

2
STOPE BOOK
PENNSYLVANIA MINE

5-9

5 M-31

M
31
2

333 334 335 336 337 338 339 340 341 342 343 344

Blank

335

334

333

332

331

330

329

328

13

9

M-3

800

KELLEY

KELLEY

600

7

700

ST

9

Mt. View

700

1000

ST.L.

11

335

334

333

332

331

330

329

328

Blank

KELLEY BLANK

M
31
2

333

334

335

336

337

338

339

340

341

342

343

344

335

334

333

332

331

330

329

328

Blank

1000
ST.L.
H
328
329
MT VIEW
700
330
331
700
ST.L.
332
KELLEY
600
333
KELLEY
600
334
M
KELLEY
800
335
3
1000

335

334

333

332

331

330

329

328

Blank

KELLEY BUNK

M
31
2

333

334

335

336

337

338

339

340

341

342

343

344

Blank

335

334

333

332

331

330

329

328

800
KELLEY
600
700
ST.L.
8
MT VIEW
700
1000
ST.L.
H.P.

322	323	324	325	326	327	328	329	330	331	332	333
335											
334											
333											
332											
331											
330											
329											
328											

Blank

KELLEY BANK

M
31
2

335

334

333

332

331

330

329

328

Blair

81
 KELLEY 600
 KELLEY 600
 700
 ST.L.
 8
 MT VIEW 700
 1000
 ST.L.
 H.E.

335

334

333

Blank

332

331

330

329

328

KELLEY BLANK

M
31
2

333 334 335 336 337 338 339 340 341 342 343 344

Blank

335

334

333

332

331

330

329

328

800
KELLEY
600
700
ST.L.
1000
ST.L.
MT VIEW
700
H.I.

335

334

333

Blank

332

331

330

329

328

KELLEY BLANK

M
31
2

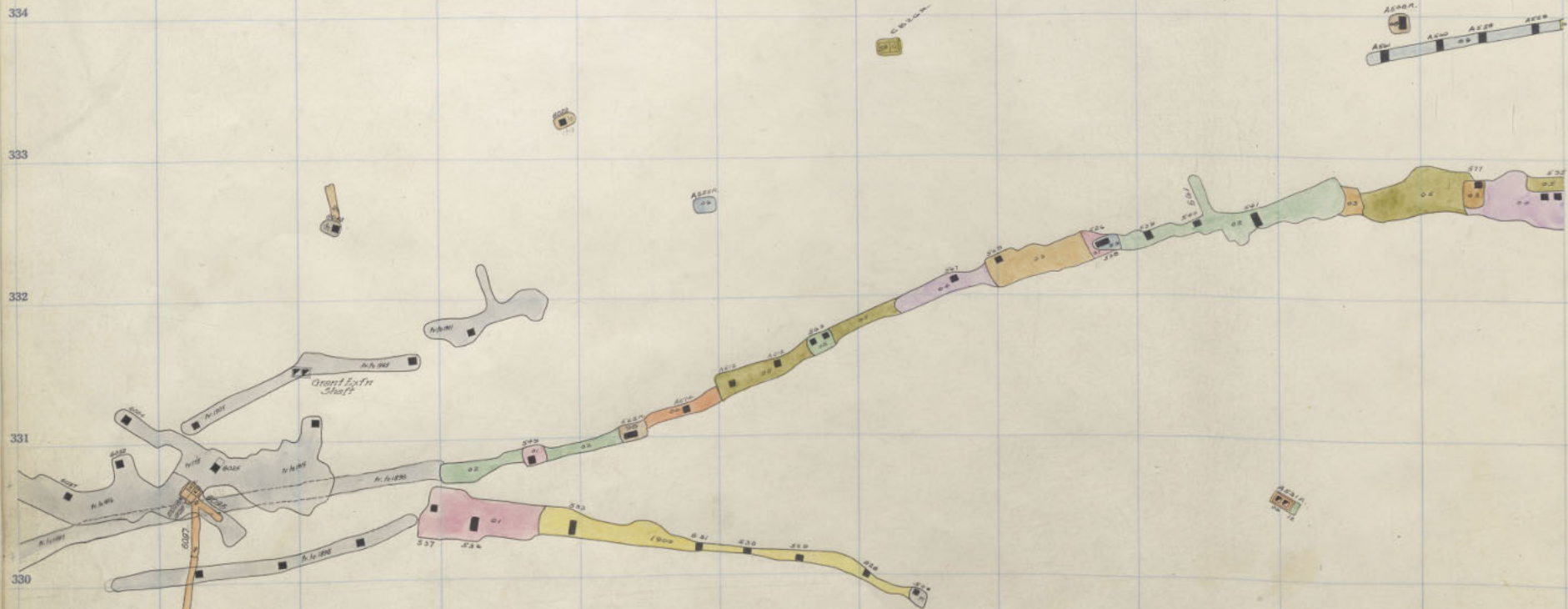
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6

KELLEY
600KELLEY
600STL
00

6

MT VIEW
7001000
STL



MINED OUT
BY
BERKELEY PIT

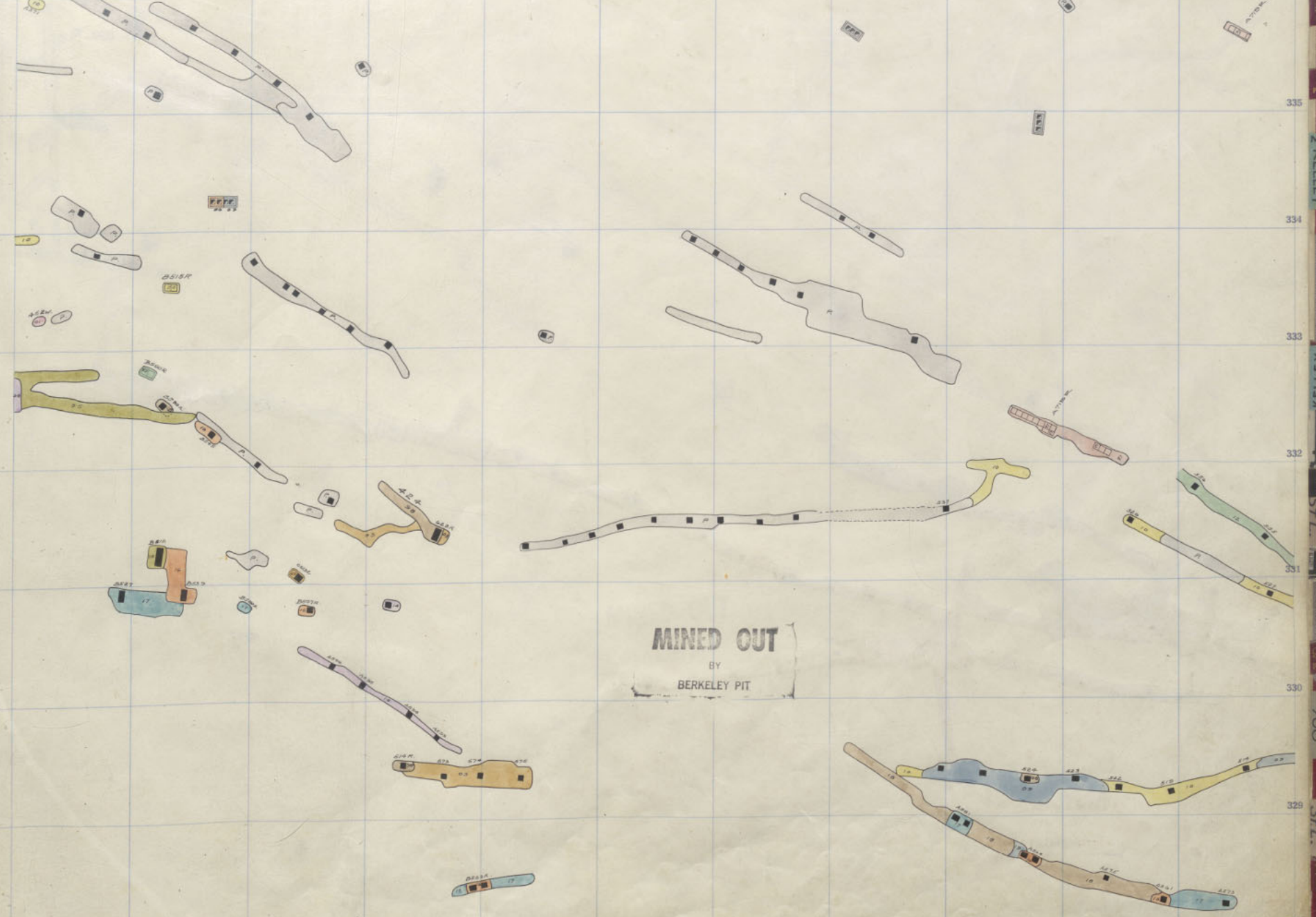


St Lawrence 600 6th Fl ELEM 5310
Kewly 6-30-6

500-10

M
31
2

333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

Range 700-137 Fl.
Berkeley-500-10

800
KELLEY

600
KELLEY

700
STL

60

700
MT VIEW

1000
STL

328

335

334

333

332

331

330

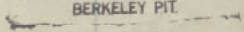
329

328



MINED OUT

BY
BERKELEY PIT



St Lawrence 600 5th Fl ELEV 5302
KELLE 610-5

500-9

M
31
2



MINED OUT
 BY
 BERKELEY PIT

RARE 700-SILL
 BERK 500-9

FIELD 700-SILL
 BERK 500-9

800
 KELLEY
 600
 700
 500
 1000
 S.F.L.

W. H. HARRIS
1897
335

334

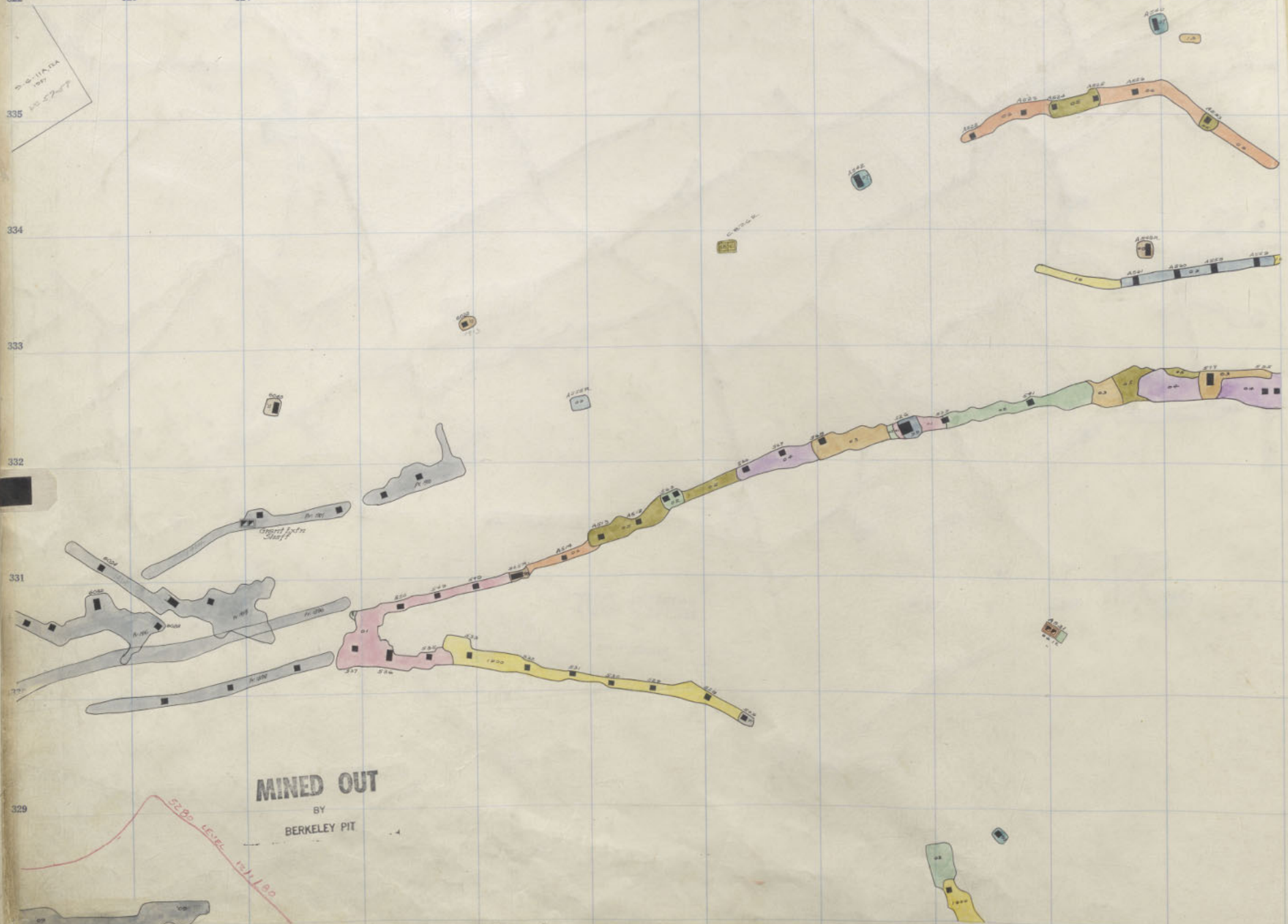
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332

331

329

M
31
2



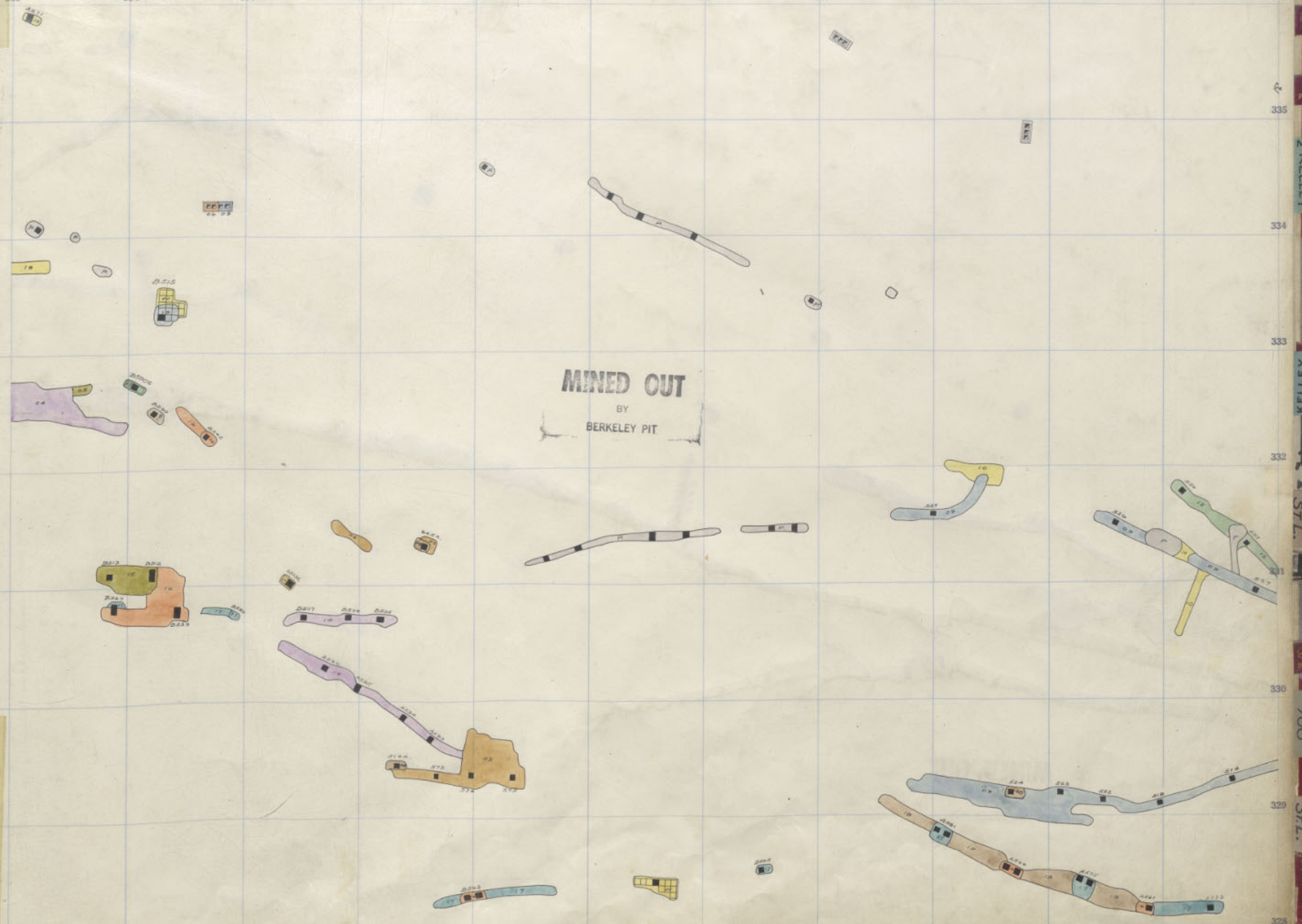
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BY
BERKELEY PIT

5280 LEVEL 12/1/00

500-8

St Lawrence 600 4th Fl ELEV 5295
KELLEY 600-4

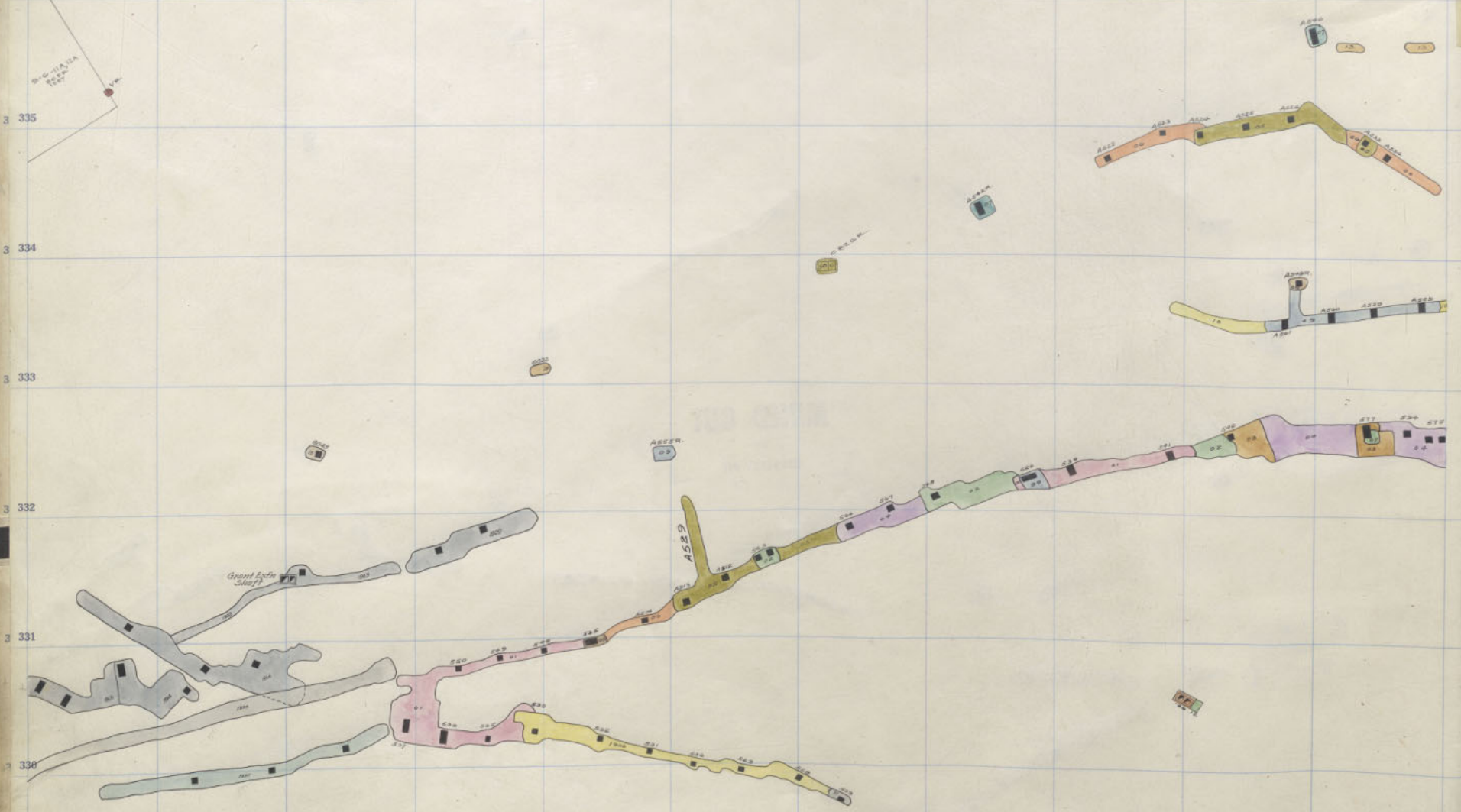
MINED OUT
BY
BERKELEY PIT



RARUS-500-12
13- 500-5

335
334
333
332
331
330
329
328

800
KELLEY
700
STL.
700
STL.
1000
STL.



MINED OUT
 BY
 BERKELEY PIT



KELLEY
 St Lawrence 600-5
 600 3rd Fl ELEV 5287

500-1

M
 31
 2

MINED OUT
BY
BERKELEY PIT



R. 800-11
B. 500-7

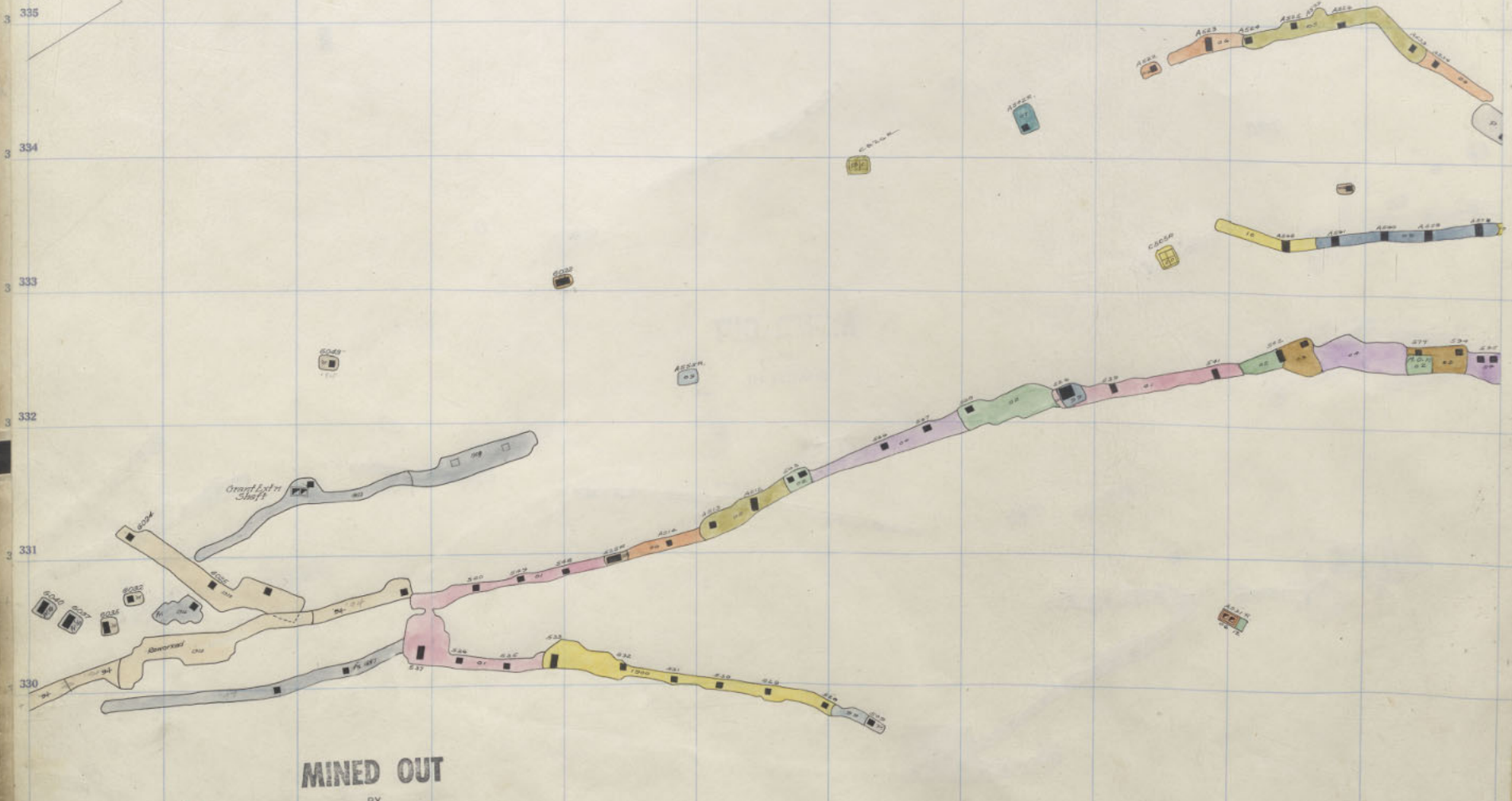
335
334
333
332
331
330
329
328

800
KELLEY
600

700
STL.

1000
STL.

MT VIEW
700



MINED OUT
BY
BERKELEY PIT

280' LEVEL 12110

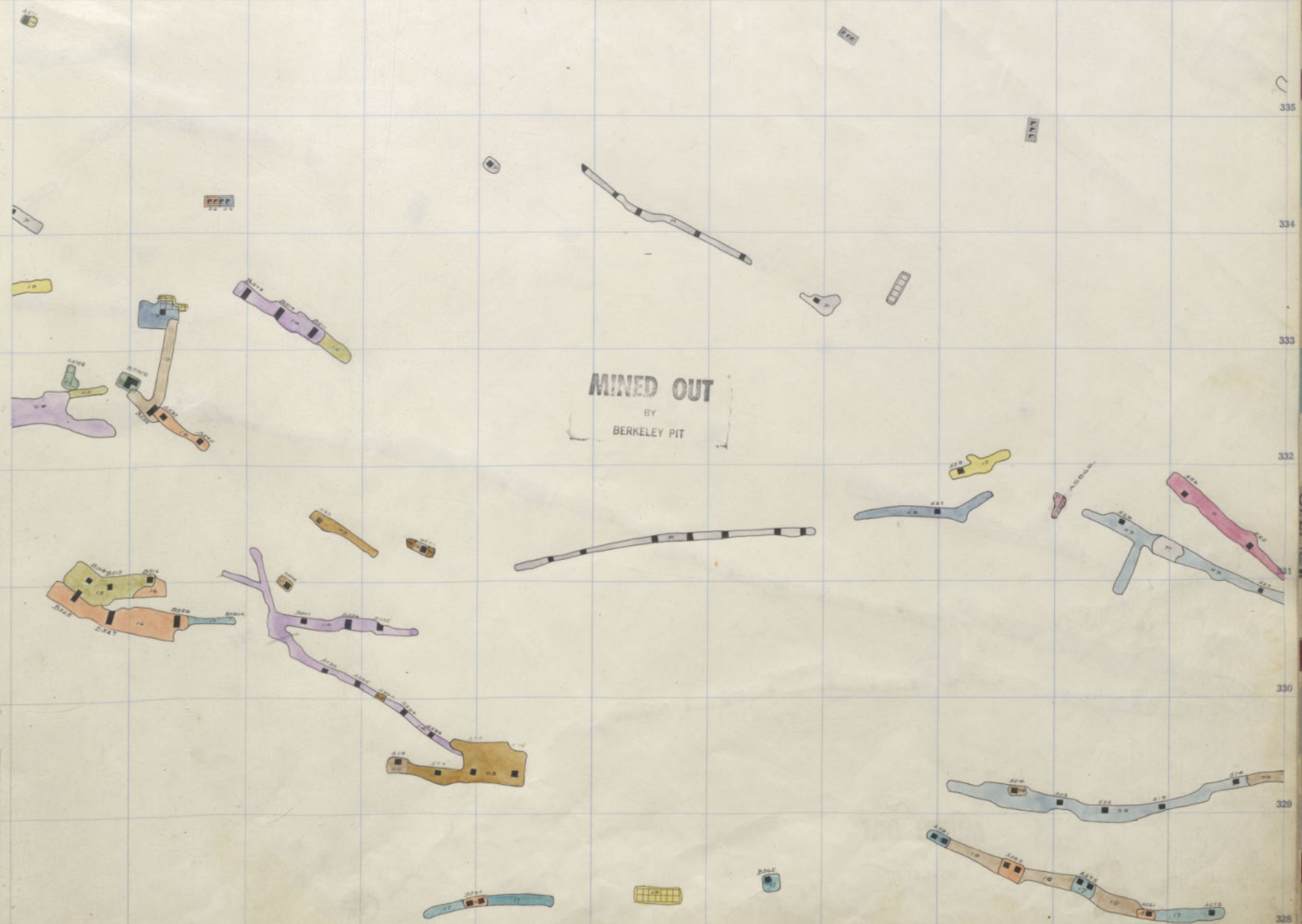
St Lawrence 600 2nd Fl
ELEV 2750

500-6

M
31
2

333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT

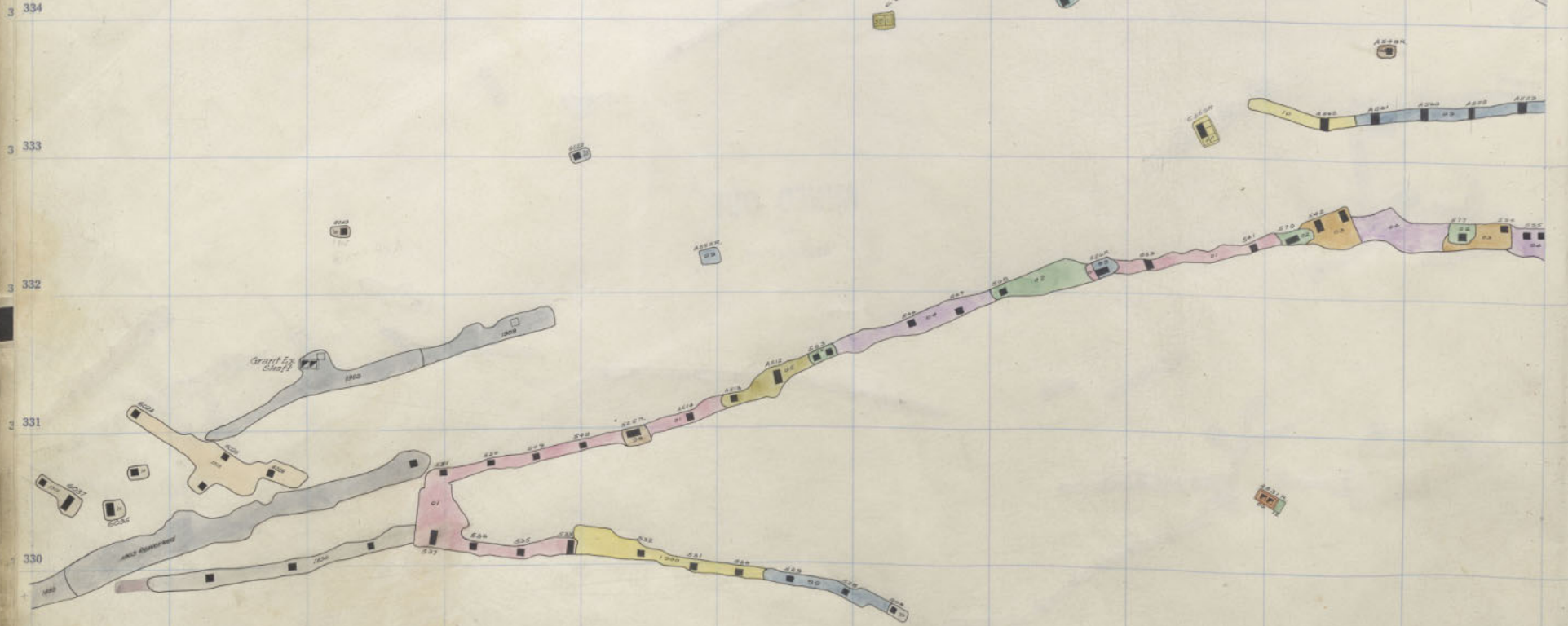


R- 800-10
B- 500-6

6
M-3
800
KELLEY
600
700
STL.
8
MT. VIEW
700
1000
STL.
325



WATER



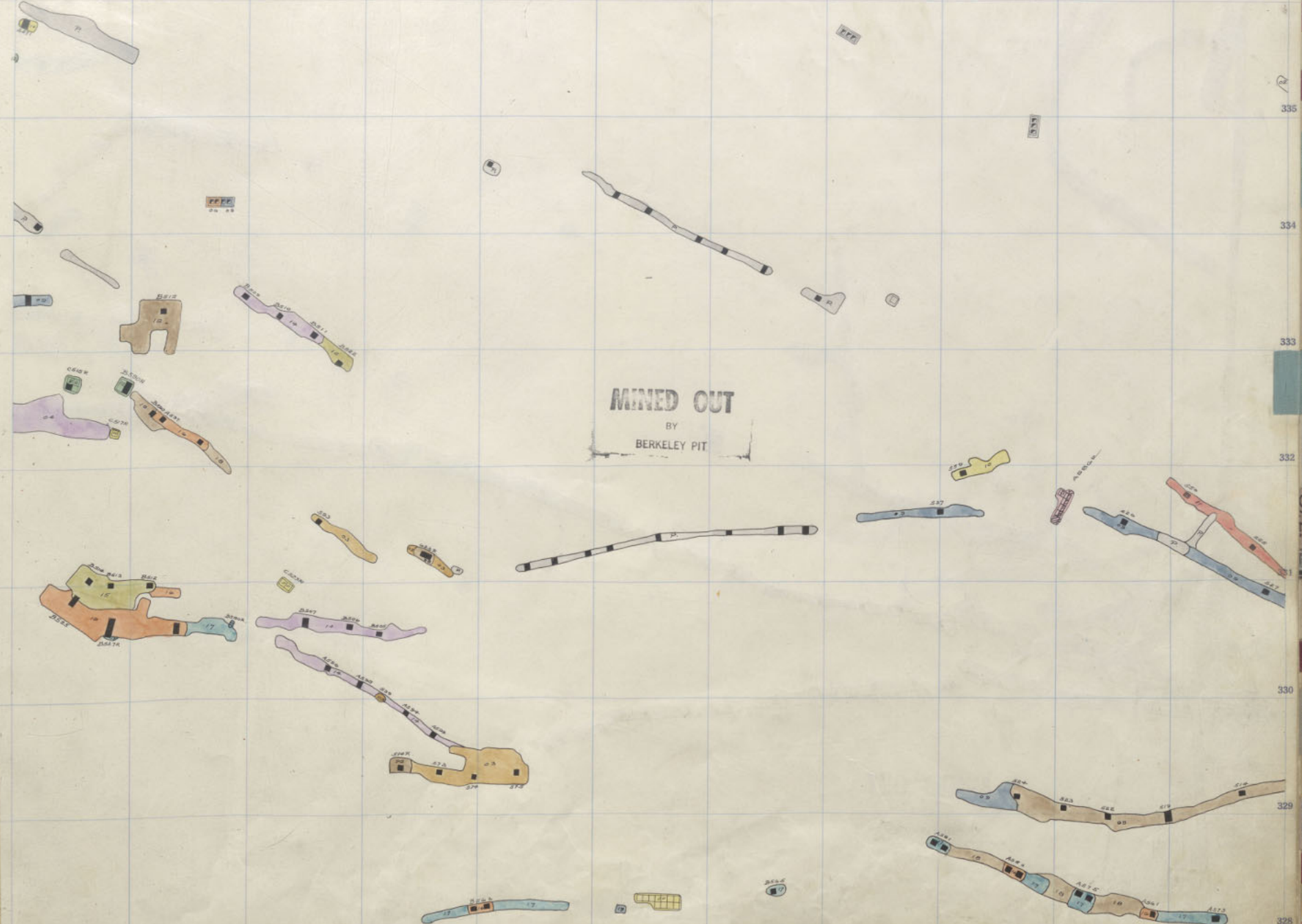
MINED OUT
 BY
 BERKELEY PIT

St Lawrence 600 1st fl ELEV 5272

500-5

M 31 2

333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

RARUS 800-9
BERKELEY 500-5

6

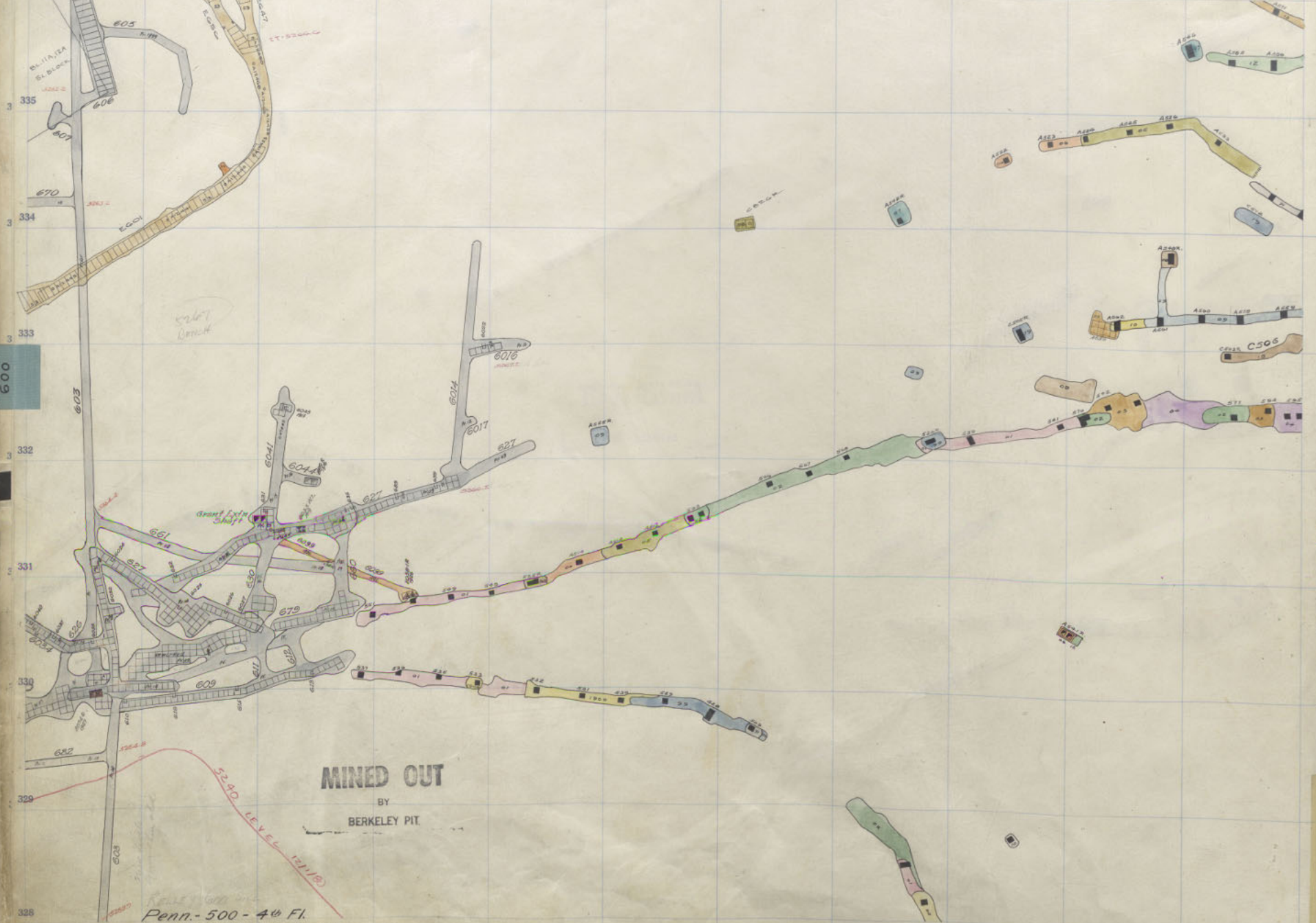
800
KELLEY

600
KELLEY

700
STL.

700
MT VIEW

1000
STL.



MINED OUT
BY
BERKELEY PIT

Penn. - 500 - 4th Fl.
St. Law. 600 Level ELEV 5262

5267
Drift

5240
LEVEL (1110)

KELLEY
600

M
31
2

333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

REWORK

R-500-B
Berk 500-4

6
M-31
800
KELLEY
335
334
333
332
331
330
329
328

700
SFL.

Mt. View
700
SFL.

1000
SFL.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

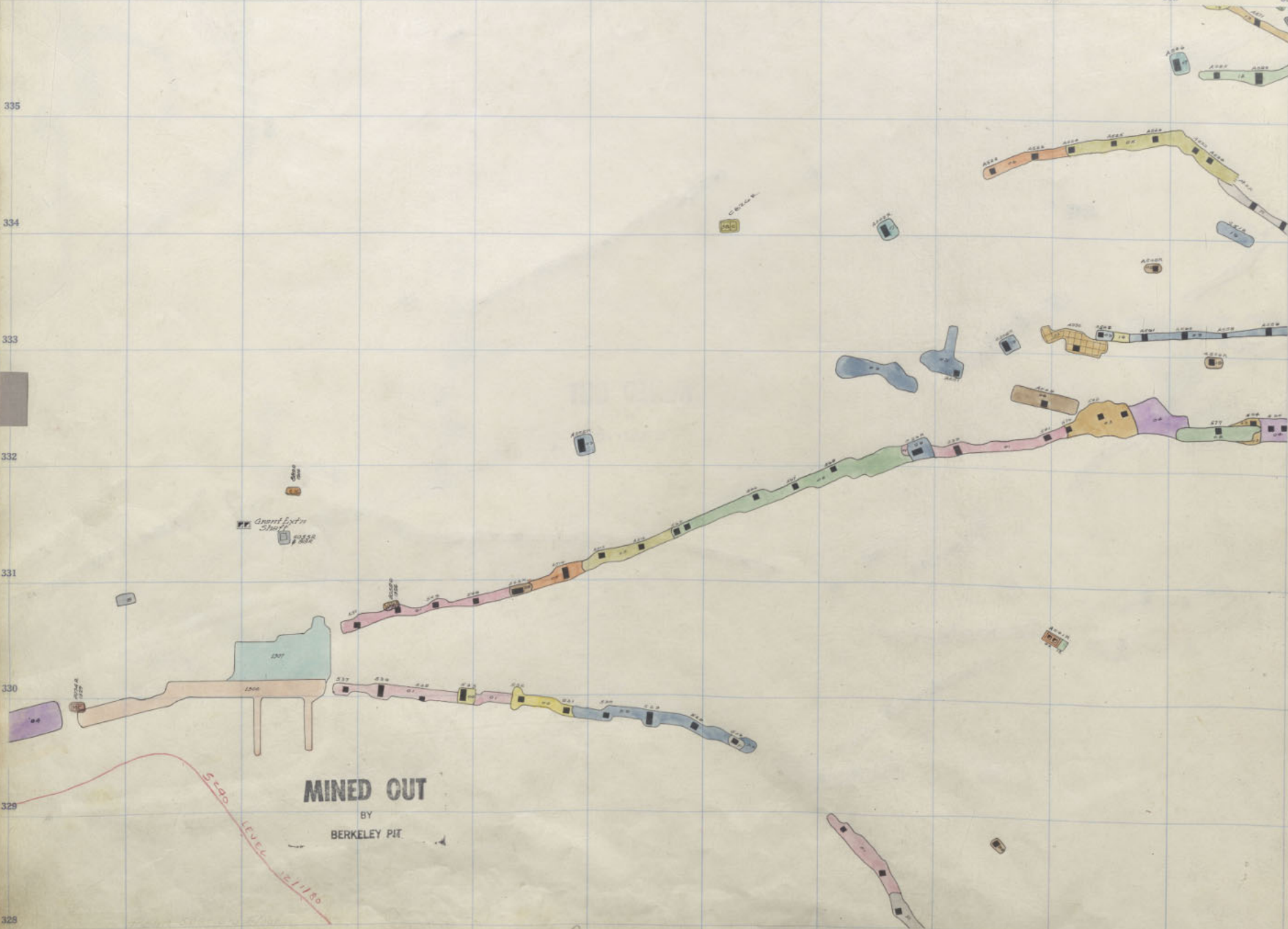
331

330

329

328

M
31
2
KELLEY
600



MINED OUT
BY
BERKELEY PIT

Quartz Exp'n
Shaft

St Lawrence 800 25' H (repd)
ELEV 2250

333 334 335 336 337 338 339 340 341 342 343 344



6 PLOT

M-31 800 KELLEY

700 STL.

Mt View 700

1000 STL.

1000

333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

R-800-G
B-500-2

Form 800 & 875
201 201 2

6
pages

M-3
800
KELLEY

700
STL.

Nt. View
700

1000
STL.

3 322 323 324 325 326 327 328 329 330 331 332 333

3 335

3 334

3 333

3 332

2 331

330

329

328

M
KELLEY
600
31
2

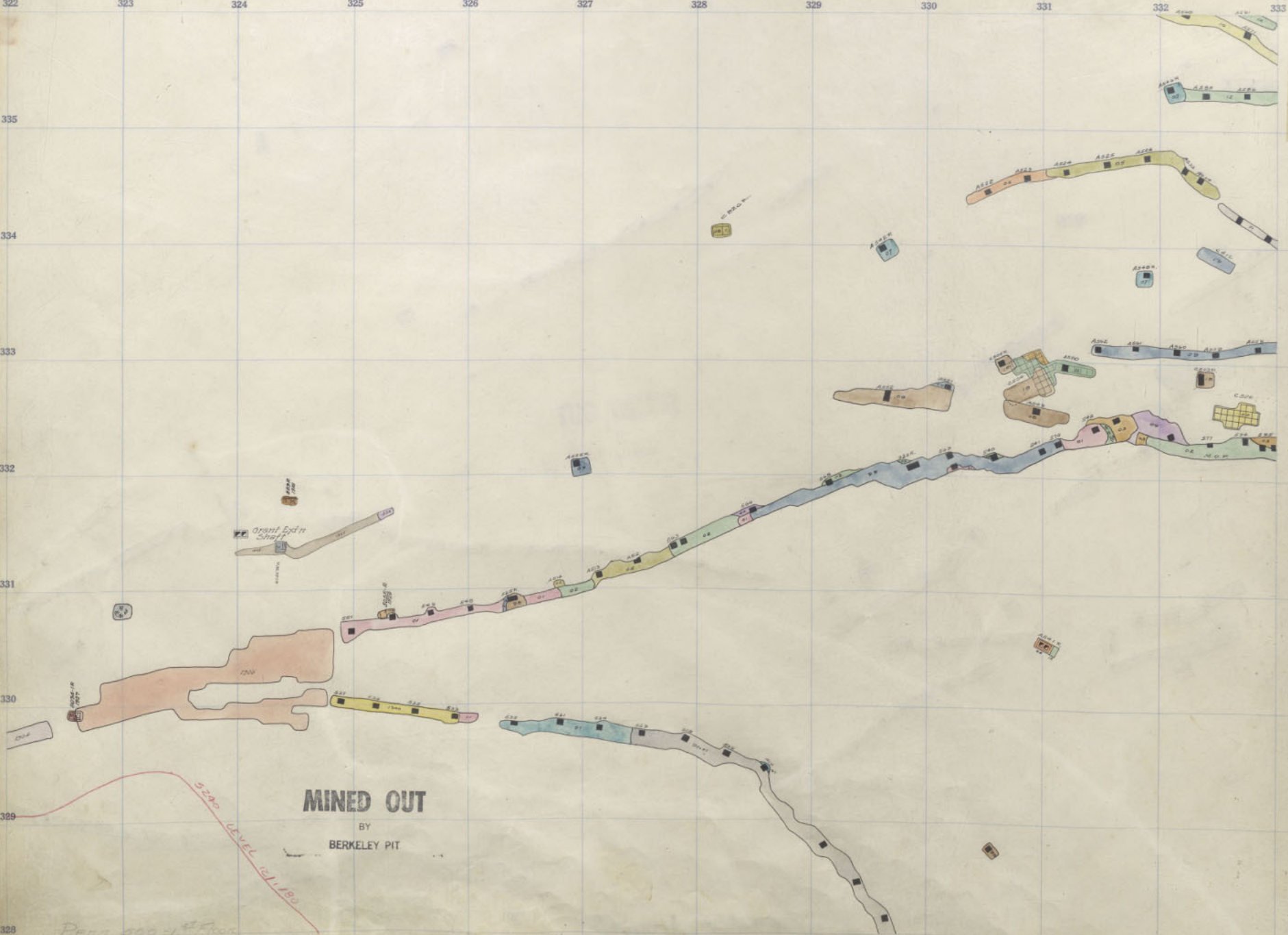
Grant Expt Shaft

MINED OUT
BY
BERKELEY PIT

5200 LEVEL (11/19)

Penn 600-1 Floor
ST. Lawrence 800 24th Fl
St Lawrence 800 24th Fl

500-1



333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT



R-800-5
B-500-7

Parus 800 5th Floor
1000 50-1

6
M. KELLEY
800
700
1000
STL.

3 322 323 324 325 326 327 328 329 330 331 332 333

BY PEN.

3 335

3 334

3 333

KELLEY 600

3 332

3 331

3 330

3 329

3 328

5233 BENCH

Grant Extn Shaft

MINED OUT

BY
BERKELEY PIT

Pen. 50- Lord
545 800 230 Fl

PEN 500- GILL

St Lawrence 800 23rd Fl. ELEV 5240



325

323

324

325

326

327

328

329

330

331

332

333

335

334

333

332

331

330

329

328

5 PEN

M 11 KELLEY 600

31
2

Grant Ex'n Shaft

ALCOA

MINED OUT

BY

BERKELEY PIT

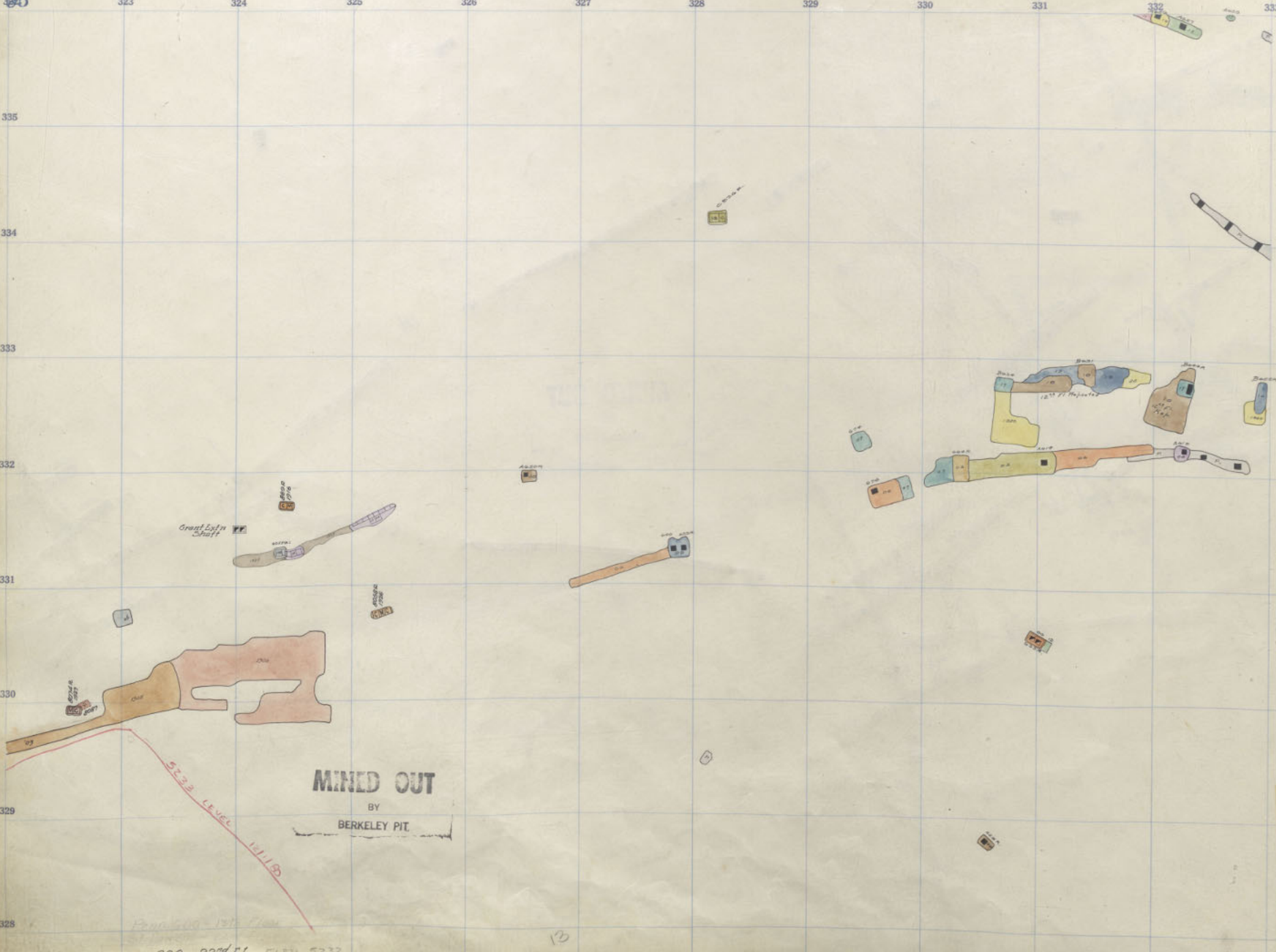
5233 LEVEL 12/1/18

Pen 500 - 12/1/18

St Lawrence 800 22nd Fl ELEV 5232

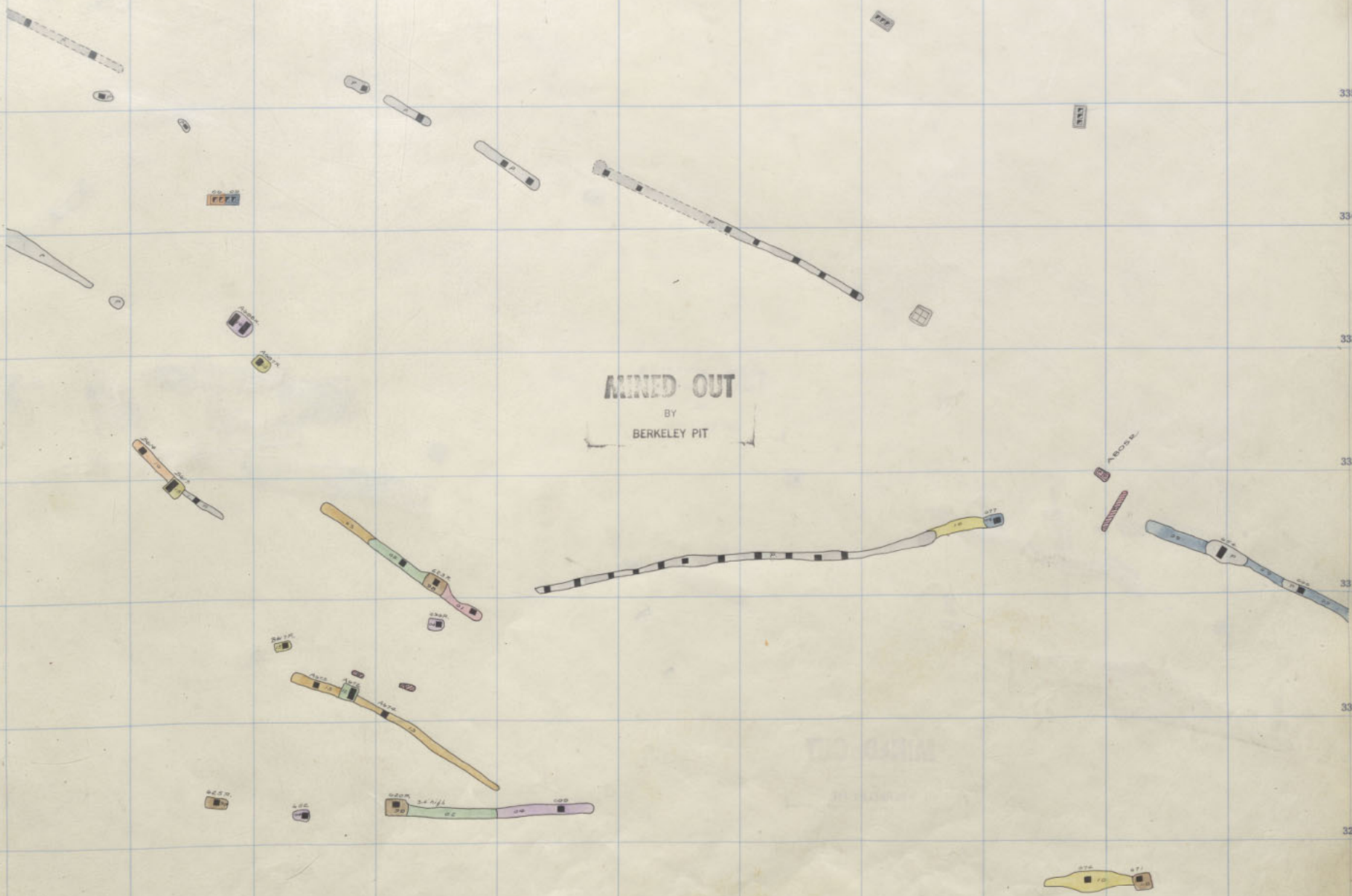
KELLEY 10/23

13



333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT



R-800-3
B-600-13

R-800-3
B-600-13

6
M. KELLEY
800
700
1000
STL.

335

334

333

332

331

330

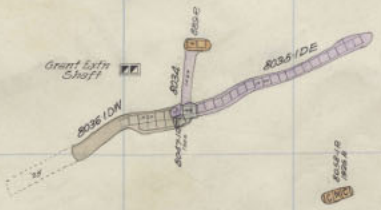
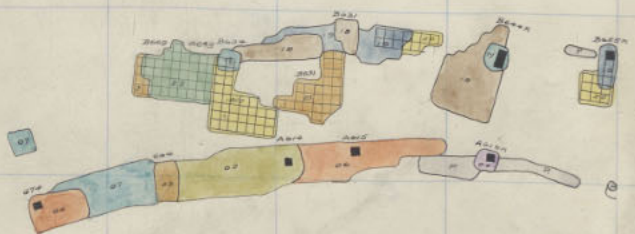
329

328

5 PEN

M 11
KELLEY
600

31
2



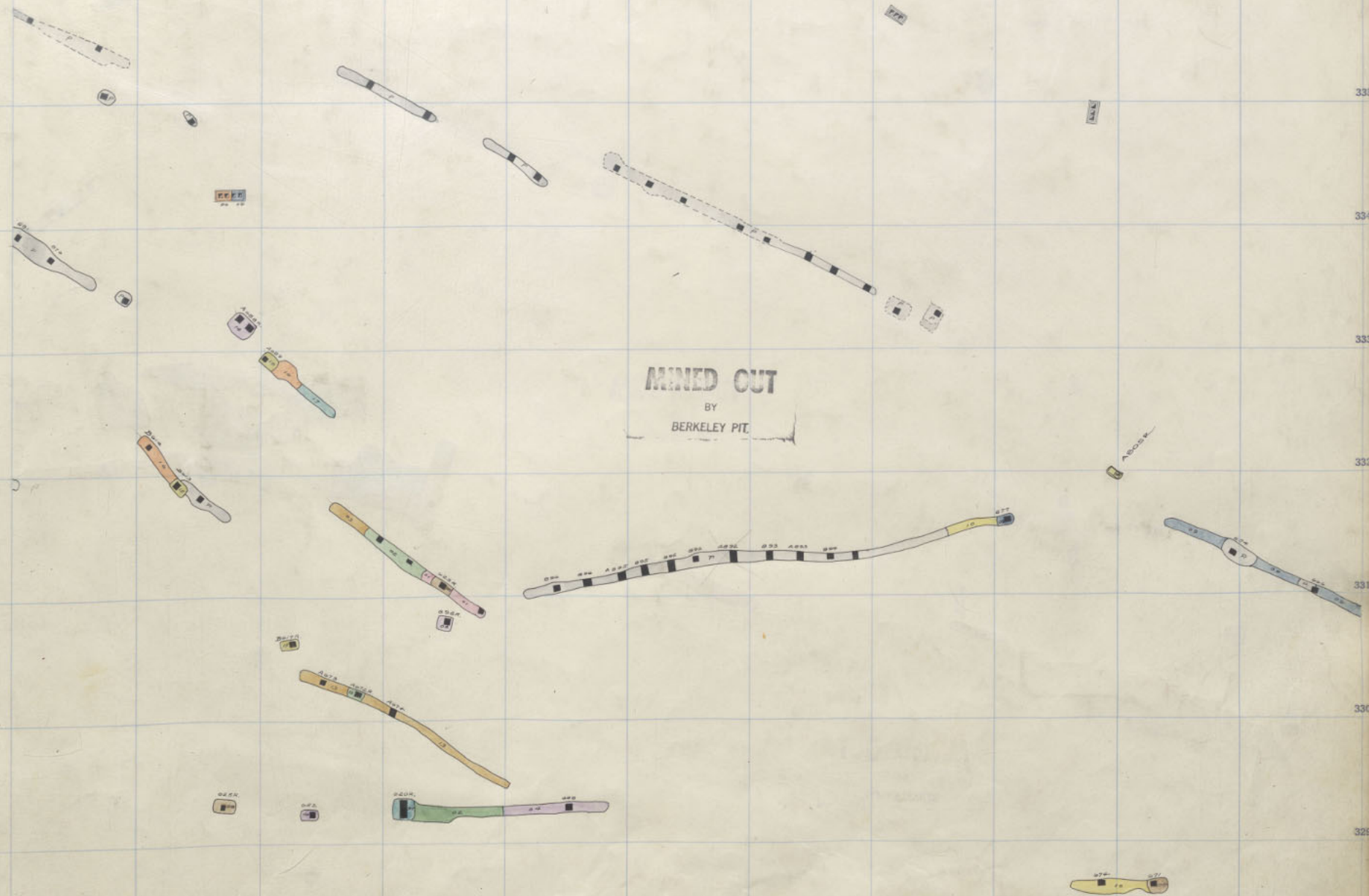
MINED OUT
BY
BERKELEY PIT

5200 LEVEL
7/1/80

St Lawrence 800 21st Fl ELEV 5225

12

333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

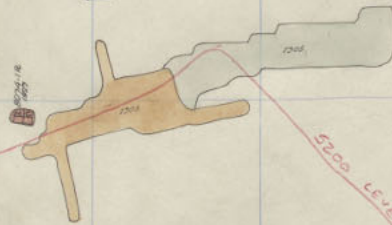
R = 800-2
B = 600-12

6
M-KELLEY
800
700
STL.
1000
STL.

OK
PEN.

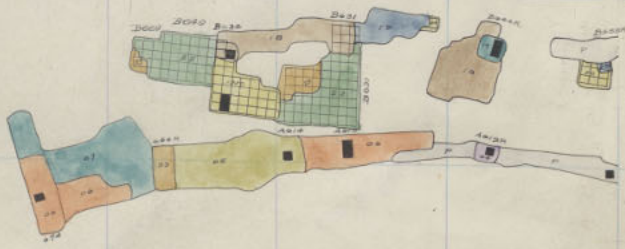
M
31
2
KELLEY
600

335
334
333
332
331
330
329
328



Grant Estn
Shaft

MINED OUT
BY
BERKELEY PIT



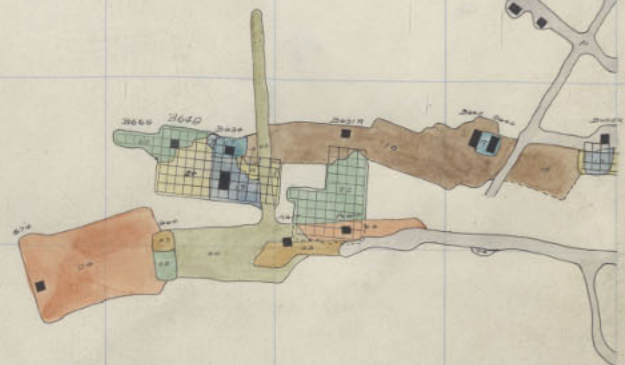
St Lawrence 800 20th Fl Elev. 5215

PENH 600-11

PER

M 31 2
KELLEY
600

5200
BENCH



Gravel
Creek

Gravel
Creek

Gravel
Creek

Gravel
Creek

MINED OUT
BY
BERKELEY PIT.

1211 80

From 600-107100
St Lawrence 800 19th Fl
KELLEY 600
P. 600-10
KELLEY 5210

333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT



6
M. KELLEY
BOOK
700
STL.
8
9
Mt. View
700
1000
STL.
11

PARUS 800 SILL
600-10

PARUS 800 SILL
600-10

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

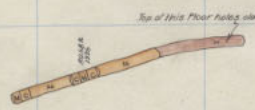
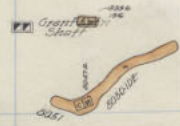
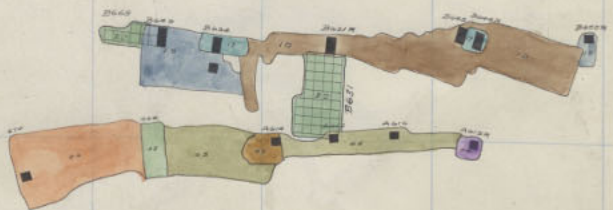
330

329

328

5
PCN

M
31
2
KELLEY
600



MINED OUT
BY
BERKELEY PIT

5200 LEVEL
12/1/82

333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT



R-300-13
B-600-5

6
M. KELLEY
800
700
1000
STL.
Mt. View
700
STL.
335
334
333
332
331
330
329
328

5 PER

KELLEY 600

M 31 2

567 CAVAL 12/1/90

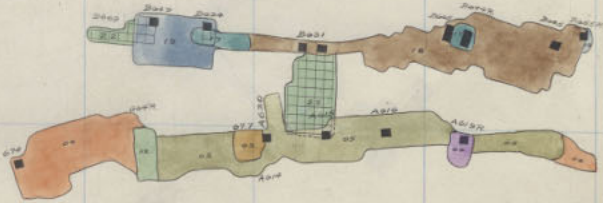
Grant's Shop

MINED OUT

BY
BERKELEY PIT

St Lawrence 800 17th Fl. ELEV 2196

8



333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

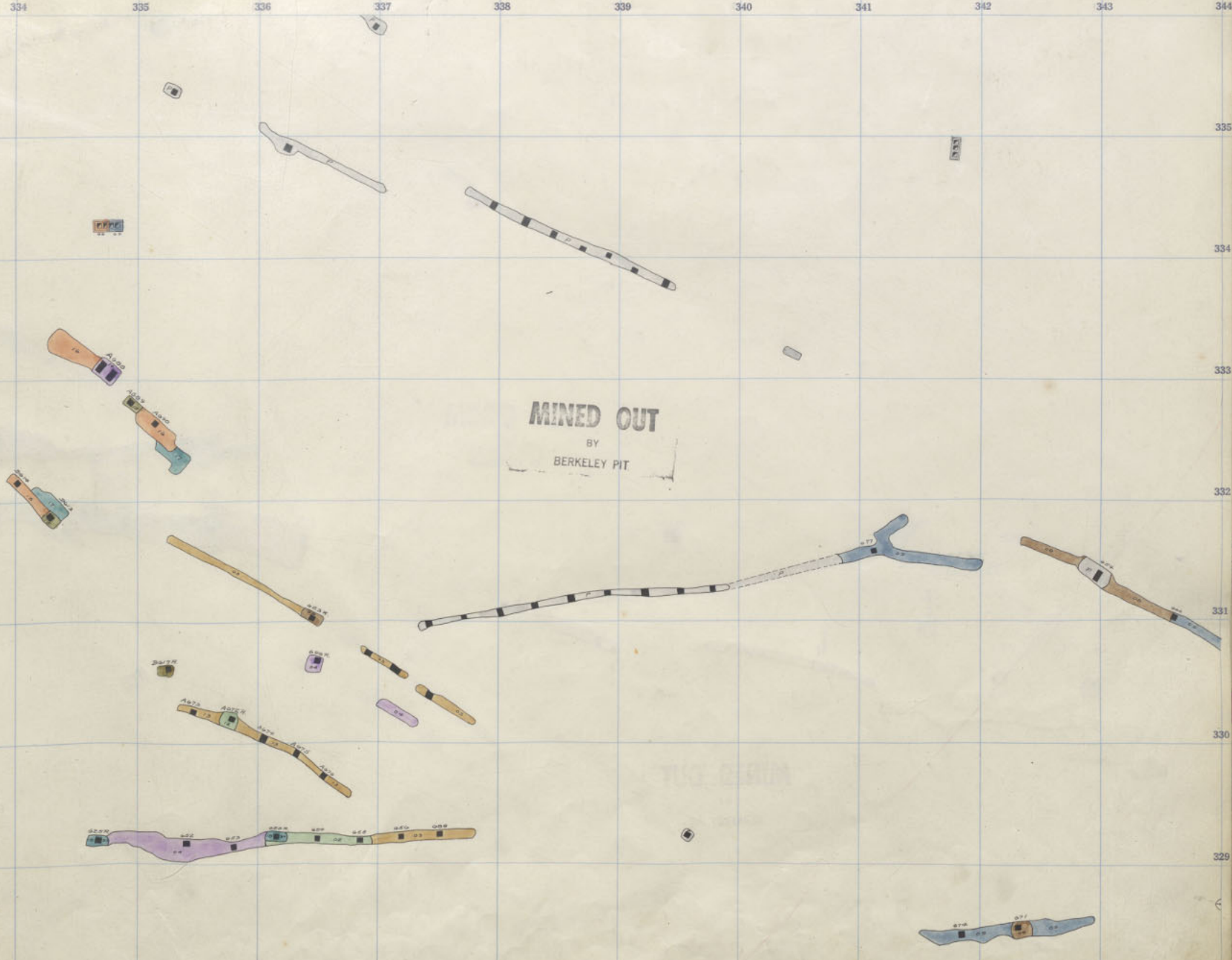
331

330

329

328

MINED OUT
BY
BERKELEY PIT



R- 500-12
B- 600-8

R-500-12
B-600-8

6
M. KELLEY
800
700
1000
STL.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

M
31
2
KELLEY
600

5167 LEVEL 12/1/90

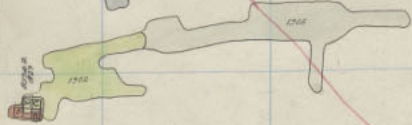
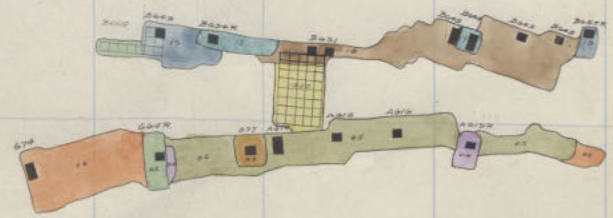
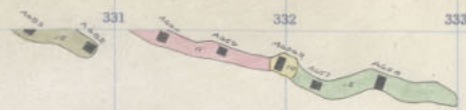
Grant Entry
Sheet 108

ASCON

MINED OUT
BY
BERKELEY PIT

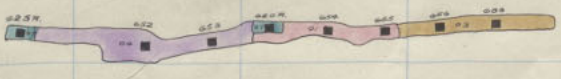
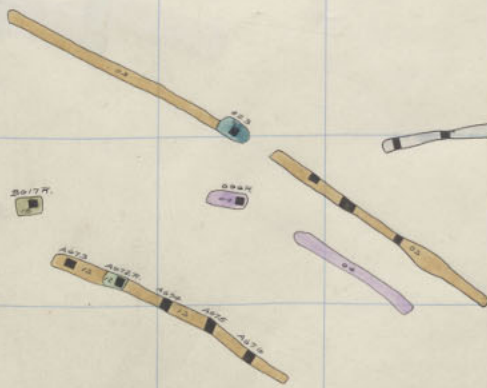
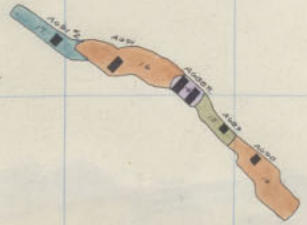
P. 600-7

Penn 800-7th Floor
St Lawrence 800 16th Fl
ELEV 5185



333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT



RP- 300-11
TB- 600-7

Radius 900-11
Dist 100-7

6
1-31
800
KELLEY
335
334
333
332
331
330
329
328
700
STL
700
MT. VIEW
700
1000
STL
E

5 PEN.

335

334

333

332

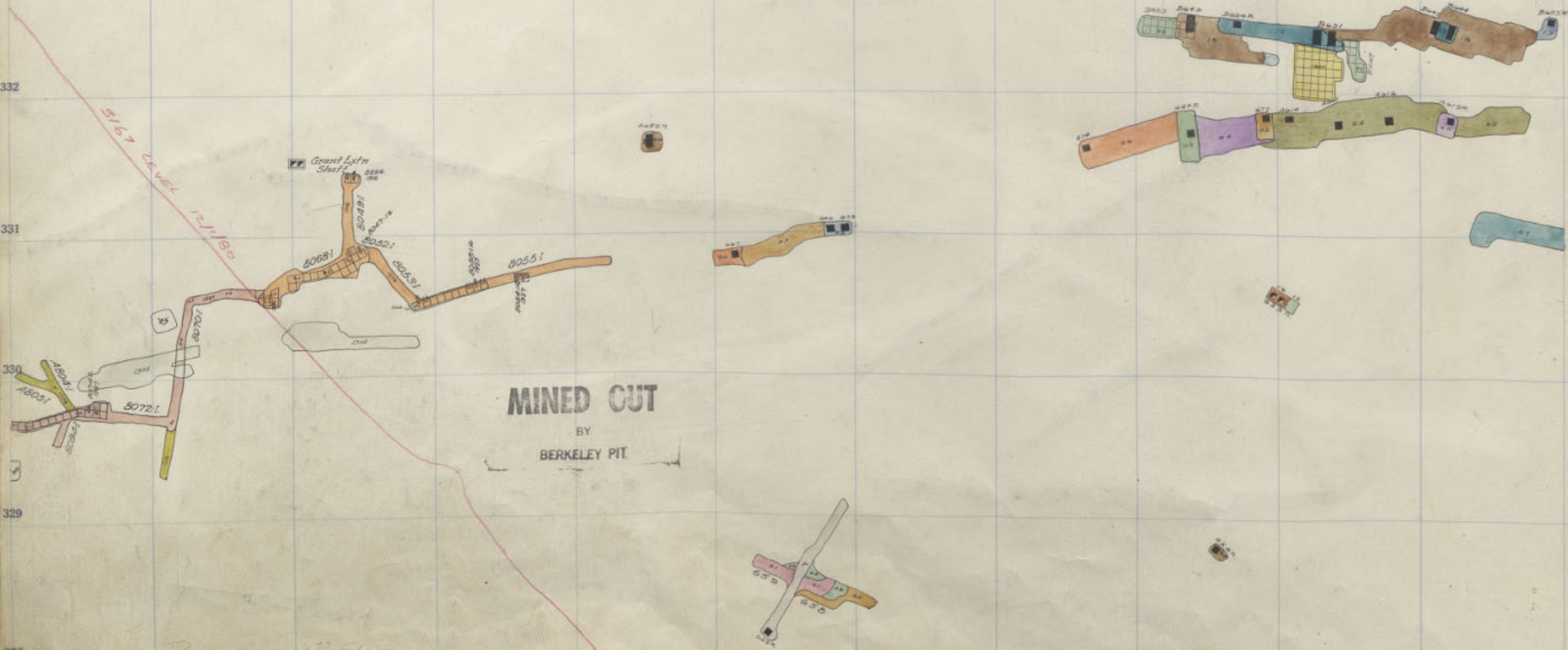
331

330

329

328

M
KELLEY
600
31
2



MINED OUT
BY
BERKELEY PIT.

P. 600-G

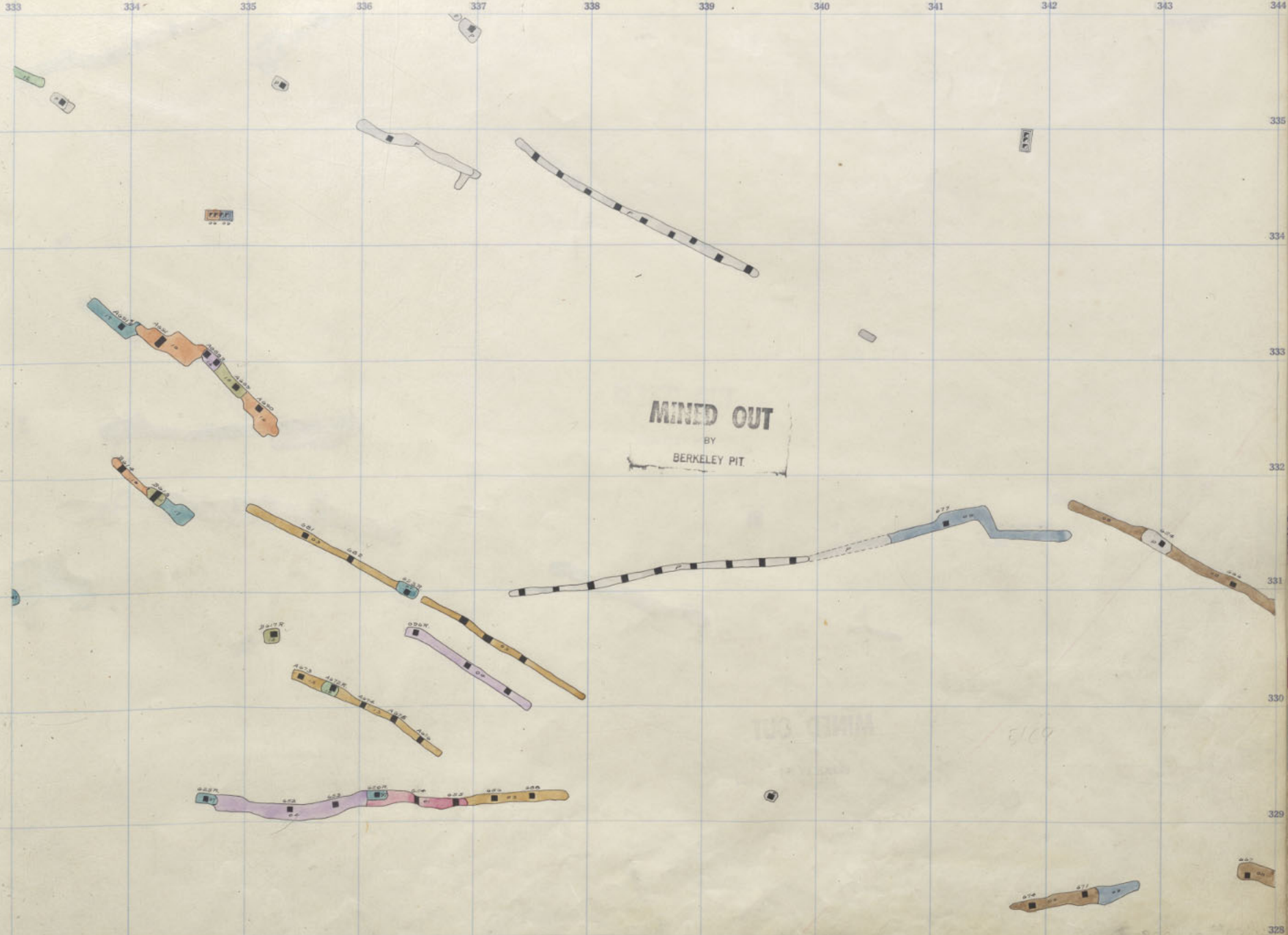
St Lawrence 800 15th Fl. ELEV 5181

P. 600-G

333 334 335 336 337 338 339 340 341 342 343 344

6 P.L.
1-31
800
M. KELLEY
341
700
STL.
7
331
330
Mt. View
700
1000
STL.
329
328

MINED OUT
BY
BERKELEY PIT



R-500-10
B-600-6

674 675 676 677 678 679 680

681 682 683 684 685 686 687 688 689 690

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

A 780

SIC LEVEL 211/100

Grand Extn Shaft

MINED OUT
BY
BERKELEY PIT

P. 600-5

St Lawrence 800-14th Fl ELK 5174
700-5111

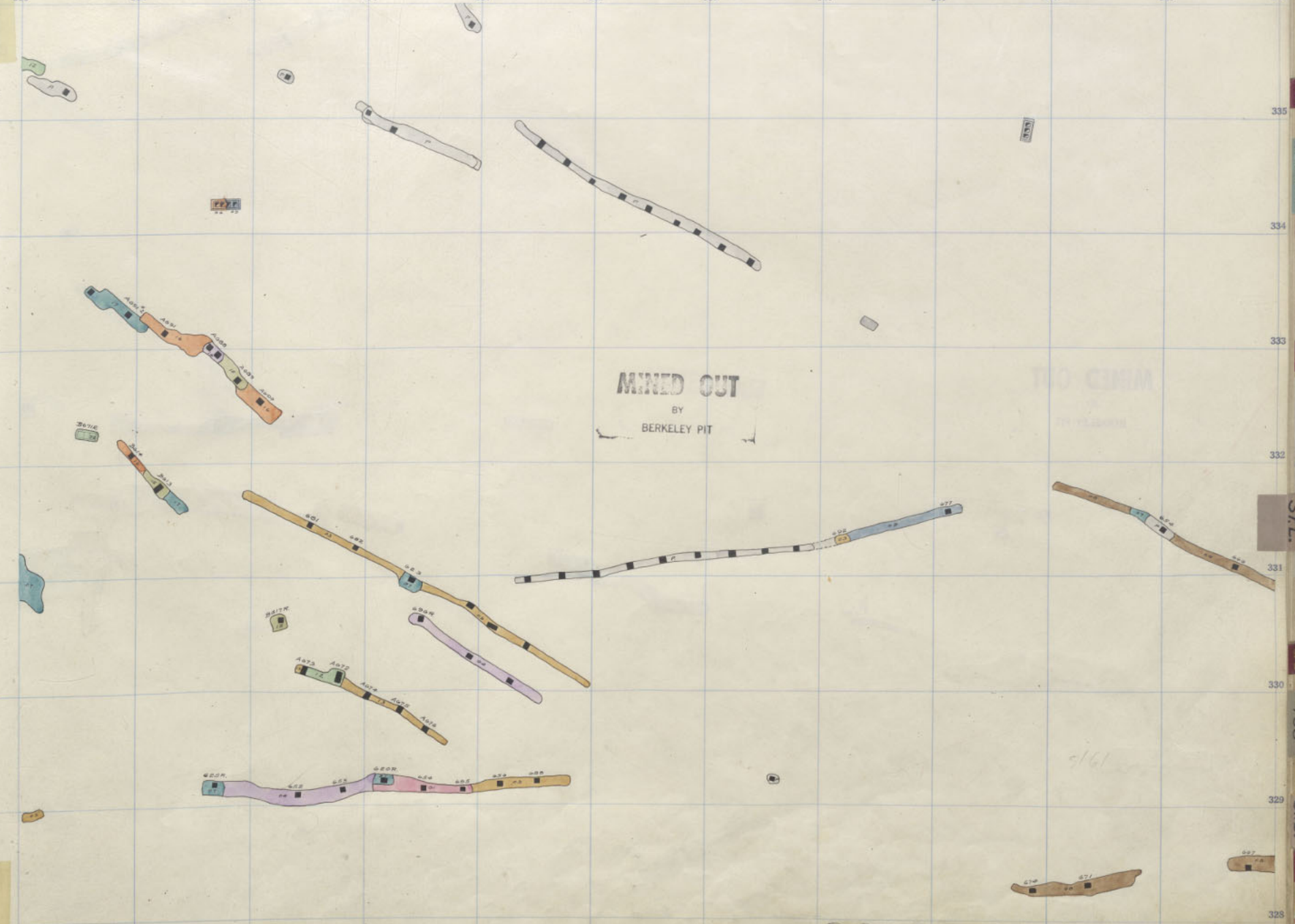
M
31
2
KELLEY
600

5
PEN.



333 334 335 336 337 338 339 340 341 342 343 344

6
M. KELLEY
BOOK
700
STL.
1000
STL.
Mt. View
700



MINED OUT
BY
BERKELEY PIT

A- 500-5
B- 600-5

5/6/1

MINED OUT
BY
BERKELEY PIT

5167 LEVEL 12/1/80

Grand Ledge
Shaft

KELLEY 600
31
700
STL

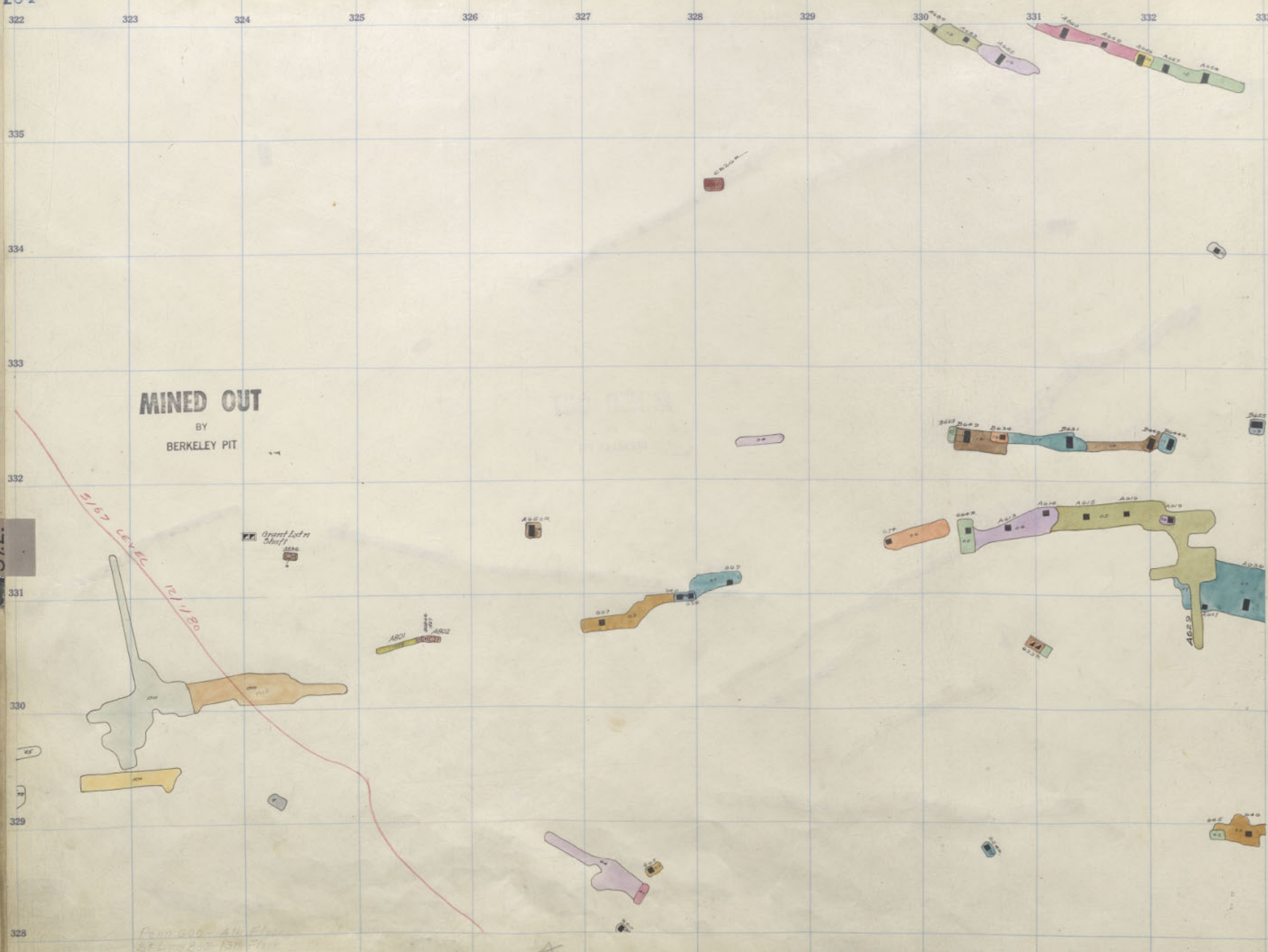
St Lawrence 800 13th Fl ELEV 5166

KELLEY

From 800 - All Fls
STL 2.0-13th Fl

128-53

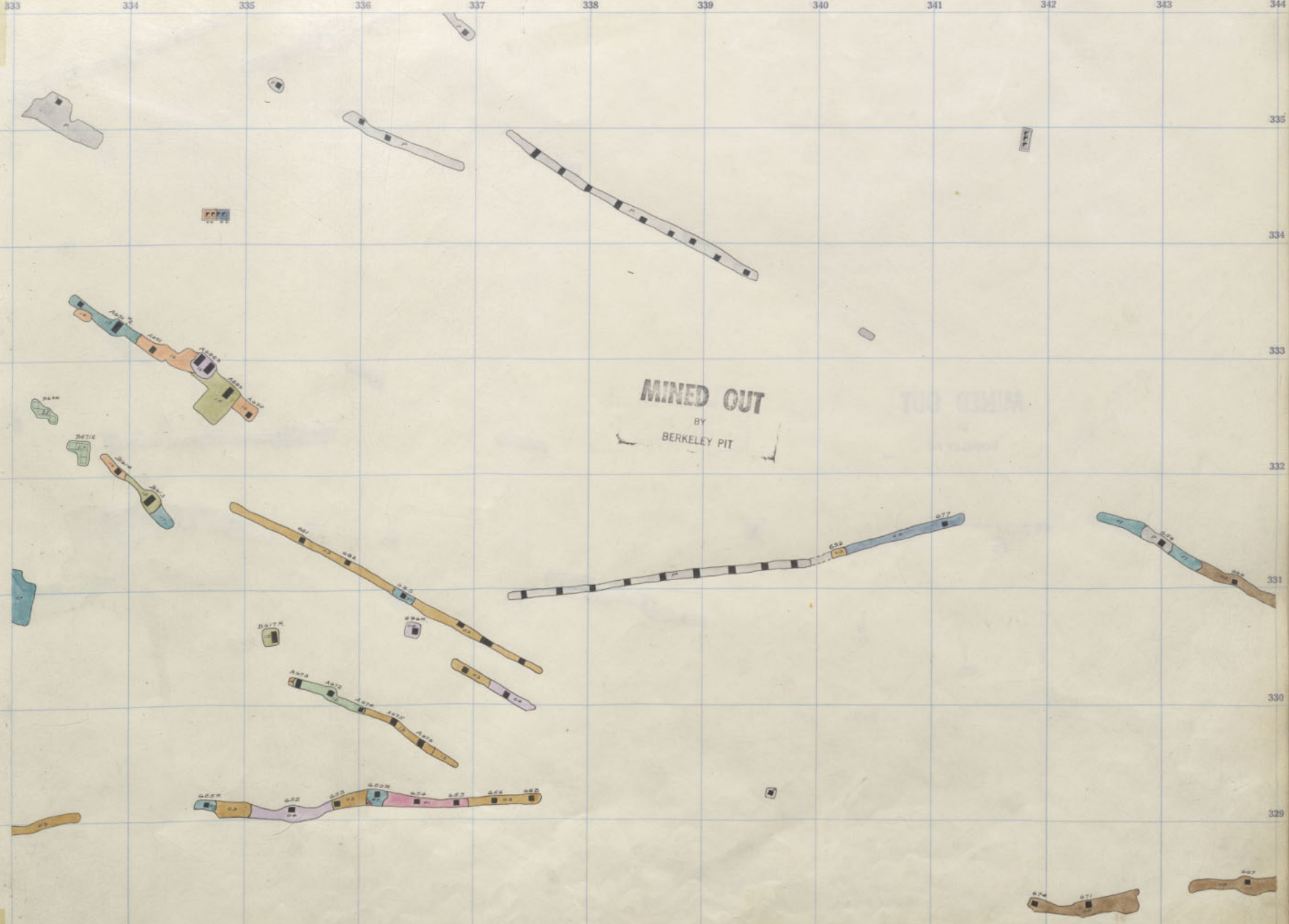
4



333 334 335 336 337 338 339 340 341 342 343 344

335
334
333
332
331
330
329
328

MINED OUT
BY
BERKELEY PIT



R-300-8
B-600-4

Range 300-84 ft
Block 600-4

6
M. KELLEY
BOOK
1000
ST.L.
Mt. View
700

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

MINED OUT BY BERKELEY PIT

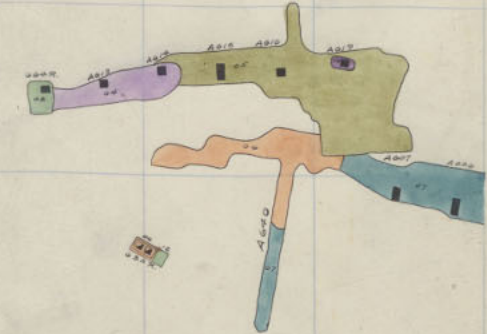
5100 LEVEL

Open Extension
Shaft

AGOR

AGOR

AGOR



KELLEY 600
31
700
57.1

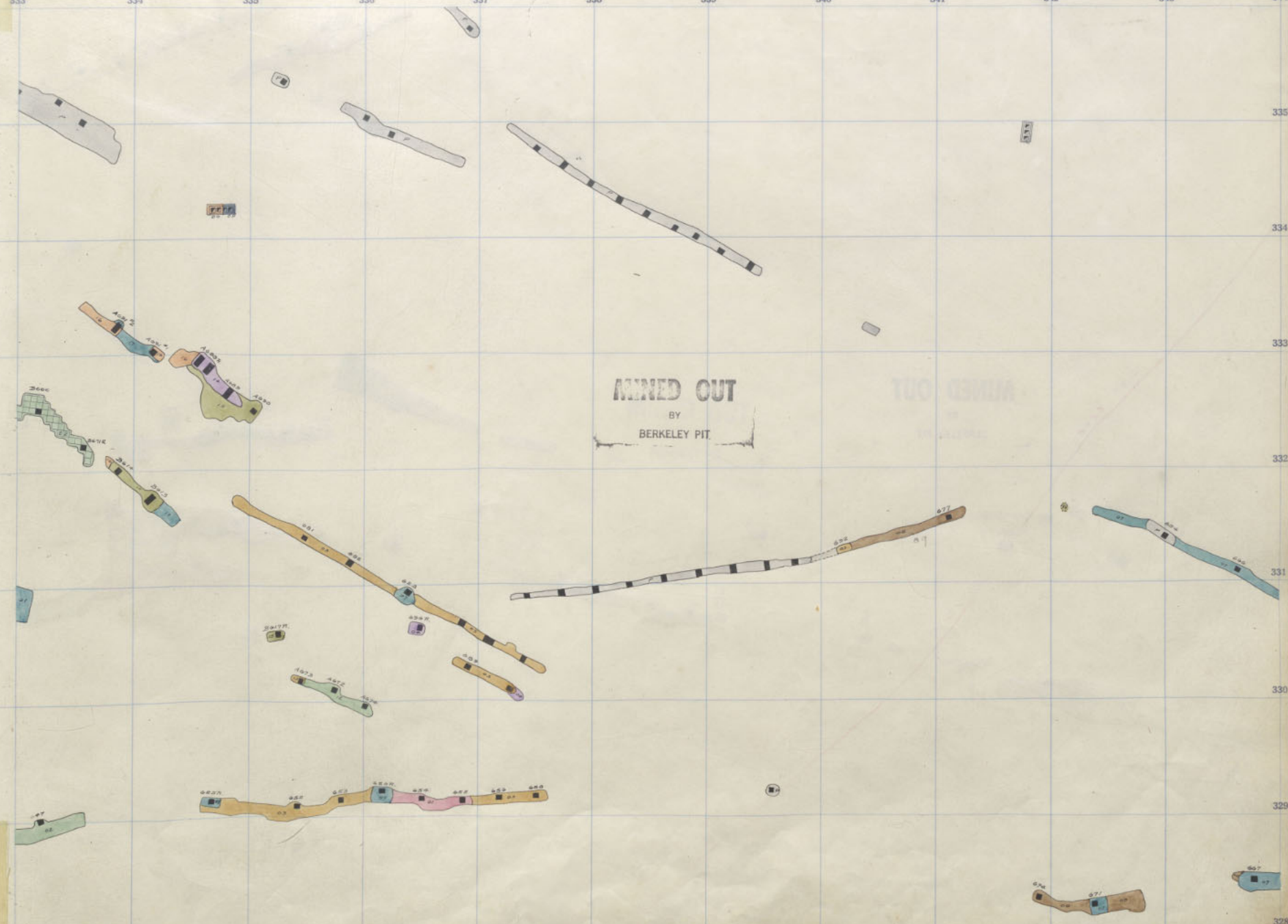
St. Lawrence 800 12th Fl ELEV 5159

Pool 3

Plan 505-200

KELLEY 600 105-22

333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

R-500-7
B-600-3

Range 500-71, Cross
Mountains

6
M-31
KELLEY
BOOK
1000
S.F.L.
Mt. View
700

MINED OUT
BY
BERKELEY PIT

5700 LEVEL

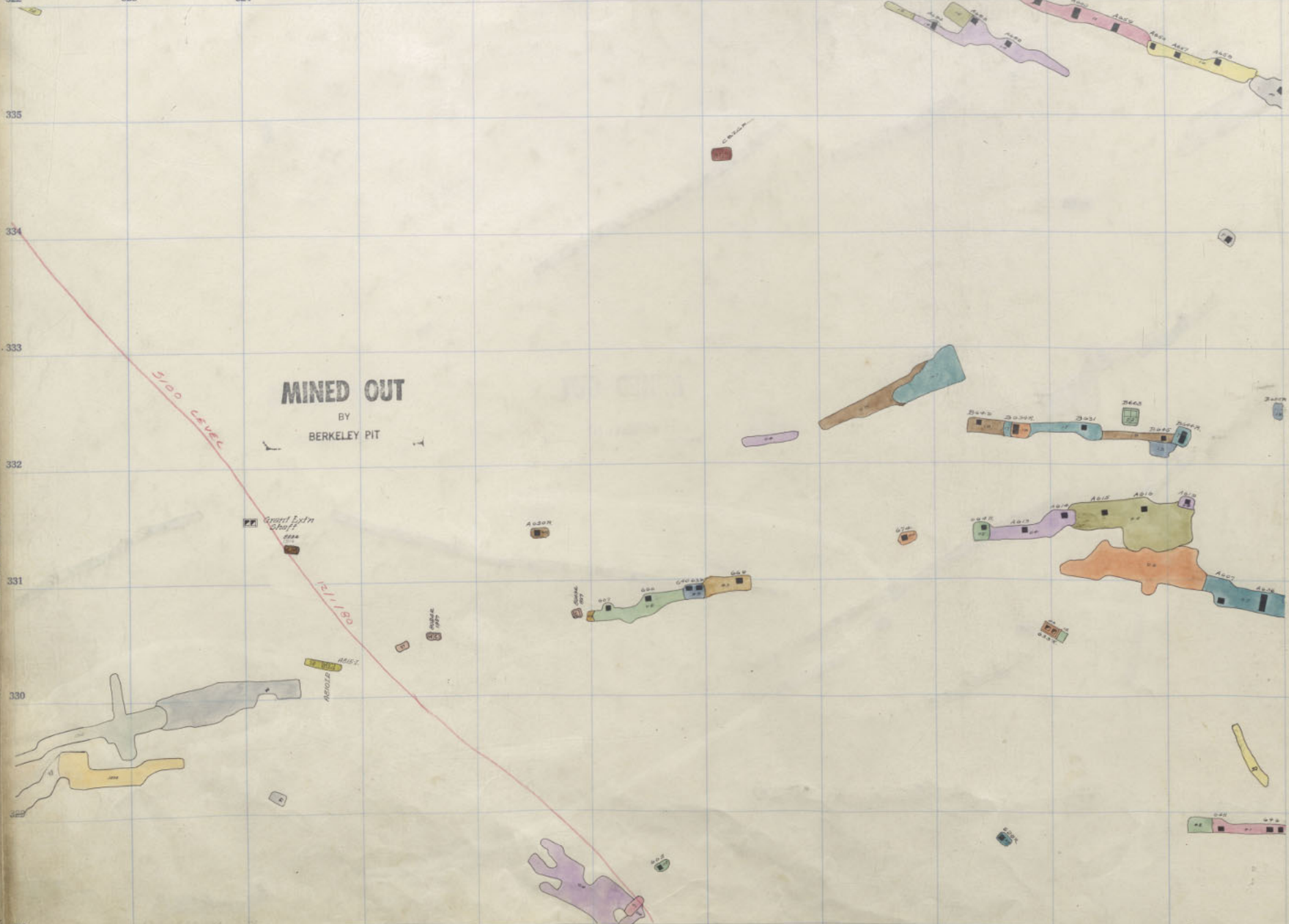
Great Extn
Shaft

AROLD
AROLD

P. 600-V

St Lawrence 800 11th Fl ELEV 5152

KELLEY 600
31
200 ST.L.



333 334 335 336 337 338 339 340 341 342 343 344

6
ft.

M. KELLEY
800

335

334

333

332

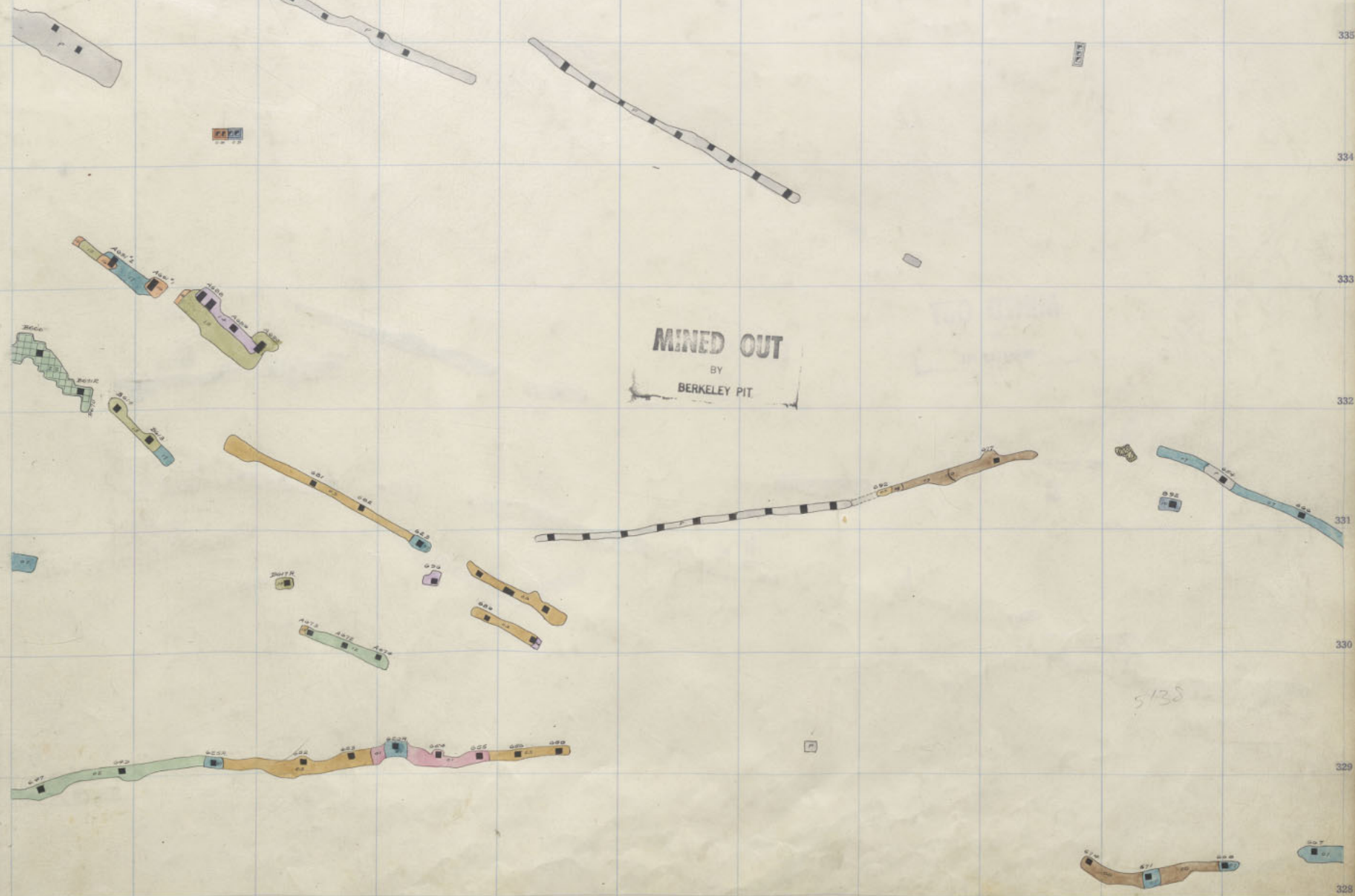
331

330

329

328

1000
S.F.L.



MINED OUT
BY
BERKELEY PIT

5130

R-500-0
B-600-111

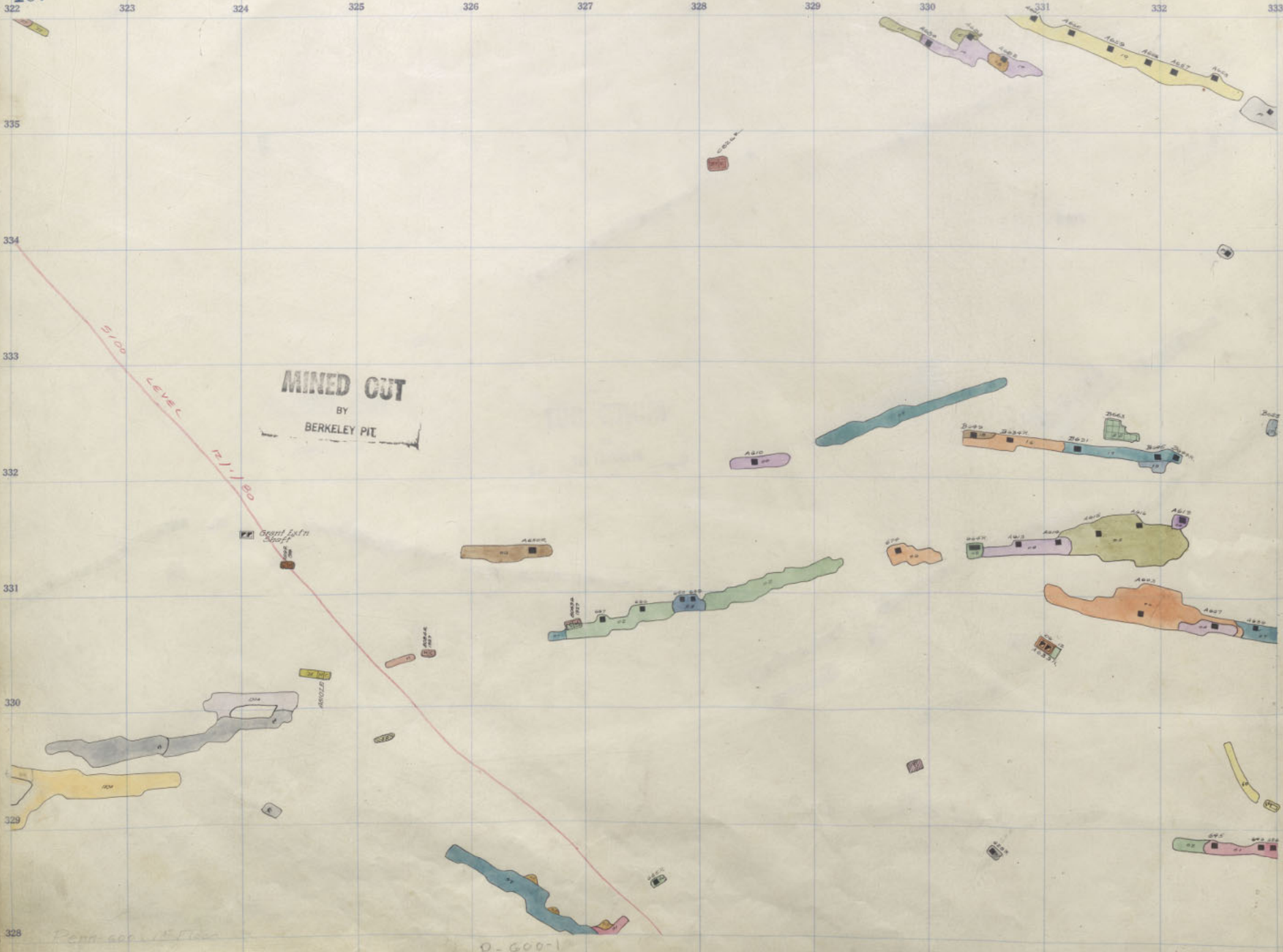
Notes 500-5 Floor

KELLEY 600
31
2
700
STL.

5100
LEVEL
12.1.1900

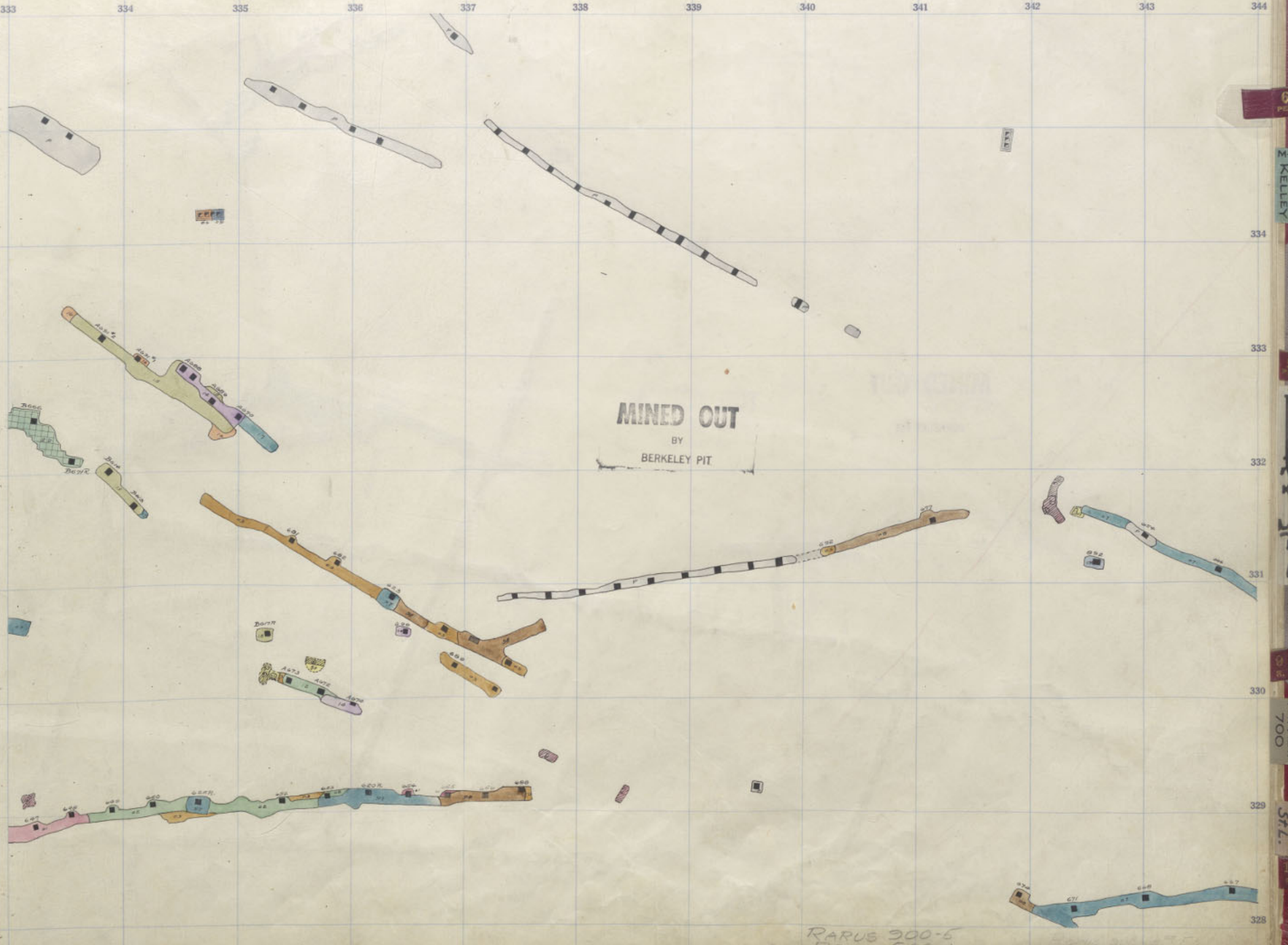
MINED OUT
BY
BERKELEY PIT

Dept. of
Mines



333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT



RARUS 300-5
BERK. 000-1

6
POL
1-1
KELLEY
800
334
333
332
331
330
329
328
1000
S.F.L.
Mt. View
700

MINED OUT

BY
BERKELEY PIT.

500 LEVEL 12/1/80

Grand Extn Shaft

KELLEY 600
31
700 STL.



PEN I - 400-10-01

PEN II 600-5111

St Lawrence 800 9th Fl ELEV 5137

745-12

5 PEN

6 PEN

333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

PENN 600 SILL
BANK 600
KARDS 300-4

800
M. KELLEY
334
333
332
331
330
329
1000
S.F.L.
Mt. View
700

5 PEN.

6 PEN.

11 KELLEY 600
31
2 700 ST.L.

335

334

333

332

331

330

328

5100 LEVEL 12/1/80

MINED OUT
BY
BERKELEY PIT

Grant's shaft

WATER

727R

728R

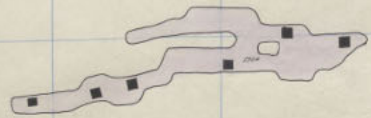
729R

722R

727R

St Lawrence 800 8th Fl ELEV 5130

P. 100-13



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335
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330
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328

1-800
M. KELLEY

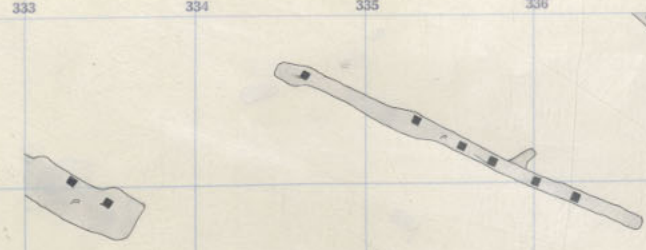
341

MOUNTAIN

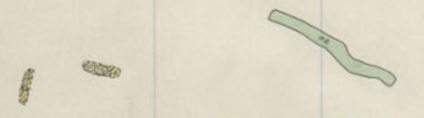
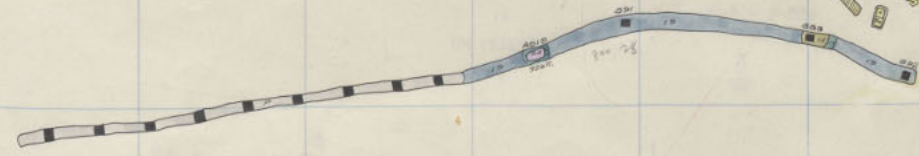
341

Mt. View
700

1000
S.T.L.



MINED OUT
BY
BERKELEY PIT



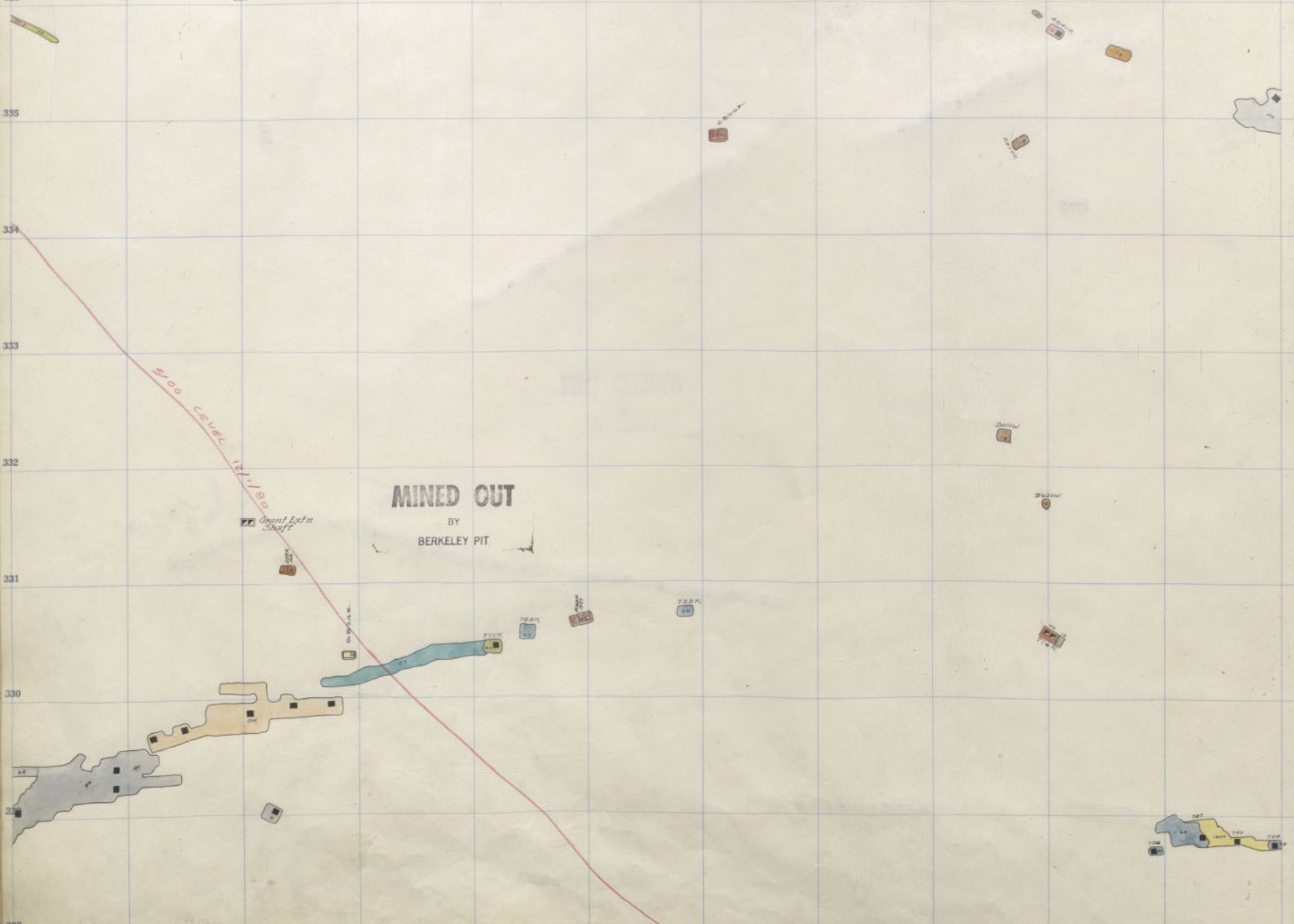
R-900-3

Paris 900 2500

5 PEN.

6 PEN.

KELLEY 600
31
700 STL.



333 334 335 336 337 338 339 340 341 342 343 344

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333
332
331
330
329
328

1-800
M. KELLEY

311

1000
S.F.L.

32

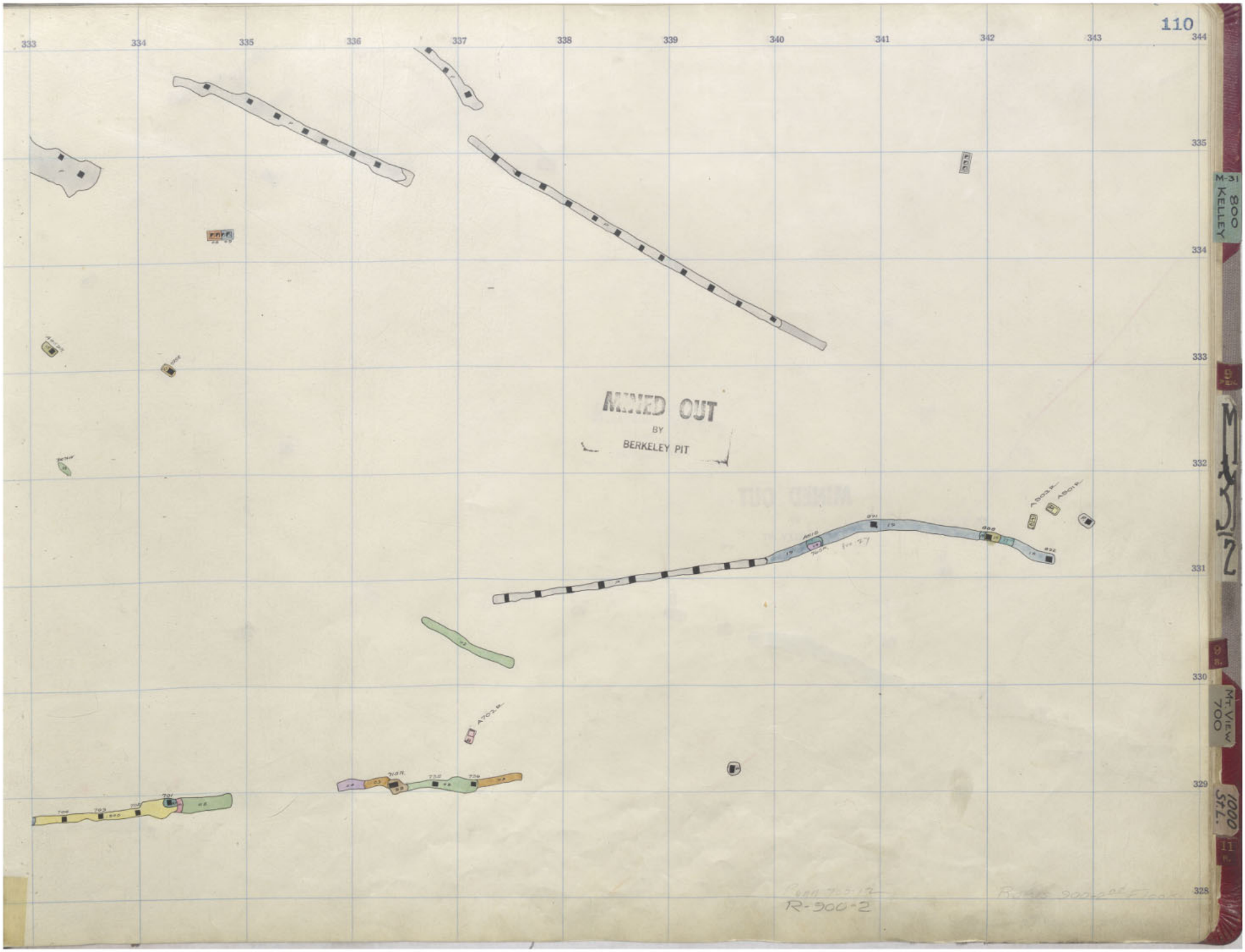
MT VIEW
700

1000
S.F.L.

328

MINED OUT
BY
BERKELEY PIT

TUCUMCACA



R-500-2

Scale 1:5000

5 PEN.

6 PEN.

KELLEY 600
31
700 STL.



MINED OUT
BY
BERKELEY PIT

SIDE LEVEL
121/180

Opent Ext n Shaft

Disturb.

725L

726R

727R

728R

Disturb.

Disturb.

Disturb.

735R 736R 737R 738R 739R 740R

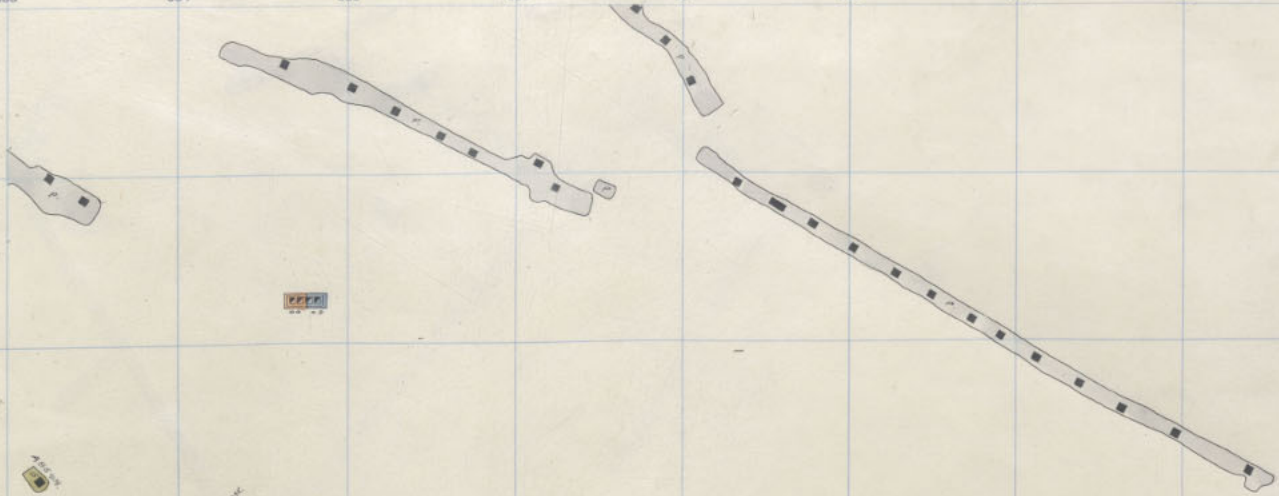
Penn 600-11' floor

St Lawrence 800 6th Fl ELEM 5115
Kelley 1916

333 334 335 336 337 338 339 340 341 342 343

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329
328

MINED OUT
BY
BERKELEY PIT



W. J. ... - 900-11

Plan 900-11

800
KELLEY
Mt. View
700
1000
S.F.L.

322 323 324 325 326 327 328 329 330 331 332 333

5 PEN

6 PEN

KELLEY 600
31
700 STL.

335

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327

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324

323

322

5100 LEVEL
12.1.30

MINED OUT
BY
BERKELEY PIT

Geant Extra Shaft

750

750

750

750

750

750

750

750

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750

750

PEHN 700-1000 FT

PEHN 700-10

St Lawrence 800 5th Fl ELEV 5108

KELLEY 600

700 STL

31

5 PEN

6 PEN

322 323 324 325 326 327 328 329 330 331 332 333

335

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322

5100 LEVEL

12.1.30

MINED OUT BY BERKELEY PIT

Geant Extra Shaft

750

750

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333 334 335 336 337 338 339 340 341 342 343 344



MINED OUT
BY
BERKELEY PIT

RARUS- 900- SILL
PENN 700- 10

335
334
333
332
331
330
329
328

1000 FT
ST.L.
MT VIEW
700
OR B
D.H.
E. KELLEY
800

Range 900 level

322 323 324 325 326 327 328 329 330 331 332 333

5 PEN

6 PEN

335

334

333

332

331

330

329

328

5100 LEVEL

MINED OUT

BY
BERKELEY PIT

Grant Extn Shaft

To level 1

712

713

714

715



12/1/80

P=700-9

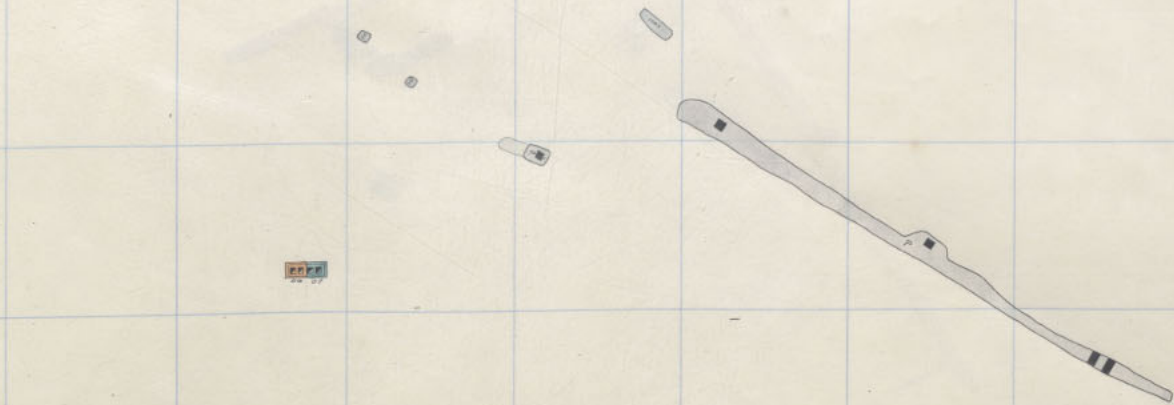
KELLEY 600
700 ST.L.

P. 8

KELLEY 600
St Lawrence 800 4th Fl ELEM 5100



MINED OUT
BY
BERKELEY PIT



R. 1000-18
PENN 700-9

Parva 1000-18

800
M. KELLEY

1000

1000
ST.L.

Mt. VIEW
700

1000
ST.L.

328

1800
E. KELLEY

333

332

331

330

329

328

1000
ST.L.



MINED OUT
BY
BERKELEY PIT



P-700-8
R-1000-17

R-1000-17

5 PEN

6 PEN

KELLEY 600

700 ST.L.

3-00

MT. VIEW 700

MINED OUT

BY
BERKELEY PIT

5067
LEVEL 12/1/80

Grant Extn Shaft

768

769

767

766

765

764

770

771

772

773

774

760

761

762

763

764

765

705

706

707

708

709

710

Kel 800-14

Feet 725-710

St Lawrence

800 2nd Fl ELEV 5886

7

333 334 335 336 337 338 339 340 341 342 343 344

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332
331
330
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328

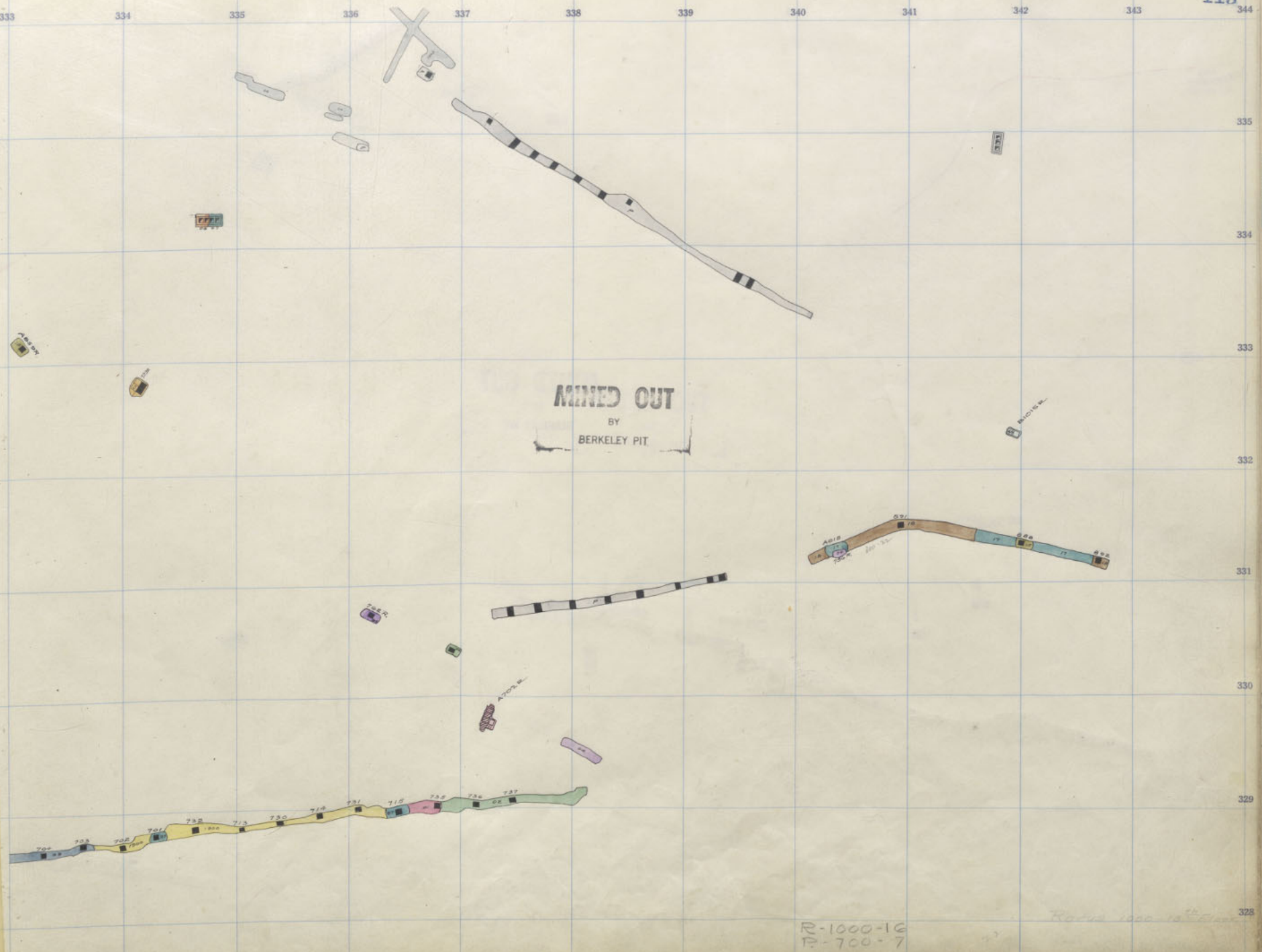
1000
E. KELLEY

1000

1000
E. KELLEY

1000
E. KELLEY

MINED OUT
BY
BERKELEY PIT



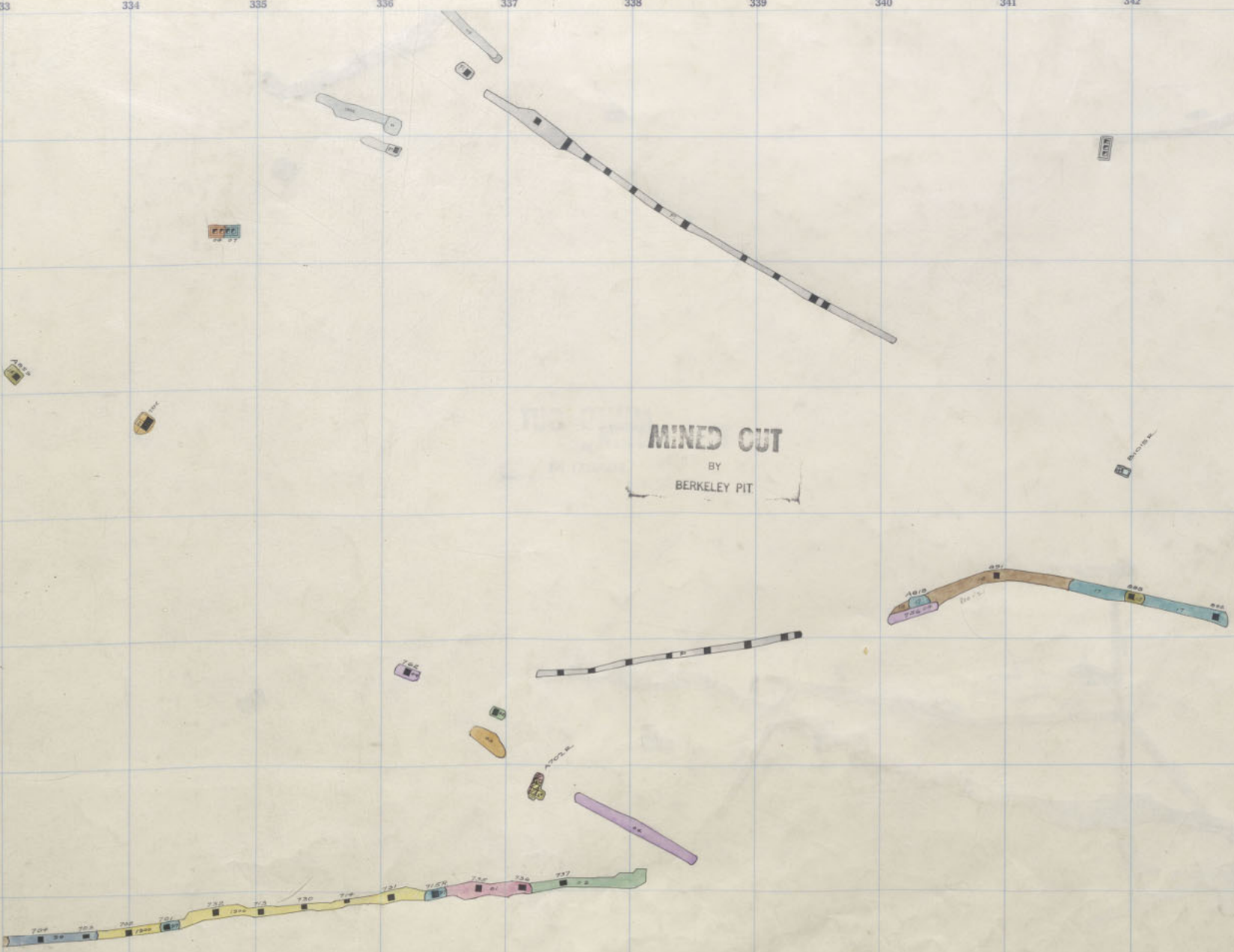
R-1000-16
P-700-7

Radius 1000 ft

333 334 335 336 337 338 339 340 341 342 343

335
334
333
332
331
330
329
328

MINED OUT
BY
BERKELEY PIT



RARUS PENN 1000-15
700-6

1000
ST.L.
M KELLEY
BOOK

322 323 324 325 326 327 328 329 330 331 332 333

5 PEN.

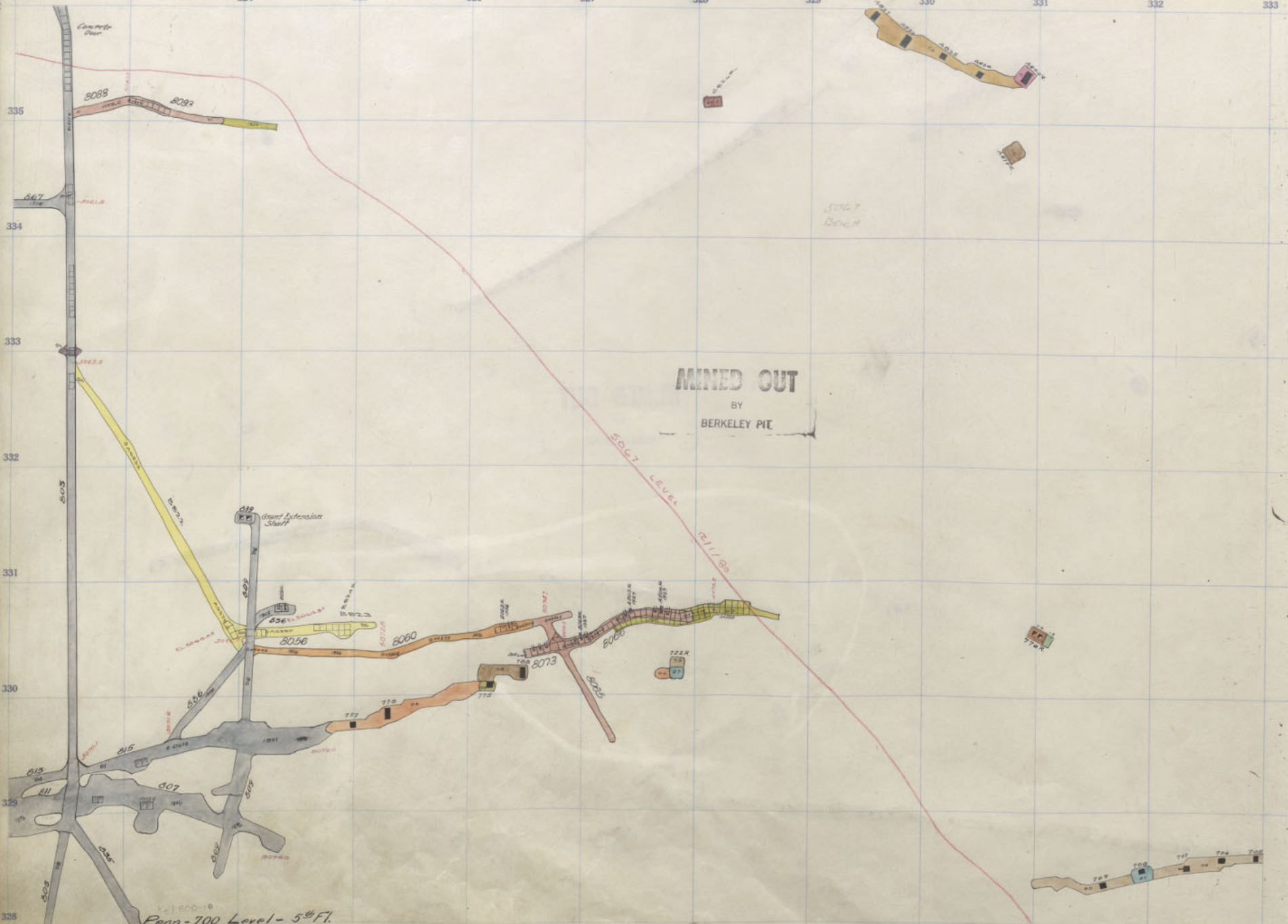
6 PEN.

600

700 ST.L.

700

MT VIEW 700



Penn-700 Level - 5th Fl.
St. Law. 800 Level - 511

PENN 700-5

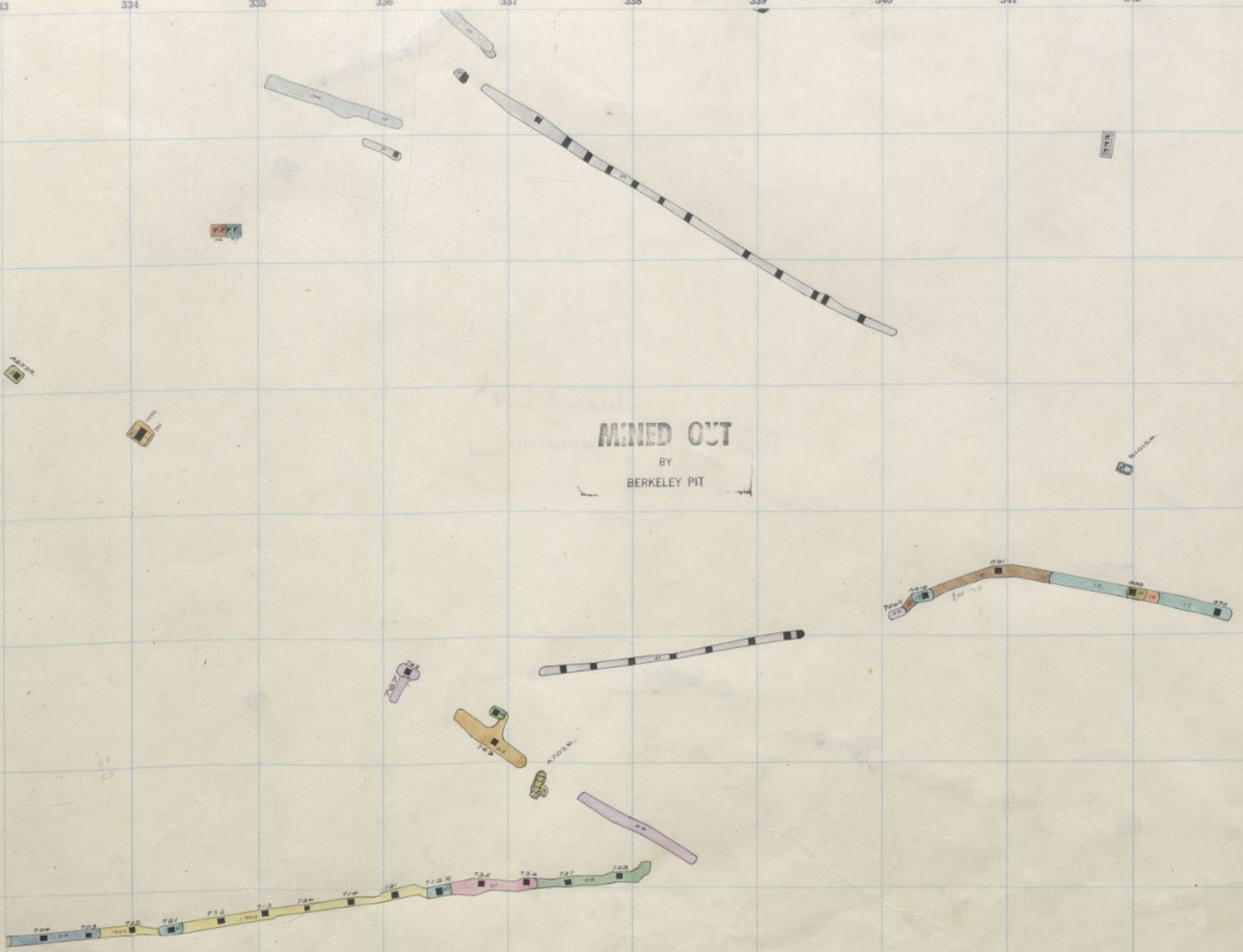
333 334 335 336 337 338 339 340 341 342 343 344

335
334
333
332
331
330
329
328

BOOK
E. KELLEY

1000
ST.L.

MINED OUT
BY
BERKELEY PIT



TR = 1000-14
D = 700-5

Range 1000-14th Fl.

322 323 324 325 326 327 328 329 330 331 332 333

5 PEN

6 PEN

335

334

333

MINED OUT

BY BERKELEY PIT

50 33 LEVEL 12-1-180

332

Great Egin Shaft

331

Worked from 800 310 St. Law

330

700 St.L.

700

329

328

St Lawrence 1000 25th Fl (rep) - 300-13 ELEV 606

700-A-11

600

700 St.L.

700

700

700

700

700

700

700

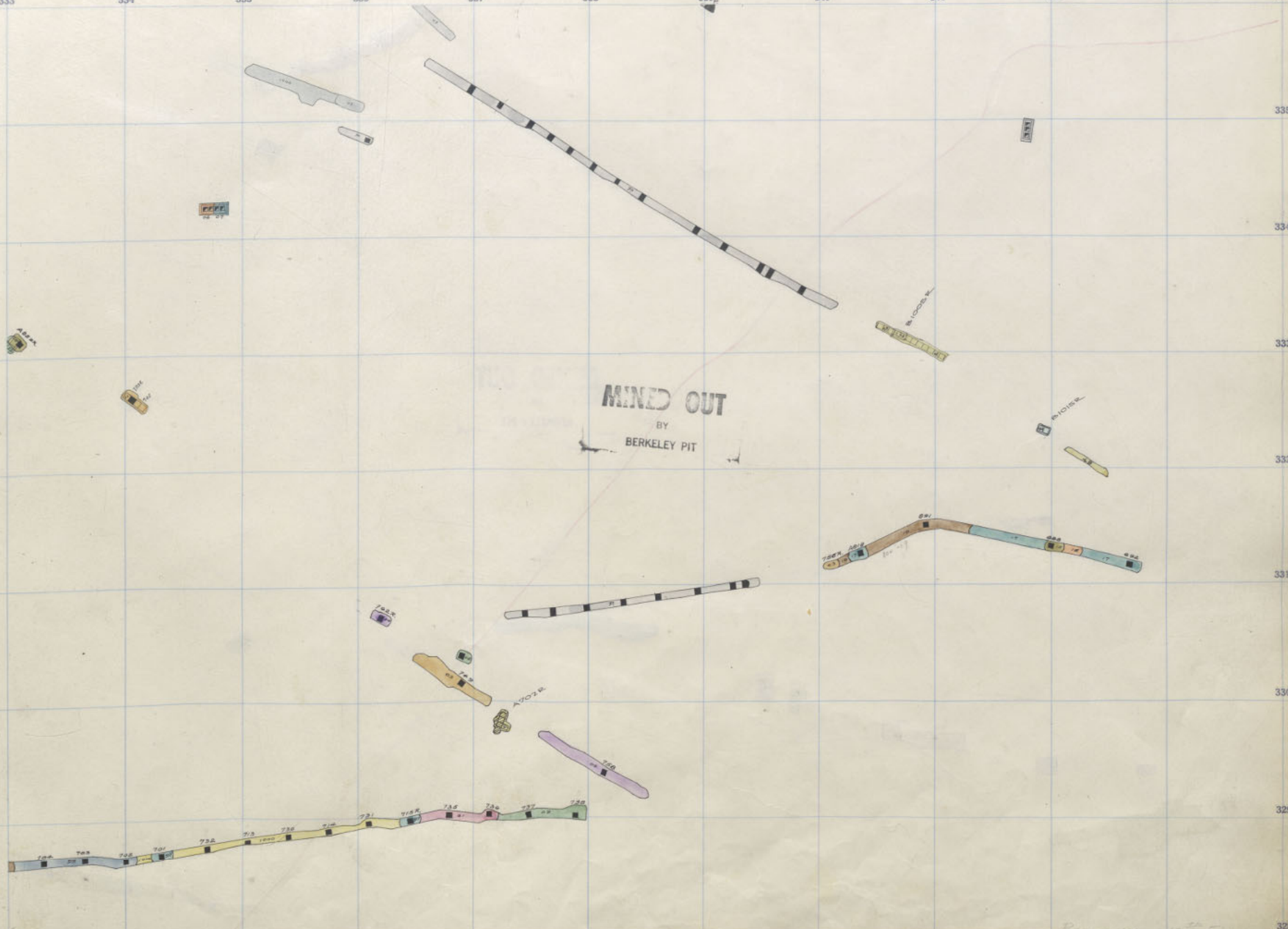
700



333 334 335 336 337 338 339 340 341 342 343 344

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333
332
331
330
329
328

MINED OUT
BY
BERKELEY PIT



70
11
403

Placed 1920 - 19th E. 1000

1000 FT. S.F.L.
M. KELLEY

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

5
PEN

6
PEN

ALLEY
600

700
ST.L.

710

MT-VIEW
700

Grant Extn
Shaft

MINED OUT
BY
BERKELEY PIT

6033 LEVEL
12/1/80

A 362-128

775N

780N

788N

777

779

778

774



KOLLEY BLANK
PENN 100-3rd Floor

St Lawrence 1000 25th Fl - 900-12 ELEV. 3060

700-3rd

333 334 335 336 337 338 339 340 341 342 343 344

335
334
333
332
331
330
329
328

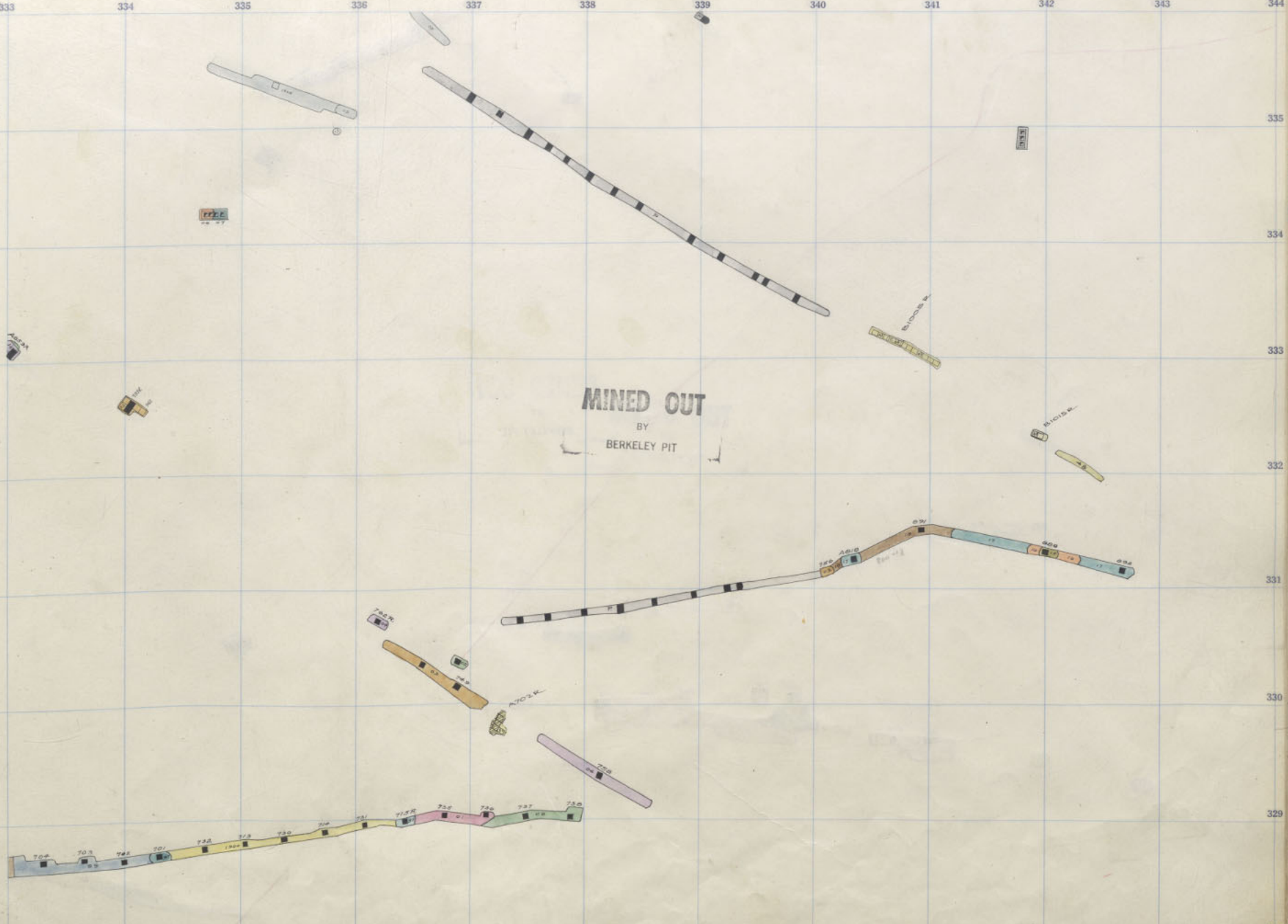
1-3
M. KELLEY

1000

ST. L.

1000
ST. L.

MINED OUT
BY
BERKELEY PIT



P=700-3
R=1000-12

Boards 1000-12
Kelley 2000

5 PEN

6 PEN

VALLEY 600

700 ST.L.

P.O.

MT. VIEW 700

335

334

333

332

331

330

329

328

Grant Ex'n Shaft

MINED OUT

BY BERKELEY PIT

5033 LEVEL 12/1/80

1942 I.D.S.



St Lawrence 1000 24th PI - 900-11 ELEV. 50.62

700-2 m

333 334 335 336 337 338 339 340 341 342 343 344

335
334
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332
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328

M-KELLEY

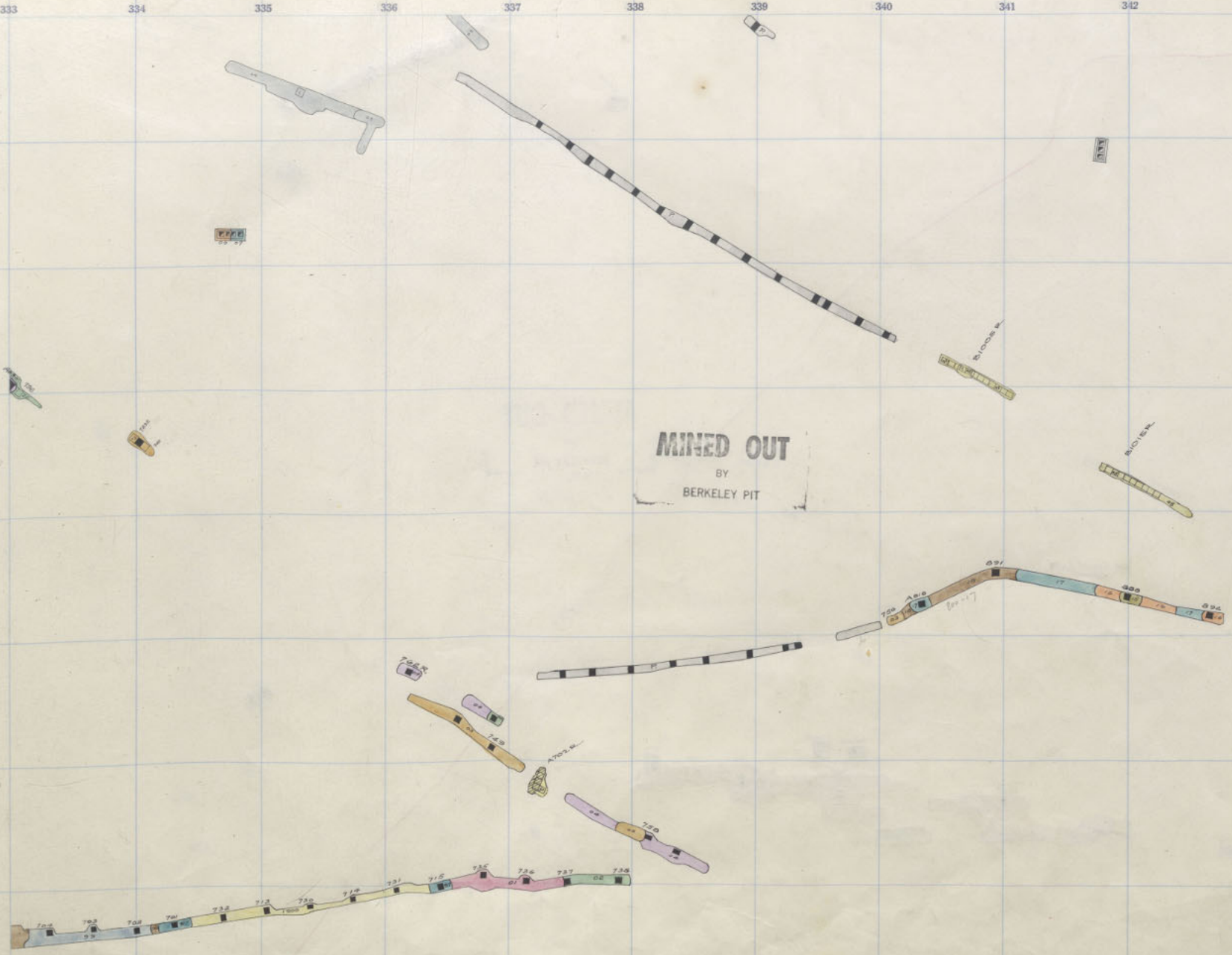
1000

ST. L.

1000

325

MINED OUT
BY
BERKELEY PIT



P = 700-2
R = 1000-11

with 100-111

322 323 324 325 326 327 328 329 330 331 332 333

5 PEN

6 PEN

335

334

333

332

331

330

329

328

VALLEY 600

700 S.T.L.

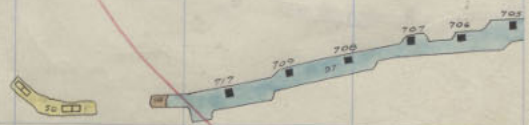
P. 00

MT-VIEW 700

Grant Exdn Shaft

MINED OUT BY BERKELEY PIT

5033 LEVEL 151180



St Lawrence 1000 23rd Fl ELEV 5045

700-1

333 334 335 336 337 338 339 340 341 342 343 344

335
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332
331
330
329
328

MINED OUT
BY
BERKELEY PIT



DT 1000-10
700-1

Blue Map

Barus 1000-10

1000
STL.
KELLEY

1000
STL.
KELLEY

1000
STL.
KELLEY

322 323 324 325 326 327 328 329 330 331 332 333

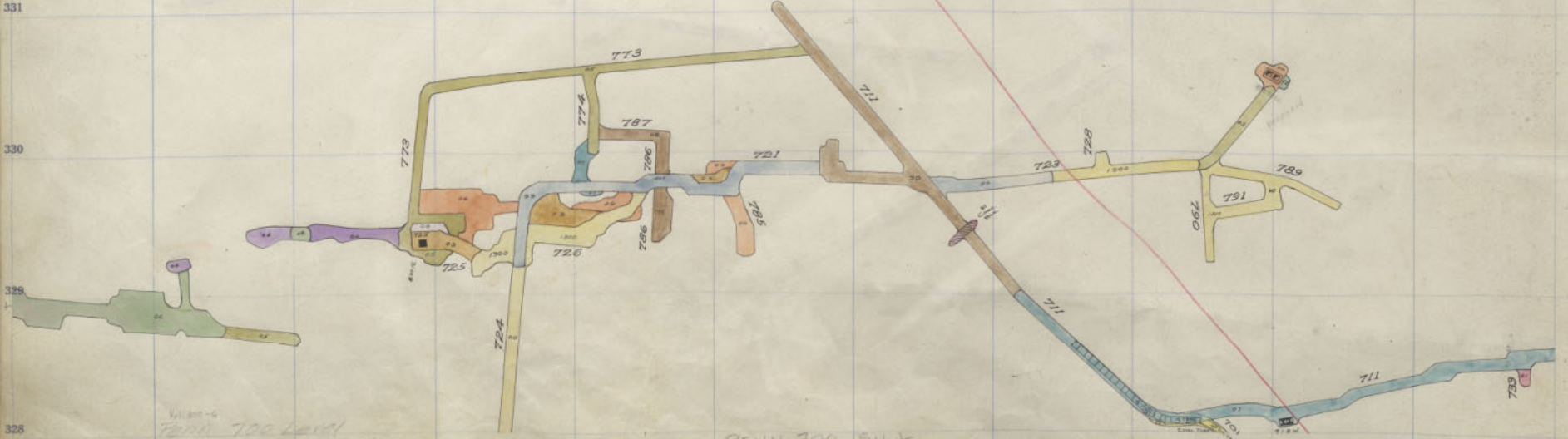
5 PEN

6 PEN

KELLEY 600
31
700
STL

P. 30

MT-VIEW 700



MINED OUT
BY
BERKELEY PIT

Grant Ex'n
Shaft

PENN 700 SILL

St Lawrence 1000 22nd Fl ELEV 6037
Vill. 1000-6
7000 700 Level
St Lawrence 1000 22nd Fl

322 323 324 325 326 327 328 329 330 331 332 333

25 PER

6 PEN

335

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KELLEY 600

31

700 STL.

30

MT. VIEW 700

Kelley blank

Blank

333

334

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331

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329

328

RED LINE

BLACK

Blank

KELLEY BLANK

1000
KELLEY

1000
KELLEY

1000
ST.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

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333

332

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328

Great East Street

MINED OUT
BY
BERKELEY PIT

4967 LEVEL
121/193



KELLEY 600
31
700
ST.L.
MT VIEW 700

5
PEN
6
PEN

1000
M KELLEY

1000

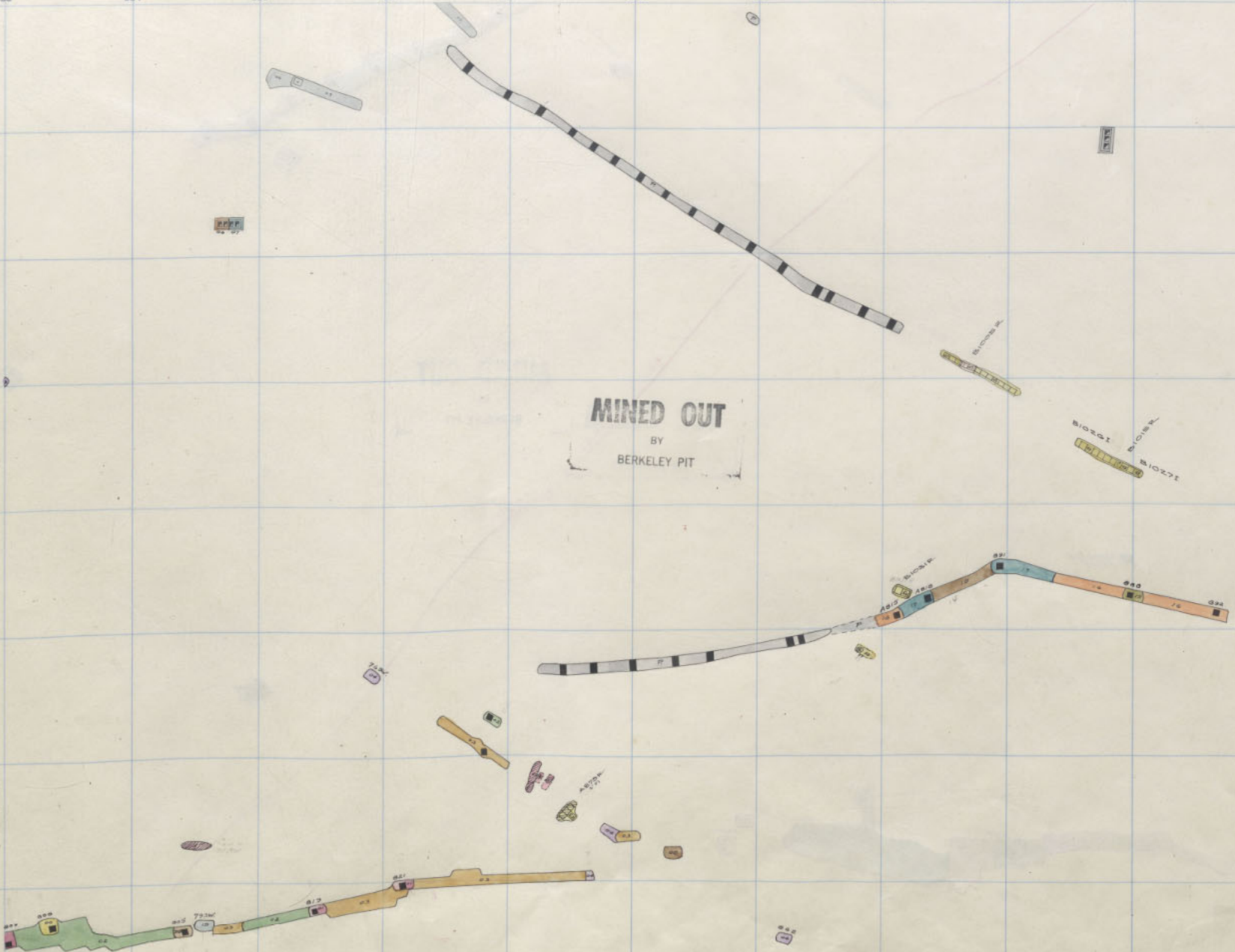
1000

1000

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S.F.L.

1000

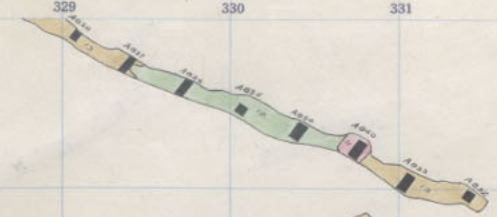
MINED OUT
BY
BERKELEY PIT



R-1000-8
P-800-14

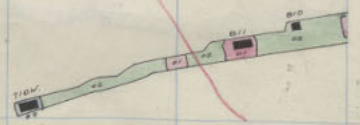
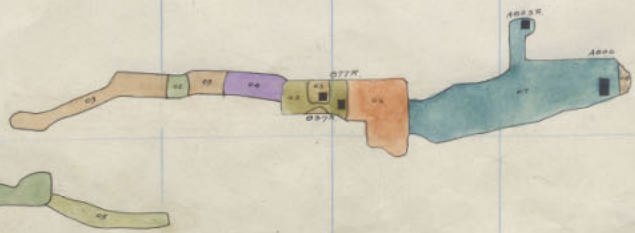
322 323 324 325 326 327 328 329 330 331 332 333

335 334 333 332 331 330 329 328 327 326 325 324 323 322



MINED OUT
 BY
 BERKELEY PIT

Grant Ledge Shaft



4967
 LEVEL
 12/1/80

KELLEY 600
 31
 700
 S.T.L.

P. 00

MT VIEW 700

333 334 335 336 337 338 339 340 341 342 343 344

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332

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328

MINED OUT
BY
BERKELEY PIT

B10/21
B10/22
B10/23

B10/24

B10/25

B10/26
B10/27
B10/28

B10/29

B10/30

B10/31

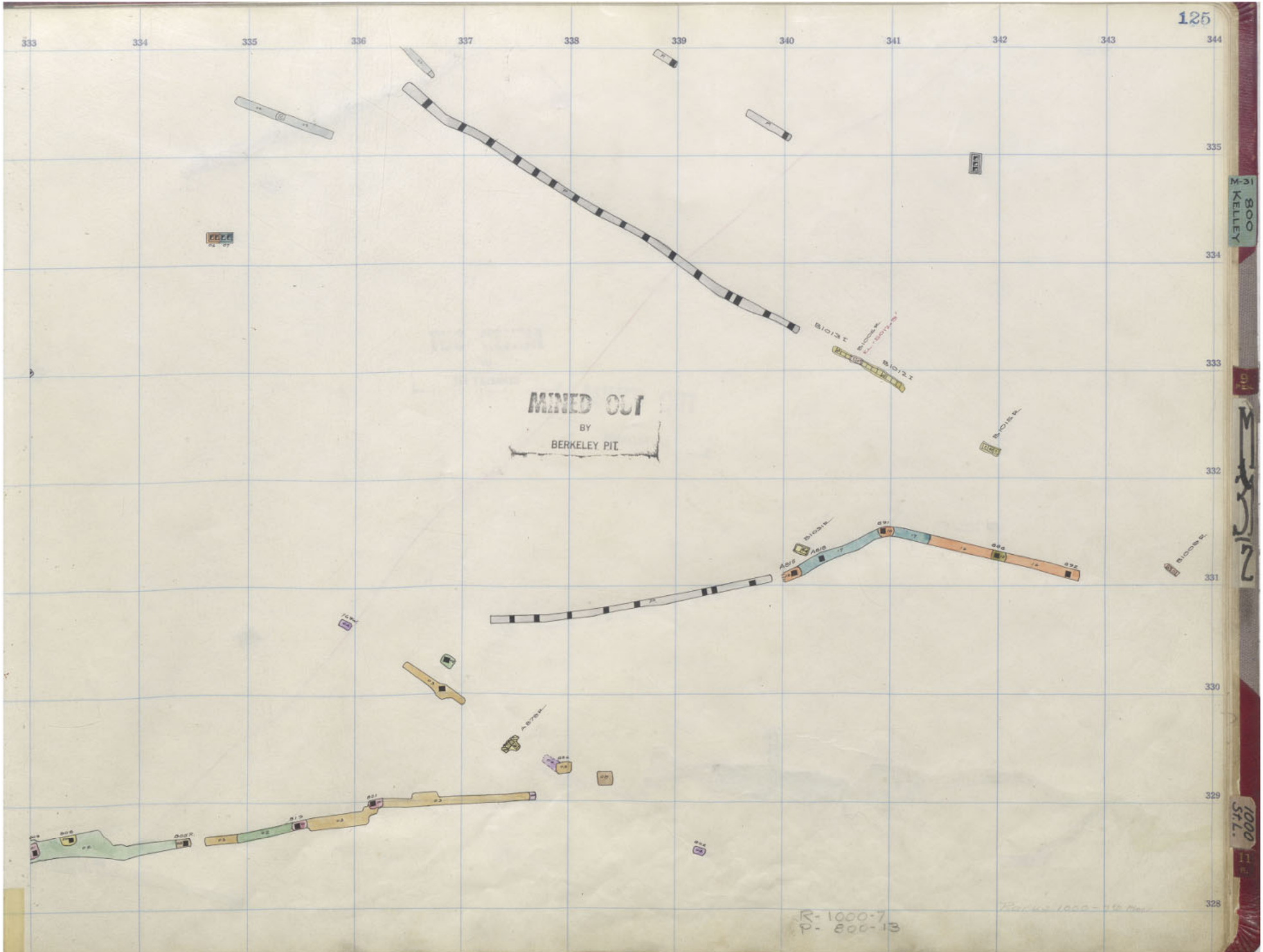
R-1000-7
P-800-13

1000-13

1000
M KELLEY

1000
ST.L.

1000
ST.L.



322 323 324 325 326 327 328 329 330 331 332 333

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323
SEWER
SHAFT

Great Extn
Shaft

MINED OUT
BY
BERKELEY PIT

4967 LEVEL
12/1/80

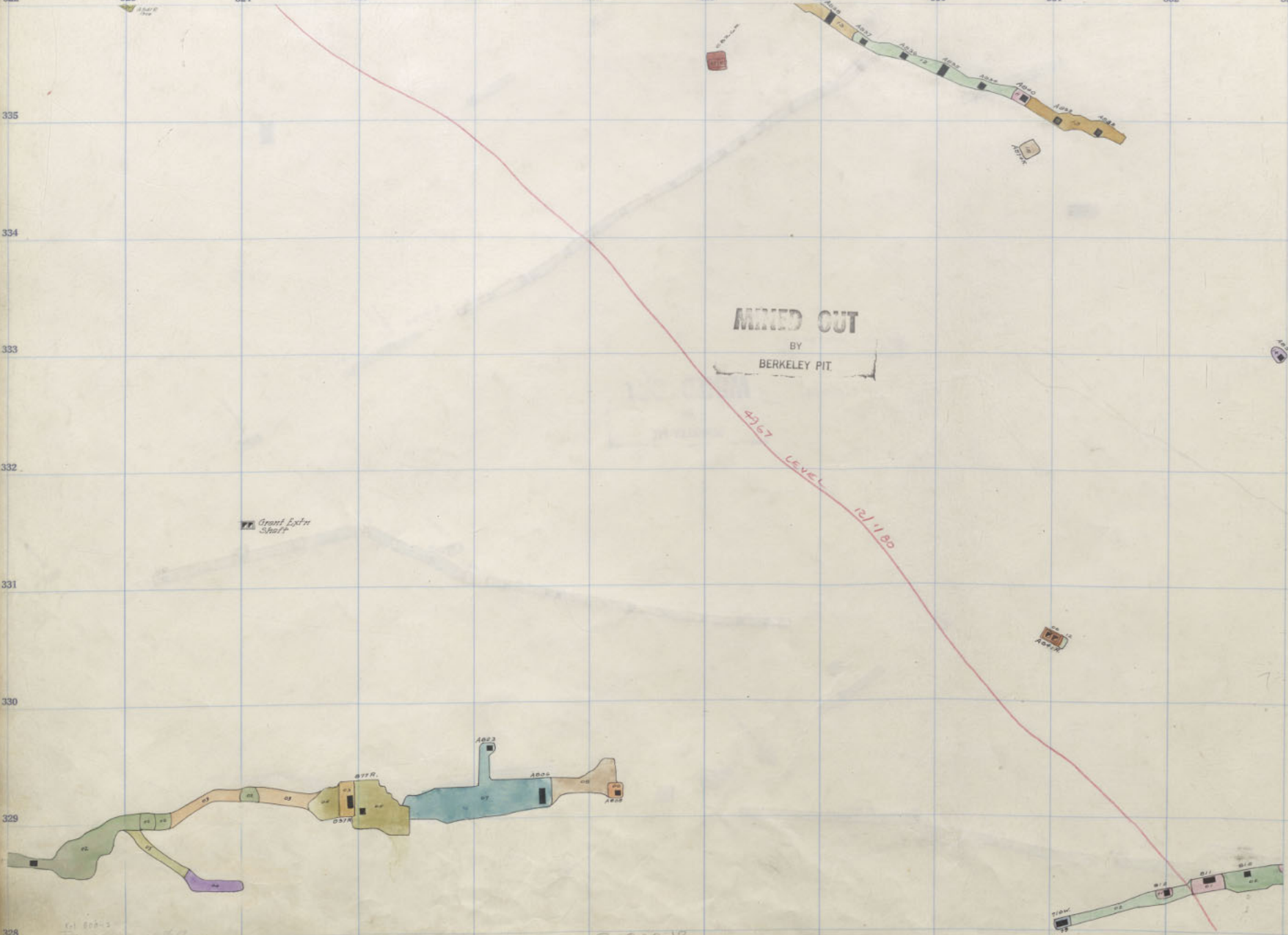
KELLEY
600
31
700
ST.L.

100

MT-VIEW
700

St Lawrence 1000 19th Fl ELEV 5015
900-0

P-800-12



333 334 335 336 337 338 339 340 341 342 343 344

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332
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330
329
328

1800
M KELLEY

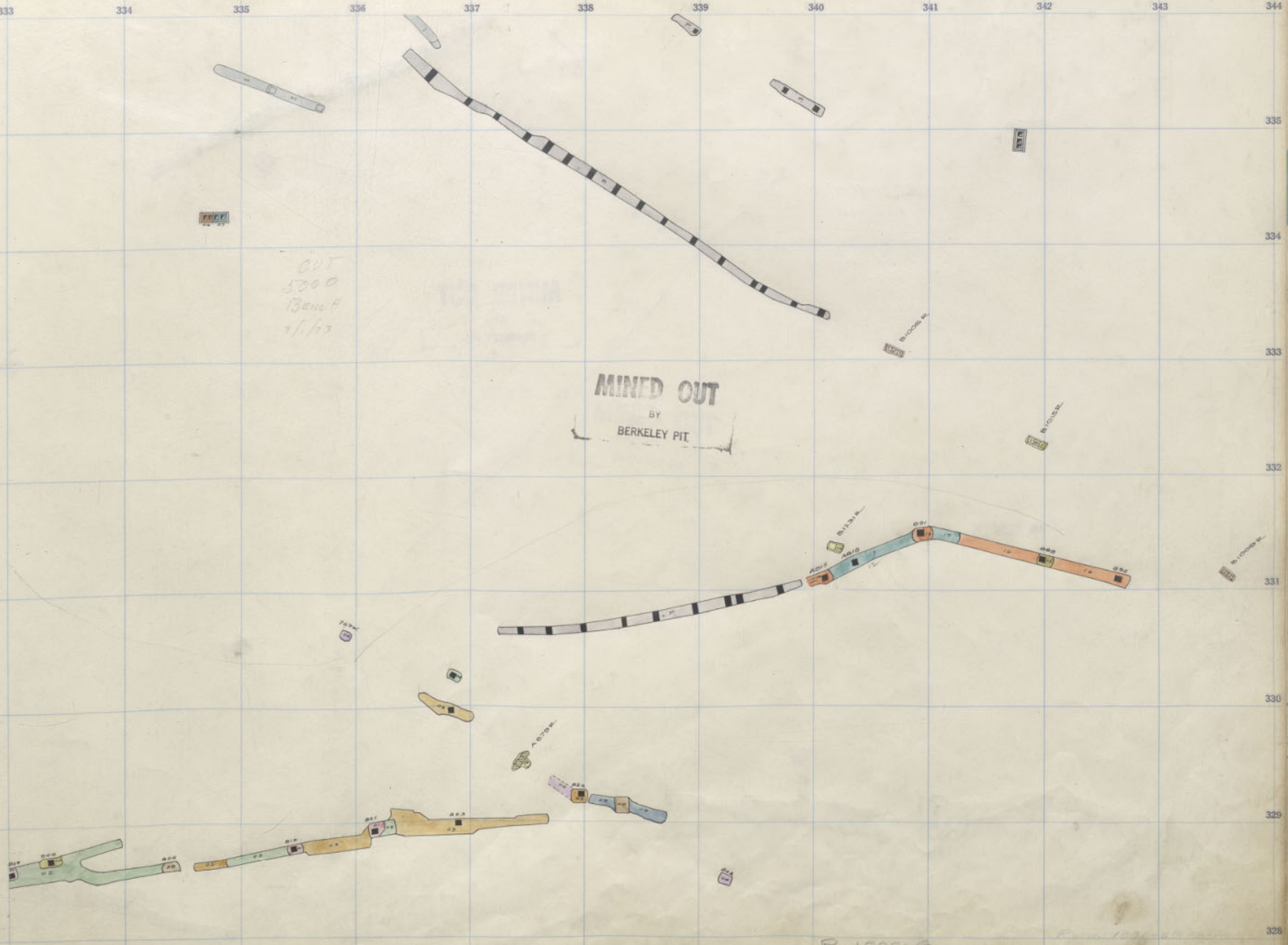
011

1000
S.F.L.

1000
S.F.L.

CUT
5300
Bench
7/1/67

MINED OUT
BY
BERKELEY PIT



1000
00-100

333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

331

330

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328

MINED OUT
BY
BERKELEY PIT



DL 1000-5
800-11

M-31
800
KELLEY

DL

1000
ST.L.

1000
ST.L.

DL

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

MINED OUT

BY
BERKELEY PIT

4067 LEVEL
12/11/20

Grant Extn
Shaft

1000
900-4

PENN 800-10

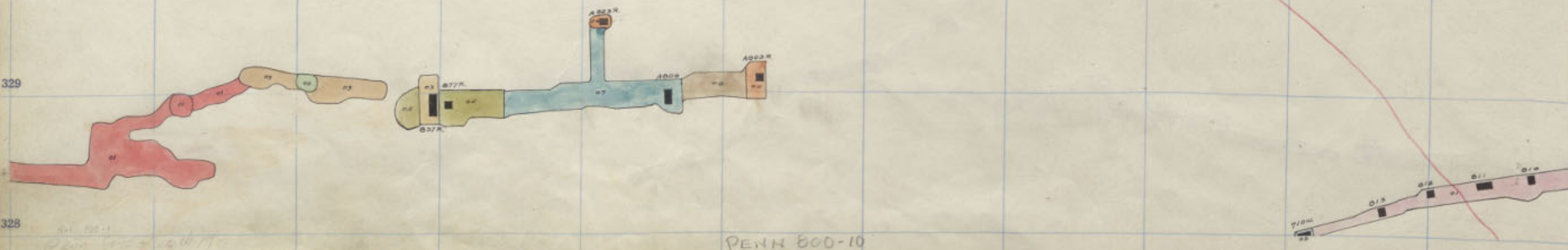
St Lawrence 1000 17th Fl
900-4 EL 4999

6 PEN

700 STL

300

MT VIEW 700



333 334 335 336 337 338 339 340 341 342 343 344

M-31
BOO
KELLEY

MINED OUT
BY
BERKELEY PIT



R-1000-4
R 800-10

1000
ST.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

M-31
800
KELLEY

334

333

MINED OUT
BY
BERKELEY PIT

429.67 LEVEL 12/1/80

Grant Lign
Shaft

331

330

700
STL.

329

328

Mt. View
700

St Lawrence 1000 16th Fl
900-3 ELEV. 4992

P-800-9

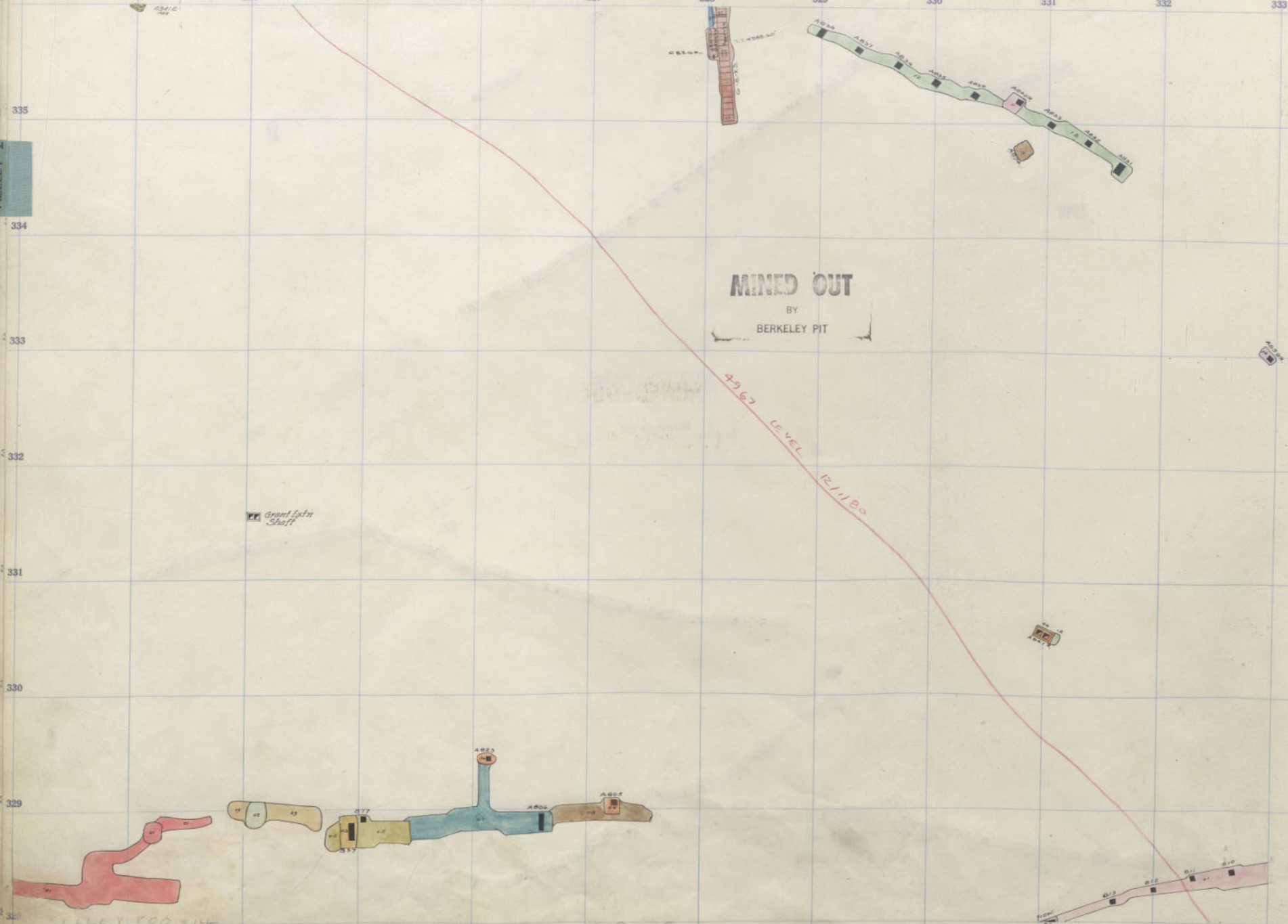
5
PEN

6
PEN

KELLEY
600

700

KELLEY 800 2114



333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

331

330

329

328

MINED OUT
BY
BERKELEY PIT



P: 1000-0
P: 800-0

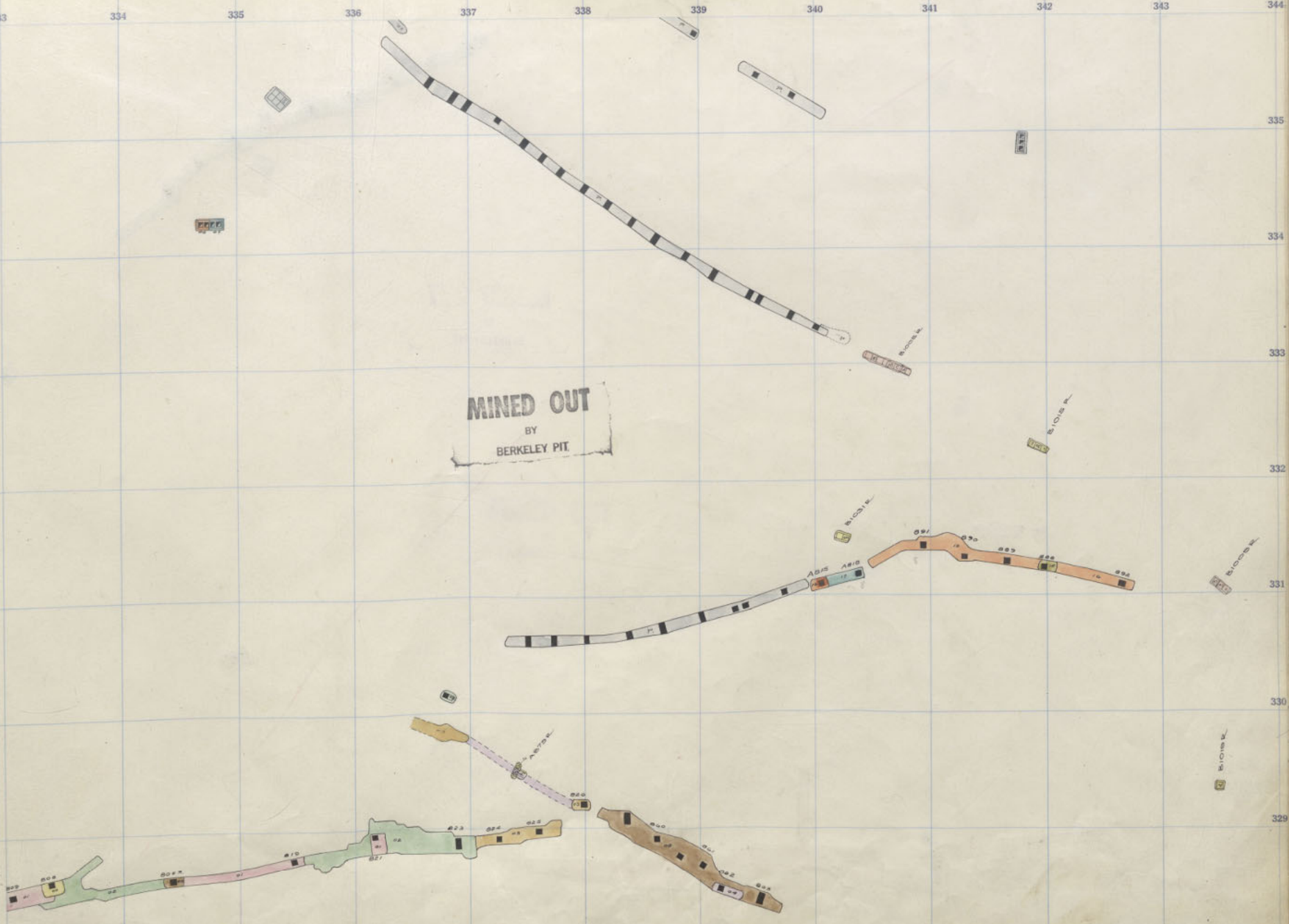
WELL / 800 SILL
RANGE 1000-800

1000
S.T.L.

333 334 335 336 337 338 339 340 341 342 343 344

335
334
333
332
331
330
329
328

MINED OUT
BY
BERKELEY PIT



TR
0000
0000
0000
0000

1000
S.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

5
PEN.

6
PEN.

M-31
800
KELLEY

700
KELLEY
600

700
ST.L.

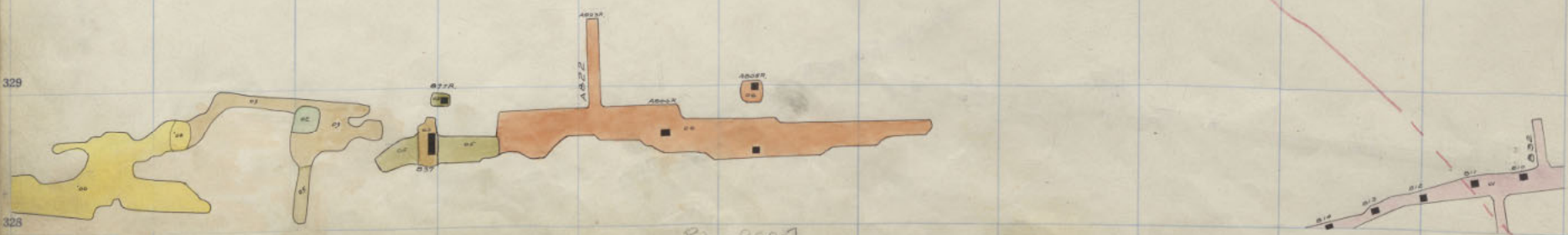
700
P.C.

MIT-VIEW
700

Grant Expn Shaft

MINED OUT
BY
BERKELEY PIT.

4967
LEVEL
12/1/80



Kelley St Lawrence
Blank 1000 14" F1
900-1 ELEV 4976

P. 800.7

333 334 335 336 337 338 339 340 341 342 343 344

335
334
333
332
331
330
329
328

FFFF
02 77

MINED OUT
BY
BERKELEY PIT



ELEV. 9965

R=1000-1
P=800-7

9900 LEVEL 12/1/00
RACUSON - 10' F
KELLY BANK

1000
S.T.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

5 PEN

6 PEN

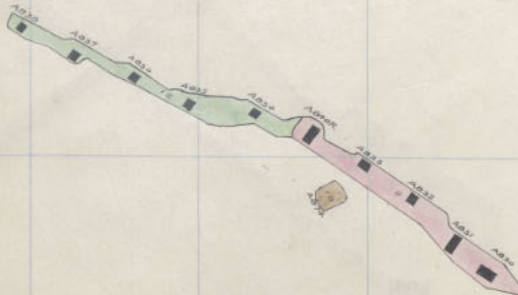
M-31
800
KELLEY

700
KELLEY
600
21

700
S.T.L.

P-10

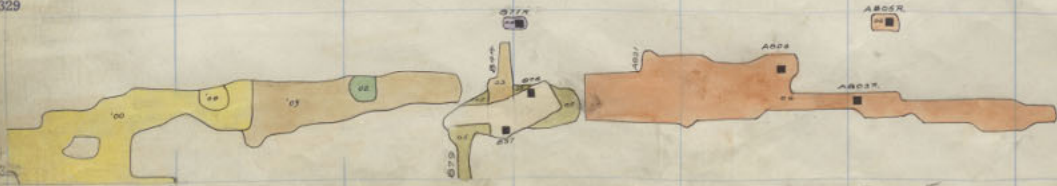
Mt. View
700



MINED OUT
BY
BERKELEY PIT

4900
LEVEL
12/1/80

Grant Extension
Start



St Lawrence 1000 12th Fl

800-5

ELEV 4961

333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

331

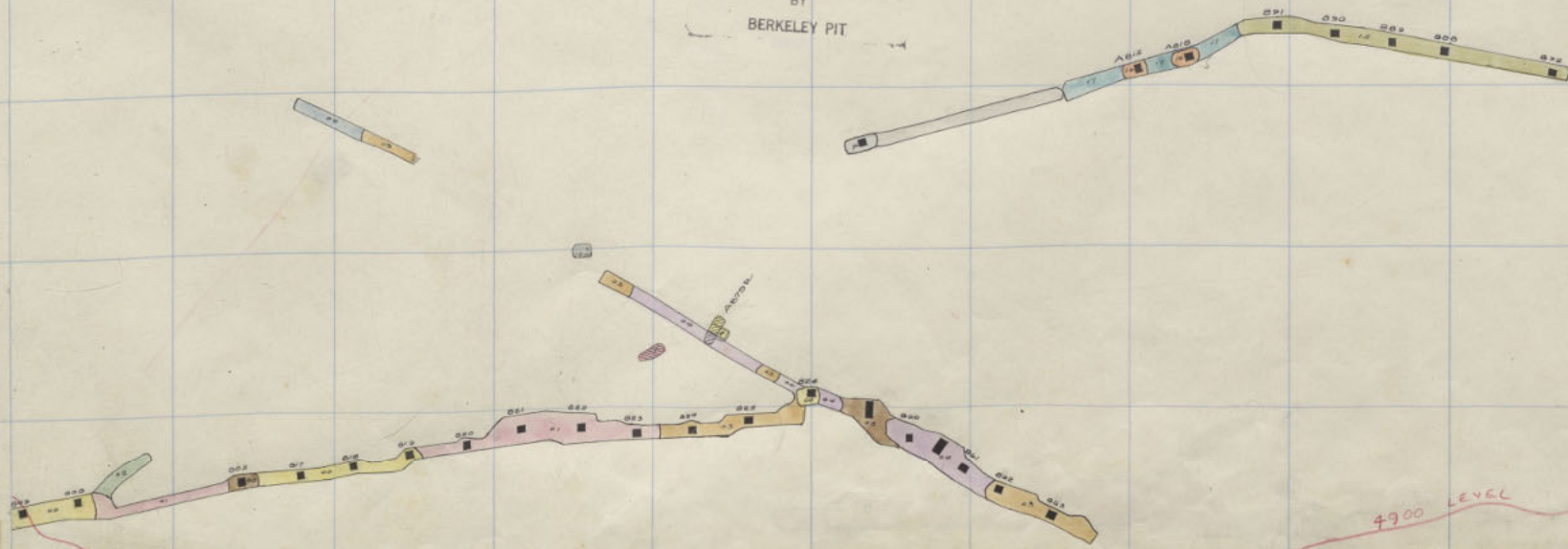
330

329

328

MINED OUT

BY
BERKELEY PIT



ELEV 4948

1100 -
800 -
015

4900 LEVEL 12/1/80

KELLEY, 100-33

1000
St.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

5

6

M-31
800
KELLEY

KELLEY
600
21

700
ST.L.

P. 10

Mt. View
700

MINED OUT
BY
BERKELEY PIT

55.00
LEVEL
12/1/50

Grand Extension
Shaft

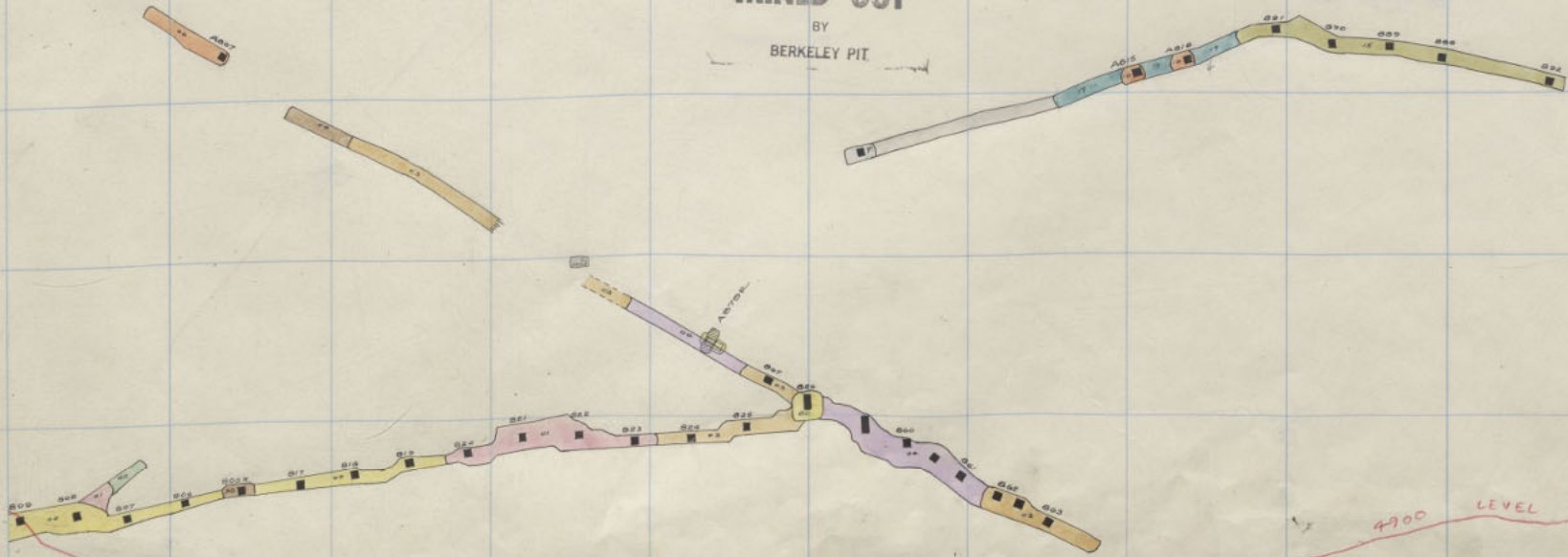


St Lawrence 1000 11th Fl ELEV 9953

800-4

333 334 335 336 337 338 339 340 341 342 343 344

MINED OUT
BY
BERKELEY PIT



ELEV. 4940
P-1100-18
P-800-4

7900 LEVEL
12/1/80

1000
St.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

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332

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330

329

328

5 PEN

6 PEN

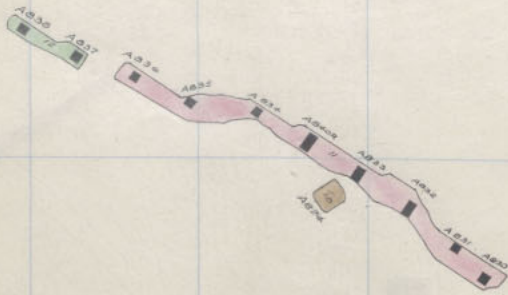
M-31
800
KELLEY

KELLEY
600
21

700
STL.

P. 60

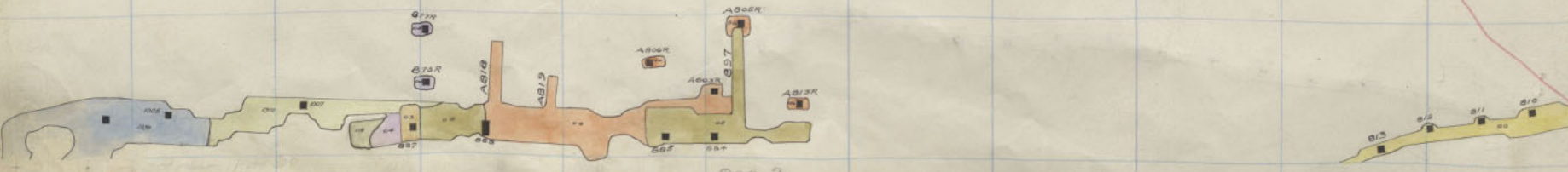
Mt. View
700



MINED OUT
BY
BERKELEY PIT

4900 LEVEL 12/1/38

Grant Extension
Shaft



St Lawrence 1000 10th Fl ELEV. 4946

800-3

333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

331

330

329

328

MINED OUT

BY
BERKELEY PIT



ELEV. 4933
P = 1100-17
P = 800-3

4900 LEVEL 12/1/80

1000
ST.L.

5 PEN

6 PEN

M-31
800
KELLEY

KELLEY
600
21

700
STL.

700

MT. VIEW
700

335
334

333

332

331

330

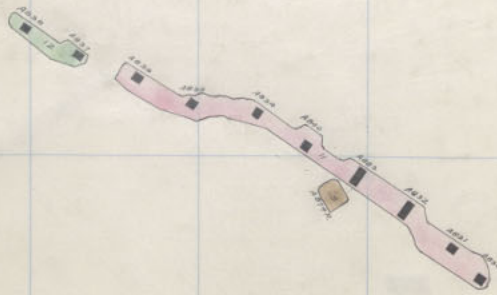
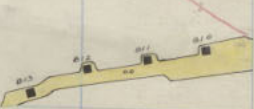
329

328

Grant Extension Shaft

MINED OUT
BY
BERKELEY PIT

4-1000 LEVEL
1211/182



St Lawrence 1000 9th Fl ELEV 4938

800-2

333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

331

330

329

328

MINED OUT

BY
BERKELEY PIT



ELEV 4926
1100-16
800-2

1000
S.F.L.

333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

331

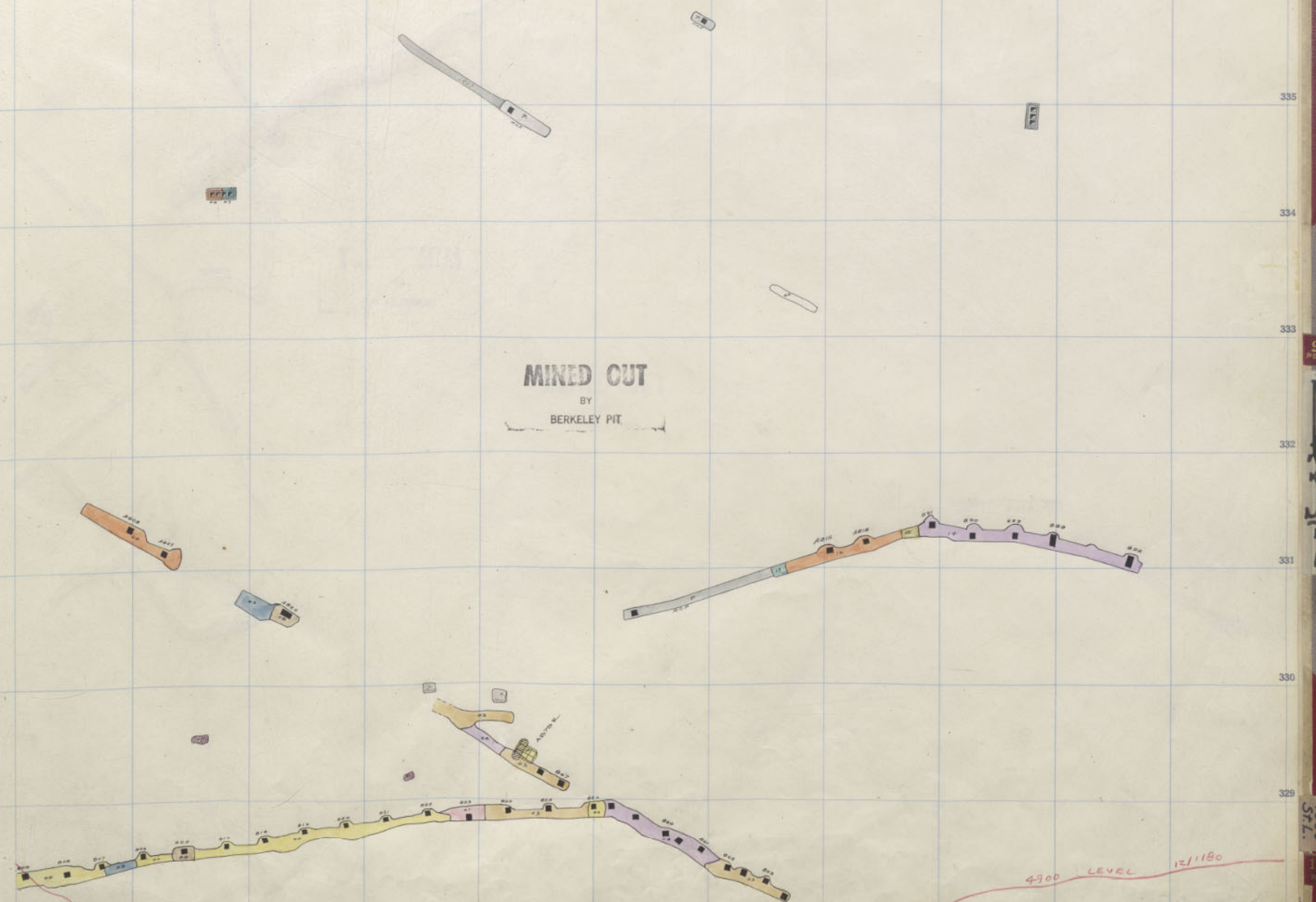
330

329

328

MINED OUT

BY
BERKELEY PIT



ELEV 4919
 1100-15
 800-1
 800-1

4900 LEVEL 12/180

1000
 ST.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

5 PEN

6 PEN

M-31
800
KELLEY

KELLEY
600
11
21
700
ST.L.

7 PEN

MIT VIEW
700

Grant Extension
Shaft

MINES
BY
BERKELEY PIT

4900 LEVEL
P-11/20

St Lawrence 1000 7th Fl ELEV. 4923

P-800 SILL ELEV. 4913



333 334 335 336 337 338 339 340 341 342 343 344

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333

332

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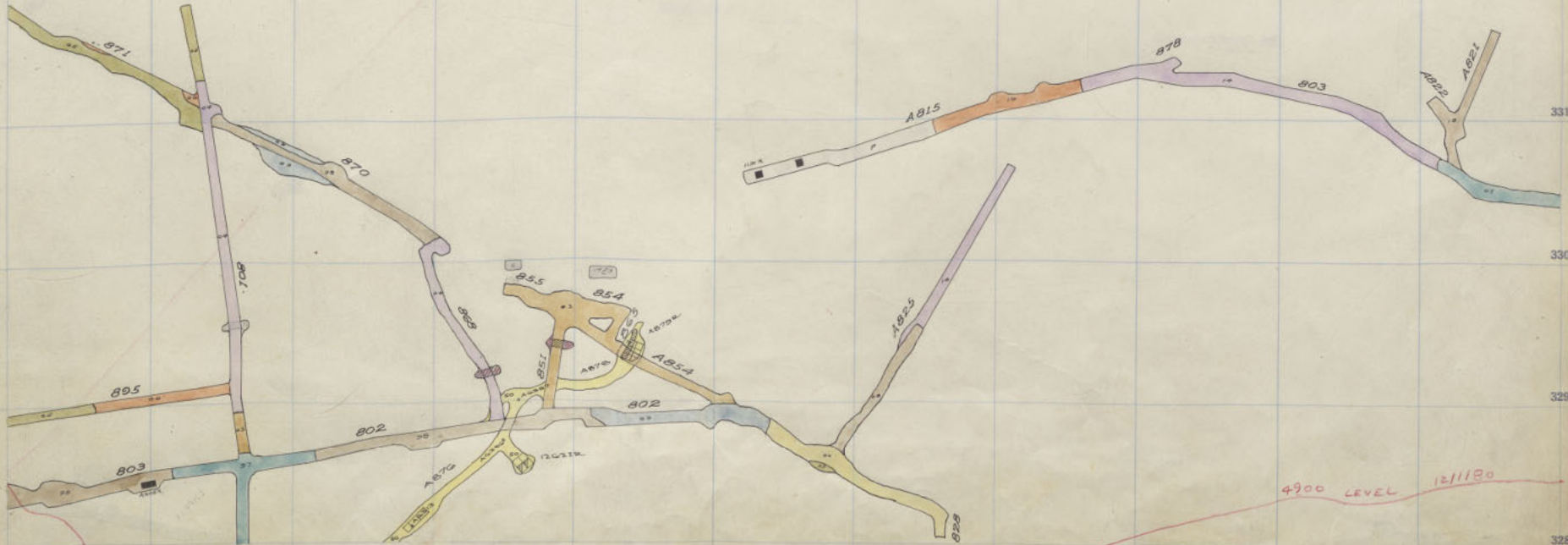
328

MINED OUT
BY
BERKELEY PIT.

A856

A857

EEEN



ELEV 4912

4900 LEVEL 121120

RARUS	1100-14
PENN.	800 SILL
BERKELEY	800 SILL

1000
S.F.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

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330

329

328

MINED OUT
BY
BERKELEY PIT

4900 LEVEL
12/1/85

Grant Extension Shaft

P-900-13 ELEV 4906

St Lawrence 1000 6th Fl
1200-18

KELLEY 140-27

5 PEN

6 PEN

M-31
800
KELLEY

KELLEY
600
11
21

700
ST.L.

700

MT VIEW
700



333 334 335 336 337 338 339 340 341 342 343 344

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333
332
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330
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328

MINED OUT

BY
BERKELEY PIT



ELEV 4904 RARUS PENN. 1100-13 900-

1000
S.F.L.

322 323 324 325 326 327 328 329 330 331 332 333

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334

333

332

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328

MINED OUT
BY
BERKELEY PIT

Grant Extension Shaft

4900
LEVEL
12/1/86

P-900-12 ELEV 4899

St Lawrence 1000 5th Fl

5 PEN

6 PEN

M-31
800
KELLEY

KELLEY
600
11
21

700
STL.

2.00

MT VIEW
700

1000 P

1000 P

979

979

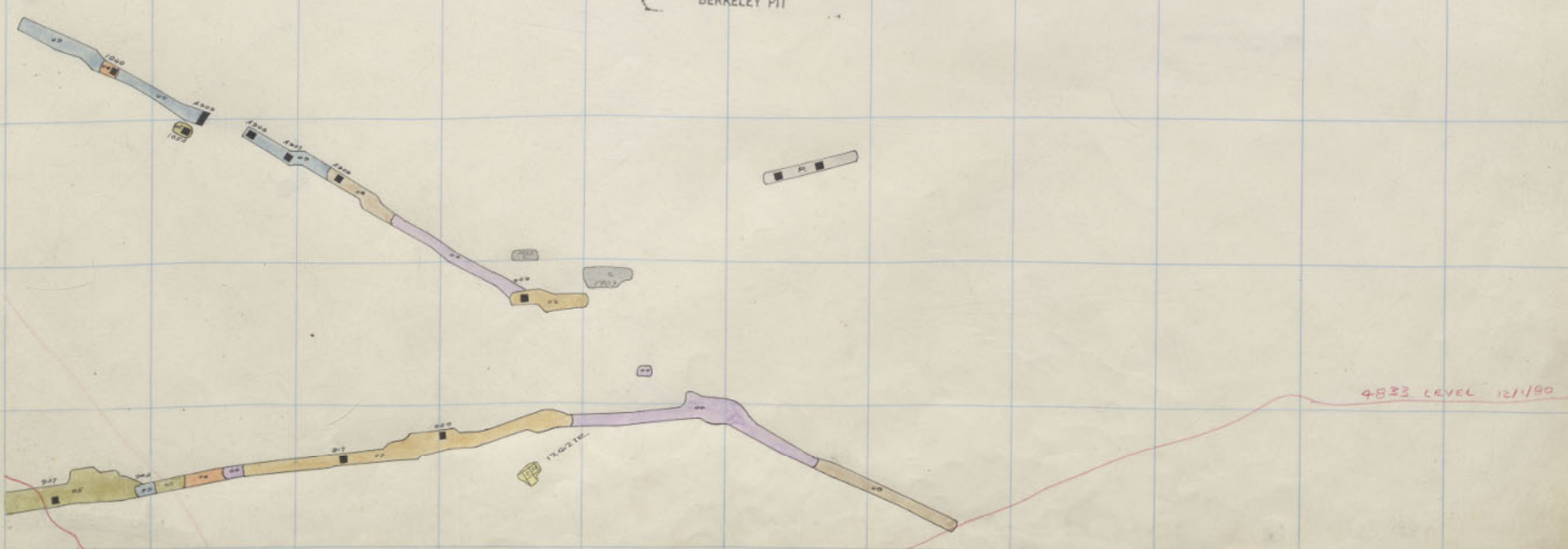
26

333 334 335 336 337 338 339 340 341 342 343 344

335
334
333
332
331
330
329
328

MINED OUT

BY
BERKELEY PIT



ELEV. 4897

RARUS
PENN.

1100-12
900-

1000
S.F.L.

51 PEN

6 PEN

M-31
800
KELLEY

KELLEY
600

11
21

700
ST.L.

200

MT VIEW
700

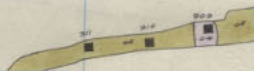
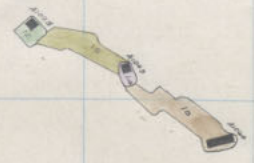
St Lawrence 1000 4th Fl
25

Grant Extension
Shaft

MINED OUT
BY
BERKELEY PIT

4833 LEVEL
12-11-80

900-11 ELEV 4892



333 334 335 336 337 338 339 340 341 342 343 344

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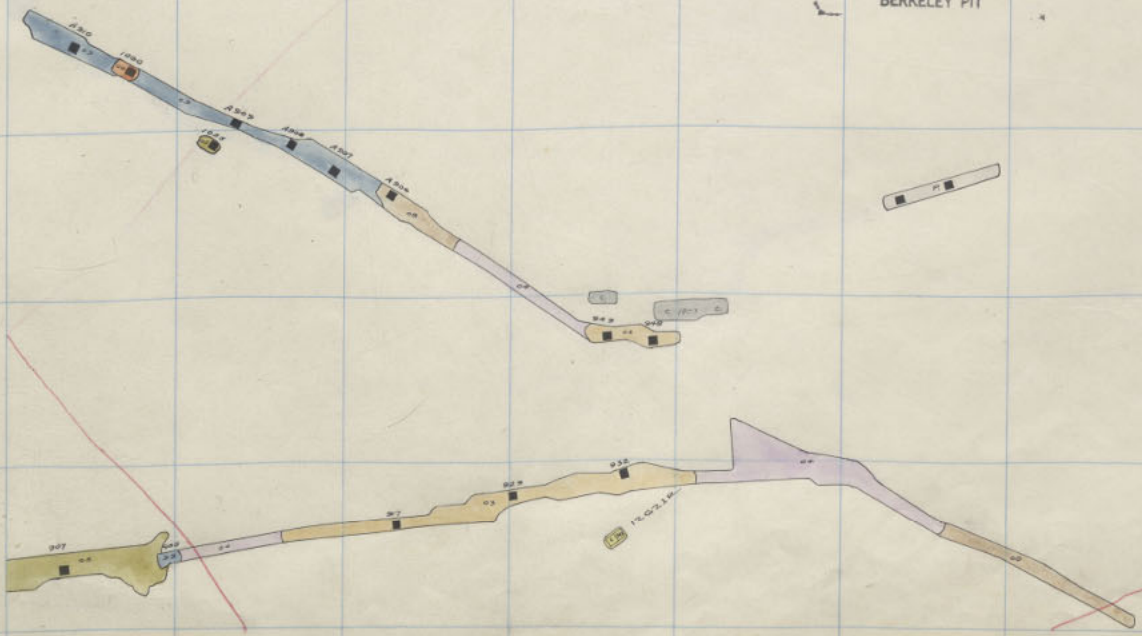
330

329

328

DATE

MINED OUT
BY
BERKELEY PIT



ELEV. 4890

RARUS
PENN.

1100-11
900- "

1000
St. L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

5 PEN

6 PEN

M-31
800
KELLEY

KELLEY
600
11
21

700
ST.L.

700

MT VIEW
700

Grant Extension Shaft

MINED OUT
BY
BERKELEY PIT

4825 LEVEL 12/1/95

St Lawrence 1000 3rd Fl

P. 900-10

ELEV. 4825

W.P.

W.P.

W.P.

Diomedes

W.P.

W.P. W.P. W.P. W.P.



322 323 324 325 326 327 328 329 330 331 332 333

335 334 333 332 331 330 329

334 333 332 331 330 329

333 332 331 330 329

332 331 330 329

331 330 329

330 329

329

328

6
M-31
800
KELLEY

700
ST.L.
KELLEY
600
21

700
MT VIEW

Grant Extension
Shaft

MINED OUT
BY
BERKELEY PIT

4.8.33 Level
12.11.83

P-300-2 SLEV. 4278

St Lawrence 1000 2nd Fl



333 334 335 336 337 338 339 340 341 342 343 344

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328

MINED OUT

BY
BERKELEY PIT



A-833 LEVEL
12,180

ELEV. 9875

RARUS
PENN.

1100-9
900-

1000
St.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

5 PEN

6 PEN

M-31
800
KELLEY

KELLEY
600
11
21

700
ST.L.

80

MT.VIEW
700



MINED OUT
BY
BERKELEY PIT

4 833 LEVEL
12/1/89



Grant Edenton Shaft

D1032*

St Lawrence 1000 1st Fl
1000-13

KELLEY 800-22

8 ELEV 6571

333 334 335 336 337 338 339 340 341 342 343 344

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333

332

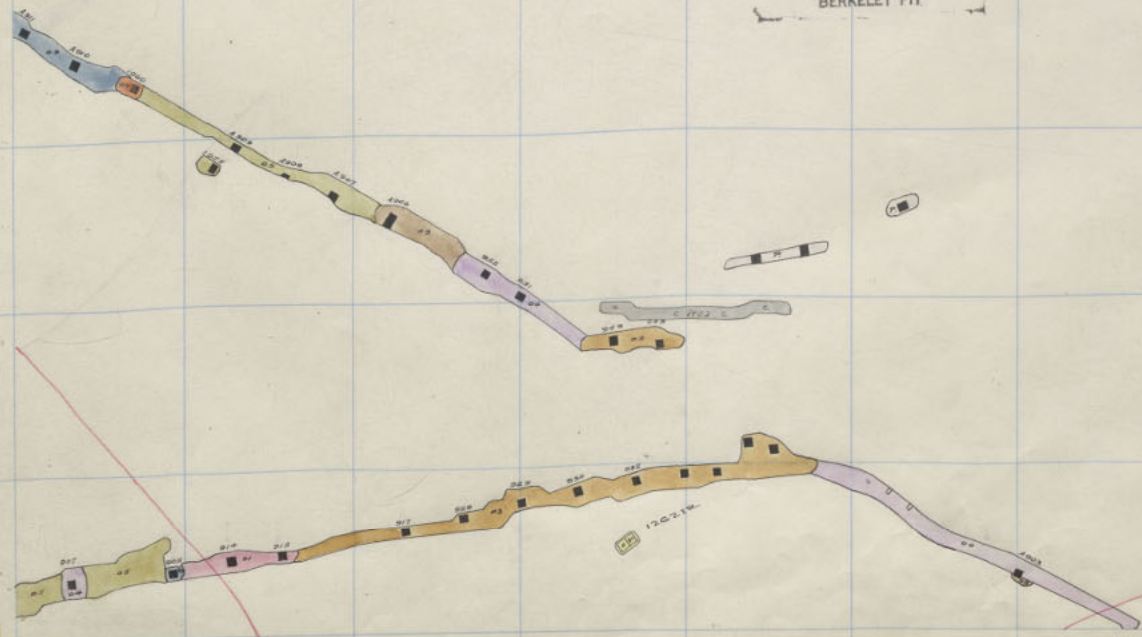
331

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328

MINED OUT
BY
BERKELEY PIT



4832 LEVEL 12/1/80

ELEV. 4868

RARUS
PENN.

1100-8
900-

9
PEL

M
S
Z

1000
S.T.L.

5th FLOOR

6th FLOOR

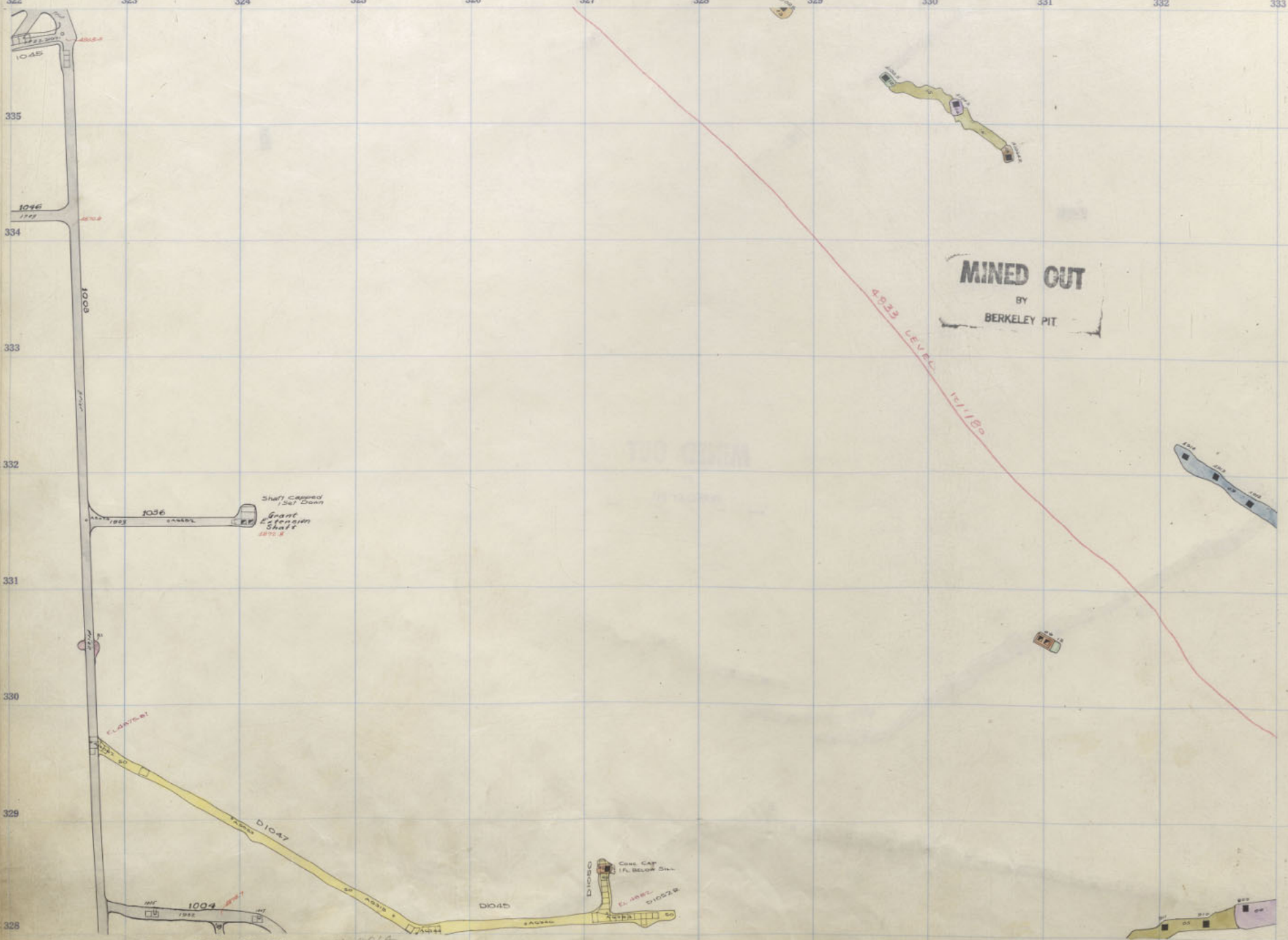
M-31
800
KELLEY

KELLEY
600

700
ST.L.

7th FLOOR

MT VIEW
700



MINED OUT
BY
BERKELEY PIT

Penn. 900 - 7th Floor ELEV 4864
St. Law. 1000 Level 4867 KELLEY 1000-21
12

333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

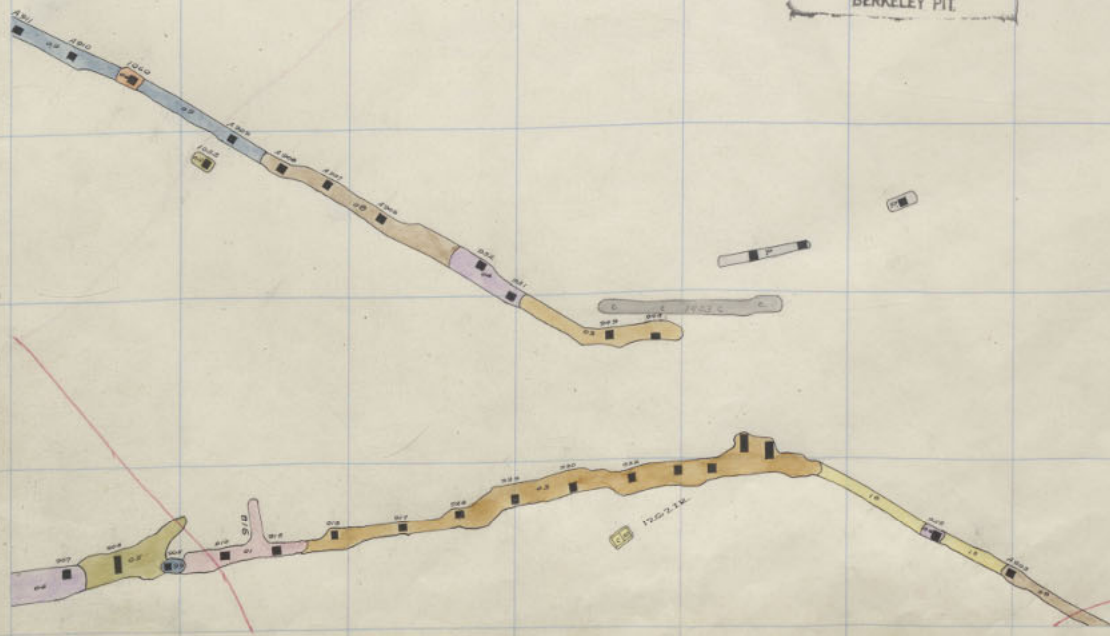
331

330

329

328

MINED OUT
BY
BERKELEY PIT



4833 LEVEL 121180

ELEV. 4861
RABUS
PENN.
1100-7
900-*

1000
St.L.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

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332

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330

329

328

5 PEN

6 PEN

M-31
800
KELLEY

700
ST.L.
KELLEY
600

2 PEN

MT-VIEW
700

1000
ST.L.

Trail 503-53 above elev. 4957
Penn 1000 14th Fl
Kelley BLANK

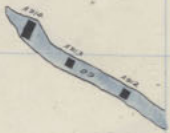
6



MINED OUT
BY
BERKELEY PIT

4833 LEVEL

12/1/80



333 334 335 336 337 338 339 340 341 342 343 344

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332

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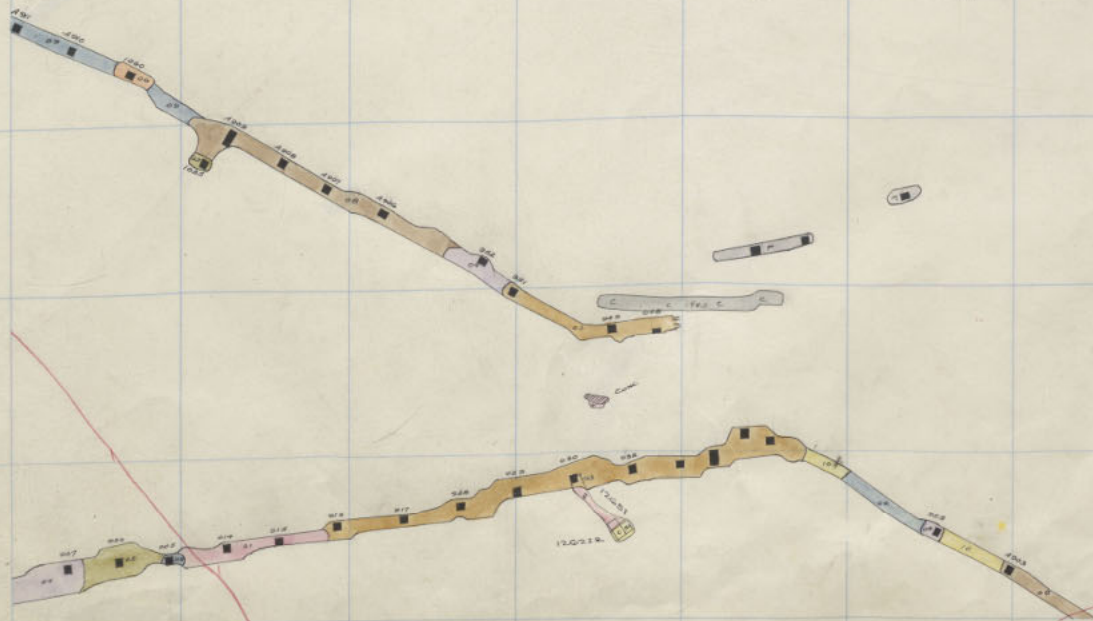
330

329

328

MINED OUT

BY
BERKELEY PIT



ELEN 4854

RARUS
PENN.
KELLEY

1100-6
900- "
B. B. KELLEY

9
P.C. 11
12

5
PEN.

6
PEN.

M-31
800
KELLEY

KELLEY
600
21

700
ST.L.

700

MT. VIEW
700

1000
ST.L.

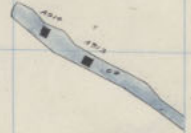
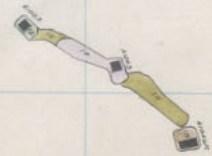
Grant Extn
Shaft

MINED OUT
BY
BERKELEY PIT

4833 Level
12/1/80

PEN 900-5
PEN 1000 12/1/80
Kelley 1100-20

PEN 900-5 ELEV. 4850



322 323 324 325 326 327 328 329 330 331 332 333

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Grant Lyle Shaft

MINED OUT
BY
BERKELEY PIT.

4-8-25
LEVEL
12-11-20

Pit 900 - 4' dia
Pit No 1000 12471
Kelley 1700-19

ELEV. 4843

51 PEN
6 PEN
M-31
800 KELLEY
600
700 ST.L.
3-00
MT. VIEW
700
1000 ST.L.

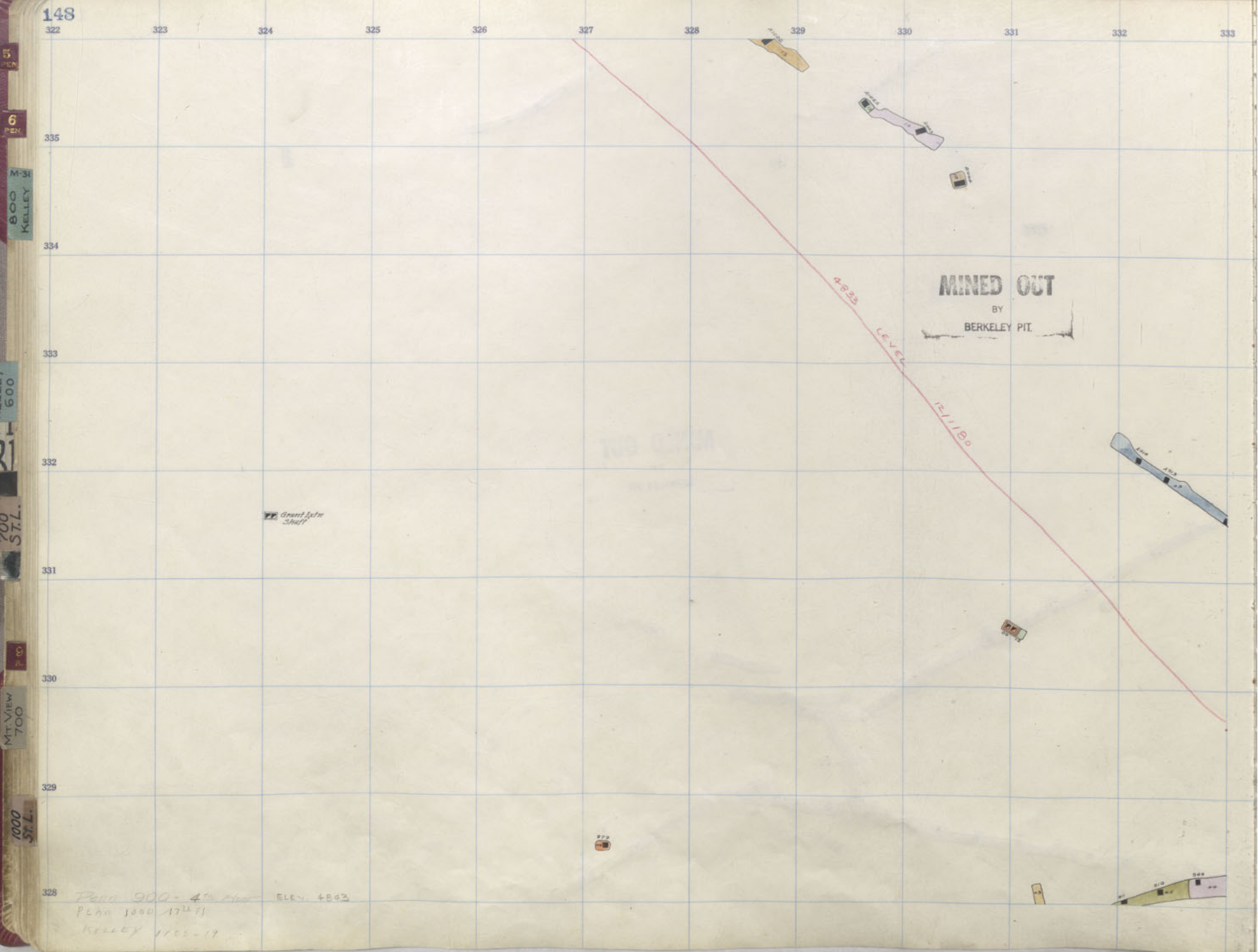
TOO LOW

972

972

972

972



333 334 335 336 337 338 339 340 341 342 343 344

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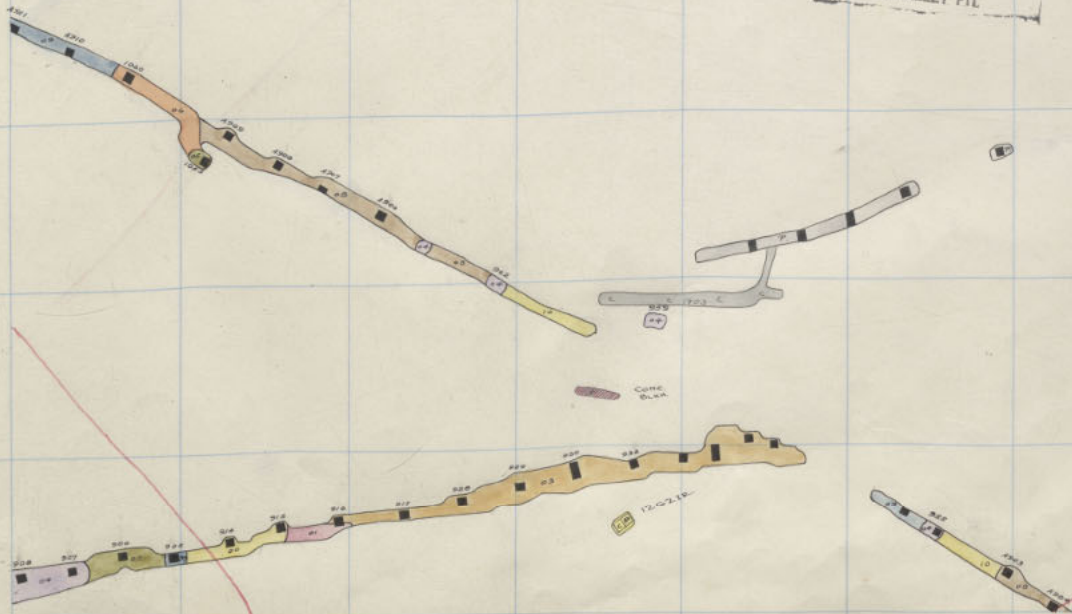
328

PP2.C
20-97

MINED OUT

BY

BERKELEY PIT



4833 LEVEL 12/1180

ELEV. 4839

RARUS
PENN.

1100-4
300'

9
P.C.A.
M
J
Z

11
P.C.A.

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

MINED OUT

BY
BERKELEY PIT.

4833

LEVEL

12/1/80

Gravel Ledge
Shaft

7000 - 500 - 30' M. ELEV 4836
PLAN - 1980 KELLEY
KELLEY BLANK

700
ST.L.
KELLEY
600

MT. VIEW
700

1000
ST.L.

800
KELLEY

6
PEN.

100

333 334 335 336 337 338 339 340 341 342 343 344

335

334

333

332

331

330

329

328



4833 LEVEL 12/180

ELEV. 4832 RARUS PENN. 1100-3 900-

5 PEN

6 PEN

M-31
800
KELLEY

21
KELLEY
600

700
ST.L.

P-60

MT VIEW
700

1000
ST.L.

Grant Extn
Shaft

9798

4760 LEVEL
12/1/80

MINED OUT

BY
BERKELEY PIT

PLAN 1000 15th FL
P-900-7 ELEV 4829
KELLEY 800-18

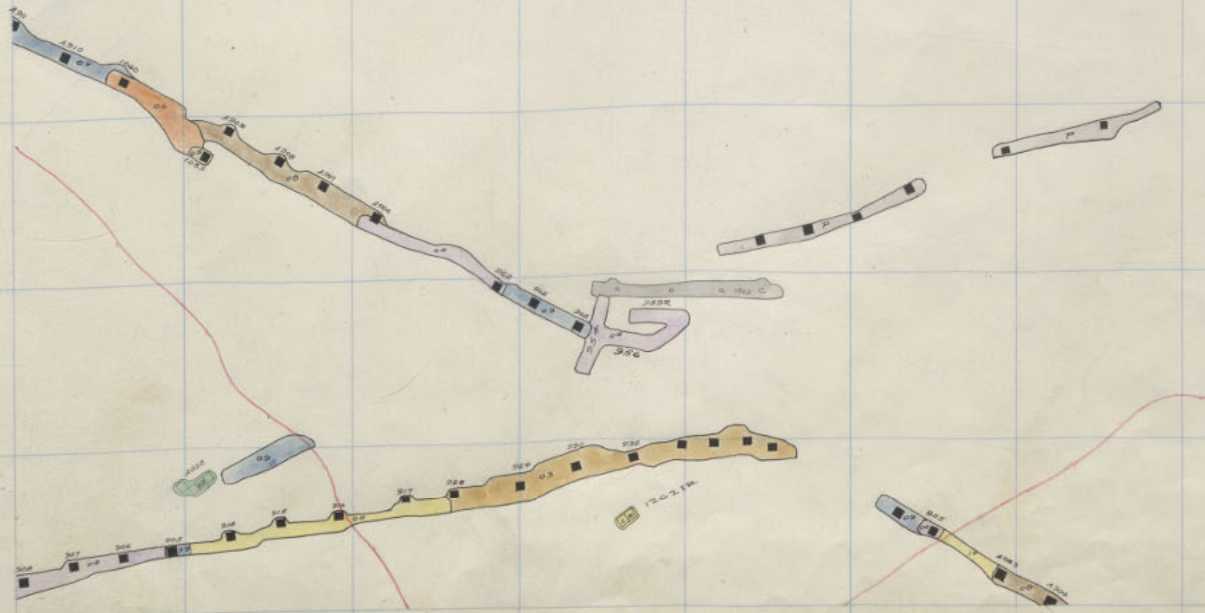
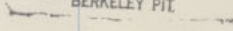


333 334 335 336 337 338 339 340 341 342 343 344

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328
327

MINED OUT

BY
BERKELEY PIT



4760 LEVEL 12/1/80

ELEV. 9825

RARUS
PENN.

1100-2
900-

9
11
12

322 323 324 325 326 327 328 329 330 331 332 333

335

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332

331

330

329

328

Grant Lake Shaft

MINED OUT
BY
BERKELEY PIT

6760 LEVEL
P-1/100

Mt View 120-6
P. 900-1 ELEV 4622
PENN 1420-1424 FI
KELLY 1100-17

5 PEN

6 PEN

M-31
800
KELLEY

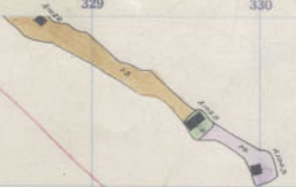
KELLEY
600

700
ST.L.

F-0

MT VIEW
700

1000
ST.L.



322 323 324 325 326 327 328 329 330 331 332 333

335

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333

332

331

330

329

328

600 KELLEY

600 KELLEY

700 S.T.L.

700

MT VIEW 700

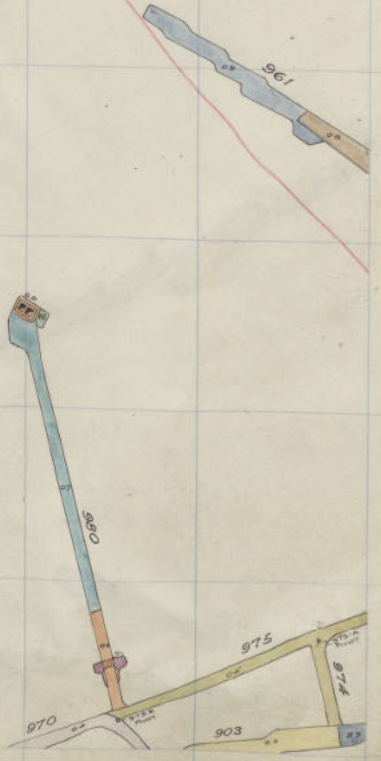
1000 S.T.L.

Ground Sill Chart



4760 LEVEL 12/1/89

MIND OUT BY BERKELEY PIT



Penn 900 Level
PENN 900-SILL ELEV 4812
PLAN 100 15' FI
KELLEY 11-1-16

333 334 335 336 337 338 339 340 341 342 343 344

335
334
333
332
331
330
329
328

MINED OUT
BY
BERKELEY PIT



ELEV. 4807 RARUS PENN. 1100 SILL 900 SILL

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

5

6 PEN

M-31
800
KELLEY

21
600
KELLEY

700
ST.L.

700

MT VIEW
700

1000
ST.L.

KELLEY BLANK

333

334

335

336

337

338

339

340

341

342

343

344

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331

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328

M
3
2
7

322 323 324 325 326 327 328 329 330 331 332 333

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334

333

332

331

330

329

328

ST

6 PEN

M-31
BOO
KELLEY

600
KELLEY
PEN

700
ST.L.

700

MT-VIEW
700

1000
ST.L.

KELLEY BLANK

333

334

335

336

337

338

339

340

341

342

343

344

335

334

333

332

331

330

329

328

M
3
2
7

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

ST

6
PEN

800
KELLEY

600
PEN

211
KELLEY

700
ST.L.

100

MT. VIEW
700

1000
ST.L.

KELLEY BLANK

333

334

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336

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342

343

344

335

334

333

332

331

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329

328

M
S
Z

322 323 324 325 326 327 328 329 330 331 332 333

335

334

333

332

331

330

329

328

ST

6 PEN

800 KELLEY

21 KELLEY 600 PEN

700 ST.L.

P. 6

MT. VIEW 700

1000 ST.L. PEN

KELLEY BLANK

M
S
2

ST
PEN

6
PEN

M-31
800
KELLEY

KELLEY
600
9
PEN

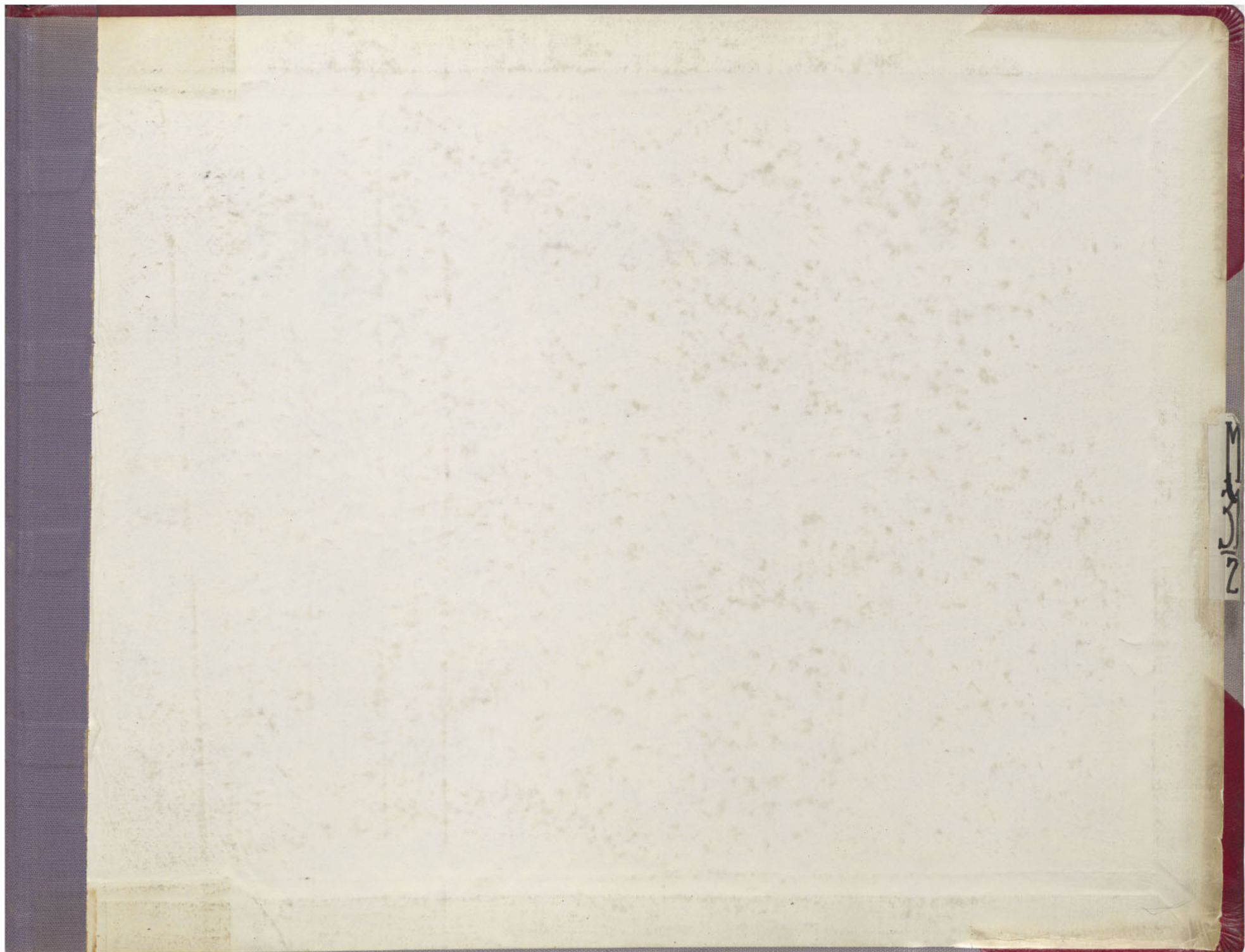
31

700
ST.L.

MT. VIEW
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