

Historic Trail Map of the Denver 1° x 2° Quadrangle, Central Colorado

By Glenn R. Scott
1999

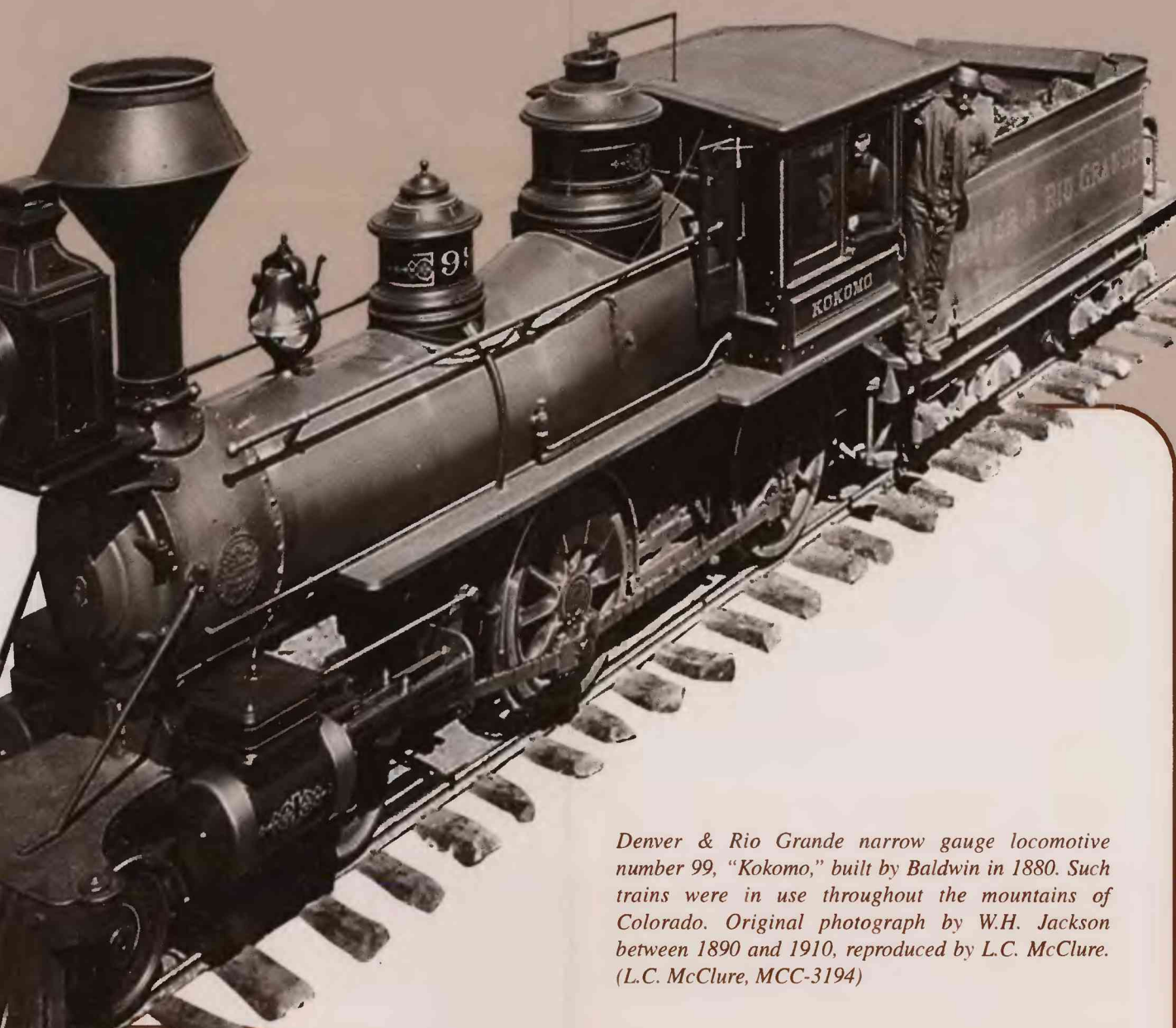
Geologic Investigations Series
I-2639 (Sheet 2 of 2)
Pamphlet accompanies map

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The Denver Public Library,
Western History and
Genealogy Department

RAILROADS

The first railroad to enter Colorado (except for a short line at Julesburg) was the standard gauge Denver Pacific Railway that came south from the Union Pacific line at Cheyenne. The Denver Pacific train crossed the Wyoming line about October 4, 1869, and reached Denver on June 17, 1870, pulled by the locomotive David H. Moffat. The last segment of a continuous chain of railroads across the United States was completed by the Kansas Pacific Railway crews on August 15, 1870, not at Promontory Point, Utah, as stated by many authors, but at Comanche Crossing just east of present-day Strasburg, Colorado. A Kansas Pacific train then reached Denver from Kansas City on August 15, 1870, providing service to the east and to the north. On September 22, 1870, the Colorado Central Railway finished a standard gauge line from Denver to Golden, Colorado.

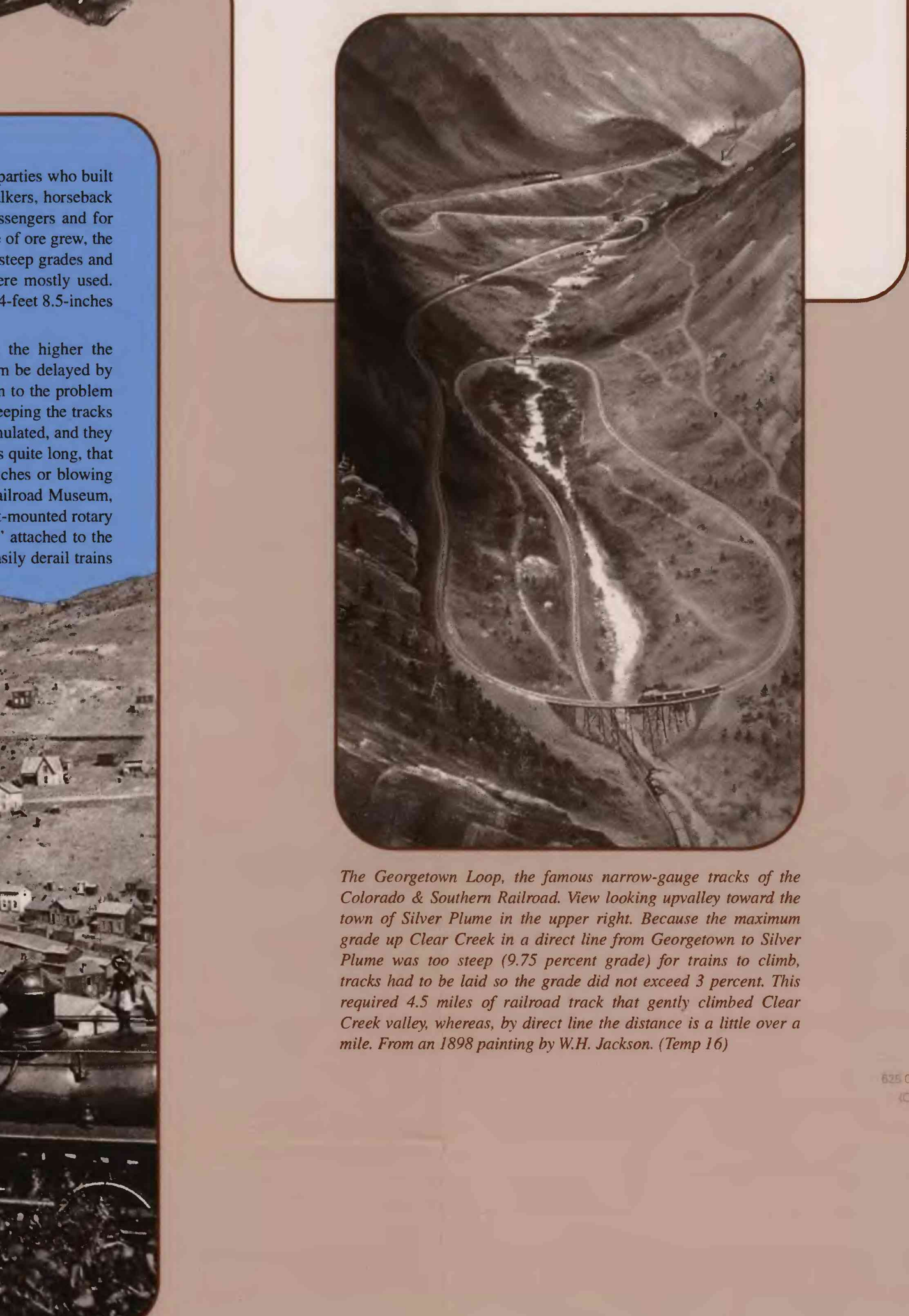
During the twenty years after 1870, railroad lines were proposed all across Colorado; many more were proposed than were completed. One of these that not only was successful but also became famous was the Denver and Rio Grande Railway, which was called the "Baby Railroad" because nearly all of its early trackage was narrow gauge. This railroad ran trails to most of the metal mining camps in Colorado. Several of these narrow gauge lines are still running in Colorado. For example, the Durango and Silverton Railroad, the Cumbres and Toltec Scenic Railroad, the Georgetown Loop Railroad, and the 2-foot-gauge Cripple Creek and Victor Railroad (Colorado Railroad Museum, 1961).



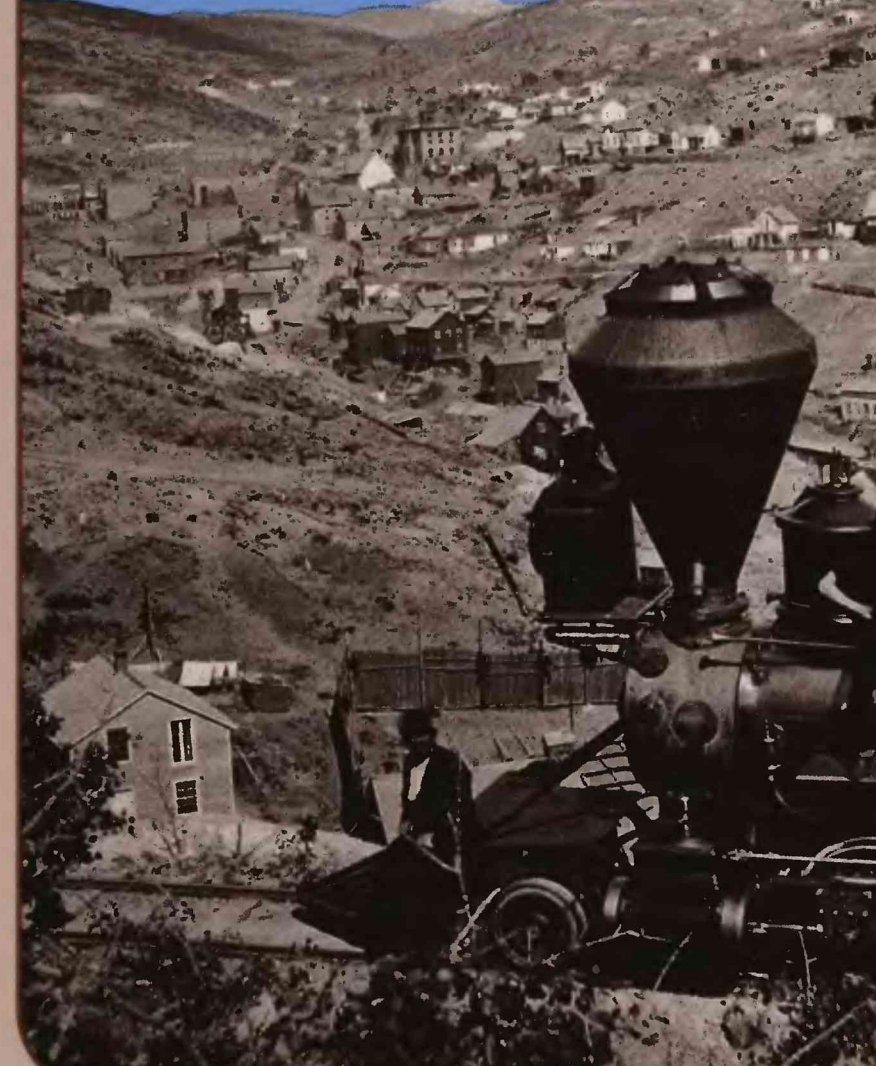
Denver and Rio Grande narrow gauge locomotive number 99, "Rokomo," built by Baldwin in 1880. Such trains were in use throughout the mountains of Colorado. Original photograph by W.H. Jackson between 1890 and 1910, reproduced by L.C. McClure, MCC-3194.

Originally, access to the Colorado mountains was made possible by private parties who built toll wagon roads through the rugged valleys and over the mountain passes. Walkers, horseback riders, wagons, and stages used these roads and they were satisfactory for passengers and for light freight. However, when mining increased in the mountains and the tonnage of ore grew, the need for larger and faster ways of shipping called for railroads. Because of the steep grades and sharp curves in the mountains near the mining camps, narrow gauge lines were usually used. Narrow gauge tracks are 3 feet wide, whereas standard gauge tracks are usually 4-foot 8.5-inch wide.

Snow created serious problems for the mountain railroads. Generally, the higher the mountains the deeper the snow. At first it was claimed that trains would seldom be delayed by snow. However, after a few long delays as long as 3 months or more, a solution to the problem had to be found. Snow fences were tried but they were found to be useless in keeping the tracks clear. Snowblowers were built at avalanche chutes and where blowing snow accumulated, and they immediately proved their worth. Snowblowers were wooden structures, sometimes quite long, that enclosed problem stretches of track. The snowblowers could be heated by analyzers or blowing snow, while trains safely chugged through the wooden structures (Colorado Railroad Museum, 1961; Thayer, 1902). In addition, special train engines were equipped with front-mounted rotary snowplows that could remove snow 10-12 feet deep, and hydraulic "ice packs" attached to the front of some engines cleared tracks covered by solid sheets of ice that could easily derail trains (Bellinger, 1950).



The Georgetown Loop, the famous narrow-gauge tracks of the Colorado & Southern Railroad. New tracks gradually opened the route of Silver Plume in the upper right. Because the maximum grade up Clear Creek is a direct line from Georgetown to Silver Plume was too steep (0.75 percent grade) for trains to climb, tracks had to be laid so the grade did not exceed 3 percent. This required 4.5 miles of railroad track that gently climbed Clear Creek valley, whereas, to direct line the distance is 0.8 mile over a mile. From an 1898 painting by W.H. Jackson. (Temp 16)



Locomotive of the Colorado Central Railroad and part of the mining town of Central City, between 1875 and 1881. Central City High School is the prominent two-story building in the upper part of the photograph. The steeple of St. Paul's Episcopal Church can be seen to the left of the school. The mountain slope in view are underlain by resistant metamorphic rocks that in places contain mineralized veins that contain gold. (Joseph Collier, c.1920)



Denver and Rio Grande Railroad engine number 1060 and passenger train heading south from station at the town of Castle Rock. The passenger flat-topped huts in the background is also called Castle Rock, which was named as the Long Expedition in 1820. The train was named after the huts in 1871. About 1902-1908. (L.C. McClure, MCC-1799)

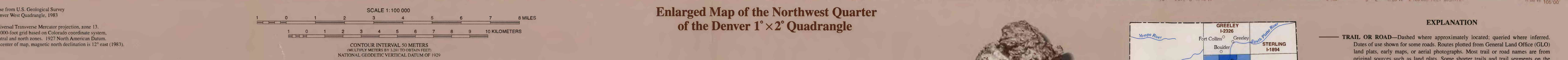
Miner panning for gold in Denver. He swirls sediment and water in his gold pan. Between 1890 and 1910. (L.C. McClure, MCC-1918)

In 1858, there were almost 300 people in the three new towns and too few cabins to house them all, and only a few cabins had fireplaces. Some people either took stoves in the warm cabins or slept around campfires outdoors. They also cooked all food outdoors. The discomfort and the difficulty of getting food began to decrease their interest in gold. Fortunately, on Christmas Eve 1858, Richard Lacy Wooten, a friend of William Best and Kit Carson, showed up with a wagon he had driven from Taos, New Mexico, loaded with flour, sugar, bacon, dried apples, and bags of coffee. Soon the goods were unloaded into one of the cabins, and a store was started. Trades for such goods were made throughout the community. The item of greatest interest was these barrels of "Three Lightning" FREE DRINKS FOR ALL!

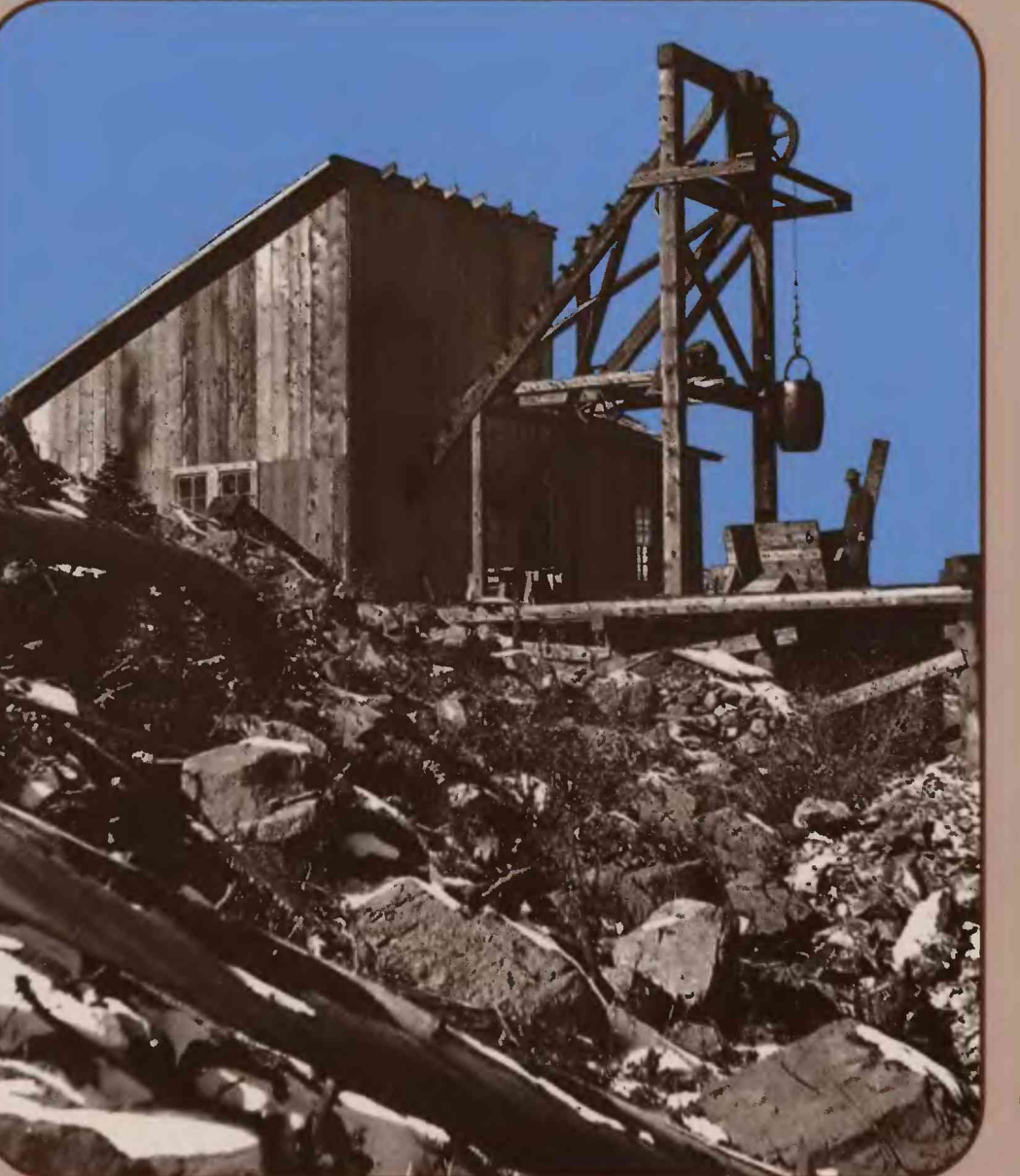
The next spring, because of the lack of new gold finds, many discouraged gold seekers gave up and started their long journey back east to civilization. However, larger and more profitable gold deposits were found by George A. Jackson at present-day Idaho Springs on Jan. 7, 1859. They were until spring, and by John H. Gregory at present-day Blackhawk in May 6, 1859. News of these new and more profitable strikes spread like wildfire. Soon thousands of fortune-seekers started to Colorado from all over the country and from overseas. Thus, the gold rush of 1859 began, and an estimated 50,000-100,000 gold seekers flooded the area in 1859-1860. The search for gold intensified across most of Colorado. In the following decades, many deposits of gold, silver, and other valuable minerals were found in a mineral belt that extends from the San Juan Mountains northeast to Boulder (Dorset, 1970).



Enlarged Map of the Northwest Quarter of the Denver 1° x 2° Quadrangle



Scale 1:100,000. Contour interval in meters. National Geographic Society, National Geographic Society, Washington, D.C. 20036. U.S. Geological Survey, Denver, W-2004-1083.

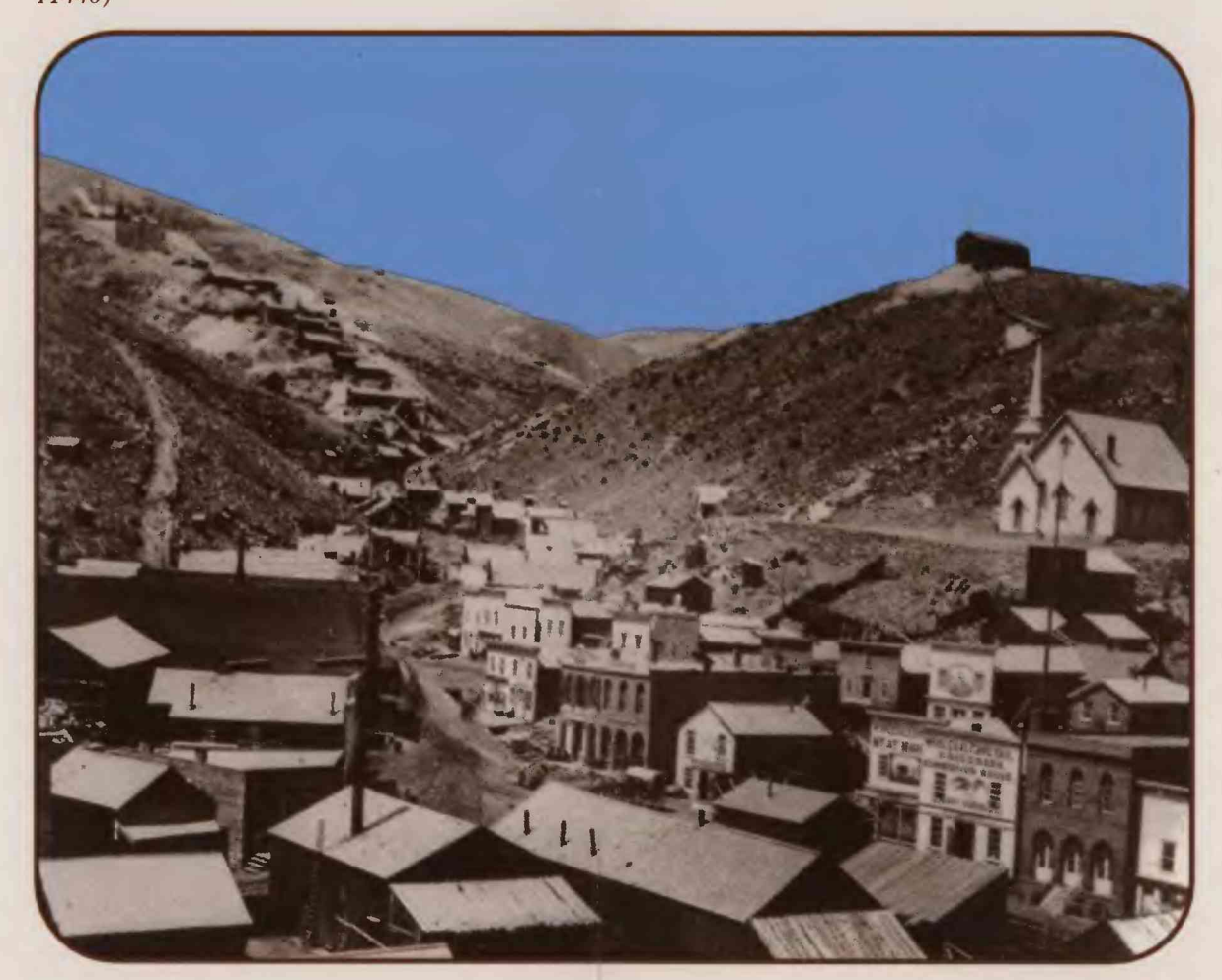


Mine shaft building in the mountains of Colorado, east location unknown. One bucket is suspended over the mine shaft from wood headframe and pulley wheel. Between 1855 and 1900. (H.S. Pease, P-945)



Tom Mey and his burro "Janey" in a mining tunnel in the Mendota Mine, Silver Plume, Colorado. The burro carries two hundred lbs of rock. Between 1875 and 1890. (K-17655)

WEEKLY COLORADO MINER
GEOGETOWN, COLORADO.
TERMS: THREE DOLLARS A YEAR. RATES OF ADVERTISING GIVEN ON APPLICATION.
PUBLISHED BY GEOGETOWN, CO.

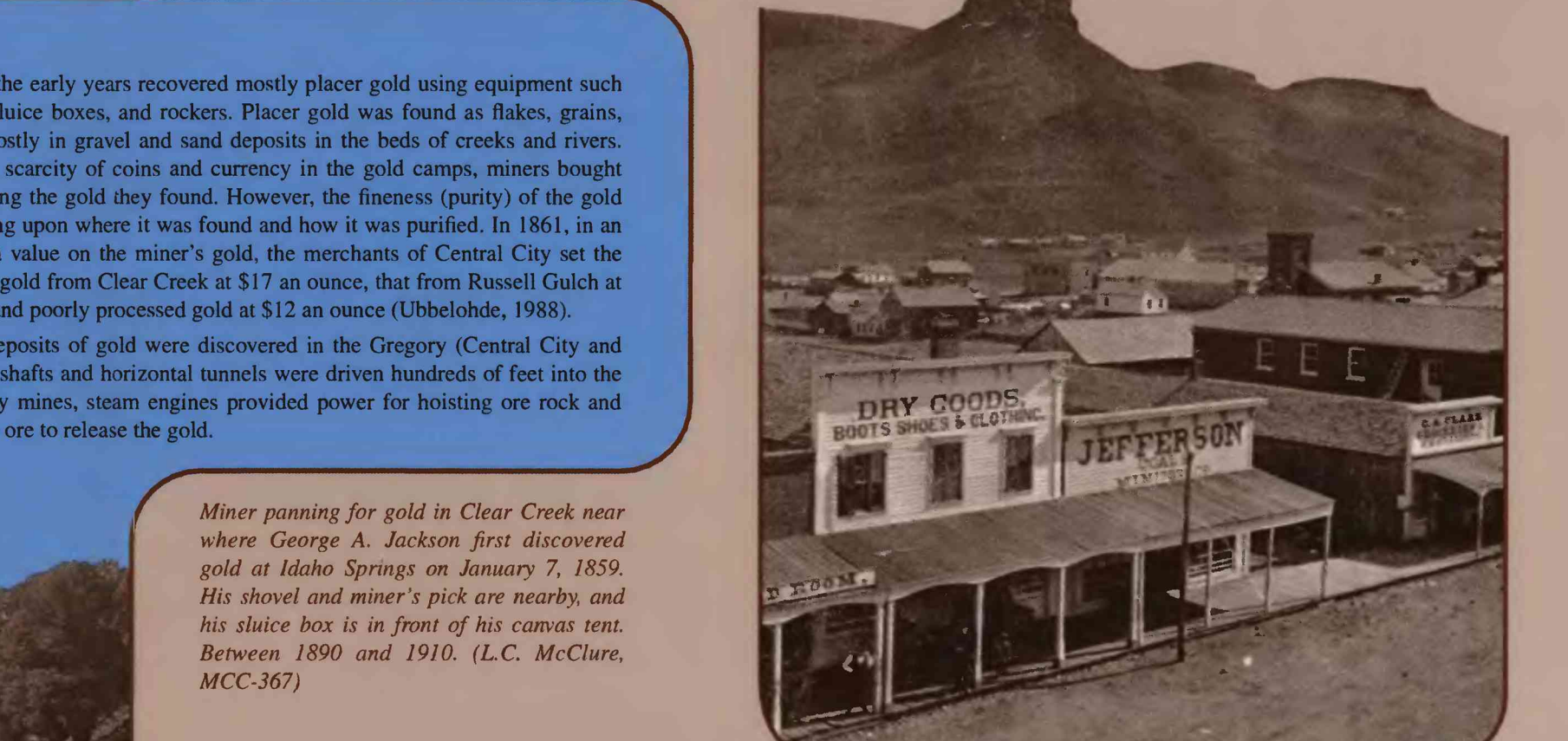


Blackhawk, Colorado, between 1862 and 1869, possibly 1864. The Commission House (lower right), a wholesale and retail grocery store, stands next to a meat market and further up the street is a covered wagon and its team of mules in front of a grocery and liquor store. The Blackhawk Presbyterian Church, built in 1865, is at middle right. On the mountain slope in the far background are mine shaft buildings, some of which contain steam engines that provided power for hoisting ore and waste rock and for running heavy stamp mills that pulverized ore. The mine shaft buildings follow the "Gregory vein," which varied from a few inches to several feet thick and contained gold ore. The Gregory vein was discovered by John H. Gregory on May 6, 1859. Photograph of an original photograph by unknown photographer. (H. H. Lake, L-557)



As early as 1859 and continuing into the early 1860's, "hard rock" lode deposits of gold were discovered in the Gregory (Central City and Blackhawk area), Georgetown, and Idaho Springs districts. Vertical and inclined shafts and horizontal tunnels were driven hundreds of feet into the solid rock of these deposits using only hand tools and blasting powder. In many mines, steam engines provided power for hoisting ore and waste rock out of the mines and for running heavy stamp mills that pulverized the ore to release the gold.

EXPLANATION
 TRAIL OR ROAD—Dashed where approximately located; queried where inferred.
 Town or other cultural feature—Approximately located; showing approximate date of founding of a town or establishment of a post office, and generally the date of the first mine to strike; alternate town names and dates set in parentheses. Most town names are in brown. Locations of towns shown on previously published maps, mostly, and some locations shown here may be inaccurate. Abbreviation used: P.O. = Post Office.
 TOPOGRAPHIC FEATURE OR HISTORIC SITE
 RAILROAD—Date shows beginning or duration of operation. Currently operating railroads are shown in brown. Abbreviations of railroads are explained in the pamphlet text. For more details about railroads, see books about railroads listed in the "Sources of Information."



Painted buildings with covered walkways along Washington Avenue in Golden, Colorado, in 1922. Castle Rock and South Platte Mountains in background. (X-10088)

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U.S. Department of the Interior
1849-1999
Historical data compiled by Glenn R. Scott in 1995-1998. Original drawings by Carol Osherowsky and Roger Lawrence. Pamphlet text layout and digital cartography by James Chappell. Manuscript approved for publication, March 26, 1998.

THE GOLD RUSH
 In the 1850's, gold was found at several places near present-day Denver. In 1858, news of the strikes brought scores of people to the area seeking fame and fortune. The gold they found in the plains near future Denver was in small patches along the streams and was very fine, and each deposit was soon exhausted. The prospectors looked for placer gold in streams from the Platte Peak area, northward to the Wyoming border, but they failed to find any really profitable deposits east of the mountains. Nevertheless, when fall came and winter was approaching, several parties (including) returned to leave and stayed the winter of 1858-1859 near the coalfields of present-day Cherry Creek and South Platte River and named their rapidly growing small communities Aventura, St. Charles, City, and Montana City. Most prospectors brought few provisions with them, so within a short time even the staple foods were in short supply. A hundred-pound sack of flour cost \$20 if it could be found. Bacon, coffee, and sugar sold for 50 cents a pound. About the only source of food was wild game, such as beaver, muskrat, and mule deer. As time elapsed, hunters had to go farther from camp to find game. Also, after the ground froze, placer mining became almost impossible.