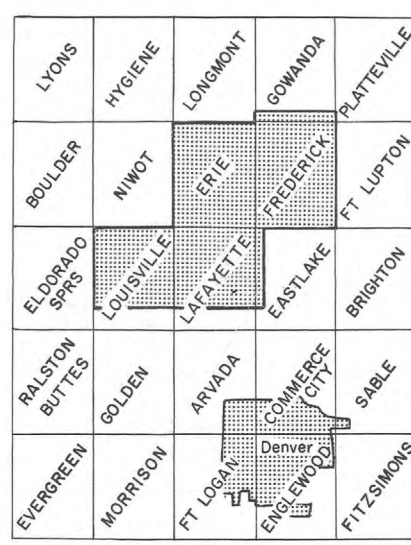


NAMES OF MINES AND APPROXIMATE DATES OF CLOSING

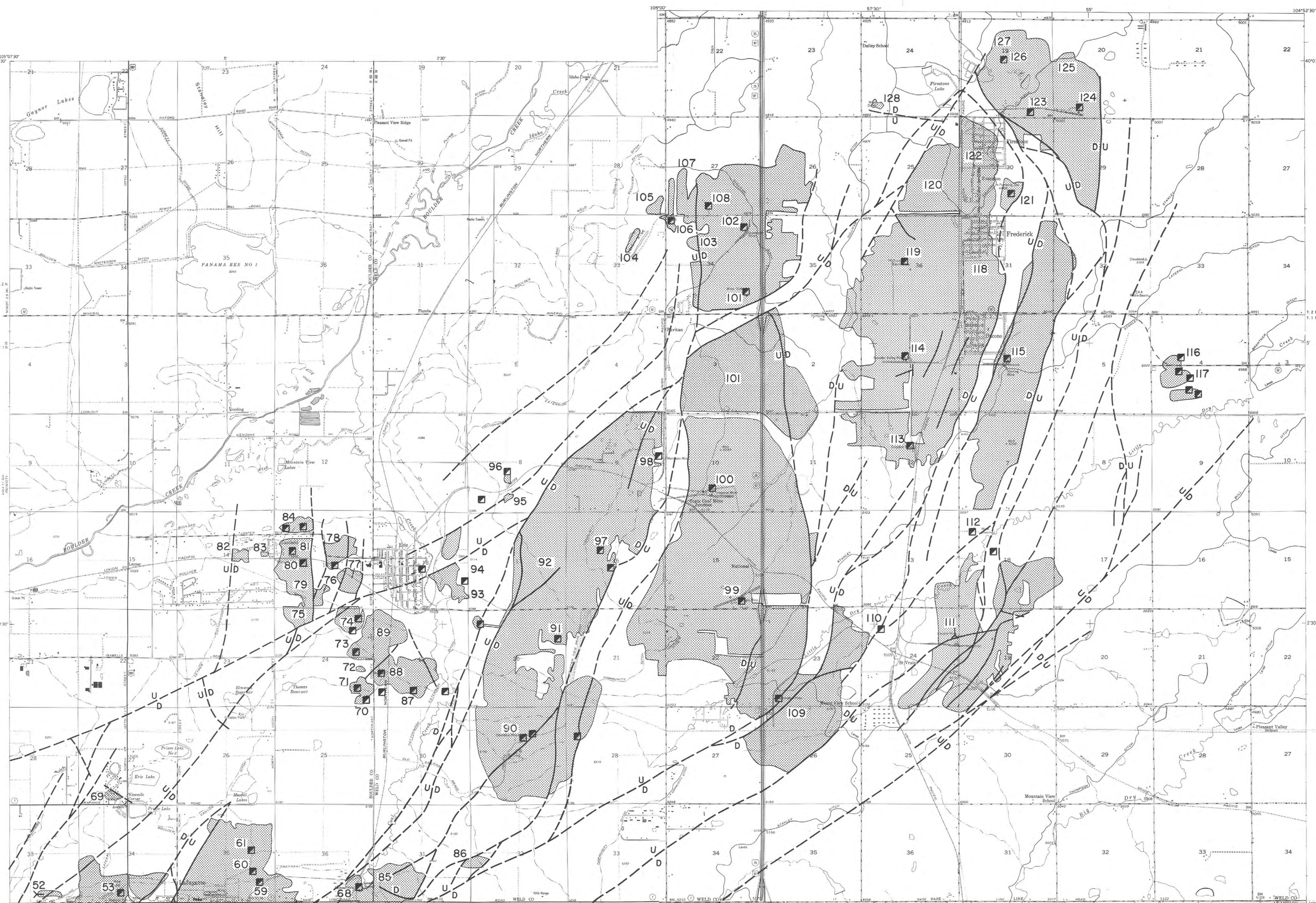
[Asterisk (*) denotes active mine]

- | | | |
|--|---|-----------------------------------|
| 1. Premier, 1944 | 51. Liley, 1948 | 107. Ideal, 1916 |
| 2. Highview, 1944; Rosser, 1929; New Ross, 1940 | 52. Paramount, 1939 | 108. Eureka, 1926 |
| 3. El Dorado, 1939 | 53. Black Diamond No. 2, 1956 | 109. Washington, 1967 |
| 4. Pine Cliff, 1942; Rosser, No. 7, 1907 | 54. Strathmore, 1919 | 110. Washington (old), 1911 |
| 5. Lewis, 1943; Lewis No. 2, 1947; Marshall, 1947 | 55. Cambro, 1928; Cancn, 1890 | 111. Lincoln* |
| 6. Eagle (old), 1936 | 56. Senator, 1913; Willoughby, 1908 | 112. Hingley-Morgan, (?) |
| 7. Sunrise, 1936 | 57. Otis, 1898 | 113. Graden, 1955 |
| 8. Red Ash, 1952; Red Ash No. 2, 1937 | 58. Simpson, Spencer, 1890 | 114. Boulder Valley No. 3, 1954 |
| 9. Fox, 1936; Fox No. 2, 1936 | 59. Excelsior, 1899 | 115. Sterling, 1965 |
| 10. Tropic, 1936 | 60. Gladstone, 1906 | 116. Witherbee, Silver State 1937 |
| 11. Crackerjack No. 2 (Cuba), 1958 | 61. Mitchell, 1918 | 117. Peerless, 1919 |
| 12. Pittsburgh, 1952; Ross, 1939 | 62. Capitol, 1926 | 118. Evans, 1942 |
| 13. Crackerjack (old), 1958 | 63. Standard, 1937 | 119. Baum, Golden Ash, 1914 |
| 14. Cook, 1928 | 64. Caryl, Pallot, 1900 | 120. Frederick, 1929 |
| 15. Gorham, 1930; Gorham No. 2, 1935 | 65. Vaughn, 1906 | 121. Warwick, 1912 |
| 16. Monarch No. 1, 1918; Mitchell, 1920 | 66. Baker, 1896 | 122. Firestone, 1920 |
| 17. Crown (old), 1937 | 67. Blue Ribbon (Blue Goose), 1906 | 123. Grant, 1939 |
| 18. Black Diamond, 1931 | 68. Haywood, 1906; Irvington, 1908 | 124. Russell, 1947 |
| 19. Big Five, 1942; Crackerjack, 1958 | 69. Mile High, 1918 | 125. Emerson, 1904 |
| 20. Fox (old), 1923 | 70. Cleveland, 1895 | 126. St. Vrain, 1892 |
| 21. Blue Goose, 1924 | 71. McGregor, 1894 | 127. McKissic, 1907 |
| 22. Alien Bond, 1895 | 72. Marfel, 1904 | 128. Davies, 1906 |
| 23. Cactus, 1936; Glo-Coal (?); York, 1947 | 73. Garfield No. 1, 1897 | 129. Welch, 1896(?) |
| 24. South Gorham, 1949 | 74. Stewart, Lister, 1890 | 130. Shannahan, 1900 |
| 25. New Gorham, 1955 | 75. Tynon, 1904 | |
| 26. Pluto, 1951; Pluto No. 2, 1951 | 76. Chase, 1895 | |
| 27. New Crown, 1955 | 77. Northrup, 1884 | |
| 28. Champion, 1927; Sunland, 1922; Matchless, 1927 | 78. Jackson, 1890 | |
| 29. Fireside, 1944 | 79. Canfield, 1927(?) | |
| 30. Industrial, 1945 | 80. Star (old), 1920 | |
| 31. Enterprise, 1898 | 81. Unknown | |
| 32. Acme, 1928 | 82. Unknown | |
| 33. Leader, 1899 | 83. Unknown | |
| 34. Ajax, 1892 | 84. Arrow, 1935; Crescent, 1935; Star (new), 1935 | |
| 35. Centennial (old), 1952 | 85. Parkdale, 1916 | |
| 36. Brooks (Nonpareil), 1925 | 86. Baseline, 1942; Lincoln (old), 1896, 1942; Park, Monroe, 1932; Washington, 1915 | |
| 37. Nonpareil, 1924 | 87. Lehigh, 1910 | |
| 38. Monarch No. 2, 1947 | 88. Mitchell, 1891 | |
| 39. Sunnyside, 1921 | 89. Garfield No. 2, 1905 | |
| 40. Imperial, 1898; Northern, 1938; Louisville, 1888 | 90. Columbine, 1946 | |
| 41. Rex No. 2, 1915 | 91. State, Andrew, 1917 | |
| 42. Caledonia, 1899 | 92. Boulder Valley, 1969 | |
| 43. Rex, 1897 | 93. Northwestern (Boulder Valley), 1907 | |
| 44. Hecla No. 1, 1920; Hecla No. 2, 1897 | 94. Boulder Valley (old), 1893 | |
| 45. Electric, 1918 | 95. Unknown | |
| 46. Big Lake, 1916; Garibaldi, 1916 | 96. Reliance, 1907 | |
| 47. Regal, 1947 | 97. Clayton, 1942 | |
| 48. Centennial (new), 1952 | 98. Morrison, 1953 | |
| 49. Vulcan, 1937 | 99. Eagle* | |
| 50. Hiway, 1954; Eversman, 1930 | 100. Imperial, 1972 | |
| | 101. Puritan, 1939 | |
| | 102. Shamrock, 1956 | |
| | 103. Munroe (Baseline), 1942 | |
| | 104. Erie Strip, 1953 | |
| | 105. Unknown | |
| | 106. Whitehouse, 1907 | |

Base from U.S. Geological Survey, 1:24,000: Eastlake, 1965, Erie, 1950-67, Frederick, 1950 (69PR), Gowanda, 1949 (69PR), Lafayette, 1965, and Louisville, 1965



INDEX SHOWING LOCATION OF AREA IN RELATION TO DENVER AND ADJOINING QUADRANGLES



NOTE

Compiled by Raymond E. Lowrie, U.S. Bureau of Mines (1966), and revised by Roger B. Colton, U.S. Geological Survey, assisted by Harold R. Fitch, 1972.

In the revision of this map, many mine maps and two unpublished general small-scale maps of the area by F. H. Canis (deceased) and Samuel Tescher (deceased) were used. Much information was obtained orally from Louis A. Gaz, Consulting Engineer, Lafayette, Colorado. Faults shown are from published and unpublished geologic maps of the Erie, Frederick, Lafayette, and Louisville quadrangles by Frank D. Spencer (1961), U.S. Geological Survey; from field work by Colton, and from many large-scale unpublished mine maps loaned by Louis Gaz.

Users of this map should consult copies of the large-scale mine maps in the Office of the Colorado State Coal Mine Inspection Group for exact outlines of mined-out areas. Areas affected by collapse over mined-out areas may be larger than limits of mine workings. Depth to mined coal increases generally from west to east and ranges from zero at the outcrop to as much as 500 feet. Boundaries of workings should be verified by drilling. Shafts and drifts are only approximately located, and some may not be shown.

REFERENCES

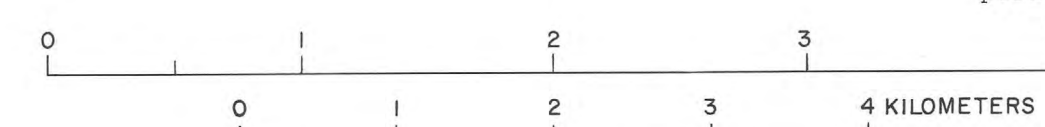
Lowrie, R. E., 1966, Analysis of the coal industry in Boulder-Weld Coalfield, Colorado: U.S. Bureau of Mines Report of Investigations No. 6726.

Spencer, F. D., 1961, Bedrock geology of the Louisville quadrangle, Colorado: U.S. Geological Survey Geol. Quad Map GQ-151.

NAME	MAP NUMBER	NAME	MAP NUMBER
Acme	32	Leader	33
Ajax	34	Lehigh	87
Allen Bond	22	Lewis	5
Arrow	91	Lewis No. 2	5
Baseline	86, 103	Liley	51
Baum	119	Lincoln (old)	86
Big Five	19	Lincoln	111
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		Longs Peak	78
		Louisville	40
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Blue Goose	21, 67	Matchless	28
Blue Ribbon	67	McGregor	71
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Boulder Valley (old)	94	Mile High	69
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Brooks	36	Monarch No. 1	16
Cactus	23	Monarch No. 2	38
Caledonia	42	Morrison	98
Cambro	55	Monroe	86
Canfield	80	Munroe	103
Canon	55	New Crown	27
Capitol	62	New Gorham	25
Caryl	35	New Ross	2
Centennial (old)	35	Nonpareil	36, 37
Centennial (new)	48	Northern	40
Champion	28	Northrup	77
Chase	76	Northwestern	93
Clayton	97	Otis	57
Cleveland	70	Pallot	64
Cook	14	Paramount	52
Columbine	90	Park	86
Crackerjack	19	Parkdale	85
Crackerjack (old)	13	Peerless	117
Crackerjack No. 2	11	Pine Cliff	4
Crescent	87	Pittsburg	12
Crown (old)	17	Pluto	26
Crown, New	27	Pluto No. 2	26
Cuba	11	Premier	1
Davies	128	Puritan	101
Eagle	99	Red Ash	8
Eagle (old)	6	Red Ash No. 2	8
Electric	45	Regal	47
El Dorado	3	Reliance	96
Emerson	125	Rex	43
Enterprise	31	Rex No. 2	41
Erie Strip	104	Ross	12
Eureka	108	Rosser No. 1-7	2, 4
Evans	118	Russell	124
Everman	50	Senator	56
Excelsior	59	Shamrock	102
Fireside	29	Shannahan	130
Firestone	122	Silver State	116
Fox	9	Simpson	58
Fox (old)	20	South Gorham	24
Fox No. 2	9	Spencer	58
Frederick	120	St. Vrain	126
Garfield No. 1	73	Standard	63
Garfield No. 2	89	Star (old)	81
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Haywood	68	Tynon	75
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Hiway	50	Washington (old)	110
Ideal	107	Welch	129
Imperial	40, 100	Whitehouse	106
Industrial	30	Willoughby	56
Irvington	68	Witherbee	116
Jackson	79	York	23

EXPLANATION

- MINED AREA
- SHAFT (location approximate)
- SLOPE OR DRIFT ENTRY
- FAULT--Dashed where approximately located. U, upthrown side; D, downthrown side. Shown at levels of coal beds; most fault planes dip 70°-80° NW and therefore may intersect the surface east of position shown on map



MAP SHOWING MINED AREAS OF THE BOULDER-WELD COAL FIELD, COLORADO

By Roger B. Colton and Raymond L. Lowrie

Colorado (Boulder - Weld coal field).

1973

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