U.S.GEOLOGICAL SURVEY
CHARLES D.WALCOTT,
DIRECTOR

ECONOMIC GEOLOGY SHEET

MONTANA
(SILVER BOW CO.)
BUTTE SPECIAL MAP

LIST OF MINE OPENINGS AND THEIR LOCATION.

(The position on the sheet can be determined by reference to the margin which is divided into spaces of ten seconds of latitude and longitude.)

Name.	Latitude.	Longitude.
Adams	46° 0' 50"	112° 30' 48"
Adelaide	46 1 42	112 30 35
Alex Scott No. 1	46 1 26	112 30 43
Alex Scott No. 2	46 1 28	112 30 45
Alice	46 2 05	112 32 14
Allie Brown, East	46 1 53	112 32 10
Allie Brown, West	46 1 51	112 32 18
Amador	46 2 00	112 31 49
Amy-Silversmith	46 2 04	112 32 37
Amy Incline	46 0 45	112 35 37
Anaconda	46 1 11	112 31 25
Anderson	46 0 43	112 31 15
Andy Johnson	46 0 27	112 33 03
Anglo Saxon	46 0 55	112 33 58
Anselmo No. 1	46 1 12	112 32 53
Anselmo No. 2	46 1 12	112 32 41
Apex	46 1 14	112 35 25
Atlantic	46 1 35	112 29 31
Azor	46 0 44	112 35 28
Balm	46 1 22	112 32 28
Batchelor	46 1 48	112 33 21
Belcher	46 1 51	112 33 01
Bell	46 1 36	112 31 24
Belle of Butte	46 2 01	112 32 06
Belle of Butte, East	46 2 01	112 31 54
Belle of Butte, L. S.	46 2 02	112 32 03
Belmont	46 0 49	112 31 21
Bernard	46 1 12	112 32 48
Blackbird	46 0 35	112 33 38
Black Rock	46 2 10	112 31 04
Blackstone	46 2 51	112 33 13
Bluebird	46 0 42	112 35 38
Blue Jay	46 1 03	112 31 49
Blue Wing	46 1 55	112 32 13
Boston	46 2 12	112 31 34
Brazil No. 1	46 0 36	112 33 31
Brazil No. 2	46 0 32	112 33 29
Brittania	46 0 21	112 33 23
Buffalo	46 1 30	112 32 14
Cambers	46 0 53	112 31 20
Candlestick	46 2 48	112 31 38
Carrie	46 0 56	112 32 44
Champion	46 1 22	112 35 43
Clark's Fraction	46 2 07	112 32 08
Clear Grit	46 1 19	112 32 09
Columbia	46 0 50	112 31 01
Colusa, East	46 1 28	112 30 24
Colusa, West	46 1 24	112 30 44
Colusa-Parrott	46 1 08	112 31 40
Comanche	46 1 21	112 30 42
Corra No. 1	46 1 49	112 31 42
Corra No. 2	46 1 52	112 31 46
Cuerpo Bazzo	46 1 08	112 31 12
Curry	46 1 57	112 32 19
Czarina, East	46 0 19	112 33 38
Czarina, West	46 0 19	112 33 48
Daly Shaft (See Original Butte)		
Daniel Quilp	46 2 18	112 31 20
Darling Fraction	46 1 52	112 31 52
Despatch	46 1 11	112 32 43
Destroying Angel	46 0 52	112 32 12
Diamond	46 1 36	112 31 29
Dixon	46 1 58	112 33 10
Elbe	46 0 31	112 33 58
Elm Orlu	46 2 09	112 31 18
Elvina	46 2 39	112 32 58
Emma	46 0 43	112 32 13
Enterprise	46 2 16	112 30 40
Estella	46 1 28	112 32 18
Eveline	46 1 44	112 32 55
Flag	46 1 46	112 31 56
Four Johns Tunnel	46 2 09	112 30 47
Fredonia	46 0 48	112 35 15
Gagnon	46 1 09	112 32 20
Gambetta	46 1 21	112 30 39
Gambrinus	46 1 03	112 32 49
Garibaldi	46 0 34	112 34 58
Gem	46 1 50	112 30 59
Geneva	46 0 16	112 33 11
Germania	46 0 28	112 33 50
Glengarry	46 0 45	112 30 44
Glengarry Silver	46 2 25	112 32 41
Gold Hill	46 1 05	112 32 05
Gold Hill No. 2	46 1 05	112 32 21
Goldflint	46 2 11	112 35 49
Goldsmith	46 2 05	112 32 49
Gopher	46 0 53	112 31 06
Gray Rock, East	46 1 38	112 31 31
Gray Rock, West	46 1 42	112 31 44
Great Republic	46 1 08	112 35 27
Green Mountain	46 1 34	112 31 42
Ground Squirrel No. 1	46 0 44	112 31 01
Ground Squirrel No. 2	46 0 47	112 31 02
Ground Squirrel No. 3	46 0 47	112 30 57
Harrington	46 0 44	112 30 41
Henry George	46 0 51	112 31 13
Hesperus	46 0 49	112 31 38
Hibernia, East	46 0 59	112 34 40
Hibernia, West	46 0 58	112 34 42
Highland	45 59 39	112 33 43
High Ore	46 1 26	112 31 11
Humboldt	46 0 25	112 33 50
Hyde Park	45 59 32	112 34 26
Iduna	46 0 49	112 31 09
Illinois	46 2 20	112 33 02
Iowa	46 1 40	112 35 33
Isele	46 0 06	112 33 46
Jersey Blue	46 2 14	112 31 22
Josephine	46 1 48	112 31 57
Kit Carson	46 0 55	112 34 11
Kitty Morris	46 0 16	112 34 12
Kosuth	46 1 39	112 35 48
La Plata	46 1 43	112 32 13
Late Acquisition, East	46 1 15	112 32 12
Late Acquisition, West	46 1 15	112 32 19
Lena K., East	46 0 38	112 35 22

Name.	Latitude.	Longitude.
Lena K., West	46° 0' 39"	112° 35' 26"
Leonard	46 1 23	112 33 31
Lexington	46 1 49	112 32 08
Little Darling	46 0 39	112 35 49
Little Gold Hill	46 1 07	112 32 08
Little Joe	46 1 14	112 32 28
Little Mina	46 1 23	112 31 59
Little Mina, East	46 1 19	112 31 51
Little St. Lawrence	46 1 30	112 32 43
Lloyd Tunnel	46 1 02	112 31 00
Lloyd Shaft	46 1 03	112 30 59
Magna Charta	46 2 07	112 31 57
Margret Ann	46 2 22	112 32 36
Mat	46 1 42	112 30 28
Maximilian No. 1	46 0 51	112 32 38
Maximilian No. 2	46 0 50	112 32 44
Milwaukee	46 0 46	112 34 26
Minnie Healey	46 1 19	112 30 34
Missoula	46 1 38	112 32 41
Modoc	46 1 31	112 30 49
Modoc Extension	46 1 29	112 30 42
Modoc, West	46 1 35	112 31 01
Mono	46 0 47	112 35 26
Moody & Sankey	46 1 36	112 35 41
Moonlight	46 1 02	112 31 34
Moose	46 2 01	112 31 41
Morning Star	46 1 02	112 32 44
Moscow	46 1 25	112 32 34
Moulton	46 2 04	112 32 25
Mountain Boy	46 0 27	112 33 58
Mountain Chief	46 1 37	112 30 40
Mountain Con. No. 1	46 1 30	112 31 59
Mountain Con. No. 2	46 1 29	112 32 05
Mountain View	46 1 16	112 31 06
Mount Moriah No. 1	46 1 15	112 32 37
Mount Moriah No. 2	46 1 13	112 32 44
Neptune	46 0 44	112 32 47
Nettie No. 1	46 0 57	112 34 53
Nettie No. 2	46 0 53	112 35 01
Nettie No. 3	46 0 54	112 34 40
Neversweat	46 1 09	112 31 34
Nipper	46 1 15	112 31 45
Nonesuch (Union Co.)	46 1 51	112 33 38
Nora	46 0 55	112 31 03
North Pacific, East	46 0 08	112 32 44
North Pacific, West	46 0 09	112 32 49
North Star	46 2 54	112 22 59
Oden	46 1 11	112 31 43
Old Glory	46 1 34	112 32 07
Olive Branch	45 59 52	112 33 54
Ophir	46 0 18	112 32 13
Original	46 1 08	112 32 17
Original Butte (Daly Shaft)	46 1 08	112 32 27
Oro Butte	46 1 24	112 32 35
Orphan Boy	46 0 48	112 34 00
Orphan Girl	46 0 40	112 34 05
Ottowa	46 2 29	112 31 20
Pacific	46 1 27	112 32 26
Parnell	46 1 19	112 31 20
Parrott	46 1 07	112 31 46
Parrott No. 5, East	46 1 04	112 31 29
Paymaster	46 1 55	112 32 24
Pennsylvania	46 1 00	112 30 54
Pikes Peak, East	46 0 04	112 32 43
Pikes Peak, West	46 0 06	112 32 49
Pollock	46 2 31	112 31 31
Poorman	46 0 43	112 35 54
Poser	46 2 06	112 31 32
Poulin	44 1 27	112 32 24
Ramsdell-Parrott	46 1 07	112 31 38
Rarus	46 1 09	112 30 46
Rarus No. 2	46 1 08	112 30 45
Raven	46 1 34	112 32 26
Rising Star	46 1 58	112 32 46
Rose	46 1 02	112 31 26
St. Lawrence	46 1 10	112 31 12
St. Lawrence No. 2	46 1 12	112 31 12
Salvadore	46 1 36	112 32 48
Schonbar	46 0 12	112 32 22
Self Rising	46 0 46	112 34 48
Silver Bow No. 1	46 0 55	112 30 44
Silver Bow No. 2	46 0 53	112 30 34
Silver Gate	46 0 26	112 34 21
Silver-Lick	46 2 19	112 32 37
Sioux Chief	46 1 37	112 30 50
Sisters	46 1 47	112 31 51
Snohomish	46 1 05	112 30 34
Snow Drift	46 2 24	112 32 55
Soudan	46 0 36	112 33 35
Speculator, East	46 1 40	112 31 12
Speculator, West	46 1 38	112 31 22
Springfield	46 2 50	112 32 55
Spruce	46 0 22	112 32 30
Star West, E. shaft	46 0 16	112 32 47
Star West, W. shaft	46 0 21	112 32 55
Stevens	46 0 46	112 32 37
Stewart	46 1 13	112 31 54
Sunshine	46 1 32	112 31 04
Tecumseh	46 0 12	112 32 28
Tramway	46 1 12	112 30 34
Tavona	46 0 24	112 32 45
Trifle	46 1 10	112 32 52
Tuolumne	46 1 42	112 30 51
Union Co.	46 2 33	112 32 18
Valdemere	46 2 05	112 31 46
Valley, East	46 0 46	112 31 42
Valley, West	46 0 09	112 32 38
Virginius (Parrott)	46 1 08	112 31 54
Wabash No. 1	46 2 45	112 33 00
Wabash No. 2	46 2 43	112 33 02
Wake-up-Jim	46 1 34	112 31 34
Washoe	46 1 05	112 31 57
Wedge	46 2 28	112 30 25
Wild Bill	46 1 44	112 31 30
Yellow Jacket	46 1 24	112 32 40

LEGEND

SURFICIAL ROCKS

(Areas of Surficial rocks are shown by patterns of dots and circles.)

- Pal — Alluvium and wash — PLEISTOCENE

SEDIMENTARY ROCKS

(Areas of Sedimentary rocks are shown by patterns of parallel lines.)

- Nl — Lake beds (sand, gravel, and waterlaid tuffs) — NEOCENE

IGNEOUS ROCKS

(Areas of Igneous rocks are shown by patterns of triangles and rhombs.)

- Nr — Intrusive rhyolite (dikes, bosses, and apophyses) — NEOCENE
- Ne — Extrusive rhyolite (tuffs, breccias, and flows connected with the intrusive masses) — NEOCENE
- qr — Quartz porphyry (intrusive) — POST-CARBONIFEROUS
- ap — Aplite (intrusive) — POST-CARBONIFEROUS
- gr — Granite (very basic) — POST-CARBONIFEROUS

Faults

Sections

- Copper veins
- Silver veins
- Broken lines indicate covered or doubtful veins
- Small shafts and prospects
- Shafts within buildings

Henry Gannett, Chief Topographer.
E.M.Douglas, Topographer in charge.
Triangulation and Topography by R.H.Chapman.
Surveyed in 1895.

Scale 15000
0 500 1000 2000 3000 4000 5000 5280 Ft. or 1 Mile
0 ½ 1 0 1 Kilometer

Contour interval 20 feet.
Datum is mean sea level,
based upon elevation of bridge 87 of NERR. taken as 5526 feet.
Edition of Mar. 1896.

S.F.Emmons, Geologist in charge.
Areal Geology by Walter Harvey Weed.
Economic Geology by G.W.Tower Jr. and S.F.Emmons.
Surveyed in 1896.