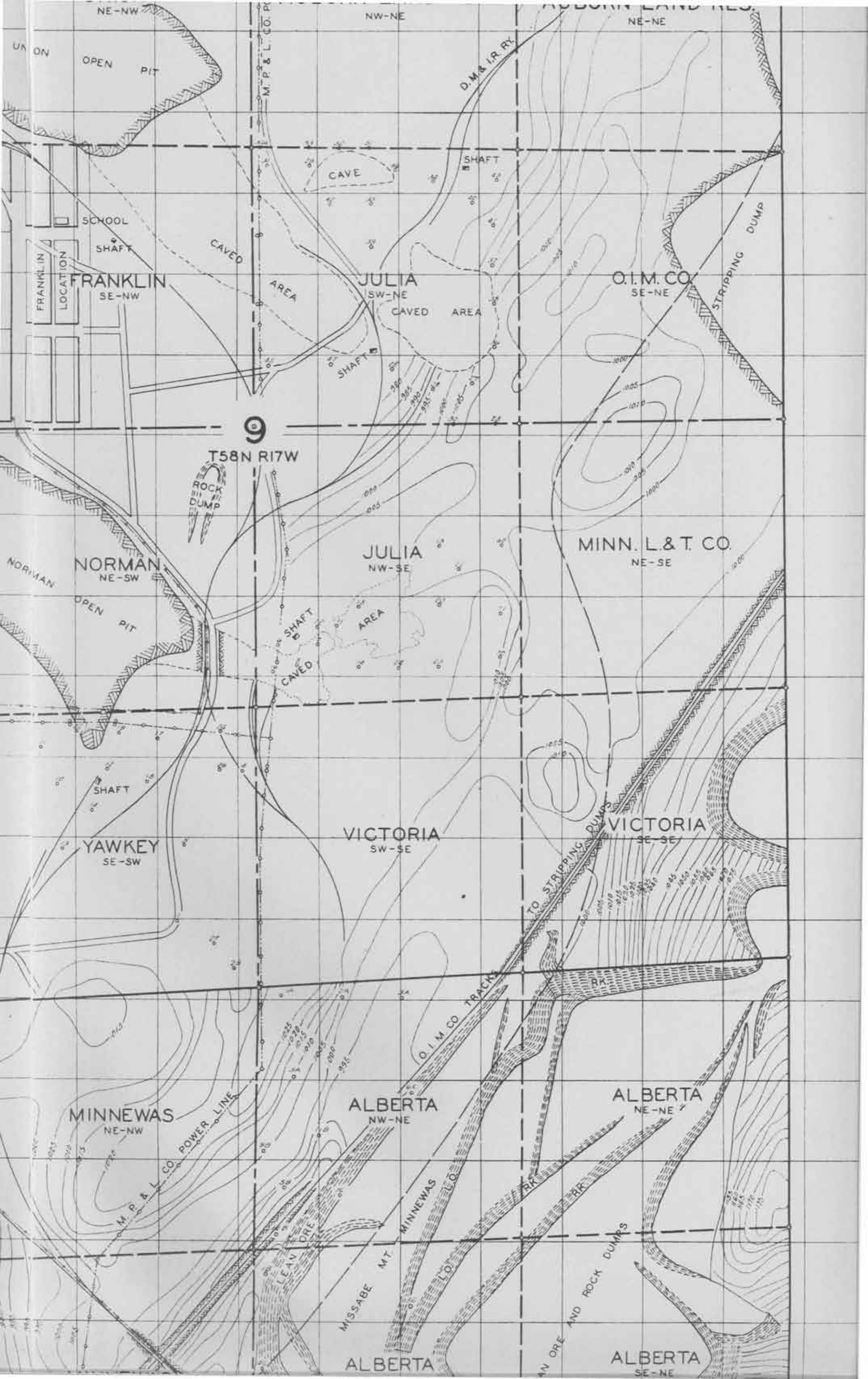
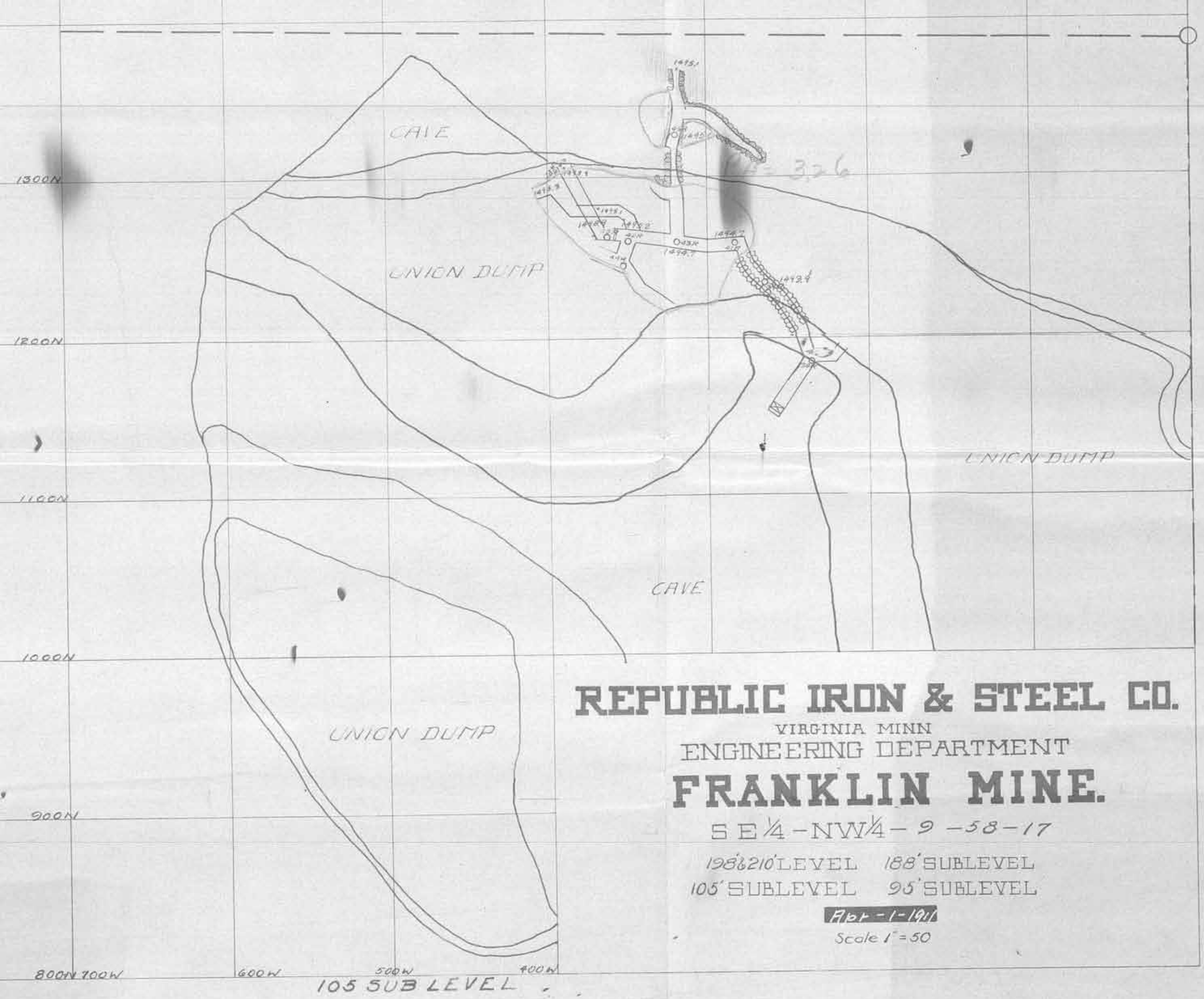
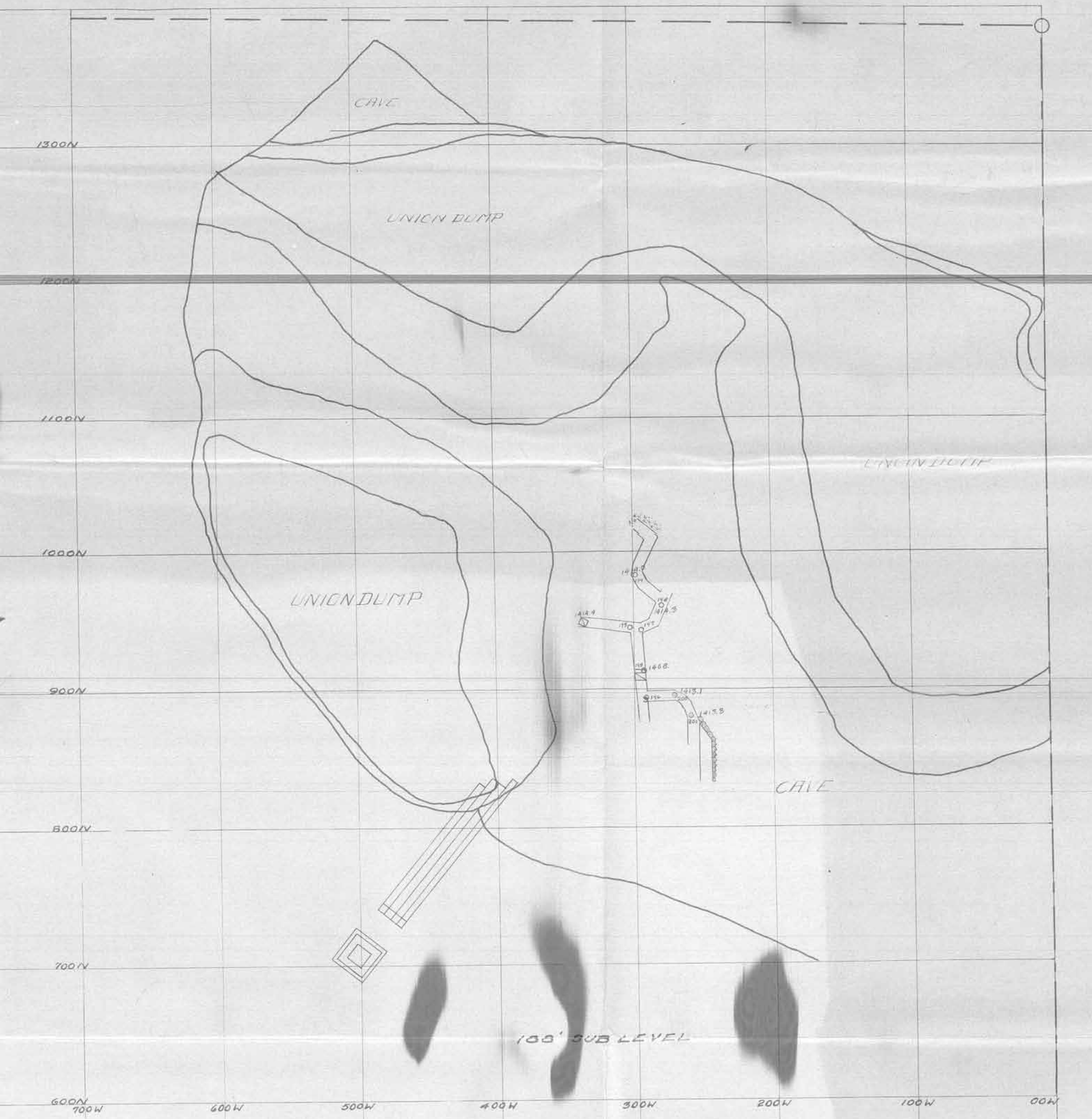
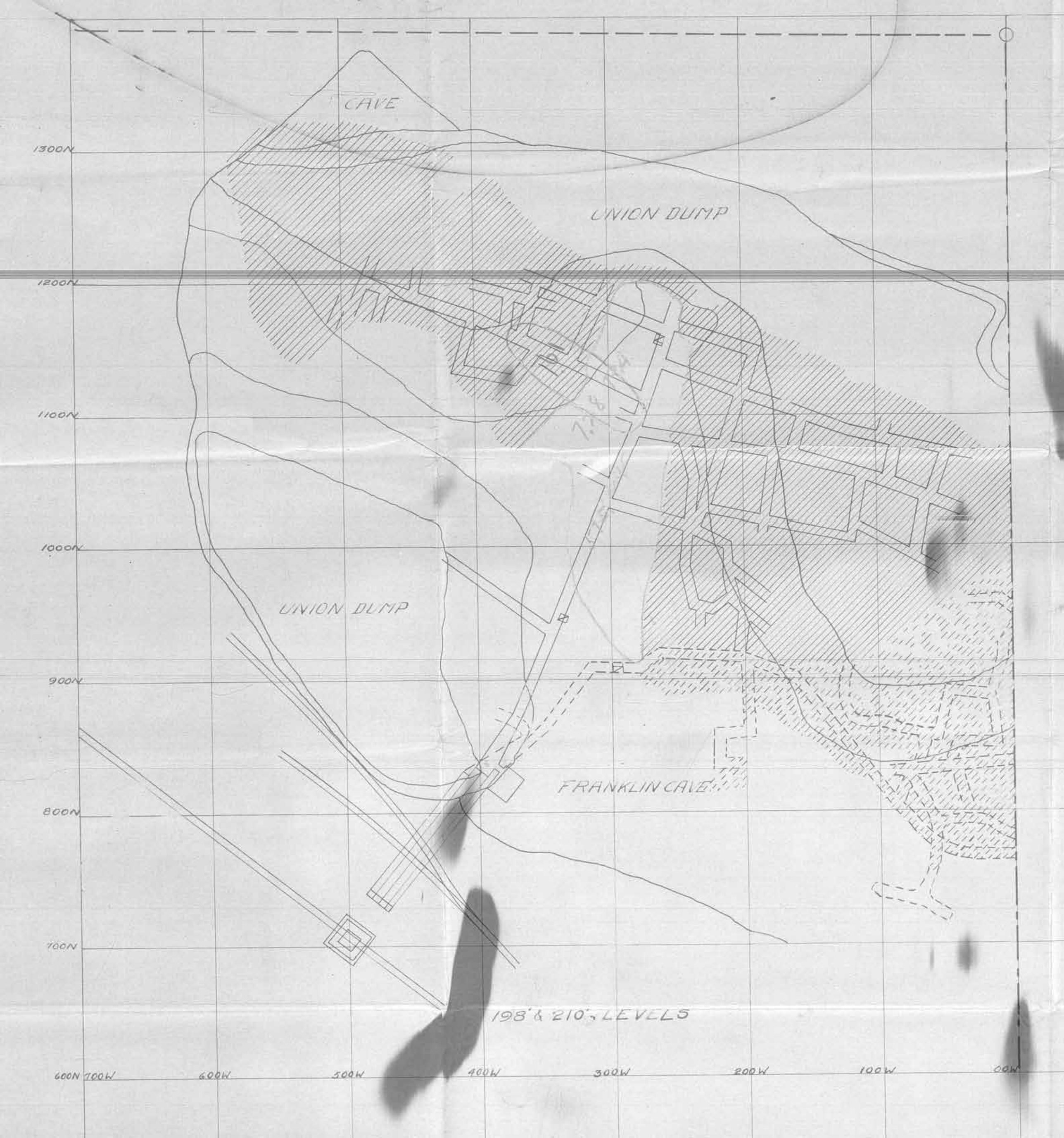
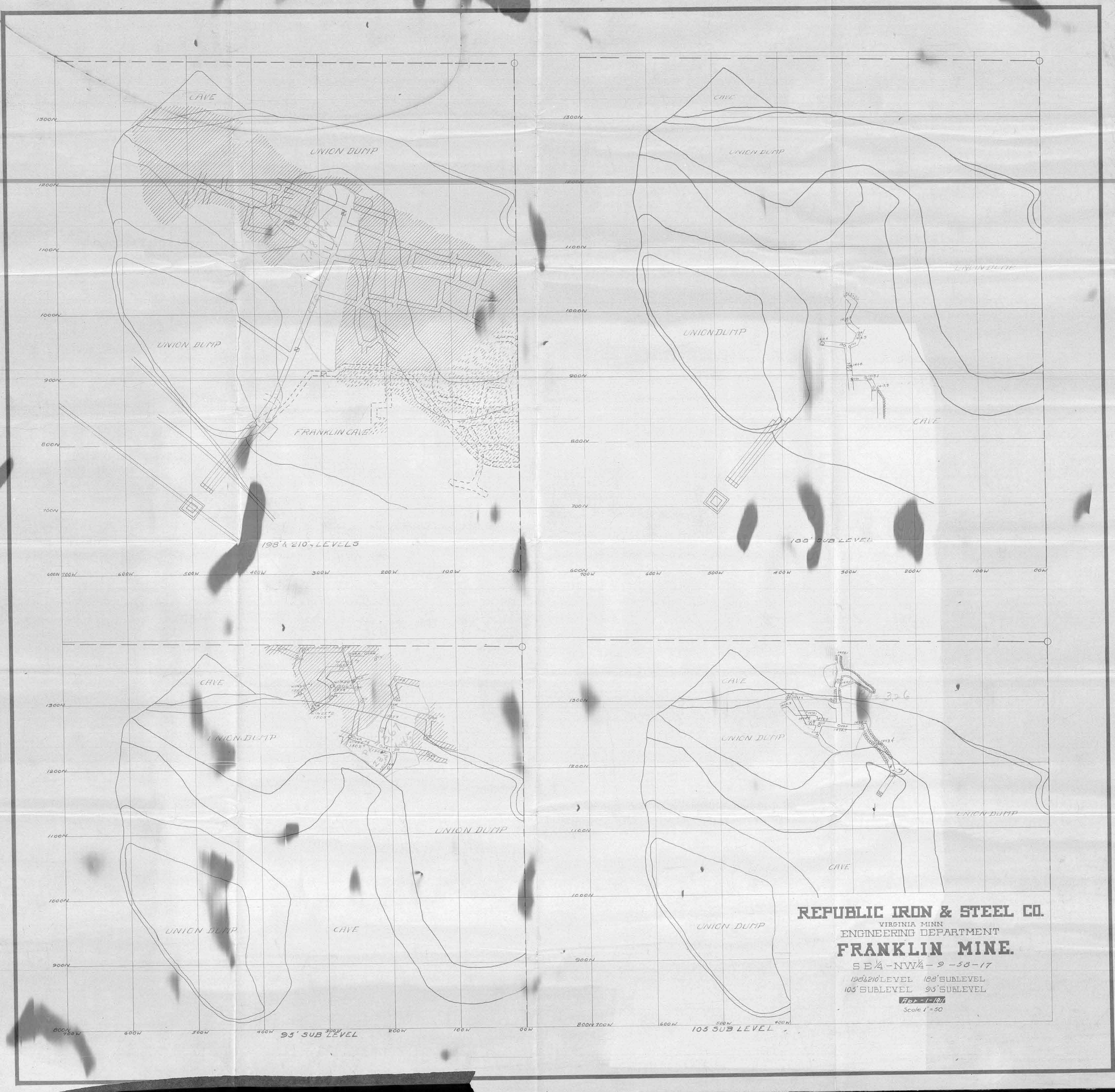

NE-NW
NW-NE
NE-NE
UNION
OPEN PIT
M. P. & L. CO. R.
D. M. & I. R. RY.
SHAFT
CAVE
SCHOOL
SHAFT
CAVED AREA
FRANKLIN LOCATION
FRANKLIN
SE-NW
JULIA
SW-NE
CAVED AREA
O. I. M. CO.
SE-NE
STRIPPING DUMP
SHAFT
9
T58N R17W
ROCK DUMP
NORMAN
NE-SW
NORMAN OPEN PIT
JULIA
NW-SE
MINN. L. & T. CO.
NE-SE
SHAFT
CAVED AREA
SHAFT
YAWKEY
SE-SW
VICTORIA
SW-SE
VICTORIA
SE-SE
TO STRIPPING DUMPS
RR
O. I. M. CO. TRACKS
MINNEWAS
NE-NW
M. P. & L. CO. POWER LINE
ALBERTA
NW-NE
ALBERTA
NE-NE
RR
RR
MISSABE MT.
MINNEWAS L.O.
LEAN ORE
ORE AND ROCK DUMPS
ALBERTA
ALBERTA
SE-NE

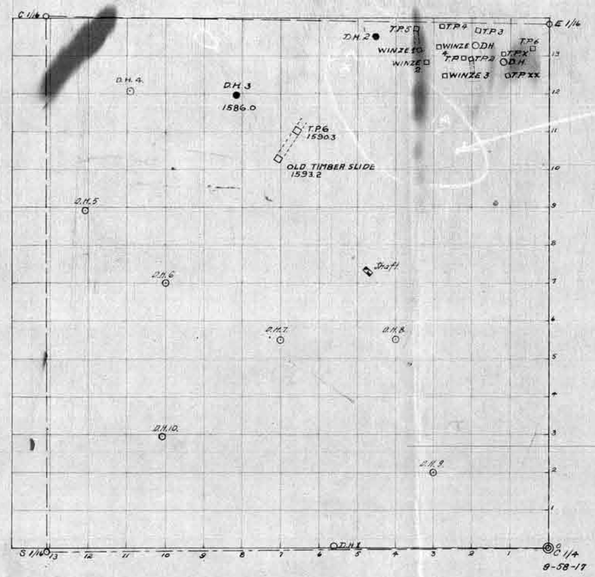

CAVE
UNION DUMP
UNION DUMP
CAVE
UNION DUMP
1300N
1200N
1100N
1000N
900N
800N
700W
600W
500W
400W
105 SUB LEVEL
REPUBLIC IRON & STEEL CO.
VIRGINIA MINN
ENGINEERING DEPARTMENT
FRANKLIN MINE.
SE¼-NW¼-9-58-17
198'&210' LEVEL 188' SUBLEVEL
105' SUBLEVEL 95' SUBLEVEL
Apr-1-1917
Scale 1" = 50

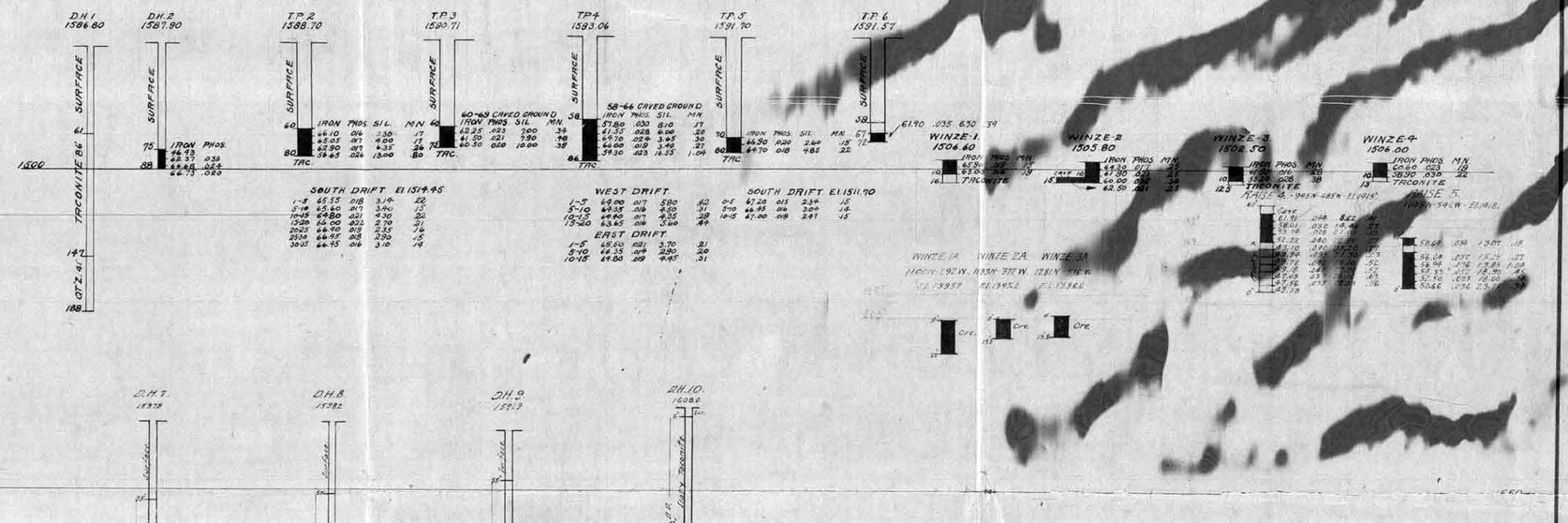

CAVE
1300N
UNION DUMP
1200N
1100N
UNION DUMP
1000N
UNION DUMP
900N
CAVE
800N
700N
100' SUB LEVEL
600N
700W
600W
500W
400W
300W
200W
100W
00W

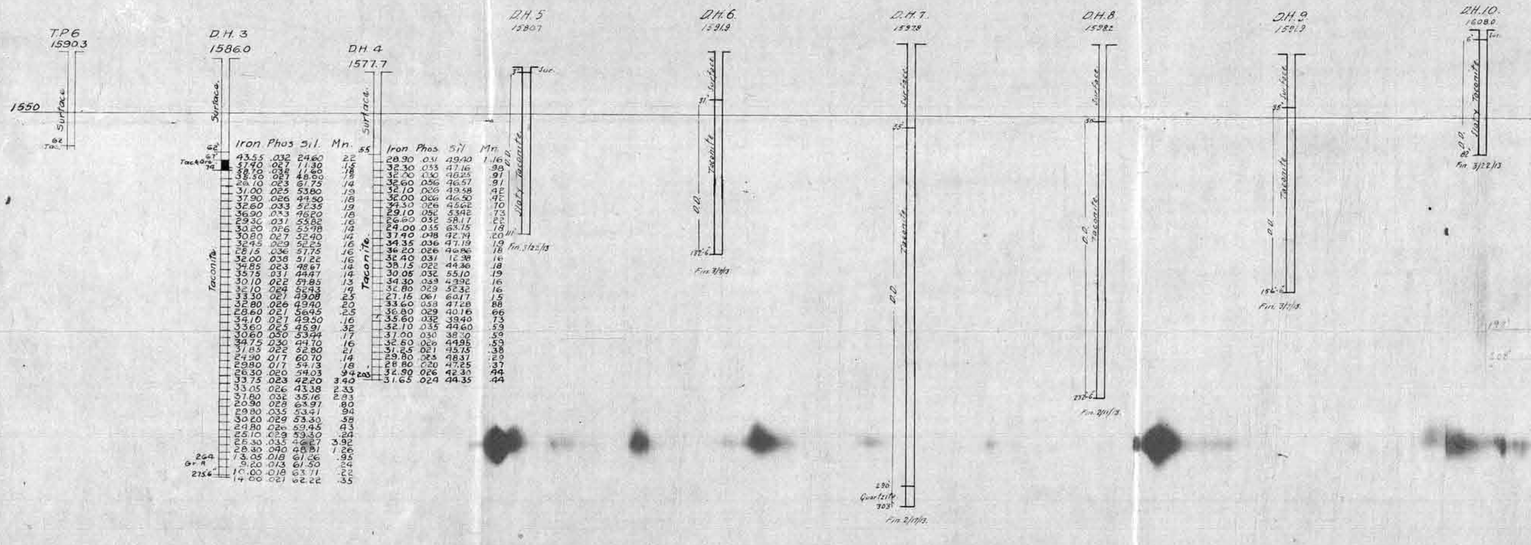

CAVE
UNION DUMP
UNION DUMP
FRANKLIN CAVE
198' & 210' LEVELS
1300N
1200N
1100N
1000N
900N
800N
700N
600N
700W
600W
500W
400W
300W
200W
100W
00W

CAVE
UNION DUMP
UNION DUMP
UNION DUMP
CAVE
1300N
1200N
1100N
1000N
900N
800N
700W
600W
500W
400W
300W
200W
100W
00W
95' SUB LEVEL


CAVE
UNION DUMP
FRANKLIN CAVE
198' & 210' LEVELS
188' SUB LEVEL
95' SUB LEVEL
105 SUB LEVEL
1300N
1200N
1100N
1000N
900N
800N
700N
600N
700W
600W
500W
400W
300W
200W
100W
00W
REPUBLIC IRON & STEEL CO.
VIRGINIA MINN
ENGINEERING DEPARTMENT
FRANKLIN MINE.
SE¼-NW¼-9-58-17
198&210' LEVEL 188' SUBLEVEL
105' SUBLEVEL 95' SUBLEVEL
Plot-1-1911
Scale 1" = 50







REPUBLIC IRON & STEEL CO.

VIRGINIA MINN.

ENGINEERING DEPARTMENT

EXPLORATION

SE¼-NW¼-9-58-17

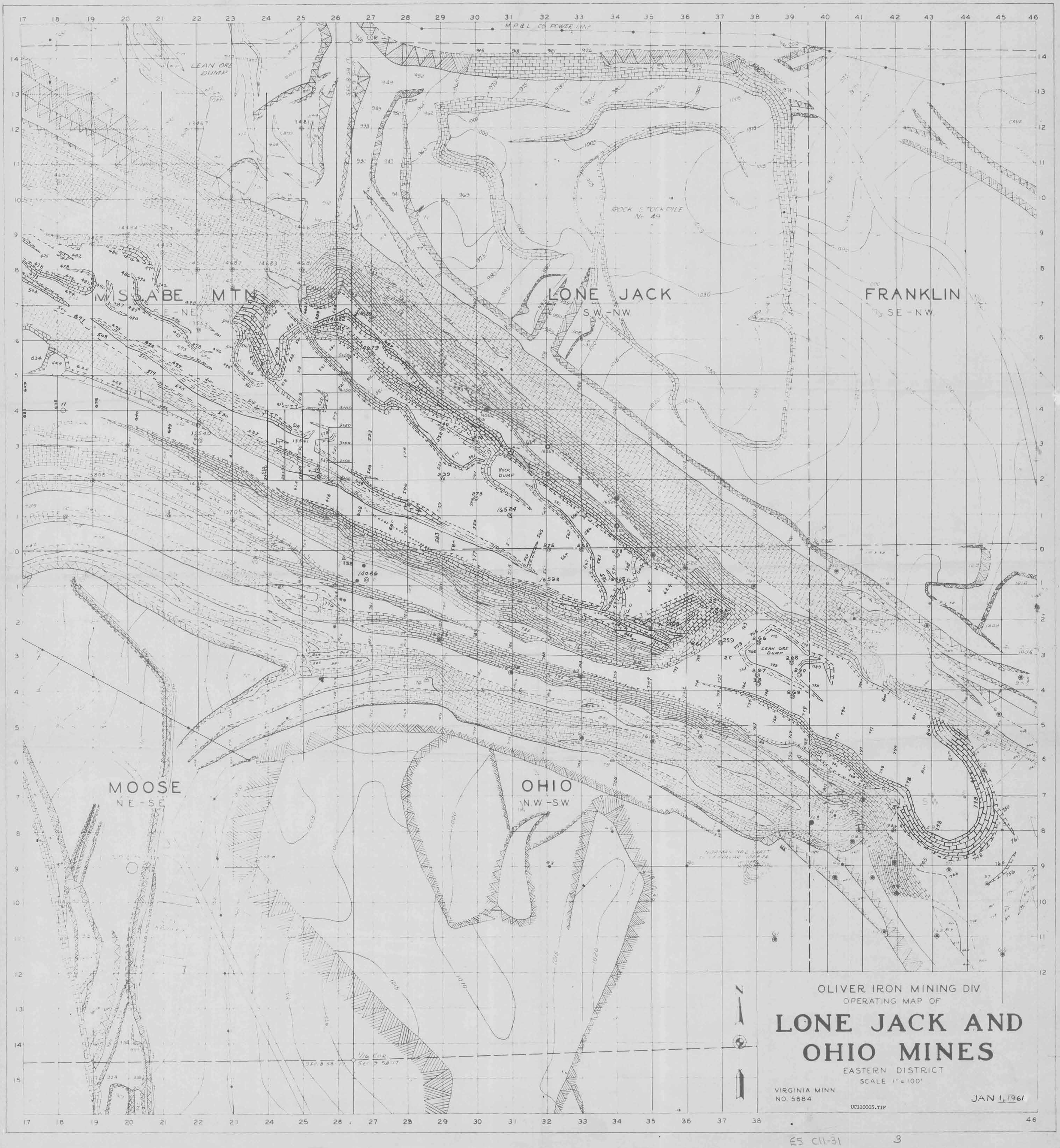
FRANKLIN

JAN 1 1916

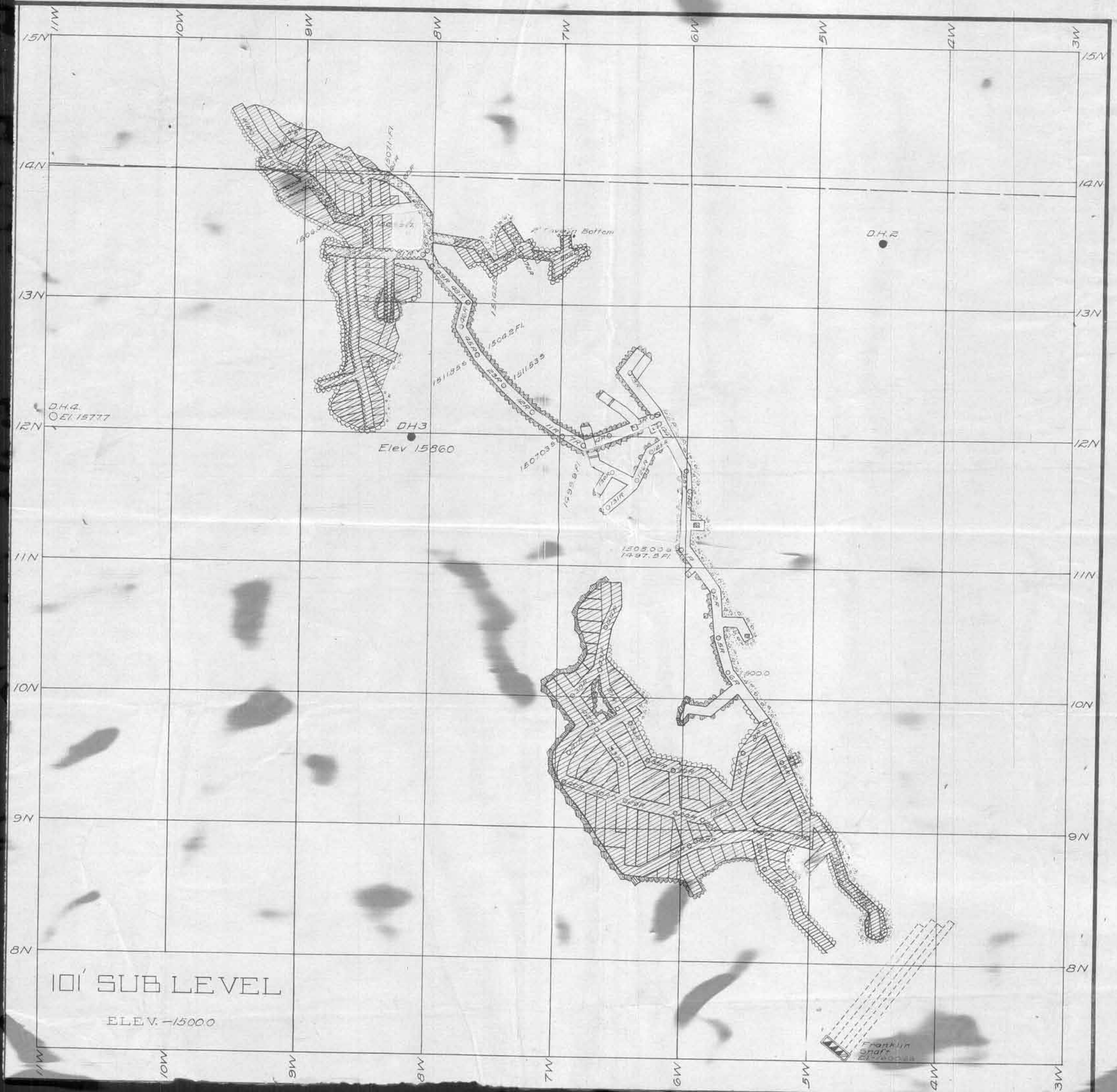
Scale of plat 1" = 200' Scale of holes 1" = 50'

1-E-54

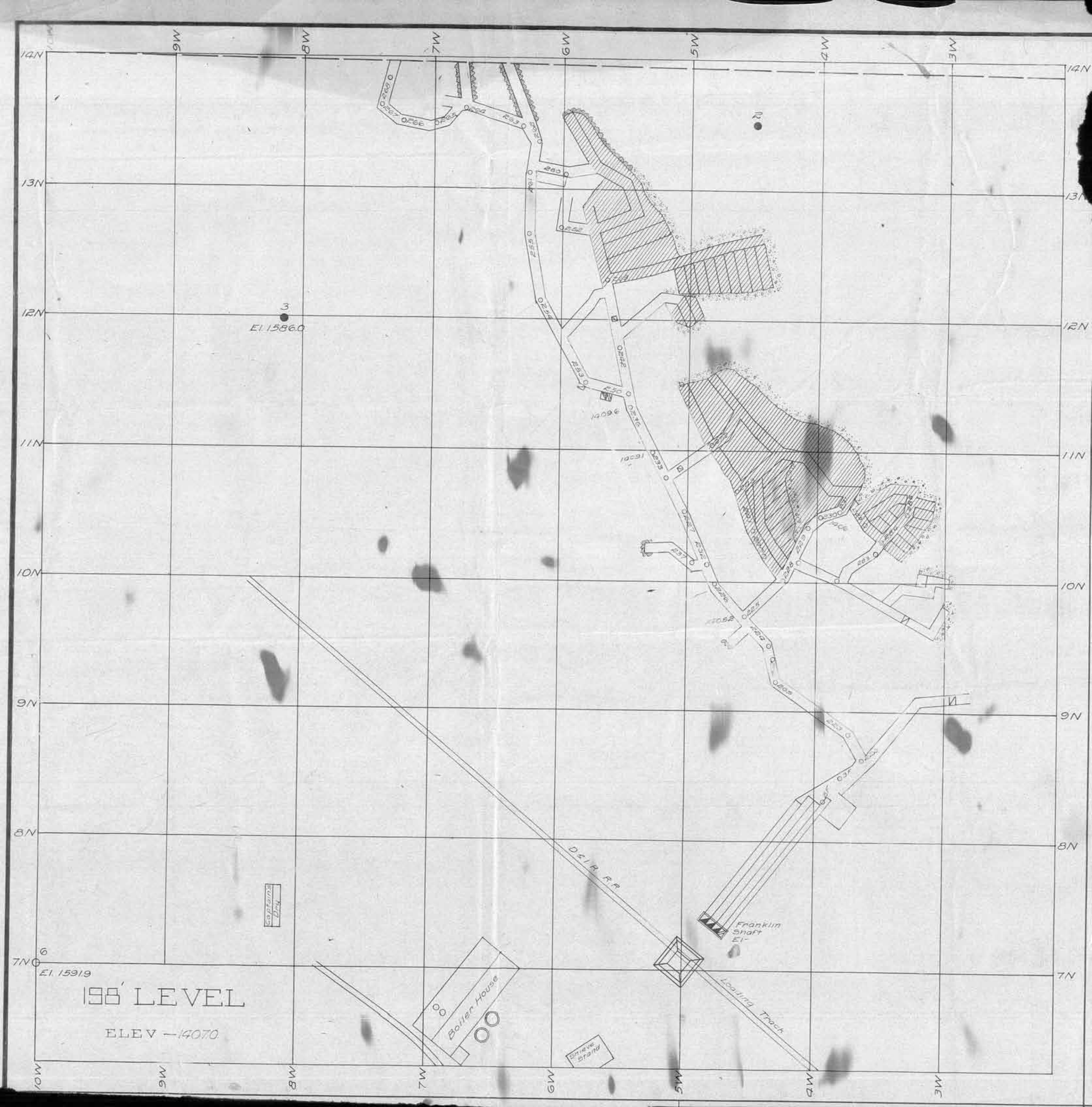
OLIVER IRON MINING CO.
TOPOGRAPHIC MAP OF
VIRGINIA DISTRICT
MESABI RANGE
SCALE
1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
MILES
LAKE SUPERIOR DATUM
1911
ENGINEERING DEPT.
VIRGINIA, MINN.
JAN. 1, 1930.
LEGEND
VIRGINIA LAKE
SILVER LAKE
SILVER
ALPENA
MINORCA
LINCOLN
HIBBARD MOUNTAIN
HIBBARD MOUNTAIN MIL.
WACOOTAH
HANNA
BRUNT
IROQUOIS
PILLSBURY
ADAMS SECURITY CO.
ALLAN
DREAN
J.M. THOMAS
R.B. WHITESIDE
J.O.A. CROSBY
LOPER & RUMBEY
C. DAUTREMONT
F. WOODWARD
F. PINGLE
W.K. DOLE
E.L. BRADLEY
BOULDER MOUNTAIN IRON CO.
C. RASDAHL
T.H. KELLY
O.H. HILL
S. McKINLEY
H.W. BIBLEY
A.B. McKINLEY
W. BUCKLEY
W.S.
JUDSON
B.N.
G.N.
STATE
M.R.
AETNA FEE & MIL.
RATHBUN FEE
E.E. HARTNDALE
E.B. POTTER
OLOGUET LUMBER CO.
SPENCER
VILLAGE OF MT. IRON
J.A. CHORNE
M. PATTISON
N.P.
V.&R.L.
H.P.
M.L.&T. CO.
NORMAN
JULIA
VICTORIA FEE
COPLOGGRE
LINCOLN FEE
COUNTRY FEE
SAUNTRY FEE
MINORCA STATE
HIGGINS FEE
LINCOLN FEE
LINCOLN FEE
LINCOLN

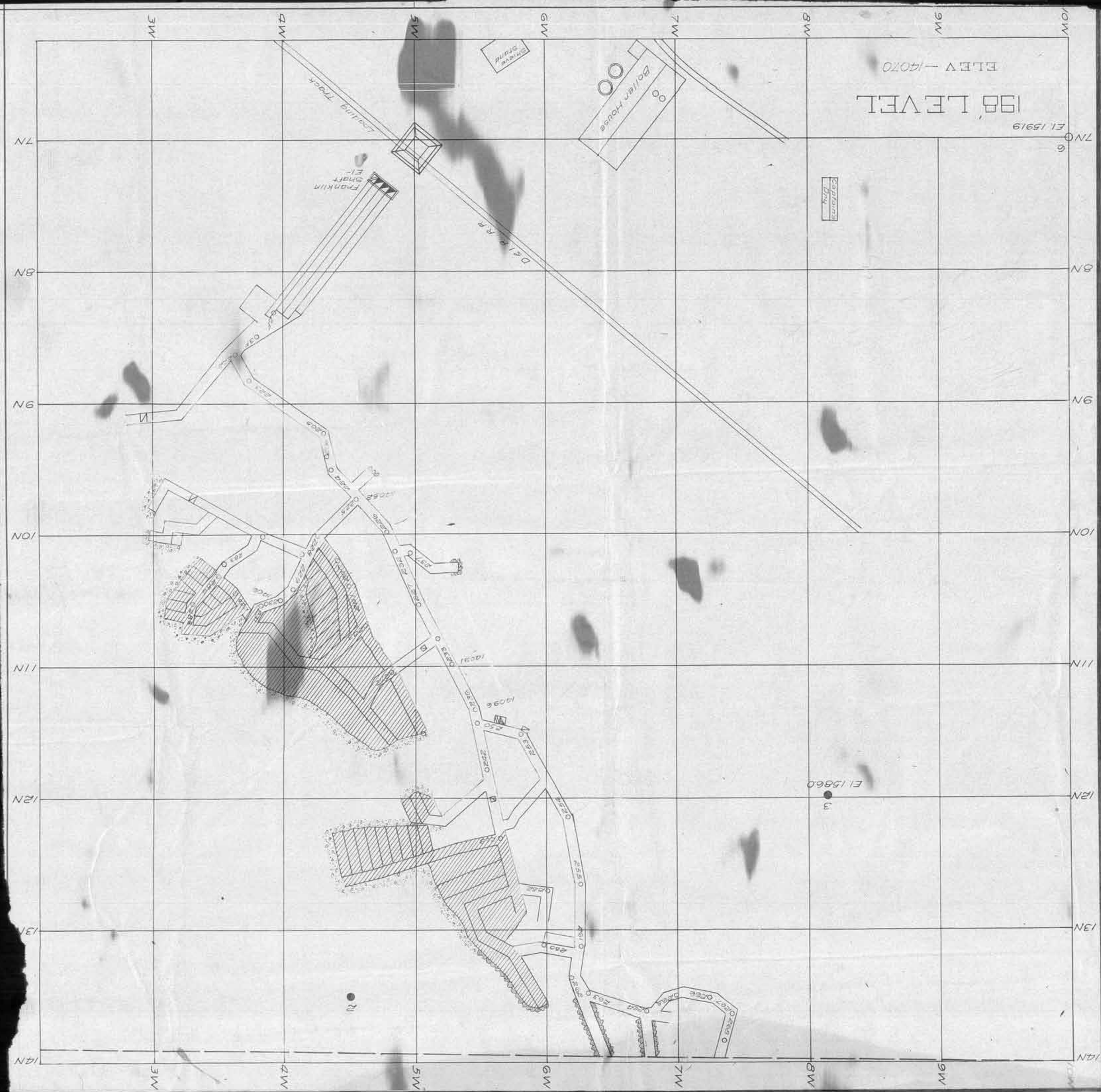

M P & L CO POWER LINE
LEAN ORE DUMP
MISSABE MTN
SE-NE
LONE JACK
SW-NW
FRANKLIN
SE-NW
ROCK & TOCK PILE No 4
ROCK DUMP
LEAN ORE DUMP
MOOSE
NE-SE
OHIO
NW-SW
1/16 COR
SEC 8 58-17
SEC 9 58-17
OLIVER IRON MINING DIV.
OPERATING MAP OF
LONE JACK AND OHIO MINES
EASTERN DISTRICT
SCALE 1" = 100'
VIRGINIA MINN
NO. 5884
JAN 1, 1961
UC110005.TIF

E5 C11-31 3

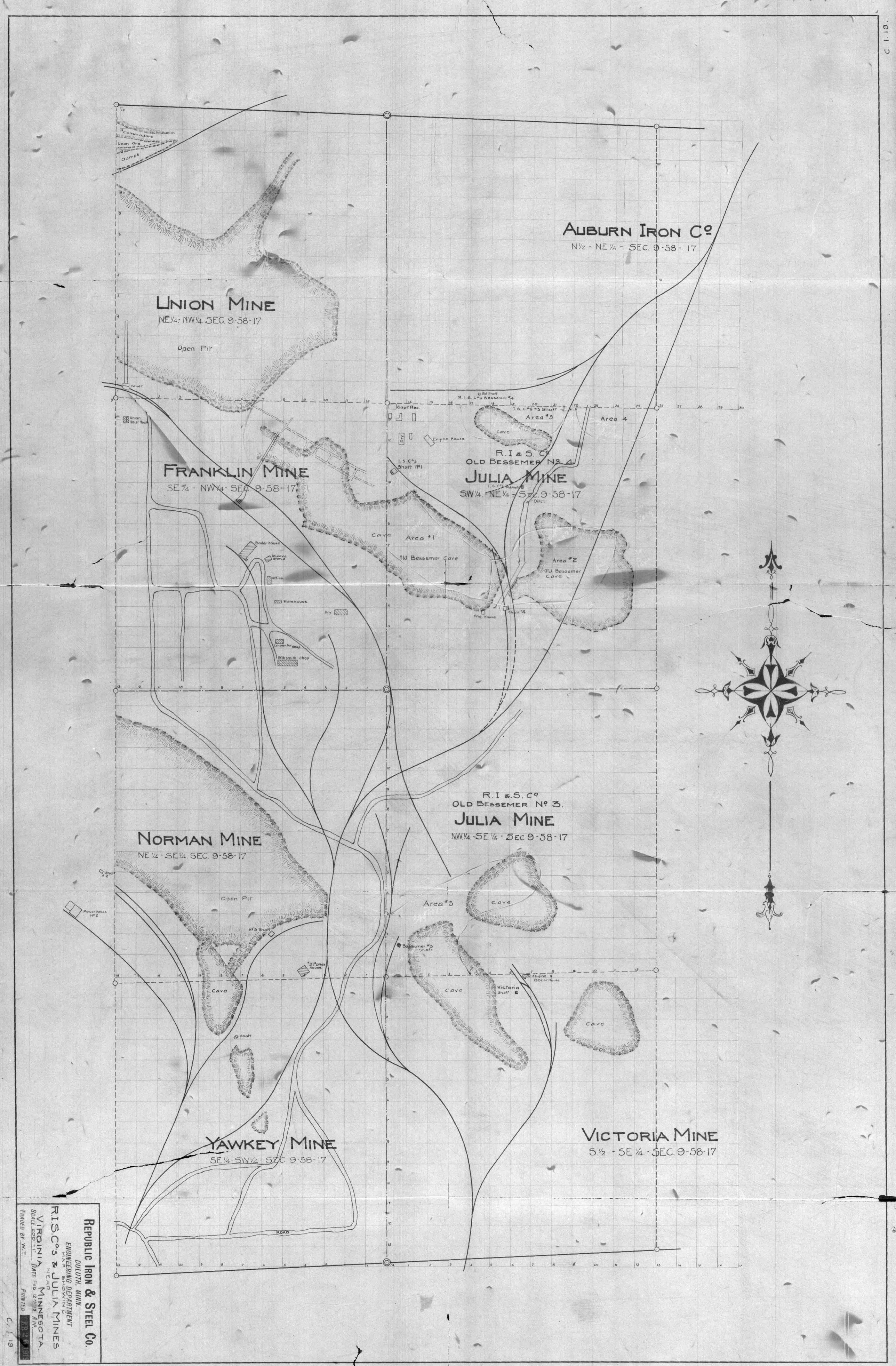

101' SUB LEVEL
ELEV. -1500.0
DH3
Elev 15860
D.H.4.
El. 15777
D.H.2
Franklin Bottom
Franklin Shaft
15N
14N
13N
12N
11N
10N
9N
8N
11W
10W
9W
8W
7W
6W
5W
4W
3W

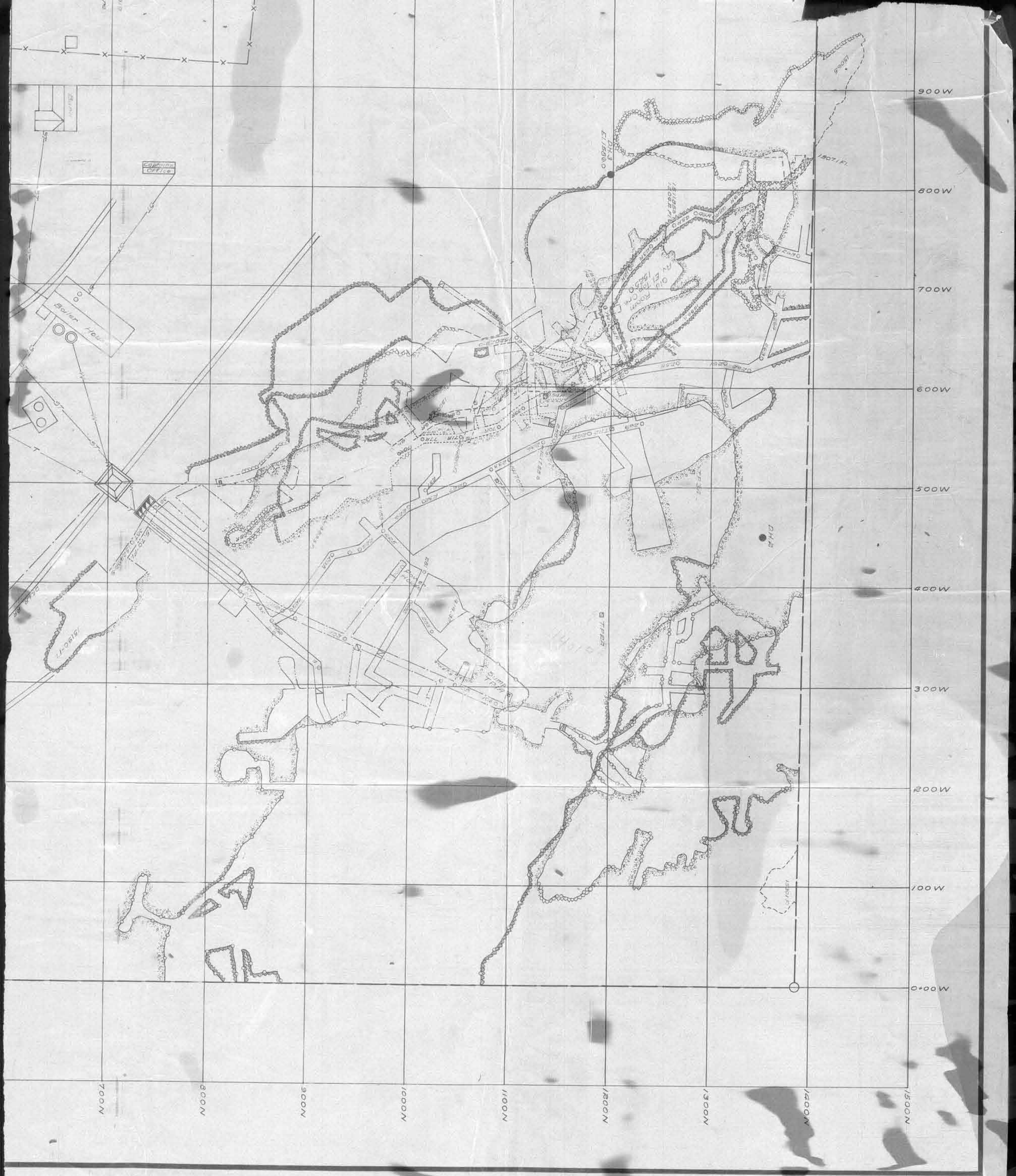
11W
10W
9W
8W
7W
6W
5W
4W
3W
14N
13N
12N
11N
10N
9N
8N
7N
D.H. 2
D.H. 4
El. 15777
D.H. 3
1586.0
136R
132R
103R
116R
119R
135R
54R
59R
70R
120
71R
127R
77R
14870
14850
14893
115' SUB LEVEL
ELEV.-1486.0


198' LEVEL
ELEV — 14070
El. 15919
El. 1586.0
Boiler House
Captains Dry
Grieve Stand
Franklin Shaft
El-
D&I R.R.
Loading Track
14N
13N
12N
11N
10N
9N
8N
7N
10W
9W
8W
7W
6W
5W
4W
3W


198' LEVEL
ELEV -14070
El 15919
Boiler House
Engine Stand
Loading Track
Franklin Shaft El-
D & L R.R.
Carpenter Dry
El 15860
3
12
7N
8N
9N
10N
11N
12N
13N
14N
3W
4W
5W
6W
7W
8W
9W
10W

10W
9W
8W
7W
6W
5W
4W
3W
2W
14N
13N
12N
11N
10N
9N
8N
7N
D.H. 2
D.H. 3
El. 1586.0
Av. El. Top of Ore Room 1525.0
El. Collar 1568.83
Franklin Shaft
El.-
DH 6
1591.9 El.
91' SUB LEVEL
ELEV.- 1512.0


Commodore
Lean Ore
Dumps
Union Mine
NE¼ - NW¼ SEC. 9-58-17
Open Pit
Shaft
Union Hoist House
Auburn Iron Co
N½ - NE¼ - SEC. 9-58-17
Old Shaft
R.I.S. Co's Bessemer #4
Capt Res.
I.S. Co's #3 Shaft
Area #3
Area 4
Cave
Engine House
R.I & S. Co
Old Bessemer No 4
Julia Mine
SW¼ - NE¼ - SEC. 9-58-17
I.S. Co's Shaft No 1
Franklin Mine
SE¼ - NW¼ - SEC. 9-58-17
Ditch
Cave
Area #1
Old Bessemer Cave
Area #2
Old Bessemer Cave
Boiler House
Sheave Stand
Office
Warehouse
Dry
Eng House
Shaft #4
Carpenter Shop
Blk smith Shop
R.I & S. Co
Old Bessemer No 3.
Julia Mine
NW¼ - SE¼ - SEC 9-58-17
Norman Mine
NE¼ - SE¼ - SEC. 9-58-17
Shaft #2
Open Pit
Power House No 2
Area #5
Cave
No 3 Shaft
Bessemer #3 Shaft
#3 Power House
Cave
Cave
Engine & Boiler House
Victoria Shaft
Cave
Shaft
Yawkey Mine
SE¼ - SW¼ - SEC 9-58-17
Victoria Mine
S½ - SE¼ - SEC. 9-58-17
ROAD
Republic Iron & Steel Co.
Duluth, Minn.
Engineering Department
Map Showing
R.I.S.Co's & Julia Mines
Near
Virginia Minnesota.
Scale 200 = 1"
Date Feb 12th 1918
Traced by W.T.
Printed
FEB 28 1918
C. 1. 19


Barn
Captains Office
Boiler House
Old Engine Room
Old Top Room
Sump Tank
DH 3
DH 2
900W
800W
700W
600W
500W
400W
300W
200W
100W
0+00W
700N
800N
900N
1000N
1100N
1200N
1300N
1400N
1500N