producers of more than one major product have abbreviations of more than one element inside symbols. Numbers near producer symbols refer to Table 1

**METALLIC**

- Chromite — $1 million (19,000 tons 44-percent $Cr_2O_3$ at $525/ton)
- Copper — $1 million (1.28 million lb at $0.78/lb)
- Gold — $1 million (2,500 oz at $425/oz)
- Gold — $10 million (25,000 oz at $425/oz)
- Mercury — $1 million (3,050 flasks at $325/flask)
- Mercury — $10 million (30,500 flasks at $325/flask)
- Nickel — Over $1 billion (approx. 650 million lb at $2.12/lb)
- Silver — $1 million (97,500 oz at $11.50/oz)

**ENERGY**

- Uranium — $1 million (43,500 lb $U_3O_8$ at $33/lb)
- Natural gas — Over $40 million (16.5 billion cu ft since 1979)

**Table 1. — MAJOR METALLIC MINERAL PRODUCERS**

| Map no. | Name | Major products | By products | Location Sec. | T. | R. | Ref. |
|---|---|---|---|---|---|---|---|
| 1 | Cornucopia | Gold, silver | Copper, lead | 27 | 9 S. | 45 E. | 1 |
| 2 | Mayflower | Gold | Silver | 26 | 8 S. | 45 E. | 1 |
| 3 | Sumpter | Gold, copper | Silver | 25 | 8 S. | 38 E. | 1 |
| 4 | Mother Lode | Copper, gold | Silver | 7 | 7 S. | 38 E. | 1 |
| 5 | Cracker | Gold | — | 19 | 7 S. | 38 E. | 1 |
| 6 | Daly-Vanderi | Gold | — | 19 | 7 S. | 44 E. | 1 |
| 7 | Virtue-Muir | Gold | — | 19 | 7 S. | 44 E. | 1 |
| 8 | Cougar | Gold | Silver | 31 | 20 S. | 37 E. | 1 |
| 9 | Independence | Gold | Silver, copper | 32 | 8 S. | 37 E. | 1 |
| 10 | Red Boy | Gold, silver | Silver | 32 | 8 S. | 37 E. | 1 |
| 11 | Centennial | Gold | Silver | 4 | 9 S. | 37 E. | 1 |
| 12 | Monumental | Gold, silver | — | 19 | 8 S. | 37 E. | 1 |
| 13 | Golden Chain | Gold, silver | Lead, copper | 19 | 8 S. | 37 E. | 1 |
| 14 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 15 | Bonanza | Gold | Silver | 4 | 9 S. | 37 E. | 1 |
| 16 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 17 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 18 | Hope Fraction | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 19 | Eureka & Excelsior | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 20 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 21 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 22 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 23 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 24 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 25 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 26 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 27 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 28 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 29 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 30 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 31 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 32 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 33 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 34 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 35 | Columbia | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 36 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 37 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 38 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 39 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 40 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 41 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 42 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 43 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 44 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 45 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 46 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 47 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 48 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 49 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 50 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 51 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 52 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 53 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 54 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 55 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 56 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 57 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 58 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 59 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 60 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 61 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 62 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 63 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 64 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 65 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 66 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 67 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 68 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 69 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 70 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 71 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 72 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 73 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 74 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 75 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 76 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 77 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 78 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 79 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 80 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 81 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 82 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 83 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 84 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 85 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 86 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 87 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 88 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 89 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 90 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 91 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 92 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 93 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 94 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 95 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 96 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 97 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 98 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 99 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 100 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 101 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 102 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 103 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 104 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 105 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 106 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 107 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 108 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 109 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 110 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 111 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 112 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 113 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 114 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 115 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 116 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 117 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 118 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 119 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 120 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 121 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 122 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 123 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 124 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 125 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 126 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 127 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 128 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 129 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 130 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 131 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 132 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 133 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 134 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 135 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 136 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 137 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 138 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 139 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 140 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 141 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 142 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 143 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 144 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 145 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 146 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 147 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 148 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 149 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 150 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 151 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 152 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 153 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 154 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 155 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 156 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 157 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 158 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 159 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 160 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 161 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 162 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 163 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 164 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 165 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 166 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 167 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 168 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 169 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 170 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 171 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 172 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 173 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 174 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 175 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 176 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 177 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 178 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 179 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 180 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 181 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 182 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 183 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 184 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 185 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 186 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 187 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 188 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 189 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 190 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 191 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 192 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 193 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 194 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 195 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 196 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 197 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 198 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 199 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 200 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 201 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 202 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 203 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 204 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 205 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 206 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 207 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 208 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 209 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 210 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 211 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 212 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 213 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 214 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 215 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 216 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 217 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 218 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 219 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 220 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 221 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 222 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 223 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 224 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 225 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 226 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 227 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 228 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 229 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 230 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 231 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 232 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 233 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 234 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 235 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 236 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 237 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 238 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 239 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 240 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 241 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 242 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 243 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 244 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 245 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 246 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 247 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 248 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 249 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 250 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 251 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 252 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 253 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 254 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 255 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 256 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 257 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 258 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 259 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 260 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 261 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 262 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 263 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 264 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 265 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 266 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 267 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 268 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 269 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 270 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 271 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 272 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 273 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 274 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 275 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 276 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 277 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 278 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 279 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 280 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 281 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 282 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 283 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 284 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 285 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 286 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 287 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 288 | Highland Mammoth | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 289 | Red Boy Extension | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 290 | Vanity | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 291 | Cougar | Gold | — | 31 | 8 S. | 37 E. | 1 |
| 292 | Chaparroting | Silver, gold | — | 36 | 8 S. | 37 E. | 1 |
| 293 | Bonanza | Gold, silver | Silver | 4 | 9 S. | 37 E. | 1 |
| 294 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 295 | Red Boy | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 296 | Golden Chain | Gold | — | 19 | 8 S. | 37 E. | 1 |
| 297 | Mother Lode | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 298 | Bonanza | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 299 | Ben Harrison | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 300 | Lucky Boy | Gold | — | 4 | 9 S. | 37 E. | 1 |
| 301 | Columbia | Gold | Silver | 32 | 8 S. | 37 E. | 1 |
| 302 | Granite Boy | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 303 | Hope Fraction | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 304 | Eureka & Excelsior | Gold | — | 32 | 8 S. | 37 E. | 1 |
| 305 | Golden Rule | Gold, silver | — | 32 | 8 S. | 37 E. | 1 |
| 306 | Mammoth Mine | Gold, silver | — | 32 | 8 S. | 37 E. | 