MINE INDEX

MINE NAMES CURRENTLY USED

* Name and Dates of Operation	Location
ACME, 1888-1928	SEC. 8, T.1S., R.69W.
AJAX, 1890-1892	SEC. 17, T.1S., R.69W.
ARROW, 1933-1935, (STAR, NEW, 1918-1921; CRESENT, 1905; STAR, OLD, 1883-1895)	SEC. 13, T.1N., R.69W.
BAKER, 1887-1896	SEC. 1, T.1S., R.69W.
BAKER SHAFT, NEW, 1905-1909	SEC. 1, T.1S., R.69W.
BANNER SHAFT, 1932-1934	SEC. 14, T.1N., R.69W.
BASELINE, 1941-1942, (MUNROE, 1933-1940; WASHINGTON, NEW, 1915-1918; WASHINGTON, OLD, 1903-1911; LINCOLN, OLD, 1896-1902)	SEC. 32, T.1N., R.68W.
BAUM, 1914-1953, (GOLDEN ASH, 1906-1913)	SEC. 36, T.2N., R.68W.
BIG FIVE, 1938-1942, (CRACKERJACK, 1935-1937)	SEC. 11, T.1S., R.70W.
BIG LAKE, 1916, (GARIBALDI)	SEC. 4, T.1S., R.69W.
BLACK DIAMOND	SEC. 21, T.1S., R.70W.
BLACK DIAMOND, OLD	SEC 11, T.1S., R.70W.
BLACK DIAMOND NO. 1, 1885-1913	SEC. 11, T.1S., R.70W.
BLACK DIAMOND NO. 2, 1931-1945	SEC. 34, T.1N., R.69W.
BLUE GOOSE, 1921-1924, (BLUE RIBBON, 1905; ALLEN BOND, 1890-1895)	SEC. 11, T.1S., R.70W.
BLUE RIBBON, 1933	SEC. 6, T.1S., R.68W.
BOULDER VALLEY, OLD, 1883-1885, 1890-1893	SEC. 18, T.1N., R.68W.
BOULDER VALLEY NO. 1, 1917-1947, (STATE, 1913-1916)	SEC. 20, T.1N., R.68W.
BOULDER VALLEY NO. 3, 1944-1969	SEC. 1, T.1N., R.68W.
BRIGGS SHAFT	SEC. 19, T.1N., R.68W.
CACTUS, 1922-1935, (GLO-COAL)	SEC. 11, T.1S., R.70W.
CALEDONIA, 1890-1899	SEC. 8, T.1S., R.69W.
CAMBRO, 1917-1928, (PLUTO)	SEC. 2, T.1S., R.69W.
CANFIELD SHAFT	SEC. 13, T.1N., R.69W.
CAÑON, 1888-1898, (CANNON, OTIS SHAFT)	SEC. 2, T.1S., R.69W.
CAPITOL, 1908-1926	SEC. 1, T.1S., R.69W.
CENTENNIAL, OLD, 1906-1931	SEC. 16, T.1S., R.69W.
CENTENNIAL, NEW, 1936-1952	SEC. 10, T.1S., R.69W.
CHASE, 1892-1895	SEC. 13, T.1N., R.69W.
CLAYTON, 1920-1942	SEC. 16, T.1N., R.68W.
CLEVELAND, 1885-1895	SEC. 24, T.1N., R.69W.
COAL CREEK SLOPE, 1935	SEC. 26, T.1S., R.70W.
COLUMBINE, 1920-1946	SEC. 29, T.1N., R.68W.
COOK SHAFT, 1928	SEC. 15, T.1S., R.70W.
CRACKERJACK, OLD, 1917-1948, (MORGAN AND WILLIAMS)	SEC. 22, T.1S., R.70W.
CRACKERJACK NO. 2, 1948-1951, 1957-1958, (CUBA)	SEC. 22, T.1S., R.70W.
CROWN, OLD, 1919-1937	SEC. 14, T.1S., R.70W.
CROWN, NEW, 1938-1955	SEC. 13, T.1S., R.70W.
DAVIDSON, 1888-1892	SEC. 6, T.1S., R.69W.
DAVIS, 1900-1906	SEC. 24, T.2N., R.68W.
EAGLE, 1939- OPERATING 12/1/74	SEC. 15, T.1N., R.68W.
EL DORADO, 1933-1939	SEC. 21, T.1S., R.70W.
ELECTRIC, 1898-1918, (SUMMIT, 1909-1913)	SEC. 4, T.1S., R.69W.
EMERSON, 1897-1904	SEC. 20, T.2N., R.67W.
ENTERPRISE, 1895-1898	SEC. 19, T.1S., R.69W.
ERIE STRIP MINE, 1948-1953	SEC. 33, T.2N., R.68W.
EUREKA NO. 1, 1900-1926	SEC. 28, T.2N., R.68W.
EUREKA NO. 2, 1900-1926	SEC. 27, T.2N., R.68W.
EUREKA NO. 3, 1900-1926	SEC. 27, T.2N., R.68W.
EVAN JONES SHAFT	SEC. 24, T.2N., R.68W.
EVANS, 1907-1942	SEC. 30, T.2N., R.67W.
EXCELSIOR, 1890-1913, (NORTHERN)	SEC. 35, T.1N., R.69W.
FIRESIDE, 1931-1944	SEC. 7, T.1S., R.69W.
FIRESTONE, 1908-1920, (LOUISVILLE COAL AND LAND CO. MINE NO. 1)	SEC. 30, T.2N., R.67W.
FOX, OLD	SEC. 16, T.1S., R.70W.
FOX NO. 6, 1899	SEC. 16, T.1S., R.70W.
FOX, 1880-1936, (EAGLE, 1934)	SEC. 15, T.1S., R.70W.
FOX SLOPE, OLD	SEC. 11, T.1S., R.70W.
FREDERICK, 1907-1929, (SLOPE MINE)	SEC. 25, T.2N., R.68W.
GARFIELD NO. 1, 1884-1897	SEC. 24, T.1N., R.69W.
GARFIELD NO. 2, 1886-1905	SEC. 19, T.1N., R.68W.
GLADSTONE, 1890-1915	SEC. 35, T.1N., R.69W.
GORHAM, 1898-1939	SEC. 22, T.1S., R.70W.
GORHAM, NEW, 1943-1955	SEC. 24, T.1S., R.70W.
GORHAM, SOUTH, 1943-1949	SEC. 23, T.1S., R.70W.
GRADEN, 1935-1955	SEC. 12, T.1N., R.68W.
GRANT, 1914-1939	SEC. 19, T.2N., R.67W.
HELCA NO. 1, 1890-1920	SEC. 4, T.1S., R.69W.
HIGHVIEW, 1930-1936	SEC. 21, T.1S., R.70W.
HINGLEY-MORGAN SHAFT	SEC. 18, T.1N., R.67W.
HI-WAY, 1930-1954, (EVERSMAN, 1928-1929; HARTMAN, 1927)	SEC. 14, T.1S., R.69W.
IDEAL, 1907-1916	SEC. 34, T.2N., R.68W.
IMPERIAL, OLD, 1895-1898	SEC. 9, T.1S., R.69W.
IMPERIAL, 1927-1972	SEC. 10, T.1N., R.68W.
INDUSTRIAL, 1895-1945	SEC. 24, T.1S., R.70W.
IRVINGTON, 1907-1908, (HAYWOOD, 1899-1906)	SEC. 36, T.1N., R.69W.
JACKSON, 1885-1890	SEC. 13, T.1N., R.69W.
KITCHEN SLOPE	SEC. 21, T.1S., R.70W.
LEADER, 1893-1899	SEC. 17, T.1S., R.69W.
LEHIGH, 1902-1910	SEC. 19, T.1N., R.68W.
LEWIS NO. 1 AND NO. 2, 1914-1925, 1934-1942, (PEERLESS, 1926-1933)	SEC. 21, T.1S., R.70W.
LILEY, 1938-1948	SEC. 13, T.1S., R.69W.
LINCOLN, 1948- IDLE 12/1/74	SEC. 24, T.1N., R.68W.
LINCOLN SHAFT, OLD	SEC. 24, T.1N., R.68W.
LLOYD SHAFT	SEC. 19, T.1N., R.68W.
LONGS PEAK, 1892-1901	SEC. 13, T.1N., R.69W.
MARFEL SHAFT, 1897-1904	SEC. 24, T.1N., R.69W.
MARSHALL NO. 1	SEC. 21, T.1S., R.70W.
MARSHALL NO. 2, OLD	SEC. 22, T.1S., R.70W.
MARSHALL NO. 2	SEC. 15, T.1S., R.70W.
MARSHALL NO. 3	SEC. 21, T.1S., R.70W.
MARSHALL SHAFT	SEC. 9, T.1S., R.69W.
MATCHLESS, 1903-1918, 1925-1927, (SUNLAND, 1922; CHAMPION, 1917-1921, 1923)	SEC. 7, T.1S., R.69W.
MCGREGOR, 1884-1895	SEC. 24, T.1N., R.69W.
MCKISSIC, 1887-1907, (ST. VRAIN, 1890-1892)	SEC. 19, T.2N., R.67W.
MCKISSICK	SEC. 8, T.1N., R.68W.
MILE-HIGH, 1913-1918	SEC. 27, T.1N., R.69W.
MINE NO. 1	SEC. 21, T.1S., R.70W.
MINE NO. 4	SEC. 21, T.1S., R.70W.
MINE NO. 5	SEC. 21, T.1S., R.70W.
MINE NO. 6	SEC. 21, T.1S., R.70W.
MINE NO. 7	SEC. 21, T.1S., R.70W.
MITCHELL, 1883-1891	SEC. 19, T.1N., R.68W.
MITCHELL, 1898-1920, (NEW MITCHELL, 1893-1897)	SEC. 35, T.1N., R.69W.

* MINE NAME IS THE LAST NAME BY WHICH MINE WAS KNOWN AND IS THE NAME USED ON THIS MAP. FORMER MINE NAMES AND DATES OF MINING UNDER THAT NAME ARE SHOWN IN PARENTHESES. IF NO DATE IS GIVEN, DATA WAS UNAVAILABLE.

MINE NAMES CURRENTLY USED

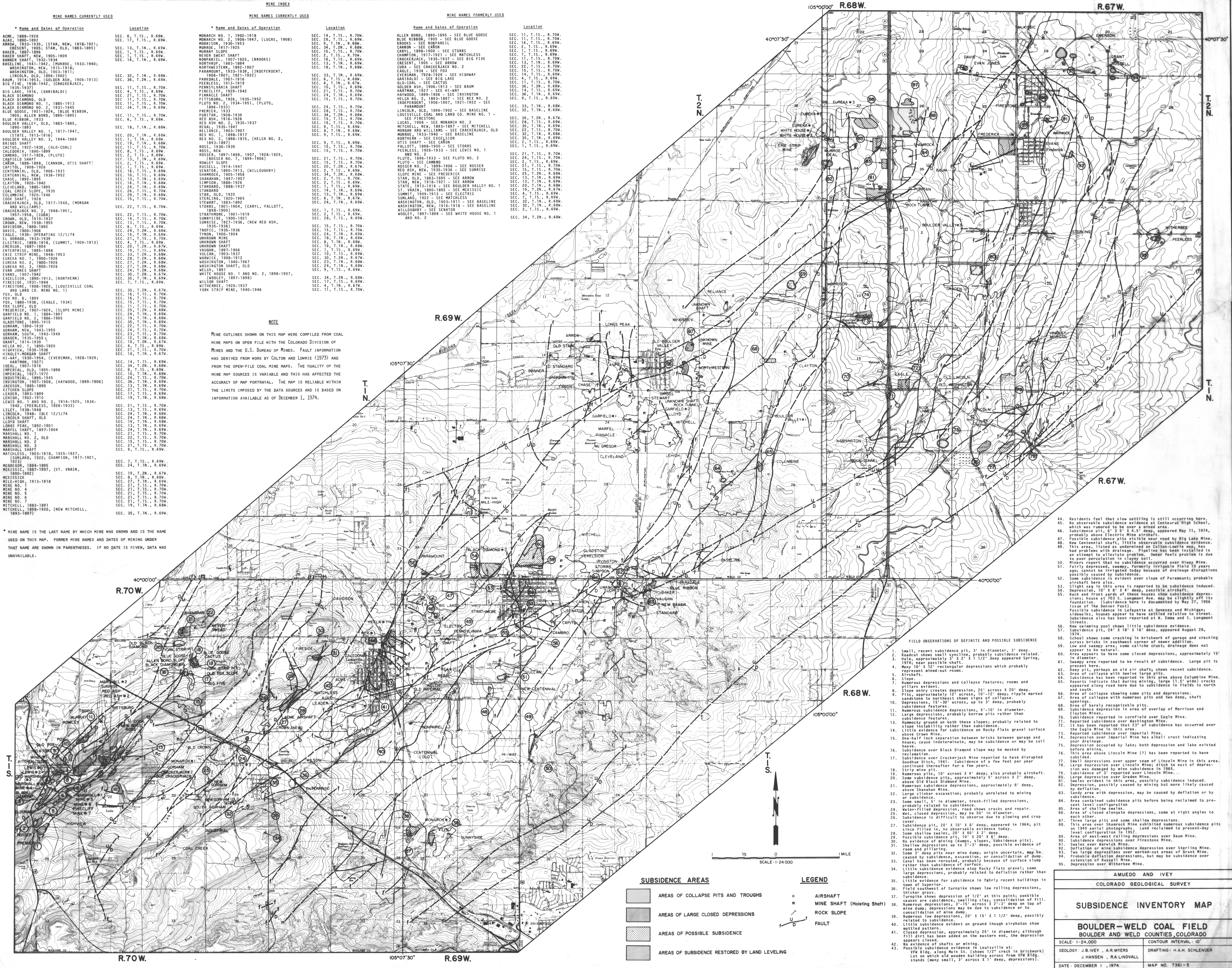
* Name and Dates of Operation	Location
MONARCH NO. 1, 1902-1918	SEC. 14, T.1S., R.70W.
MONARCH NO. 2, 1908-1947, (LUCAS, 1908)	SEC. 28, T.1S., R.69W.
MORRISON, 1930-1953	SEC. 9, T.1N., R.68W.
MUNROE, 1917-1925	SEC. 34, T.2N., R.68W.
MURRAY SLOPE	SEC. 15, T.1S., R.70W.
NEVER SWEAT SHAFT	SEC. 2, T.1S., R.70W.
NONPARIEL, 1907-1925, (BROOKS)	SEC. 16, T.1S., R.69W.
NORTHRUP, 1883-1884	SEC. 13, T.1N., R.69W.
NORTHWESTERN, 1892-1907	SEC. 18, T.1N., R.68W.
PARAMOUNT, 1933-1939, (INDEPENDENT, 1906-1907; 1921-1922)	SEC. 33, T.1N., R.69W.
PARKDALE, 1907-1916	SEC. 6, T.1S., R.68W.
PEERLESS, 1913-1919	SEC. 4, T.1N., R.67W.
PENNSYLVANIA SHAFT	SEC. 10, T.1S., R.69W.
PINECLIFF, 1929-1942	SEC. 21, T.1S., R.70W.
PINNACLE SHAFT	SEC. 24, T.1N., R.69W.
PITTSBURG, 1926, 1935-1952	SEC. 15, T.1S., R.70W.
PLUTO NO. 2, 1934-1951, (PLUTO, 1896-1933)	SEC. 24, T.1S., R.70W.
PREMIER, 1933	SEC. 28, T.1S., R.70W.
PURITAN, 1908-1939	SEC. 34, T.2N., R.68W.
RED ASH, 1916-1926	SEC. 15, T.1S., R.70W.
RED ASH NO. 2, 1935-1937	SEC. 15, T.1S., R.70W.
REGAL, 1935-1947	SEC. 9, T.1S., R.69W.
RELIANCE, 1903-1907	SEC. 8, T.1N., R.68W.
REX NO. 1, 1898-1917	SEC. 9, T.1S., R.69W.
REX NO. 2, 1898-1915, (HELCA NO. 2, 1893-1897)	SEC. 9, T.1S., R.69W.
ROSS, 1930-1939	SEC. 15, T.1S., R.70W.
ROSS, NEW	SEC. 15, T.1S., R.70W.
ROSSER, 1897-1898, 1907, 1928-1929, (ROSSER NO. 7, 1899-1906)	SEC. 21, T.1S., R.70W.
ROWLEY SLOPE	SEC. 15, T.1S., R.70W.
RUSSELL, 1914-1947	SEC. 20, T.2N., R.67W.
SENATOR, 1890-1913, (WILLOUGHBY)	SEC. 2, T.1S., R.69W.
SHAMROCK, 1905-1956	SEC. 34, T.2N., R.68W.
SHANAHAN, 1897-1907	SEC. 2, T.1S., R.70W.
SIMPSON, 1888-1926	SEC. 2, T.1S., R.69W.
STANDARD, 1888-1937	SEC. 1, T.1S., R.69W.
STANDARD	SEC. 14, T.1N., R.69W.
STAR, OLD, 1920	SEC. 13, T.1N., R.69W.
STERLING, 1920-1965	SEC. 6, T.1N., R.67W.
STEWART, 1883-1892	SEC. 24, T.1N., R.69W.
STORRS, 1901-1904, (CARYL, PALLOTT, 1898-1900)	SEC. 1, T.1S., R.69W.
STRATHMORE, 1901-1919	SEC. 2, T.1S., R.69W.
SUNNYSIDE, 1900-1921	SEC. 28, T.1S., R.69W.
SUNRISE, 1927-1936, (NEW RED ASH, 1935-1936)	SEC. 15, T.1S., R.70W.
TROPIC, 1935-1936	SEC. 15, T.1S., R.70W.
TYNON, 1900-1904	SEC. 24, T.1N., R.69W.
UNKNOWN MINE	SEC. 18, T.1N., R.68W.
UNKNOWN SHAFT	SEC. 8, T.1N., R.68W.
UNKNOWN SHAFT	SEC. 19, T.1N., R.68W.
VAUGHN, 1897-1906	SEC. 1, T.1S., R.69W.
VULCAN, 1903-1937	SEC. 10, T.1S., R.69W.
WARWICK, 1908-1912	SEC. 30, T.2N., R.67W.
WASHINGTON, 1940-1967	SEC. 23, T.1N., R.68W.
WASHINGTON SHAFT, OLD	SEC. 24, T.1N., R.68W.
WELCH, 1891	SEC. 9, T.1S., R.69W.
WHITE HOUSE NO. 1 AND NO. 2, 1896-1907, (WOOLEY, 1897-1898)	SEC. 34, T.2N., R.68W.
WILSON SHAFT	SEC. 17, T.1S., R.69W.
WITHERBEE, 1920-1937	SEC. 4, T.1N., R.67W.
YORK STRIP MINE, 1940-1946	SEC. 11, T.1S., R.70W.

MINE NAMES FORMERLY USED

Name and Dates of Operation	Location
ALLEN BOND, 1890-1895 - SEE BLUE GOOSE	SEC. 11, T.1S., R.70W.
BLUE RIBBON, 1905 - SEE BLUE GOOSE	SEC. 11, T.1S., R.70W.
BROOKS - SEE NONPAREIL	SEC. 16, T.1S., R.69W.
CANNON - SEE CAÑON	SEC. 2, T.1S., R.69W.
CARYL, 1898-1900 - SEE STORRS	SEC. 1, T.1S., R.69W.
CHAMPION, 1917-1921 - SEE MATCHLESS	SEC. 7, T.1S., R.69W.
CRACKERJACK, 1935-1937 - SEE BIG FIVE	SEC. 11, T.1S., R.70W.
CRESENT, 1905 - SEE ARROW	SEC. 13, T.1N., R.69W.
CUBA - SEE CRACKERJACK NO. 2	SEC. 22, T.1S., R.70W.
EAGLE, 1934 - SEE FOX	SEC. 15, T.1S., R.70W.
EVERSMAN, 1928-1929 - SEE HIGHWAY	SEC. 14, T.1S., R.69W.
GARIBALDI - SEE BIG LAKE	SEC. 4, T.1S., R.69W.
GLO-COAL - SEE CACTUS	SEC. 11, T.1S., R.70W.
GOLDEN ASH, 1906-1913 - SEE BAUM	SEC. 36, T.2N., R.68W.
HARTMAN, 1927 - SEE HI-WAY	SEC. 14, T.1S., R.69W.
HAYWOOD, 1899-1906 - SEE IRVINGTON	SEC. 36, T.1N., R.69W.
HELCA NO. 2, 1893-1897 - SEE REX NO. 2	SEC. 9, T.1S., R.69W.
INDEPENDENT, 1906-1907, 1921-1922 - SEE PARAMOUNT	SEC. 33, T.1N., R.68W.
LINCOLN, OLD, 1896-1902 - SEE BASELINE	SEC. 32, T.1N., R.68W.
LOUISVILLE COAL AND LAND CO. MINE NO. 1 - SEE FIRESTONE	SEC. 30, T.2N., R.67W.
LUCAS, 1908 - SEE MONARCH NO. 2	SEC. 28, T.1S., R.69W.
MITCHELL, NEW, 1893-1897 - SEE MITCHELL	SEC. 35, T.1N., R.69W.
MORGAN AND WILLIAMS - SEE CRACKERJACK, OLD	SEC. 22, T.1S., R.70W.
MUNROE, 1933-1940 - SEE BASELINE	SEC. 32, T.1N., R.68W.
NORTHERN - SEE EXCELSIOR	SEC. 35, T.1N., R.69W.
OTIS SHAFT - SEE CAÑON	SEC. 2, T.1S., R.69W.
PALLOTT, 1898-1900 - SEE STORRS	SEC. 1, T.1S., R.69W.
PEERLESS, 1926-1933 - SEE LEWIS NO. 1 AND NO. 2	SEC. 21, T.1S., R.70W.
PLUTO, 1896-1933 - SEE PLUTO NO. 2	SEC. 24, T.1S., R.70W.
PLUTO - SEE CAMBRO	SEC. 2, T.1S., R.69W.
ROSSER NO. 7, 1899-1906 - SEE ROSSER	SEC. 21, T.1S., R.70W.
RED ASH, NEW, 1935-1936 - SEE SUNRISE	SEC. 15, T.1S., R.70W.
SLOPE MINE - SEE FREDERICK	SEC. 25, T.2N., R.68W.
STAR, OLD, 1883-1895 - SEE ARROW	SEC. 13, T.1N., R.69W.
STAR, NEW, 1918-1921 - SEE ARROW	SEC. 13, T.1N., R.69W.
STATE, 1913-1916 - SEE BOULDER VALLEY NO. 1	SEC. 20, T.1N., R.68W.
ST. VRAIN, 1890-1892 - SEE MCKISSIC	SEC. 19, T.2N., R.67W.
SUMMIT, 1909-1913 - SEE ELECTRIC	SEC. 4, T.1S., R.69W.
SUNLAND, 1922 - SEE MATCHLESS	SEC. 7, T.1S., R.69W.
WASHINGTON, OLD, 1903-1911 - SEE BASELINE	SEC. 32, T.1N., R.68W.
WASHINGTON, NEW, 1916-1918 - SEE BASELINE	SEC. 32, T.1N., R.68W.
WILLOUGHBY - SEE SENATOR	SEC. 2, T.1S., R.69W.
WOOLEY, 1897-1898 - SEE WHITE HOUSE NO. 1 AND NO. 2	SEC. 34, T.2N., R.68W.

NOTE

MINE OUTLINES SHOWN ON THIS MAP WERE COMPILED FROM COAL MINE MAPS ON OPEN FILE WITH THE COLORADO DIVISION OF MINES AND THE U.S. BUREAU OF MINES. FAULT INFORMATION WAS DERIVED FROM WORK BY COLTON AND LOWRIE (1973) AND FROM THE OPEN-FILE COAL MINE MAPS. THE QUALITY OF THE MINE MAP SOURCES IS VARIABLE AND THIS HAS AFFECTED THE ACCURACY OF MAP PORTRAYAL. THE MAP IS RELIABLE WITHIN THE LIMITS IMPOSED BY THE DATA SOURCES AND IS BASED ON INFORMATION AVAILABLE AS OF DECEMBER 1, 1974.



SUBSIDENCE AREAS

- AREAS OF COLLAPSE PITS AND TROUGHS
- AREAS OF LARGE CLOSED DEPRESSIONS
- AREAS OF POSSIBLE SUBSIDENCE
- AREAS OF SUBSIDENCE RESTORED BY LAND LEVELING

LEGEND

- AIRSHAFT
- MINE SHAFT (Hoisting Shaft)
- ROCK SLOPE
- FAULT (U / D)

FIELD OBSERVATIONS OF DEFINITE AND POSSIBLE SUBSIDENCE

1. Small, recent subsidence pit, 3' in diameter, 3' deep.
2. Roadcut shows small syncline, probably subsidence related.
3. Hole, approximately 3' X 2' X 1 1/2' deep appeared Spring, 1974; near possible shaft.
4. Many 10' X 12' rectangular depressions which probably represent mined-out rooms.
5. Airshaft.
6. Slope.
7. Numerous depressions and collapse features; rooms and pillars evident.
8. Slope entry creates depression, 25' across X 20' deep.
9. Pits, approximately 12' across, 10'-12' deep; ripple marked sandstone to northeast shows signs of collapse.
10. Depressions, 15'-30' across, up to 3' deep, probably subsidence features.
11. Numerous subsidence depressions, 5'-10' in diameter.
12. Large depressions, probably borrow pits rather than subsidence features.
13. Hummocky ground on both these slopes; probably related to slope instability rather than subsidence.
14. Little evidence for subsidence on Rocky Flats gravel surface above Crown Mine.
15. One-half inch separation between bricks between garage and house; cause indeterminate, may be subsidence or may be soil heave.
16. Subsidence over Black Diamond slope may be masked by reclamation.
17. Subsidence over Crackerjack Mine reported to have disrupted Goodhue Ditch, 1941. Subsidence of a few feet per year continued thereafter for a few years.
18. Strip mine pit.
19. Numerous pits, 10' across X 4' deep; also probable airshaft.
20. Some subsidence pits, approximately 5' across X 2' deep, above Old Black Diamond Mine.
21. Numerous subsidence depressions, approximately 8' deep, above Shanahan Mine.
22. Large clinker excavation; probably unrelated to mining or subsidence.
23. Some small, 5' in diameter, trash-filled depressions, probably related to subsidence.
24. Water-filled depression, road shows cracks and repair.
25. Wet, closed depression, may be 50' in diameter.
26. Subsidence is difficult to observe due to plowing and crop cover.
27. Subsidence pit, 20' X 10' X 8' deep, appeared in 1964; pit since filled in, no observable evidence today.
28. Some shallow swales, 20' X 40' X 2' deep.
29. Possible subsidence pit, 10' X 20' X 6' deep.
30. No evidence of mining (dumps, slopes, subsidence pits).
31. Shallow depressions up to 2'-3' deep, possible evidence of room and pillaring.
32. Some 3' deep pits near mine dump; origin uncertain, may be caused by subsidence, excavation, or consolidation of dump.
33. Canal has been rerouted, probably because of surface slump rather than subsidence of surface.
34. Little subsidence evidence atop Rocky Flats gravel; some large depressions, probably related to deflation rather than subsidence.
35. Little evidence for subsidence in fairly recent buildings in town of Superior.
36. Field southwest of turnpike shows low rolling depressions, thicker grass.
37. Turnpike shows depression of 1/2' at this point; possible causes are subsidence, swelling clay, consolidation of fill.
38. Numerous depressions, 3'-15' across X 2'-3' deep on top of mine dump; depressions may be due to subsidence or to consolidation of mine dump.
39. Numerous low depressions, 20' X 15' X 1 1/2' deep, possibly related to subsidence.
40. Little subsidence evident on ground though airphotos show mottled pattern.
41. Closed depression, approximately 25' in diameter; although fill dirt has been added on the eastern end, the depression appears closed.
42. No evidence of shafts or mining.
43. Possible subsidence evidence in Louisville at:
    VFW Bldg. along Main St. (shows 1/2" crack in brickwork)
    Lot on which old wooden building across from VFW Bldg. stands (many small, 3' across X 1' deep, depressions).
44. Residents feel that slow settling is still occurring here.
45. No observable subsidence evidence at Centaurus High School, which was rumored to be over a mined area.
46. Subsidence pit, 6' X 5' X 4.5' deep, appeared May 11, 1974, probably above Electric Mine airshaft.
47. Possible subsidence pits visible near road by Big Lake Mine.
48. New Centennial shaft, little observable subsidence evidence.
49. This area, listed as undermined on Colton-Lowrie map, has had problems with drainage. Pipeline has been installed in an attempt to alleviate problem. Owner feels problem is due to poor percolation in clayey soil.
50. Miners report that no subsidence occurred over Hiway Mine.
51. Fairly depressed, swampy, formerly irrigable field 10 years ago; cannot be irrigated today because of drainage disruptions possibly caused by subsidence.
52. Some subsidence is evident over slope of Paramount; probable airshaft here also.
53. Slight sag in this area is reported to be subsidence induced.
54. Depression, 10' X 8' X 4' deep, possible airshaft.
55. Back and front yards of these houses show subsidence depressions; house at 703 S. Longmont Ave. may be slightly off its foundation. (Subsidence here is documented by May 27, 1956 issue of The Denver Post).
    Possible subsidence in Lafayette at Geneseo and Michigan; sidewalks, houses appear to have settled relative to street. Subsidence also has been reported at W. Emma and S. Longmont Streets.
56. New swimming pool shows little subsidence evidence.
57. Subsidence pit, 24' X 18' X 16' deep, appeared August 28, 1974.
58. School shows some cracking in brickwork of garage and cracking across bricks in southwest corner of newer addition.
59. Low and swampy area, some caliche crust; drainage does not appear to be natural.
60. Area appears to have some closed depressions, approximately 15' in diameter.
61. Swampy area reported to be result of subsidence. Large pit is present here.
62. Deep pit, perhaps an old air shaft; shows recent subsidence.
63. Area of collapse with twelve large pits.
64. Subsidence has been reported in this area above Columbine Mine.
65. Reports indicate that during mining, large (1.5' wide) cracks appeared along road here due to subsidence in fields to north and south.
66. Area of collapse showing some pits and depressions.
67. Area of collapse with numerous pits and two deep, shaft openings.
68. Area of barely recognizable pits.
69. Subsidence depression in area of overlap of Morrison and Clayton Mines.
70. Subsidence reported in cornfield over Eagle Mine.
71. Reported subsidence over Washington Mine.
72. It has been reported that 23" of subsidence has occurred over the Eagle Mine in this area.
73. Reported subsidence over Imperial Mine.
74. Depression over Imperial Mine has alkali crust indicating poor drainage.
75. Depression occupied by lake; both depression and lake existed before mining.
76. This area above Lincoln Mine (?) has been reported to have subsided.
77. Small depressions over upper seam of Lincoln Mine in this area.
78. Large depression over Lincoln Mine; ditch to east of depression was damaged by mine subsidence in 1965.
79. Subsidence of 3' reported over Lincoln Mine.
80. Large depression over Graden Mine.
81. Swales evident in this area, possibly subsidence induced.
82. Depression, possibly caused by mining but more likely caused by deflation.
83. Sandy area with depression, may be caused by deflation or by subsidence.
84. Area contained subsidence pits before being reclaimed to present level configuration
85. Area of shallow swales.
86. Area of closed elongate depressions, some at right angles to each other.
87. Three large pits and some shallow depressions.
88. This area over Shamrock Mine exhibited numerous subsidence pits on 1949 aerial photographs. Land reclaimed to present-day level configuration in 1957.
89. Area of east-west rolling depressions over Baum Mine.
90. Subsidence depressions over Firestone Mine.
91. Swales over Warwick Mine.
92. Deflation or mine subsidence depression over Sterling Mine.
93. Two large depressions over worked-out areas of Grant Mine.
94. Probable deflation depressions, but may be subsidence over extension of Russell Mine.
95. Depression over Witherbee Mine.

AMUEDO AND IVEY

COLORADO GEOLOGICAL SURVEY

SUBSIDENCE INVENTORY MAP

BOULDER–WELD COAL FIELD

BOULDER AND WELD COUNTIES, COLORADO

SCALE: 1:24,000 | CONTOUR INTERVAL: 10'
GEOLOGY: J.B. IVEY, A.R. MYERS, J. HANSEN, R.A. LINDVALL | DRAFTING: H.A.H. SCHLENDER
DATE: DECEMBER 1, 1974 | MAP NO. 7361-5