INDEX TO SHAFTS AND TUNNELS
ALPHABETICALLY ARRANGED

Reference letters are large black skeleton letters near center of 1-minute squares
Asterisk (*) signifies that name is printed on map

G	38	A. B.
C	5	Abe Lincoln
N	29	Abe Lincoln Tunnel
H	99	Accident (Sellers No. 3)
D	20	Across the Ocean
I	111	Ad (Excelsior)
I	33	Adams
I	111	
B	180	Adams
H	24	Adelaide No. 1
H	20	*Adelaide (Ward)
I	102	Aetna No. 1
I	45	Agassiz
I	47	Agassiz
G	55	*Agwalt Tunnel
J	7	Alice
C	38	Allegheny Discovery
M	25	Alma
B	19	All Right No. 1
B	15	All Right No. 2
O	6	Alta
B	62	American
B	131	A. M. (Estey)
B	44	Amie
B	82	Amie No. 2
B	89	Amie No. 4
B	38	Amie No. 5
C	20	Andy Johnson
F	35	Antelope
G	48	*Antioch Quarry
G	54	Antioch Tunnel, Lower
G	47	Antioch Tunnel, Upper
F	5	Archer Tunnel
H	5	Argentine Tunnel
D	25	Argo Workings
E	21	Australian
J	13	A. V.
H	107	A. Y. No. 1
H	108	A. Y. No. 2
H	109	A. Y. No. 3
H	50	*Badger State
D	33	*Ballard
B	53	*Bangkok
G	45	*Banker
H	38	*Belgian
H	35	Belle of Colorado
N	14	Belle Vernon
M	1	Ben Burb
N	25	Ben Franklin
N	26	Ben Franklin Tunnel
H	14	Benton
L	19	Bessie Wilgus
C	21	Bevis
C	22	Bevis, Main
I	71	Big Chief
F	1	*Big Four
D	30	*Big Six
C	32	Birdie Tribble
C	15	Bismark
I	3	Bison
D	42	Black Prince No. 2
D	43	Black Prince No. 3
G	14	*Black Prince
B	168	Blaine
F	11	Blanche
F	11a	Blanche
I	148	*Blind Tom
I	146	Blind Tom, Old
B	147	Blonger
B	188	Blonger (Bullion)
E	5	Blue Ribbon
C	56	Bobby Mallon
A	13	Bob Ingersol Drill Hole
C	14	Bobtail
B	130	Bohn
J	9	*Bohn
J	10	*Bon Air
D	19	Bosco
D	10	Boulder
C	23	Boulder Nest
F	46	Bowen
G	3	Breece Iron, Old
I	68	Brookland
B	28	Buckeye
I	9	Buckeye Belle
M	15	Bucket (Crown Point No. 3)
B	4	Buffalo
H	78	Bullseye
F	3	Burlington
N	20	Burt
B	10	*Cady
C	52	Caledonia
D	11	Caledonia
J	12	California Tunnel
J	14	California Gulch
H	29	Camp Bird Tunnel
I	140	Can
B	126	Capitol (Northern)
B	26	Carboniferous No. 4
I	131	Carbonate
I	109	Carbonate Incline
A	8	Carlton
B	165	Cary
I	70	Castle View
I	75	*Catalpa, New
I	78	Catalpa, Main
H	27	*Charlestown
N	5	Charlie
D	40	Chemung
D	38	Chemung
D	39	Chemung Tunnel
B	1	Chicago Boy
D	8	Chicora
C	33	Chieftain
E	34	Chief Warrior
G	22	Chippewa No. 6
G	23	Chippewa No. 3
H	36	Christmas Gift
B	101	*Chrysolite No. 1
B	23	Chrysolite No. 6
B	20	Chrysolite No. 7
C	50	Clara Dell
H	75	Cleora
E	28	Cleveland
B	40	Climax No. 1
B	76	Climax No. 5
I	69	Clontarf
J	6	Cloud City
E	33	Clover
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I	119	Codfish Balls
I	120	Codfish Balls
H	61	Codfish Balls
H	33	*Codfish Balls
H	112	Collateral
H	71	*Colorado No. 2
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O	2	Colorado Princess
L	7	Columbia No. 1
L	4	*Columbia No. 2
L	8	Columbia Tunnel
I	129	Combination Incline
B	30	Comique
L	2	Commercial Drummer
G	57	Comstock
N	3	Comstock
N	16	Concord
B	85	Contract
L	18	*Coon Valley
B	54	Cora Belle
H	81	*Cord Incline
C	12	Cordelia Edmonson
A	14	Coronado
I	84	Crescent Incline
I	86	Crescent, Lower
I	91	Crescent No. 2
I	92	Crescent No. 3
I	179	Crescentia
M	33	Crown Point No. 1
M	34	Crown Point No. 2
I	58	Cumberland
D	16	Cumberland
C	10	Cullen
D	37	Curran
G	9	Curran
N	10	Czar
B	32	*Daly
C	29	Dania
H	15	Day Bore Hole
A	9	Delante No. 1
A	7	*Delante No. 2
C	40	Del Monte
B	177	Denman
B	171	*Denver City
H	30	Devlin
E	2	*Diamond
I	4	Dillon
C	62	Dimmick
E	11	*Dolly B
H	18	*Dolomite
F	34	*Donovan
H	6	Double Decker No. 2
H	90	Doyle Workings
B	48	Dunkin No. 3
B	46	*Dunkin No. 4
D	3	Durham (Monday)
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N	7	Eclipse
N	17	Eclipse Tunnel
N	18	Eclipse Tunnel
G	26	Edith Drill Hole
F	33	*Elk
B	197	Elk
C	7	*Elkhorn
O	1	Ella
C	34	*El Paso
F	18	Ellesmere
F	50	Emma
G	42	Emma
I	175	Emmet Tunnel
F	41	End Squeeze
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B	150	Eudora
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I	20	Evening Star No. 5
I	74	Evening Star, Main
I	76	Evening Star, Upper
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H	7	Fairview
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B	14	Fairview No. 4
B	123	Fairview No. 5
E	10	*Famous
G	16	*Fanny Rawlings
F	42	Fat Purse
E	44	*Favorite
D	17	Fenian Queen
C	13	First Chance
C	9	*Fitzhugh
M	42	Fitzjames
M	13	Five Twenty
H	16	Flagstaff, East
H	17	Flagstaff, West
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B	166	Forest City
G	27	Forest Queen, Main
G	28	Forest Queen
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I	16	Forsaken
E	14	*Fortune
B	33	Four per cent
H	21	Frenchman
B	153	Gambetta
G	34	*Garbutt
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I	173	Garden City, Upper
N	12	*Garibaldi Tunnel
E	24	George Washington
I	108	Giant
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H	74	Glass
I	100	Glass-Pendery
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I	184	Globe
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E	46	*Gold Basin
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I	48	Gonebrod
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M	14	Gray Eagle
I	2	Gray Eagle
D	7	Great Hope
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C	49	Greenwood
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M	35	Hall
G	13	Hamburgh
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C	42	Hard Cash No. 2
C	44	Hard Cash No. 3
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I	26	Harker No. 2
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B	7	Harvard No. 2
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C	31	Hawkeye No. 2
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B	29	Hazzard
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H	104	Helen
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F	6	Herman, Upper
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B	129	*Hibschle
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G	51	Highland Chief
G	52	Highland Chief
H	1	Highland Mary No. 1
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H	19	*Humboldt, South
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B	196	Hussey No. 2
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F	29	*Ibex No. 1
F	30	*Ibex No. 2
G	33	*Ibex No. 3
G	30	*Ibex No. 4
G	37	*Ibex No. 5
B	142	Ida Nyce
H	55	Idaho
H	56	Idaho
H	93	*Imes
G	24	Immo
D	24	Independent
C	64	Indiana
C	37	Indiana
F	32	Irene (Hawkeye)
H	34	Iron Hat
H	60	Iron Hat
H	62	Iron Hat
H	63	Iron Hat
H	64	Iron Hat
H	66	Iron Hat No. 1
H	13	Ishpeming
F	14	*Izzard
B	56	*Jamie Lee
B	13	Jason
N	9	Jaybird, North
N	8	Jaybird Tunnel
C	28	J. B. Grant
N	35	J. D Ward
B	64	Joe Davies
F	40	John Mitchell
B	192	Jolly
E	9	*Josie
I	53	Jumpers
E	18	Katy
B	183	Keene
C	11	Kennebec
H	51	Keno
H	52	Keno
L	5	Keno
I	97	Kent
H	12	Kent
B	175	Kerens
H	9	Keystone
N	24	Kid
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G	58	Lady Adele
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E	4	Leadville
C	57	Leavenworth
O	3	Leavenworth
I	29	Lent
H	102	*Leo
B	58	Lickscumdidricks
E	15	*Lida
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H	92	Lime No. 10
H	40	Lily
B	35	Little Amie
B	36	Little Amie
D	41	Little Alice
G	7	Little Bertha
D	36	Little Beschert
E	26	Little Bob
C	48	Little Champion
B	99	Little Chief No. 1
B	93	Little Chief No. 2
B	100	Little Chief No. 3
B	92	Little Chief No. 7
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I	180	Little Delaware
B	74	Little Diamond
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F	9	*Little Ellen Incline
B	17	Little Eva
B	103	Little Eva No. 2
M	39	Little Floy
D	21	Little Galesburg
D	46	Little Hattie
C	1	Little Hoosier
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G	40	Little Mac
G	6	Little May
C	35	Little Miami
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B	121	Little Nellie No. 2
D	32	*Little Prince
E	38	Little Rische
N	13	Little Schuylkill
B	66	Little Sliver
B	69	Little Sliver
C	26	Little Stella
G	18	Little Vinnie
I	150	L. M. (Estey)
I	151	L. M., Main
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H	72	*Louisville
N	22	Lovejoy
N	33	Lovejoy
N	4	Luella
E	7	*Luema
F	13	Lulu
B	140	Luzerne
I	114	*Mab
F	47	Mabel
G	10	McAllister
B	173	*McCormick
B	34	McRae
I	24	*McHarg
H	77	*McKeon
I	183	McKeon
G	43	Magic
I	64	Mahala
I	65	Mahala No. 1
I	34	Maid of Erin
I	35	Maid of Erin (Combination Shaft)
C	18	*Mammoth
F	45	*Mammoth
J	16	*Maple Street
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F	23	Marian Virginius
F	12	*Martha
I	178	Mary Murphy
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B	49	Matchless No. 6
B	72	Matchless Discovery
G	35	Maud Hicks
B	160	May Queen
I	105	Meyer
I	1	Midas
I	99	Midland
E	16	*Midnight
I	57	*Mikado, New
H	3	*Mikado, Old
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D	45	Miner Boy No. 2
G	15	Miner Boy No. 2
H	96	*Minnie
H	106	Minnie Pump Shaft
G	32	M. N.
I	161	*Modest Girl
I	123	Modoc
F	26	*Modoc
L	17	*Moffat
F	22	Monte Cristo
D	1	Moose
C	46	Moonstone
H	49	Morning Glory
H	42	Morning Glory, Old
I	15	Morning Star
I	22	Morning Star, Lower
I	73	Morning Star, Lower
I	72	Morning Star, Upper
B	6	Morris
C	54	Mountain Boy
H	101	*Moyer
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M	43	Murphy
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G	41	Nailrod
B	12	Neptune
N	34	Nestor
D	31	Nettie Morgan
F	24	Nevada Tunnel
B	97	New Discovery No. 1
B	95	New Discovery No. 2
B	118	New Discovery No. 4
B	155	New Discovery No. 5
B	143	*New Discovery No. 6
M	23	*New Dome
A	12	Newell
N	11	New England
B	148	*New Gambetta
E	35	*New Monarch
E	43	New Year's Incline
N	1	Nightingale Tunnel
I	8	*Niles
M	36	Nisi Prius
G	50	Nonie
D	18	Nora
H	110	Norman Boardman
C	36	North Allegheny
H	59	North Incline
H	68	*North Mike
H	69	*North Moyer
O	7	North Star
H	23	No. 1
B	102	No. 1
B	96	No. 2
B	86	No. 2
B	122	No. 3
B	116	No. 3
B	98	No. 3
B	73	No. 3
I	152	
B	78	No. 4
B	83	No. 4
B	88	No. 4
B	117	No. 4
H	87	No. 4 Incline
H	88	
B	77	No. 6
B	139	No. 8
B	115	No. 9
H	46	O'Brien
H	95	Ocean Wave
I	143	O'Donovan Rossa
M	45	Officer
B	31	O. K.
B	151	Olga
B	57	Olive Branch
E	29	*Ollie Reed
F	7	Ollie Reed No. 2
M	29	*Only Chance
C	19	Onota
L	1	Ontario
G	36	Ontario
B	2	Oolite
E	36	Oriental
I	98	*Orion
M	3	Oro City
L	11	O'Sullivan
B	8	Otis
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B	120	Pandora No. 3
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H	43	Park No. 3
H	47	*Park Benton (Park No. 4)
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C	6	*Pawnolos
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E	39	Penfield
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G	5	*Penn No. 2
G	4	*Penn No. 3
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N	27	Pilot Tunnel
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M	37	Pinnacle
B	152	Pittsburgh
I	96	Pocahontas
B	144	Ponsardine
H	58	Porphyry
I	25	Porter
I	10	Portland
J	11	*P. O. S.
D	34	*President
C	8	Price
B	5	*Price
B	9	Pride
N	32	*Printer Boy, Lower
N	30	*Printer Boy, Upper
N	31	Printer Boy, Upper No. 1
G	56	Printer Girl
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I	59	*Pyrenees (Rialto)
B	172	Quadrilateral
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I	56	*R. A. M.
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C	66	Raven
M	18	Red Head
C	60	Red Headed Mary
F	38	Reed
M	30	*Reindeer
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E	12	*Resurrection No. 2
B	174	*Result
L	16	*Revenue No. 1
D	20a	Rexall
M	16	Rickard
C	67	Right Angle
G	21	Robert Burns (Hunter)
I	52	*Robert Emmet
L	6	Robert Emmet
B	68	*Robert E. Lee
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M	17	Rock No. 1
M	21	Rock Tunnel
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M	19	Rustin
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H	41	St. Julian
D	14	*St. Louis Tunnel
I	93	St. Mary's
G	17	San Jose
C	25	Sappho
I	155	*Satellite No. 1 (Robinson)
I	156	Satellite No. 2
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C	43	Scooper No. 2
E	13	*Sedalia
A	5	Seeley
H	97	Sellers No. 1
H	98	Sellers No. 2
H	105	Sellers No. 4
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F	25	Seneca
A	2	Sequa
M	31	*Sequin
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C	65	Shenango?
E	37	*Silent Friend
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G	20	Silver King
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E	3	Silver Spoon
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B	108	Sliver No. 2
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H	4	Snowstorm
N	6	Soda Card
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H	85	South Mike
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M	11	*Stevens
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A	4	Stumpf
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F	48	*Sunday No. 2
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C	55	Superior
I	32	Surprise
L	12	Switzerland
B	182	Tarshish
E	45	Tenderfoot, New
E	30	Tenderfoot, Old
H	26	Terrible No. 1
H	25	Terrible No. 2
C	51	Theresa
I	145	*Thespian
I	104	Thompson
O	5	Tiger
D	28	Tiger
N	15	Tinker
B	63	Tip Top
I	162	Toledo Avenue
D	29	Tootie Gaylord
E	42	Trade Dollar
H	89	Triangle
G	39	Tribune
F	31	Triumph
H	57	*Tucson
B	135	Turbot
H	54	*Ulster-Newton
B	52	Union Emma
C	53	Uranus
D	6	U. S. Mint
J	15	*Valentine
E	17	*Valley No. 1
E	19	Valley No. 2
E	8	Valley No. 3
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D	5	Valunder
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E	1	Vega
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M	26	Vining
M	28	*Vining
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B	42	Virginius No. 2
B	41	Virginius No. 3
E	20	Virginius Tunnel
M	44	Vivian
B	109	Vulture
B	105	Vulture No. 4
F	16	Wall Street
G	44	War Eagle
I	83	Washburne
I	14	Waterloo
M	38	Weir
I	95	Weldon No. 1
J	3	*Weldon No. 2
E	6	White
H	94	*Whitecap
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D	9	*White Cloud
D	23	White Prince
C	16	White Rabbit
I	6	Wildcat
C	17	William and Mary
G	25	Williamsburg
I	113	*William Wallace
E	27	*Winnie
B	37	Winnemuck
B	132	Wolcott No. 1
B	128	*Wolcott No. 2
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B	169	*Wright (Denver City)
N	19	Wynan
I	171	*Yak Tunnel
I	81	Yankee Doodle Incline
I	80	Yankee Doodle, Middle
I	110	Yankee Doodle, Upper
G	29	Yates
B	141	Ypsilanti
B	138	Ypsilanti No. 2
L	3	Zulu King

106°19'
39°16'

INDEX TO SHAFTS AND TUNNELS
ARRANGED BY NUMBERS

Reference letters are large black skeleton letters near center of 1-minute squares
Asterisk (*) signifies that name is printed on map

A

1	Hofer No. 2
2	Sequa
3	*Hofer No. 1
4	Stumpf
5	Seeley
6	
7	*Delante No. 2
8	Carlton
9	Delante No. 1
10	Villa
11	Spurr Drill Hole
12	Newell
13	Bob Ingersol Drill Hole
14	*Coronado

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1	Chicago Boy
2	Oölite
3	
4	Buffalo
5	*Price
6	Morris
7	Harvard No. 2
8	Otis
9	Pride
10	*Cady
11	
12	Neptune
13	Jason
14	Fairview No. 4
15	All Right No. 2
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17	Little Eva
18	Kit Carson No. 2
19	All Right No. 1
20	Chrysolite No. 7
21	
22	
23	Chrysolite No. 6
24	Silver Wing
25	Hazzard
26	Carboniferous No. 4
27	*Roberts
28	Buckeye
29	Hazzard
30	Comique
31	O. K.
32	*Daly
33	Four per cent
34	McRae
35	Little Amie
36	Little Amie
37	Winnemuck
38	Amie No. 5
39	
40	Climax No. 1
41	Virginius No. 3
42	Virginius No. 2
43	Virginius No. 1
44	Amie
45	Harvard No. 1
46	*Dunkin No. 4
47	Matchless No. 5
48	Dunkin No. 3
49	Matchless No. 6
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52	Union Emma
53	*Bangkok
54	Cora Belle
55	
56	*Jamie Lee
57	Olive Branch
58	Lickscumdidricks
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62	American
63	Tip Top
64	Joe Davies
65	Forepaugh
66	Little Silver
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68	*Robert E. Lee
69	Little Silver
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72	Matchless Discovery
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73	No. 3
74	Little Diamond
75	
76	Climax No. 5
77	No. 6
78	No. 4
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80	
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82	Amie No. 2
83	No. 4
84	
85	Contract
86	No. 2
87	
88	No. 4
89	Amie No. 4
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91	
92	Little Chief No. 7
93	Little Chief No. 2
94	
95	New Discovery No. 2
96	No. 2
97	New Discovery No. 1
98	No. 3
99	Little Chief No. 1
100	Little Chief No. 3
101	*Chrysolite No. 1
102	No. 1
103	Little Eva No. 2
104	
105	Vulture No. 4
106	
107	Sliver No. 1
108	Sliver No. 2
109	Vulture
110	
111	Fairview No. 2
112	Pandora No. 2
113	Colorado Chief No. 2
114	
115	No. 9
116	No. 3
117	No. 4
118	New Discovery No. 4
119	
120	Pandora No. 3
121	Little Nellie No. 2
122	No. 3
123	Fairview No. 5
124	Grafton
125	Pilot
126	Capitol (Northern)
128	*Wolcott No. 2
129	*Hibschle
130	Bohn
131	A. M. (Estey)
132	Wolcott No. 1
133	Hope
134	Last Chip No. 3
135	Turbot
136	Last Chip Discovery
137	Solid Muldoon
138	Ypsilanti No. 2
139	No. 8
140	Luzerne
141	Ypsilanti
142	Ida Nyce
143	*New Discovery No. 6
144	Ponsardine
145	
146	Stonewall Jackson
147	Blonger
148	*New Gambetta
149	Little Dairy
150	Eudora
152	Pittsburgh
153	Gambetta
154	Last Chip No. 2
155	New Discovery No. 5
156	
158	
159	
160	May Queen
161	*Hayden
162	
163	
165	Cary
166	Forest City
167	Hayden No. 4
168	Blaine
169	*Wright (Denver City)
170	Shamus O'Brien
171	*Denver City
172	Quadrilateral
173	*McCormick
174	*Result
175	Kerens
176	
177	Denman
178	
179	
180	Adams
182	Tarshish
183	Keene
184	Pearson
185	Stray Horse
186	Vanderbilt
188	Blonger (Bullion)
190	Haytrosser
192	Jolly
195	Hussey No. 1
196	Hussey No. 2
197	Elk

C

1	Little Hoosier
2	
3	
4	
5	*Abe Lincoln
6	*Pawnolos
7	*Elkhorn
8	Price
9	*Fitzhugh
10	Cullen
11	Kennebec
12	Cordelia Edmonson
13	First Chance
14	Bobtail
15	Bismark
16	White Rabbit
17	William and Mary
18	*Mammoth
19	Onota
20	Andy Jackson
21	Bevis
22	Bevis, Main
23	Boulder Nest
24	Hidden Treasure Tunnel
25	Sappho
26	Little Stella
27	Holden
28	J. B. Grant
29	Dania
30	Hawkeye No. 1
31	Hawkeye No. 2
32	Birdie Tribble
33	Chieftain
34	*El Paso
35	Little Miami
36	North Allegheny
37	Indiana
38	Allegheny Discovery
39	Scooper
40	Del Monte
41	Hard Cash No. 1
42	Hard Cash No. 2
43	Scooper No. 2
44	Hard Cash No. 3
45	Fairplay
46	Moonstone
47	Shenango
48	Little Champion
49	Greenwood
50	Clara Dell
51	Theresa
52	Caledonia
53	Uranus
54	Mountain Boy
55	Superior
56	Bobby Mallon
57	Leavenworth
58	Rothschild
59	Woodruff
60	Red Headed Mary
61	Logan No. 2
62	Dimmick
63	Logan No. 1
64	Indiana
65	Shenango?
66	Raven
67	Right Angle
68	
69	
70	
71	
72	

D

1	Moose
2	Stillwell
3	Durham (Monday)
4	Valunder
5	Valunder
6	U. S. Mint
7	Great Hope
8	Chicora
9	*White Cloud
10	Boulder
11	Caledonia
12	Silver Tooth
13	South Winnie
14	*St. Louis Tunnel
15	Slim Jim
16	Cumberland
17	Fenian Queen
18	Nora
19	Bosco
20	Across the Ocean
20a	Rexall
21	Little Galesburg
22	
23	White Princ
24	Independent
25	Argo Workings
26	H. M. L.
27	White Check
28	Tiger
29	Tootie Gaylord
30	*Big Six
31	Nettie Morgan
32	*Little Prince
33	*Ballard
34	*President
35	Grand Prize
36	Little Beschert
37	Curran
38	Chemung
39	Chemung Tunnel
40	Chemung
41	Little Alice
42	Black Prince No. 2
43	Black Prince No. 3
44	Miner Boy No. 1
45	Miner Boy No. 2
46	Little Hattie

E

1	Vega
2	*Diamond
3	*Silver Spoon
4	Leadville
5	Blue Ribbon
6	White
7	*Luema
8	Valley No. 3
9	*Josie
10	*Famous
11	*Dolly B.
12	*Resurrection No. 2
13	*Sedalia
14	*Fortune
15	*Lida
16	*Midnight
17	*Valley No. 1
18	Katy
19	Valley No. 2
20	Virginius Tunnel
21	Australian
22	Forest Rose
23	*Erie (Chautauqua)
24	George Washington
25	Hickory Jackson
26	Little Bob
27	*Winnie
28	Cleveland
29	*Ollie Reed
30	Tenderfoot, Old
32	
33	Clover
34	Chief Warrior
35	*New Monarch
36	Oriental
37	*Silent Friend
38	Little Rische
39	Penfield
40	*Resurrection No. 1
41	
42	Trade Dollar
43	New Year's Incline
44	*Favorite
45	Tenderfoot, New
46	*Gold Basin
47	*Louise

F

1	*Big Four
2	
3	Burlington
4	Herman, Lower
5	Archer Tunnel
6	Herman, Upper
7	Ollie Reed No. 2
8	Howard
9	*Little Ellen Incline
10	Little Ellen
11	Blanche
11a	Blanche
12	*Martha
13	Lulu
14	*Izzard
15	*Gnome
16	Wall Street
17	Kittanning
18	Ellesmere
19	
20	South Fork
21	
22	Monte Cristo
23	Marian Virginius
24	Nevada Tunnel
25	Seneca
26	*Modoc
27	Rattling Jack
28	Little Jonny
29	*Ibex No. 1
30	*Ibex No. 2
31	Triumph
32	Irene (Hawkeye)
33	*Elk
34	*Donovan
35	Antelope
36	*Eclipse
37	St. Jo
38	Reed
39	
40	John Mitchell
41	End Squeeze
42	Fat Purse
43	Garbutt, Old
44	Rough and Ready
45	*Mammoth
46	Bowen
47	Mabel
48	*Sunday No. 2
49	Silver Nugget
50	Emma
51	*Sunday No. 1

G

1	Park Street
2	*Penn No. 1
3	Breece Iron, Old
4	*Penn No. 3
5	*Penn No. 2
6	Little May
7	Little Bertha
8	Pennsylvania
9	Curran
10	McAllister
11	
13	Hamburgh
14	*Black Prince
15	Miner Boy No. 2
16	*Fanny Rawlings
17	San Jose
18	Little Vinnie
19	Golden Eagle
20	Silver King
21	Robert Burns (Hunter)
21a	
22	Chippewa No. 6
23	Chippewa No. 3
24	Immo
25	Williamsburg
26	Edith Drill Hole
27	Forest Queen, Main
28	Forest Queen
29	Yates
30	*Ibex No. 4
31	Glengarry
32	M. N.
33	*Ibex No. 3
34	*Garbutt
35	Maud Hicks
36	Ontario
37	*Ibex No. 5
38	A. B.
39	Tribune
40	Little Mac
41	Nailrod
42	Emma
43	Magic
44	War Eagle
45	*Banker
46	Ralph (Ohio)
47	Antioch Tunnel, Upper
48	*Antioch Quarry
49	Highland Chief
50	Nonie
51	Highland Chief
52	Highland Chief
53	Lalla Rookh
54	Antioch Tunnel, Lower
55	*Agwalt Tunnel
56	Printer Girl
57	Comstock
58	Lady Adele

H

1	Highland Mary No. 1
2	Highland Mary No. 2
3	*Mikado, Old
4	Snowstorm
5	Argentine Tunnel
6	Double Decker No. 2
7	Fairview
8	Silver Basin
9	Keystone
10	
11	Eureka
12	Kent
13	Ishpeming
14	Benton
15	Day Bore Hole
16	Flagstaff, East
16a	
17	Flagstaff, West
18	*Dolomite
19	*Humboldt, South
20	*Adelaide (Ward)
21	Frenchman
22	Humboldt, North
23	No. 1
24	Adelaide No. 1
25	Terrible No. 2
26	Terrible No. 1
27	*Charlestown
27a	
28	Loker
29	Camp Bird Tunnel
30	Devlin
31	Venus
32	Hermes
33	*Codfish Balls
34	Iron Hat
35	Belle of Colorado
36	Christmas Gift
37	Hynes
38	*Belgian
39	Laura Lynn
40	Lily
41	St. Julian
42	Morning Glory, Old
43	Park No. 3
44	Park No. 2
45	Park No. 1
46	O'Brien
47	*Park Benton (Park No. 4)
48	Lady Alice
49	Morning Glory
50	*Badger State
50a	
51	Keno
52	Keno
53	Horseshoe
54	*Ulster-Newton
55	Idaho
56	Idaho
57	*Tucson
58	Porphyry
59	North Incline
60	Iron Hat
61	Codfish Balls
62	Iron Hat
63	Iron Hat
64	Iron Hat
65	Spring
66	Iron Hat No. 1
67	My Day Bore Hole
68	*North Mike
69	*North Moyer
70	*Rubie
71	*Colorado No. 2
72	*Louisville
73	Murphy
74	Glass
75	Cleora
76	Silver Wave No. 1
77	*McKeon
78	Bullseye
79	
80	
81	*Cord incline
82	
83	
84	Gross
85	South Mike
86	
87	No. 4 Incline
88	
89	Triangle
90	Doyle Workings
92	Lime No. 10
93	*Imes
94	*Whitecap
95	Ocean Wave
96	*Minnie
97	Sellers No. 1
98	Sellers No. 2
99	Accident (Sellers No.3)
101	*Moyer
102	*Leo
103	Gilt Edge No. 3
104	Helen
105	Sellers No. 4
106	Minnie Pump Shaft
107	A. Y. No. 1
108	A. Y. No. 2
109	A. Y. No. 3
110	Norman Boardman
111	Forfeit
112	Collateral
113	Lime Incline
114	Smuggler
115	

I

1	Midas
2	Gray Eagle
3	Bison
4	Dillon
6	Wildcat
8	*Niles
9	Buckeye Belle
10	Portland
11	Halfway
12	Henriette, Lower
13	
14	Waterloo
15	Morning Star
16	Forsaken
17	
18	
19	Evening Star, Lower
20	Evening Star No. 5
22	Morning Star, Lower
23	
24	*McHarg
25	Porter
26	Harker No. 2
27	Harker No. 1
28	Smith
29	Lent
30	Seneca
32	Surprise
33	Adams
34	Maid of Erin
35	Maid of Erin (Combination Shaft)
37	
38	Standard
39	
45	Agassiz
47	Agassiz
48	Gonebrod
49	
50	
51	Marian
52	*Robert Emmet
53	Jumpers
54	
56	*R. A. M.
57	*Mikado, New
58	Cumberland
59	*Pyrenees (Rialto)
60	*Greenback
61	
63	
64	Mahala
65	Mahala No. 1
67	*Wolftone
68	Brookland
69	Clontarf
70	*Castle View
71	Big Chief
72	Morning Star, Upper
73	Morning Star, Lower
74	Evening Star, Main
75	*Catalpa, New
76	Evening Star, Upper
77	
78	Catalpa, Main
80	Yankee Doodle, Middle
81	Yankee Doodle Incline
82	
83	Washburne
84	Crescent Incline
86	Crescent, Lower
91	Crescent No. 1
92	Crescent No. 3
93	St. Mary's
94	Pendery
95	Weldon No. 1
96	Pocahontas
97	Kent
98	*Orion
99	Midland
100	Glass-Pendery
101	Glass
102	Aetna No. 1
104	Thompson
105	Meyer
108	Giant
109	Carbonate Incline
110	Yankee Doodle, Upper
111	
112	
113	*William Wallace
114	*Mab
115	
116	
117	Pyreness, New
118	Codfish Balls
119	Codfish Balls
120	Codfish Balls
121	Experiment
122	*Evelyn
123	Modoc
124	Little Nell
125	
126	
129	Combination Incline
131	Carbonate
133	*Hegeman
140	Can
143	O'Donovan Rossa
144	
145	*Thespian
146	Blind Tom, Old
147	
148	*Blind Tom
149	Star of the West No. 1
150	L. M. (Estey)
151	L. M., Main
152	
153	Star of the West No. 2
154	
155	*Satellite No. 1 (Robinson)
156	Satellite No. 2
157	*Rose-Emmet
158	
159	
160	
161	*Modest Girl
162	Toledo Avenue
163	
164	
165	
166	
167	
168	
169	
170	
171	*Yak Tunnel
172	Garden City
173	Garden City, Upper
175	Emmet Tunnel
176	
177	
178	Mary Murphy
179	Crescentia
180	Little Delaware
181	
182	
183	McKeon
184	Globe

J

1	*Sixth Street
2	*Penrose
3	*Weldon No. 2
4	Lazy Bill
5	*Star
6	Cloud City
7	Alice
8	Home Extension
9	*Bohn
10	*Bon Air
11	*P. O. S.
12	California Tunnel
13	A. V.
14	California Gulch
15	*Valentine
16	*Maple Street

K

1	Owers Drill Hole

L

1	Ontario
2	Commercial Drummer
3	Zulu King
4	*Columbia No. 2
5	Keno
6	Robert Emmet
7	Columbia No. 1
8	Columbia Tunnel
9	
10	Hawkes
11	O'Sullivan
12	Switzerland
13	
14	
15	
16	*Revenue No. 1
17	*Moffat
18	*Coon Valley
19	Bessie Wilgus

M

1	Ben Burb
2	Great O'Sullivan
3	Oro City
5	Star of Hope
7	Stone No. 6
10	Gilt Edge No. 2
11	*Stevens
12	
13	Five Twenty
14	Gray Eagle
15	Bucket (Crown Point No. 3)
16	Rickard
17	
18	Red Head
19	Rustin
20	Rock
21	Rock Tunnel
22	
23	*New Dome
24	Vining
25	Alma
26	Vining
27	Vining Tunnel
28	*Vining
29	*Only Chance
30	*Reindeer
31	*Sequin
32	
33	Crown Point No. 1
34	Crown Point No. 2
35	Hall
36	Nisi Prius
37	Pinnacle
38	Weir
39	Little Floy
40	Gnesen
41	*Sullivan
42	Fitzjames
43	Murphy
44	Vivian
45	Officer

N

1	Nightingale Tunnel
2	
3	Comstock
4	Luella
5	Charlie
6	Soda Card
7	Eclipse
8	Jaybird Tunnel
9	Jaybird, North
10	Czar
11	New England
12	*Garibaldi Tunnel
13	Little Schuylkill
14	Belle Vernon
15	Tinker
16	Concord
17	Eclipse Tunnel
18	Eclipse Tunnel
19	Wynan
20	Burt
21	*Steelspring Tunnel (Stars and Stripes)
22	Lovejoy
23	
24	Kid
25	Ben Franklin
26	Ben Franklin Tunnel
27	Pilot Tunnel
29	Abe Lincoln Tunnel
30	*Printer Boy, Upper
31	Printer Boy, Upper No. 1
32	*Printer Boy, Lower
33	Lovejoy
34	Nestor
35	J. D. Ward

O

1	Ella
2	Colorado Princess
3	Leavenworth
4	Green Mtn.
5	Tiger
6	Alta
7	North Star
8	Pine Forest

EXPLANATION
SEDIMENTARY ROCKS

CARBONIFEROUS
Pennsylvanian — wg — Weber (?) formation
Mississippian DEV.(?) *Upper* — bl — Leadville ("Blue") limestone
ORDOVICIAN — pq / wl — Yule limestone; "Parting" quartzite member (pq); "White" limestone member (wl)
CAMBRIAN — Cq — Sawatch quartzite
PRE-CAMBRIAN — Pre-Cgr — Granite, gneiss, and schist

INTRUSIVE IGNEOUS ROCKS

Late Pliocene or early Pleistocene — ra — Rhyolite agglomerate
LATE CRETACEOUS OR EARLY TERTIARY
egp — Evans Gulch porphyry
gp — Gray porphyry
wp — White porphyry

R.B. Marshall, Chief Geographer.
Sledge Tatum, Geographer in charge.
Topography by E.P. Davis and S.E. Taylor.
Control by R.B. Robertson, C.H. Semper, and S.E. Taylor.
Surveyed in 1911.

14°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION 1911

106°19'

GEOLOGIC MAP OF LEADVILLE MINING DISTRICT, COLORADO

Scale $\frac{1}{9600}$

0 — 1/8 — 1/4 — 1/2 — 3/4 — 1 Mile
1000 — 500 — 0 — 1000 — 2000 — 3000 — 4000 Feet
200 — 100 — 0 — 500 — 1000 Meters

Contour interval 25 feet
Datum is mean sea level.
1927

Geology by J. D. Irving
and G. F. Loughlin