

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

**GEOLOGIC MAP OF THE GOTHIC QUADRANGLE,
GUNNISON COUNTY, COLORADO**

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Pamphlet to accompany
GEOLOGIC QUADRANGLE MAP
GQ-1689

Table 1.--Patented mining claims, partial list of other mines and prospects, and selected unpatented claims

[Numbered localities are shown on fig. 2, except for No. 50 (shown on map); DH, drill holes 1-9 on map and fig. 2; U, location uncertain. Leaders (--) indicate no data]

Locality No.	Name (mineral survey number)	Year(s) of reported activity	Remarks
Patented mining claims			
1	Power (15083)	1900	
2	Tunnel (15082)	1887, 1891-93, 1900-01.	Lower adit (at 11,500-ft elevation) and 1,700-ft crosscut tunnel to main 700-ft raise of the Sylvanite mine. No evidence of production from tunnel or lower 500 ft of raise. A 50-ft-wide fault zone of clay and calc-silicate hornfels cuts north-south across tunnel 300 ft from adit (sample here assayed 0.09 oz gold; Weisner and Bieniewski, 1984).
3	J.S. Worden No. 2 (8632)	1891	
4	Buckeye (1330)	1879-83, 1949	
5	Moss Rose (3902)	1879-1910, 1950, 1968, 1984-86.	Main adit (at 12,125-ft elevation) to Sylvanite mine. Includes a 600-ft drift along Sylvanite No. 2 vein that intersects main shaft to upper and lower levels, and two westerly trending drifts (450 ft long and 300 ft long) that cut other veins.
6	Sylvanite (1329) (Silver Knight).	1879-1910, 1950, 1968, 1984-86.	About 2,200 ft of tunnels; 1,200 ft of vertical workings and extensively stoped areas along the Sylvanite and Sylvanite No. 2 veins. Near-vertical fissure veins along normal faults cut metasedimentary rocks and underlying granodiorite. Veins contain native (wire) silver, ruby silver (proustite and pyrrhite), argentiferous tetrahedrite, chalcopryite, arsenopyrite, barite, massive sulfides, minor gold, and galena. General vein material grades from about 1 to 4 oz silver per ton with bonanza streaks. Estimated production between 100,000 and 300,000 oz of silver (Zahony, 1986b). Mineral specimens at Colorado School of Mines, Golden, Colo., and Smithsonian Institution, Washington, D.C.
7	East Wing (1331)	1879-80	
8	Buck (5354)	1881-82	
9	Spirit of the times (2012)	1880	Prominent dumps and adits at about 12,000-ft elevation at head of west-facing basin. Wire silver.
10	Native Silver (2013)	1881, 1897, 1907	Do.
11	Silver Jenny (2084)	1883 and later	Do.
12	Silver Plume (2204)	1879-82	
13	Denver (7221)	--	
14	Mammoth (19053)	1909	

15	Chillicoet (19053)	1909 and prior to 1888.	Silver ore from fissure vein. Shaft at 12,300-ft elevation. (Abdurdix mine?).
16	Ottoe (17033)	1899	
17	Chief of the hills (16249)	1902	
18	Combination Nos. 1 and 2 (16071).	1898-1900	Several adits on shears trending S. 79° E. Quartz breccia and pyritized-argenteriferous vein matrix on dumps.
19	Spotted Fawn (12095)	1897, 1908	
20	J.G. (Jim) Blaine (12095)	1880 and earlier, 1884, 1889-92, 1908, 1950's and later.	Several adits and large dump at 10,600-ft elevation; includes 700-ft tunnel (1908) and two or more levels connected by raise. Veins contain argentite, chalcopryrite, malachite, azurite, and galena. Ten-stamp mill in Gothic. Ore shipped from adjacent Lucky Strike mine in 1908-09.
21	Urizilla (16655)	1903	
22	Bonnie Bray (18431)	1903	Adit and dump at 10,250-ft elevation on 6- to 10-in.-wide quartz vein trending N. 75° E.
23	Izetta No. 2 (9775)	1916	
24	Bonanza (6063)	1880-81	
25	Baltimore (2800)	1879-81	
26	Grand View (5526)	1879-82	Dump and tunnel. Mineralized fractures trend N. 70° E. Adjacent to Gray Copper claim (1879) and Grandview Extension lode (1902).
27	West Virginia (3164)	1879	
28	Virginia (3164)	1879-1906, 1947, 1955.	Two adits. Fissure vein trends N. 40° E. Tunnel 375 ft long (1882). Native silver (some bonanza grade), gold (1 oz/ton), copper, lead, and zinc. Ore shipped in 1947.
29	Mineral King (3807)	1907 and earlier	Shaft (and 1,000-ft tunnel?).
30	Ella Wood (3308)	--	
31	Frank (3846)	--	
32	Ophir (3610)	1880, 1901	
33	Victoria (18727)	1906, 1908	
34	Iron King No. 1 (18727)	1887-90, 1908 and later.	Adit and dump in Copper Creek valley (10,180-ft elevation). 500-ft tunnel and 100-ft drift (1907). Ore body 28-65 percent magnetite (specimen in Denver Historical Museum). Some silver, gold, chalcopryrite, sphalerite, and barite.
35	Jupiter (18725)	1880, 1904, 1907-08	
36	A.J. Warner (18725)	1896, 1906, 1908	
37	Copper Glance mill site (16254B).	--	
38	Silver Bell (16254A)	1880 and later	
39	Copper Queen (16254A)	1881-82, 1888-1906.	Pyritized rock and rhyolite porphyry (dike) rock on lower dump at 11,600-ft elevation. Silver (350-500 oz/ton), copper (argenteriferous tetrahedrite, azurite, and malachite), sphalerite, galena, and calcite along sheared and brecciated bedding planes in metasedimentary rocks.

Table 1.--Patented mining claims, partial list of other mines and prospects, and selected unpatented claims--Continued

Locality No.	Name (mineral survey number)	Year(s) of reported activity	Remarks
Patented mining claims--Continued			
40	Silver Queen (16254A)	1879-82, 1889	
41	Copper Glance (16254A)	1879-81, 1885, 1889-90, 1926.	
42	Copper Extension (16254A)	1902	Several adits and numerous prospects.
43	Maine (16254A)	1902	
44	Columbia (16254A)	1879-81, 1902	
45	Snooks (5461)	1880	Adit (Basken tunnel?) and prospects.
46	Iron Duke (2607)	1880-82, 1886	
47	Horace Porter (3527)	1880	Arsenates of cobalt, nickel, and iron (skutterudite, smaltite, erythrite, and loellengite). Ruby silver (proustite and pyrrargyrite), native silver, chalcocopyrite, marcasite, and galena in calcite, siderite, and barite.
48	Hancock (5672)	1879-82, 1897	Adjacent to, and may overlap, Luona claim.
49	Silver Thistle (5655)	--	
Selected unpatented claims, mines, and prospects (other unpatented claim locations are shown by Weisner and Bieniewski, 1984)			
U	Alice	1879-80	Northwest side Teocalli Mountain, parallel to Luona claim.
U	Alice Group	--	In vicinity of J.G. Blaine claim.
DH	Amax T.E. claim block	1973-80	Nine exploratory drill holes in Copper Creek valley totaling 14,450 ft.
U	American	1880-83, 1885, 1889-90, 1903.	In Virginia Basin. Some production.
U	American Eagle	1879-81	Southeast(?) side of White Rock Mountain. Cobalt-nickel arsenates and native and ruby silver.
U	Bunn basin lode	1887 and later	In small basin northeast of Avery Peak. Ore shipped in 1903.
50	Elk Mountain (Pershing-New Ruby) coal mine.	1919-27, 1931-32 and later?	Mined two beds of semianthracite and anthracite, 2-5 ft thick. Total production through 1927 was 262,785 tons. Slope length about 3,700 ft. Located in sec. 34, T. 13 S., R. 86 W.
U	Exchange	1886-87, 1901	Near divide in small basin northeast of Avery Peak.
U	Gold King	1898-99, 1907	In Queen Basin.
U	Jenny Lind	1879-83, 1885-90, 1918.	Second largest mine in Virginia Basin in 1879.
U	Lucky Strike	1896, 1908-09	Adjacent to J.G. Blaine claim (No. 20). Ore shipped in 1896, 1908, and 1909. Five-stamp mill.

U	Luona	1880-81, 1925 and later.	Northwest side of Teocalli Mountain. Cobalt-nickel-iron arsenates, native and ruby silver, chalcopyrite, galena, siderite, and barite. Adjacent to Hancock and Alice claims.
U	New York	1901	Near Usona Tunnel. Magnetite, galena-silver ore.
U	Silver Cord	1880-81, 1884-89	In, or near, small basin northeast of Avery Peak.
U	Silver King	1879-83, 1937	In Queen Basin.
U	Silver Reef	1879, 1926	Lower part of Queen Basin.
U	Ten Yeck	1889-90	In small basin northeast of Avery Peak.
51	Usona Tunnel	1906-07	Portal, large dump, and ruins on southeast side of Copper Creek valley at 10,450-ft elevation. Uncompleted 3,000-ft(?) crosscut to mines in Queen Basin.

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Colorado Division of Mines (1919-27)	Gunnison County Court House records	Thomas (1972a, b, 1974, 1975, 1980)
Emmons and others (1894)	Haase (1971)	U.S. Bureau of the Mint (1881-91)
Engineering and Mining Journal (1888)	Hillebrand (1884)	U.S. Geological Survey (1906-10)
Fieldner and others (1937)	Iles (1882)	Weisner and Bieniewski (1984)
Freeman and others (1985)	Kemp (1906)	Zahony (1985, 1986a, b)

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