

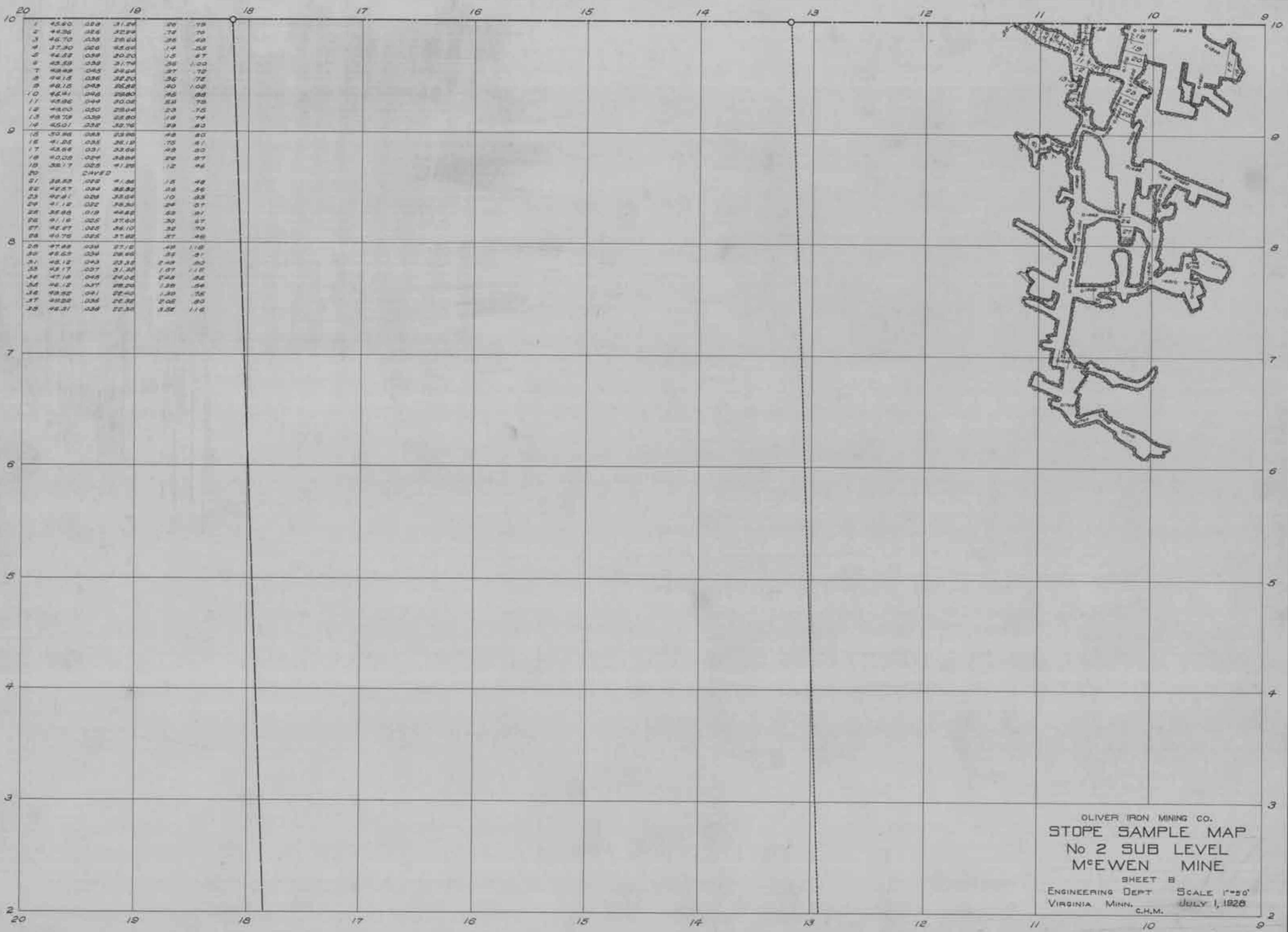
OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
 VIRGINIA DISTRICT

LEGEND

MAIN LEVEL	====	ELEV 7400	1" SUB	====	ELEV 8160
2" SUB	====	" 8040	3" "	====	" 7920
4" "	====	" 7800	5" "	====	" 7670
6" "	====	" 7550			

SCALE
 1" = 100'

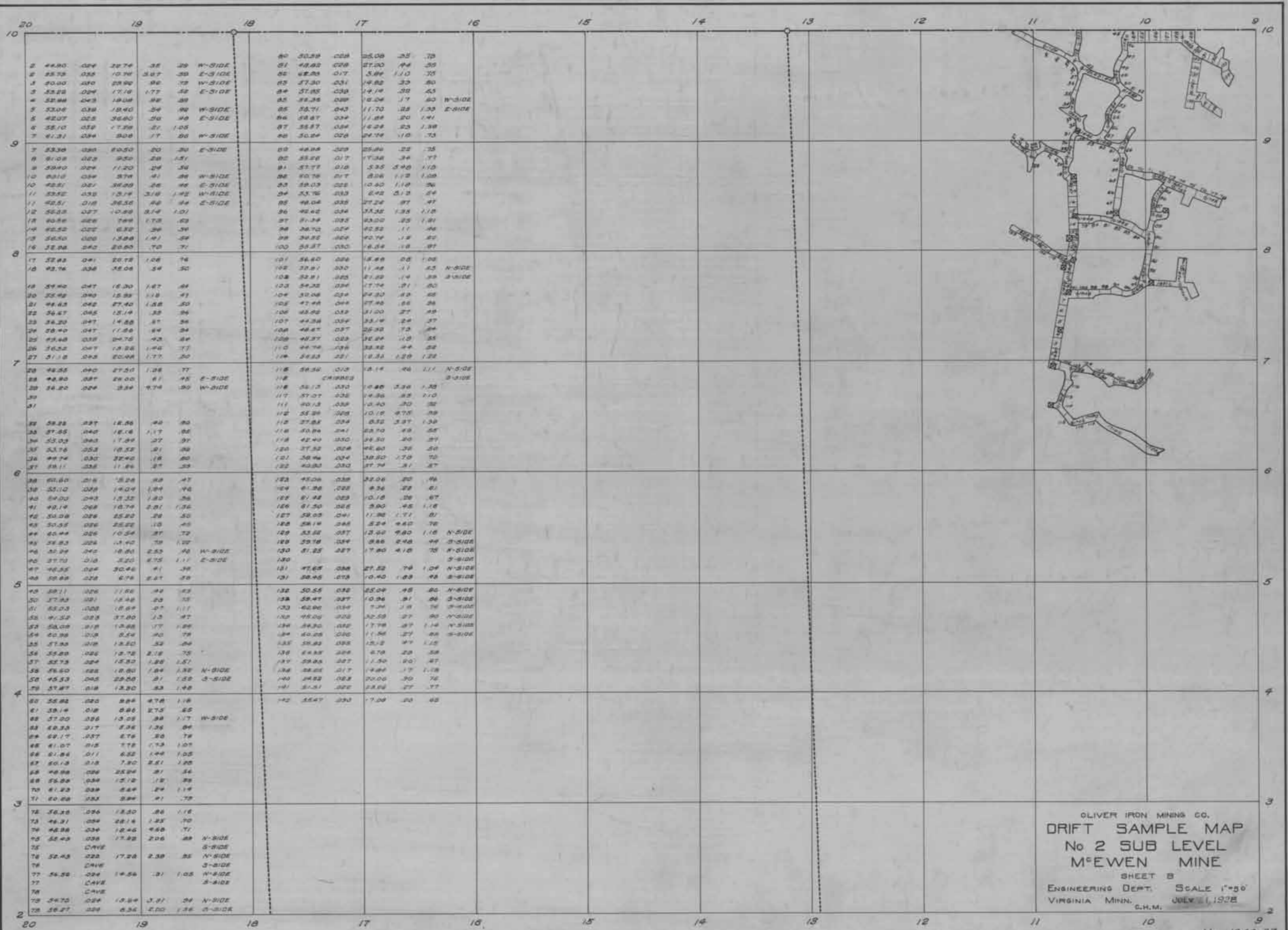
ENGINEERING DEPT. LAKE SUPERIOR DATUM
 VIRGINIA MINN. DECEMBER 1, 1927
 C.H.M.



1	45.90	0.89	31.24	29	78
2	44.36	0.86	32.99	79	79
3	44.70	0.85	32.63	36	49
4	37.30	0.80	45.04	14	53
5	44.32	0.89	30.20	15	67
6	43.59	0.88	31.74	58	100
7	49.99	0.95	29.21	37	72
8	44.15	0.86	32.20	36	72
9	44.15	0.89	32.82	40	108
10	42.41	0.85	33.60	46	89
11	45.90	0.94	30.02	54	78
12	44.00	0.80	32.64	23	75
13	49.79	0.89	28.20	19	74
14	45.01	0.88	32.76	39	63
15	30.86	0.83	33.98	48	80
16	41.05	0.85	32.13	70	67
17	43.66	0.87	32.64	49	80
18	40.00	0.89	33.94	29	87
19	38.77	0.85	41.20	12	46
20	CHYSD				
21	38.82	0.82	41.84	15	48
22	42.57	0.84	32.82	38	56
23	42.41	0.89	33.04	10	83
24	41.12	0.82	32.30	24	57
25	38.85	0.79	44.82	63	97
26	41.16	0.85	37.40	30	67
27	42.27	0.85	36.10	32	79
28	44.75	0.85	37.82	37	48
29	47.88	0.84	27.12	49	118
30	48.63	0.84	28.46	52	91
31	48.12	0.83	23.32	249	82
32	48.17	0.87	31.32	107	118
33	47.18	0.85	24.02	244	82
34	48.12	0.87	28.20	139	54
35	48.82	0.87	22.40	139	56
36	48.82	0.85	22.32	202	80
37	46.31	0.86	22.34	358	118

OLIVER IRON MINING CO.
 STOPE SAMPLE MAP
 No 2 SUB LEVEL
 M'EWEN MINE
 SHEET B
 ENGINEERING DEPT. SCALE 1"=20'
 VIRGINIA MINN. JULY 1, 1926
 C.H.M.

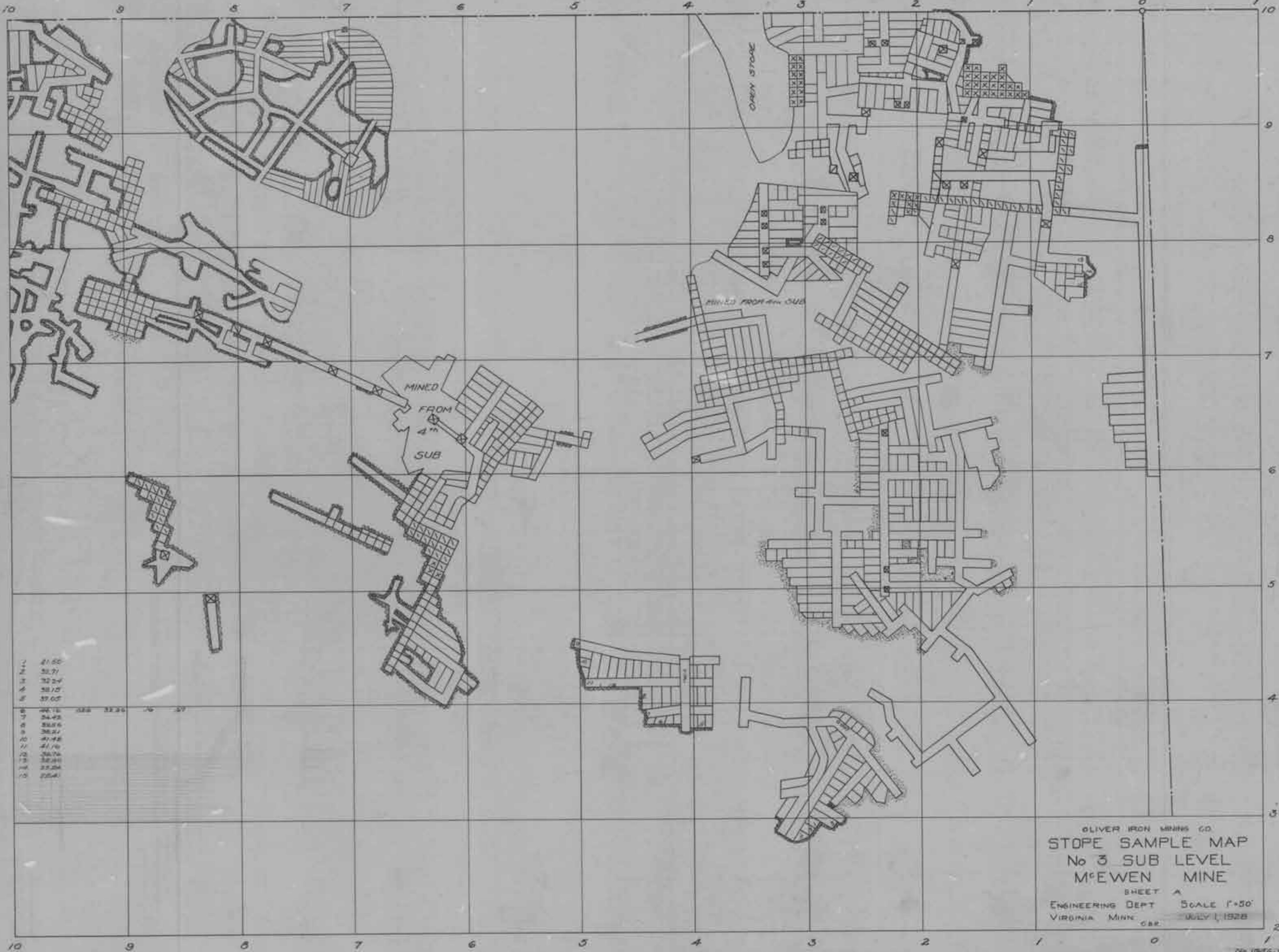
No 1946-57



OLIVER IRON MINING CO.
 DRIFT SAMPLE MAP
 No 2 SUB LEVEL
 McEWEN MINE
 SHEET B
 ENGINEERING DEPT. SCALE 1"=50'
 VIRGINIA MINN. JULY 1, 1928
 C.H.M.



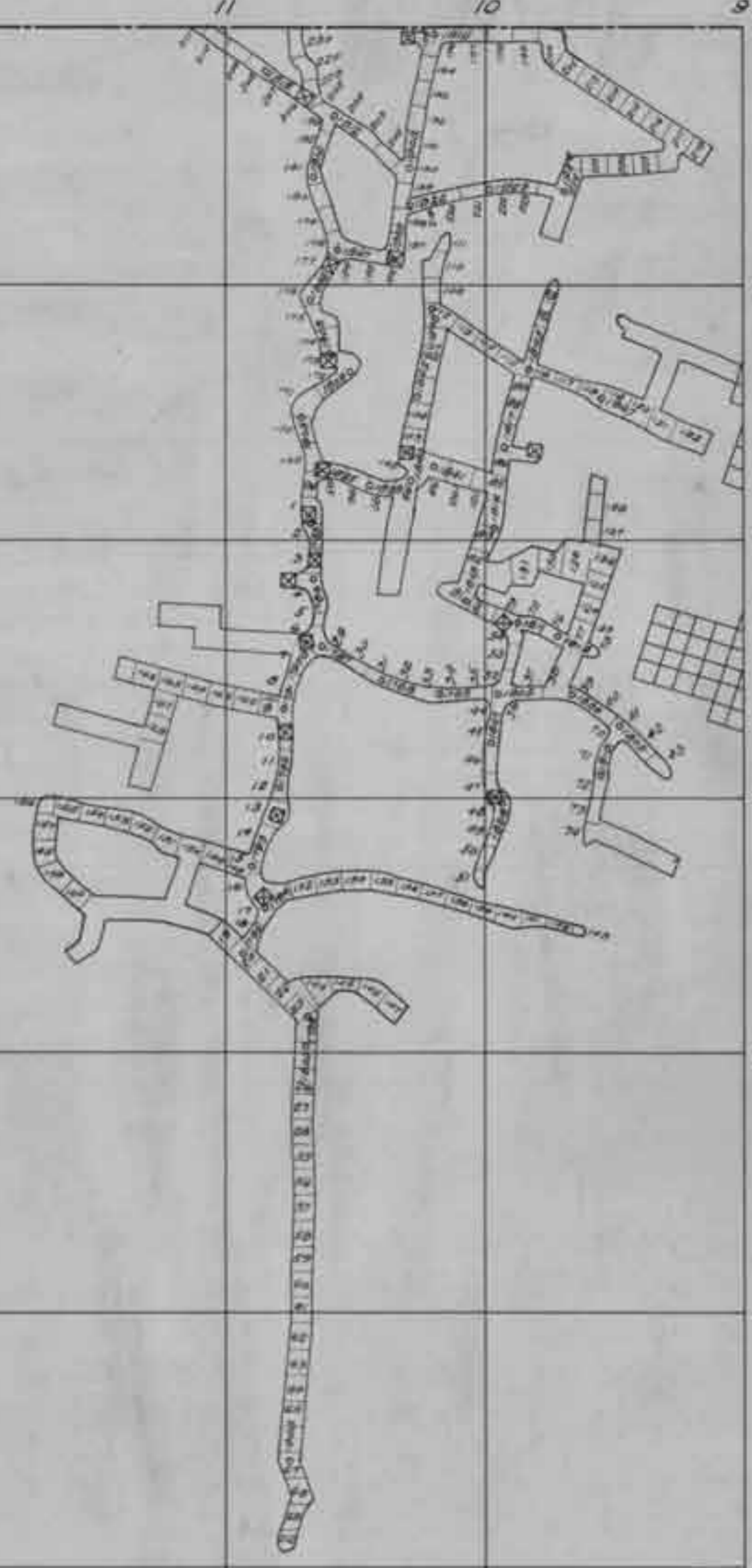
OLIVER IRON MINING CO.
DRIFT SAMPLE MAP
No 3 SUB LEVEL
McEWEN MINE
 SHEET A
 ENGINEERING DEPT. SCALE 1"=50'
 VIRGINIA, MINN. JULY, 1926
 C.H.M.



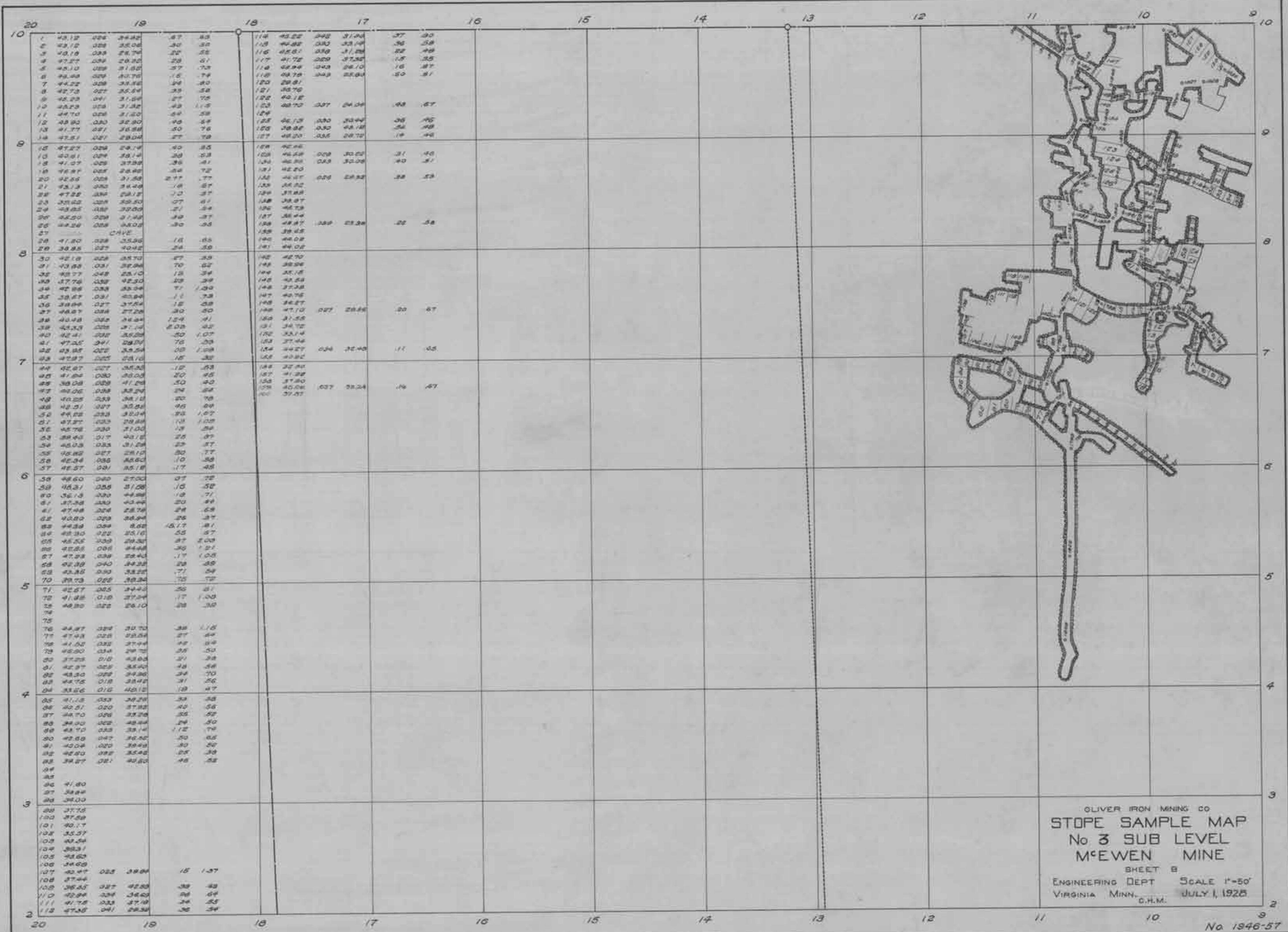
21.50	
21.71	
22.24	
22.75	
23.05	
24.11	22.22
24.22	22.22
24.55	
25.21	
27.42	
27.76	
28.20	
27.24	
25.61	

OLIVER IRON MINING CO.
 STOPE SAMPLE MAP
 No 3 SUB LEVEL
 McEWEN MINE
 SHEET A
 ENGINEERING DEPT SCALE 1"=50'
 VIRGINIA MINN. CORP. JULY 1, 1928

20	19	18	17	16	15	14	13	12	11	10	9
10	1	2	3	4	5	6	7	8	9	10	11
9	11	12	13	14	15	16	17	18	19	20	21
8	22	23	24	25	26	27	28	29	30	31	32
7	33	34	35	36	37	38	39	40	41	42	43
6	44	45	46	47	48	49	50	51	52	53	54
5	55	56	57	58	59	60	61	62	63	64	65
4	66	67	68	69	70	71	72	73	74	75	76
3	77	78	79	80	81	82	83	84	85	86	87
2	88	89	90	91	92	93	94	95	96	97	98

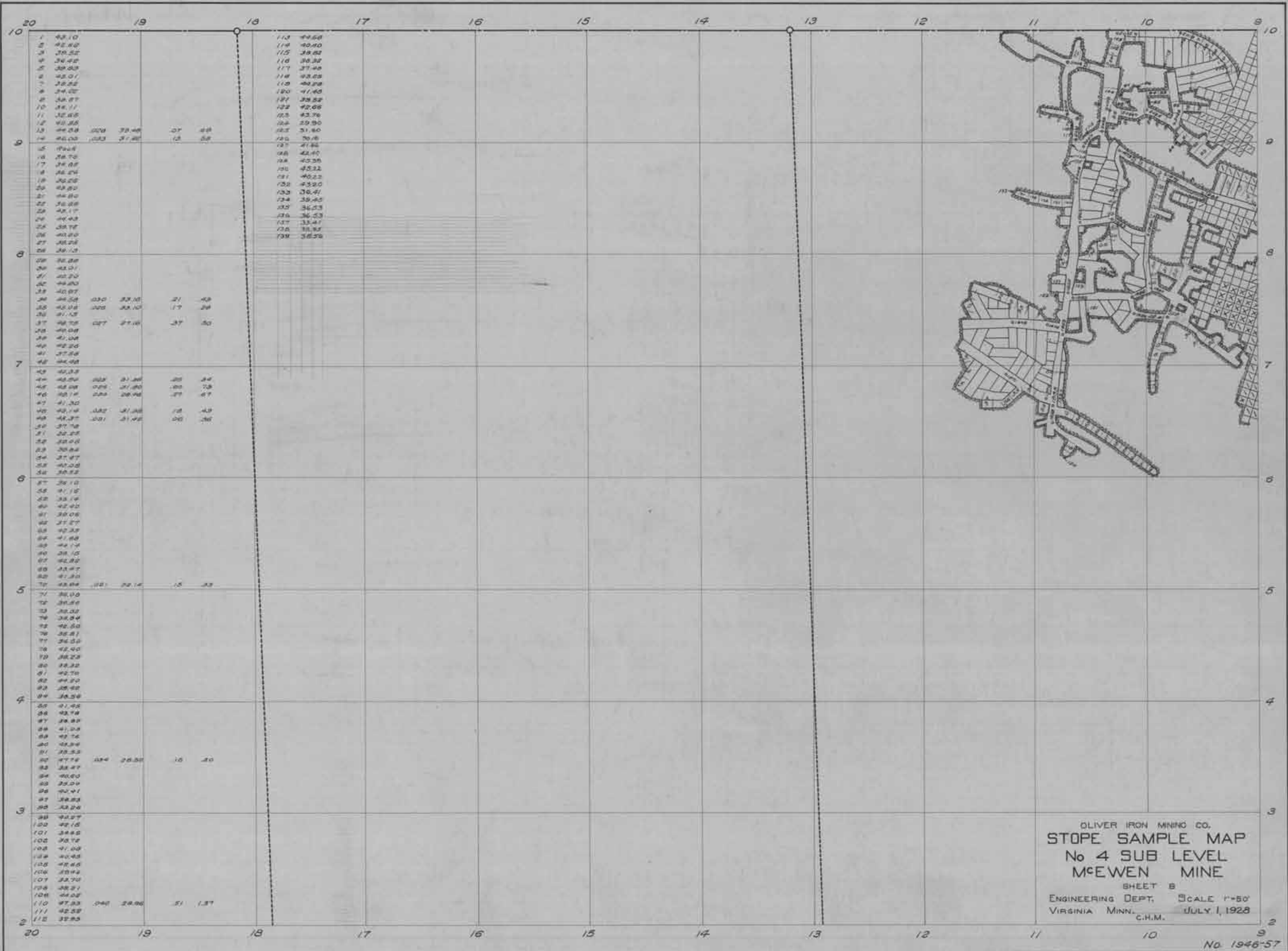


OLIVER IRON MINING CO.
DRIFT SAMPLE MAP
 No 3 SUB LEVEL
 M^cEWEEN MINE
 SHEET B
 ENGINEERING DEPT. SCALE 1"=50'
 VIRGINIA MINN. JULY 1, 1938
 O.H.M.



OLIVER IRON MINING CO
 STOPE SAMPLE MAP
 No 3 SUB LEVEL
 McEWEN MINE
 SHEET B
 ENGINEERING DEPT SCALE 1"=50'
 VIRGINIA MINN. JULY 1, 1925
 C.H.M.

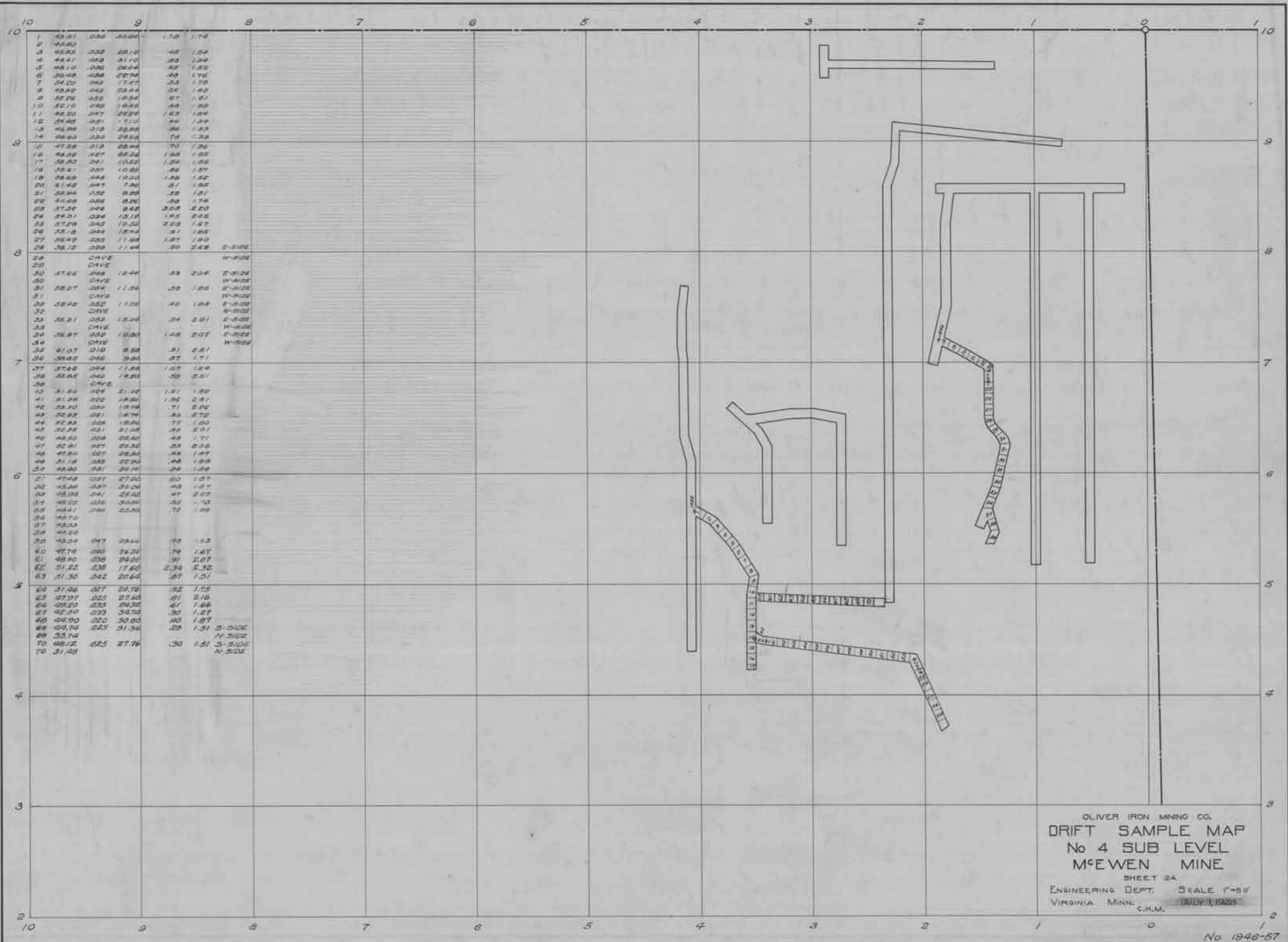
No 1946-57



OLIVER IRON MINING CO.
STOPE SAMPLE MAP
 No. 4 SUB LEVEL
 McEWEN MINE
 SHEET B
 ENGINEERING DEPT. SCALE 1"=50'
 VIRGINIA MINN. JULY 1, 1928
 C.H.M.

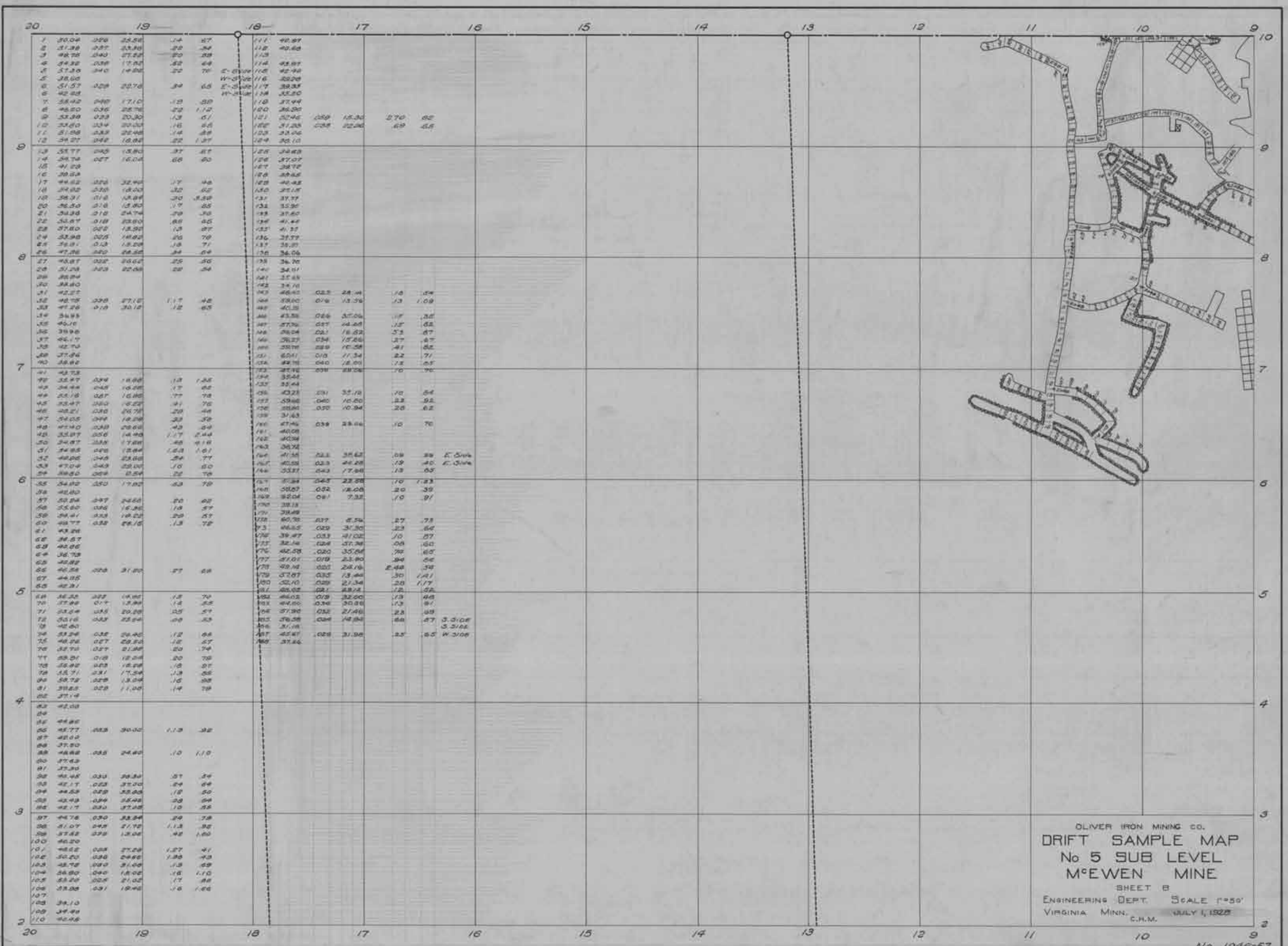
No. 1946-57

NO. 1946 (SHEET 1) DWH-4-L CRT 3 FILE 62



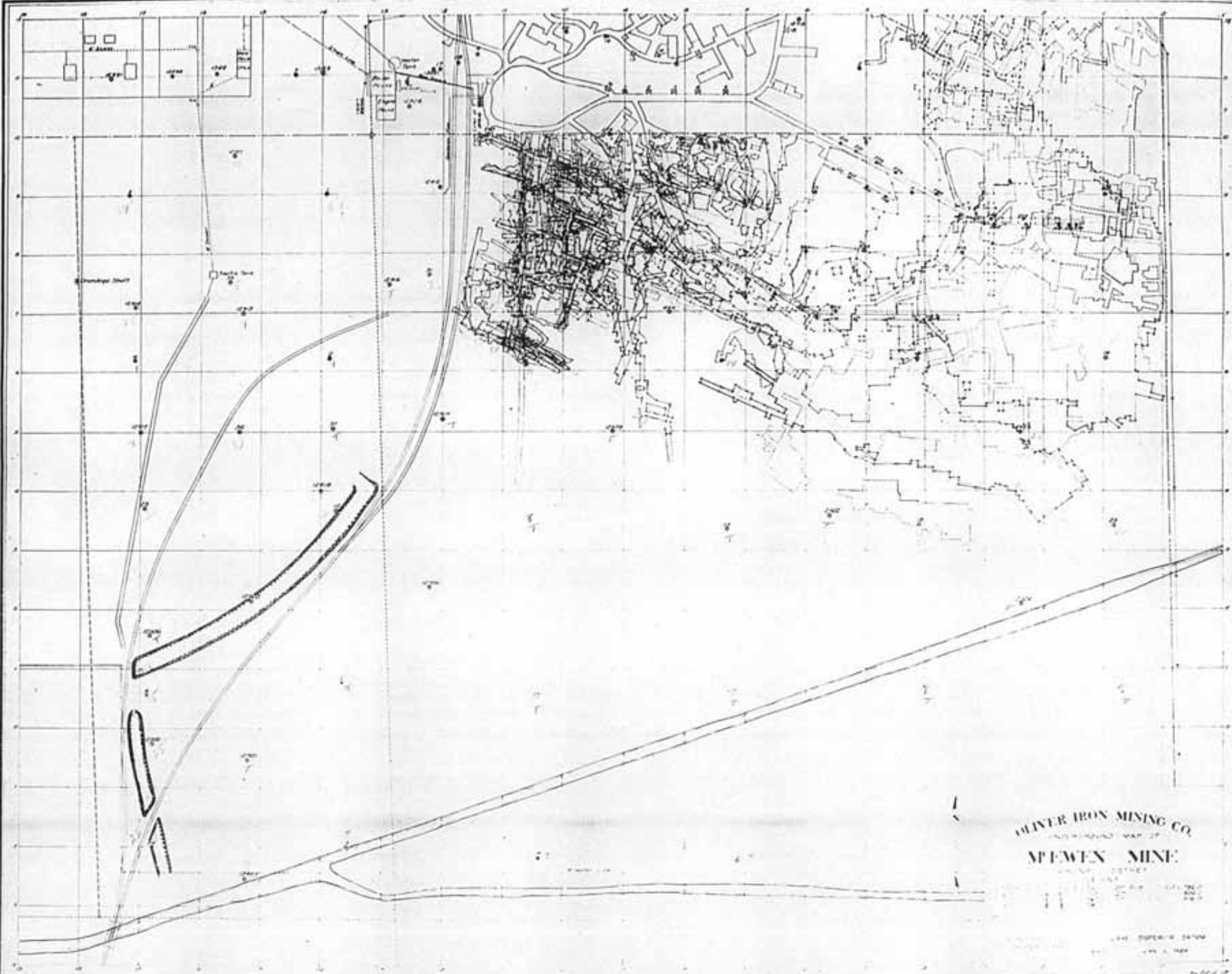
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5	49.89	088	20.84	1.78	1.78
6	49.91	088	20.84	1.78	1.78
7	49.93	088	20.84	1.78	1.78
8	49.95	088	20.84	1.78	1.78
9	49.97	088	20.84	1.78	1.78
10	49.99	088	20.84	1.78	1.78
11	50.01	088	20.84	1.78	1.78
12	50.03	088	20.84	1.78	1.78
13	50.05	088	20.84	1.78	1.78
14	50.07	088	20.84	1.78	1.78
15	50.09	088	20.84	1.78	1.78
16	50.11	088	20.84	1.78	1.78
17	50.13	088	20.84	1.78	1.78
18	50.15	088	20.84	1.78	1.78
19	50.17	088	20.84	1.78	1.78
20	50.19	088	20.84	1.78	1.78
21	50.21	088	20.84	1.78	1.78
22	50.23	088	20.84	1.78	1.78
23	50.25	088	20.84	1.78	1.78
24	50.27	088	20.84	1.78	1.78
25	50.29	088	20.84	1.78	1.78
26	50.31	088	20.84	1.78	1.78
27	50.33	088	20.84	1.78	1.78
28	50.35	088	20.84	1.78	1.78
29	50.37	088	20.84	1.78	1.78
30	50.39	088	20.84	1.78	1.78
31	50.41	088	20.84	1.78	1.78
32	50.43	088	20.84	1.78	1.78
33	50.45	088	20.84	1.78	1.78
34	50.47	088	20.84	1.78	1.78
35	50.49	088	20.84	1.78	1.78
36	50.51	088	20.84	1.78	1.78
37	50.53	088	20.84	1.78	1.78
38	50.55	088	20.84	1.78	1.78
39	50.57	088	20.84	1.78	1.78
40	50.59	088	20.84	1.78	1.78
41	50.61	088	20.84	1.78	1.78
42	50.63	088	20.84	1.78	1.78
43	50.65	088	20.84	1.78	1.78
44	50.67	088	20.84	1.78	1.78
45	50.69	088	20.84	1.78	1.78
46	50.71	088	20.84	1.78	1.78
47	50.73	088	20.84	1.78	1.78
48	50.75	088	20.84	1.78	1.78
49	50.77	088	20.84	1.78	1.78
50	50.79	088	20.84	1.78	1.78
51	50.81	088	20.84	1.78	1.78
52	50.83	088	20.84	1.78	1.78
53	50.85	088	20.84	1.78	1.78
54	50.87	088	20.84	1.78	1.78
55	50.89	088	20.84	1.78	1.78
56	50.91	088	20.84	1.78	1.78
57	50.93	088	20.84	1.78	1.78
58	50.95	088	20.84	1.78	1.78
59	50.97	088	20.84	1.78	1.78
60	50.99	088	20.84	1.78	1.78
61	51.01	088	20.84	1.78	1.78
62	51.03	088	20.84	1.78	1.78
63	51.05	088	20.84	1.78	1.78
64	51.07	088	20.84	1.78	1.78
65	51.09	088	20.84	1.78	1.78
66	51.11	088	20.84	1.78	1.78
67	51.13	088	20.84	1.78	1.78
68	51.15	088	20.84	1.78	1.78
69	51.17	088	20.84	1.78	1.78
70	51.19	088	20.84	1.78	1.78
71	51.21	088	20.84	1.78	1.78
72	51.23	088	20.84	1.78	1.78
73	51.25	088	20.84	1.78	1.78
74	51.27	088	20.84	1.78	1.78
75	51.29	088	20.84	1.78	1.78
76	51.31	088	20.84	1.78	1.78
77	51.33	088	20.84	1.78	1.78
78	51.35	088	20.84	1.78	1.78
79	51.37	088	20.84	1.78	1.78
80	51.39	088	20.84	1.78	1.78
81	51.41	088	20.84	1.78	1.78
82	51.43	088	20.84	1.78	1.78
83	51.45	088	20.84	1.78	1.78
84	51.47	088	20.84	1.78	1.78
85	51.49	088	20.84	1.78	1.78
86	51.51	088	20.84	1.78	1.78
87	51.53	088	20.84	1.78	1.78
88	51.55	088	20.84	1.78	1.78
89	51.57	088	20.84	1.78	1.78
90	51.59	088	20.84	1.78	1.78
91	51.61	088	20.84	1.78	1.78
92	51.63	088	20.84	1.78	1.78
93	51.65	088	20.84	1.78	1.78
94	51.67	088	20.84	1.78	1.78
95	51.69	088	20.84	1.78	1.78
96	51.71	088	20.84	1.78	1.78
97	51.73	088	20.84	1.78	1.78
98	51.75	088	20.84	1.78	1.78
99	51.77	088	20.84	1.78	1.78
100	51.79	088	20.84	1.78	1.78

OLIVER IRON MINING CO.
 DRIFT SAMPLE MAP
 No. 4 SUB LEVEL
 McEWEN MINE
 SHEET 24
 ENGINEERING DEPT. SCALE 1"=50'
 VIRGINIA MINN. JULY 1, 1924
 C.H.M.



OLIVER IRON MINING CO.
 DRIFT SAMPLE MAP
 No 5 SUB LEVEL
 McEWEN MINE
 SHEET B
 ENGINEERING DEPT. SCALE 1"=50'
 VIRGINIA MINN. JULY 1, 1925
 C.H.M.

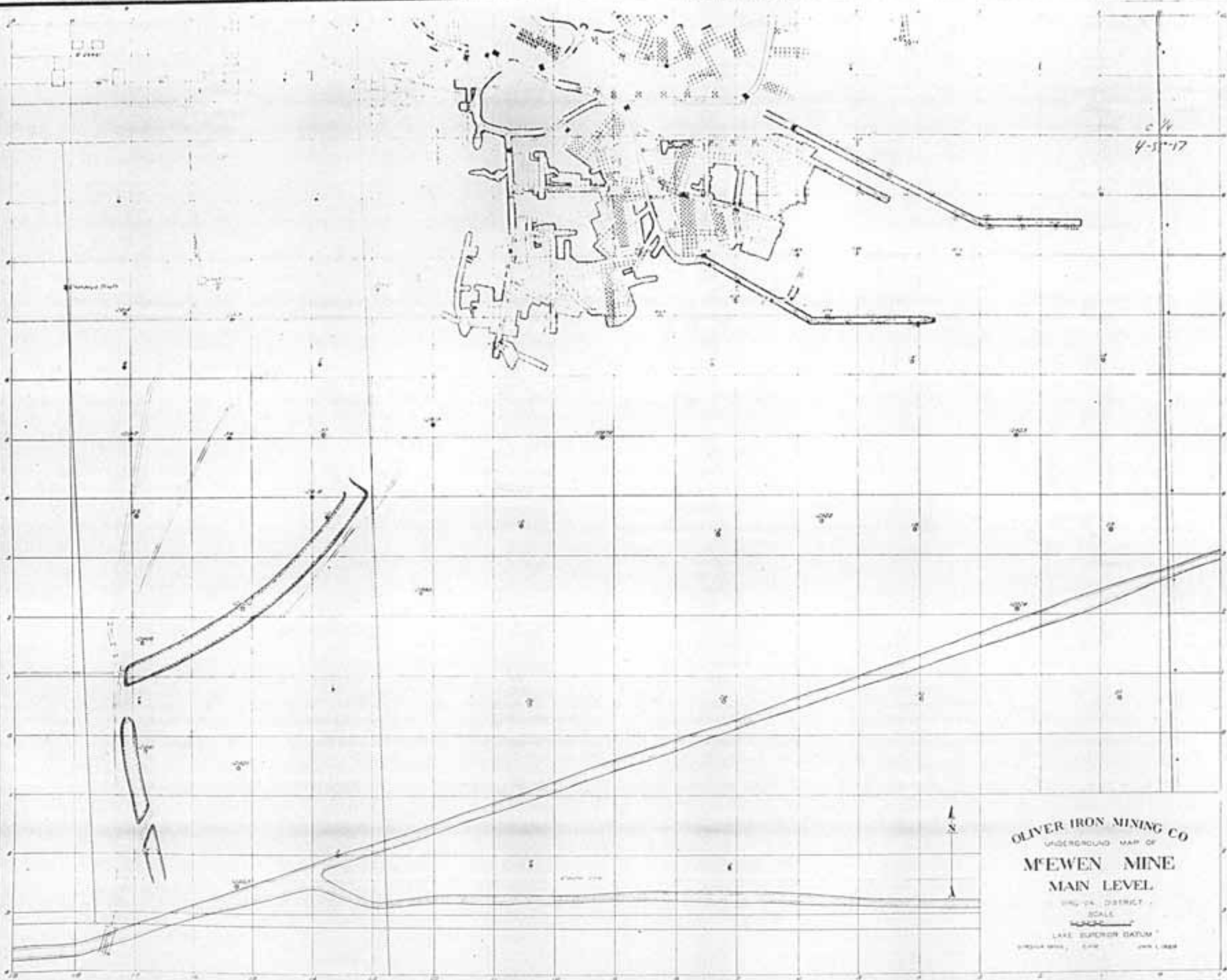
No. 1946-57



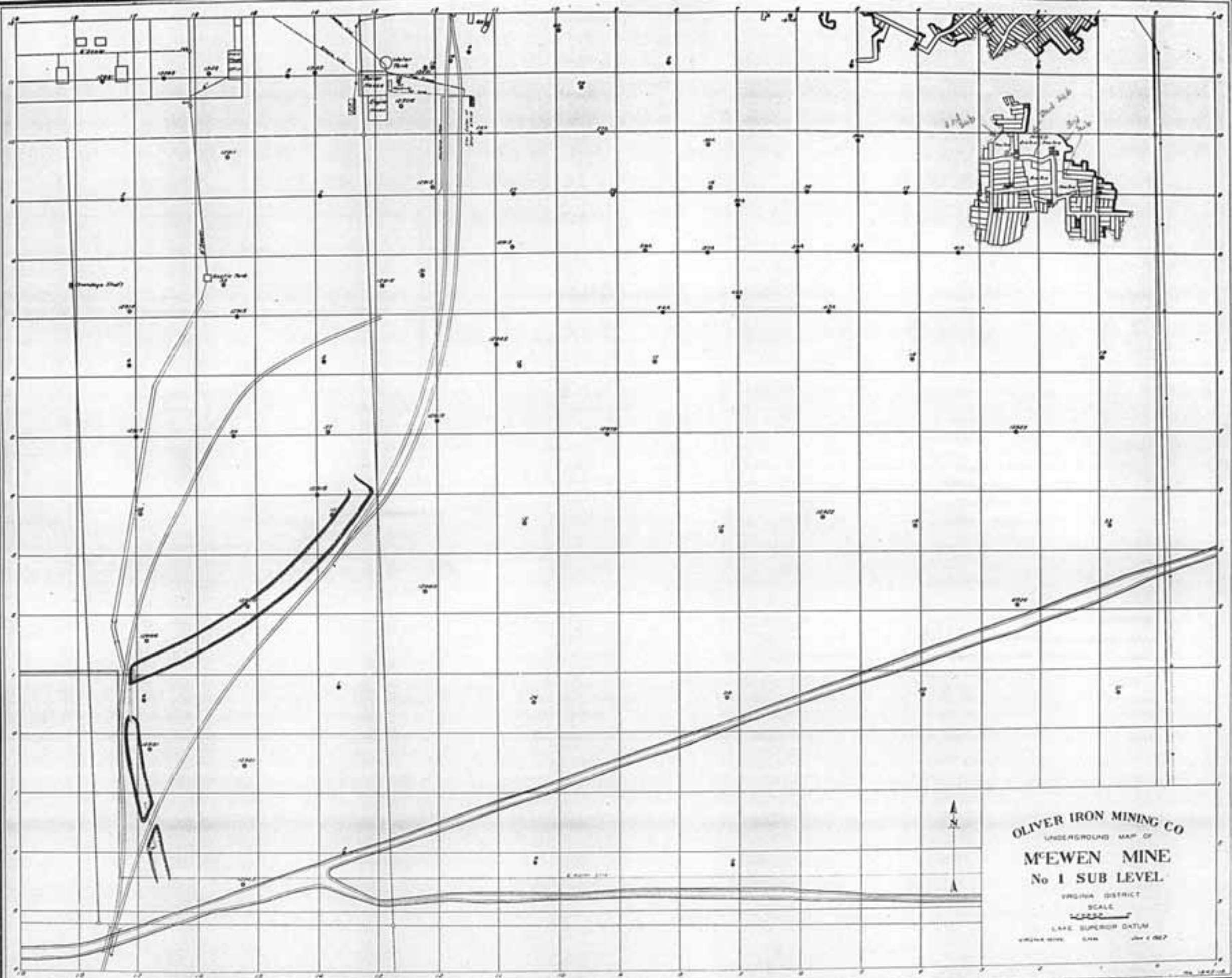
OLIVER IRON MINING CO.
 UNDERGROUND MAP OF
 McEWEN MINE
 DISTRICT

SCALE 1" = 200'
 1" = 200'

c 4
4-5-17

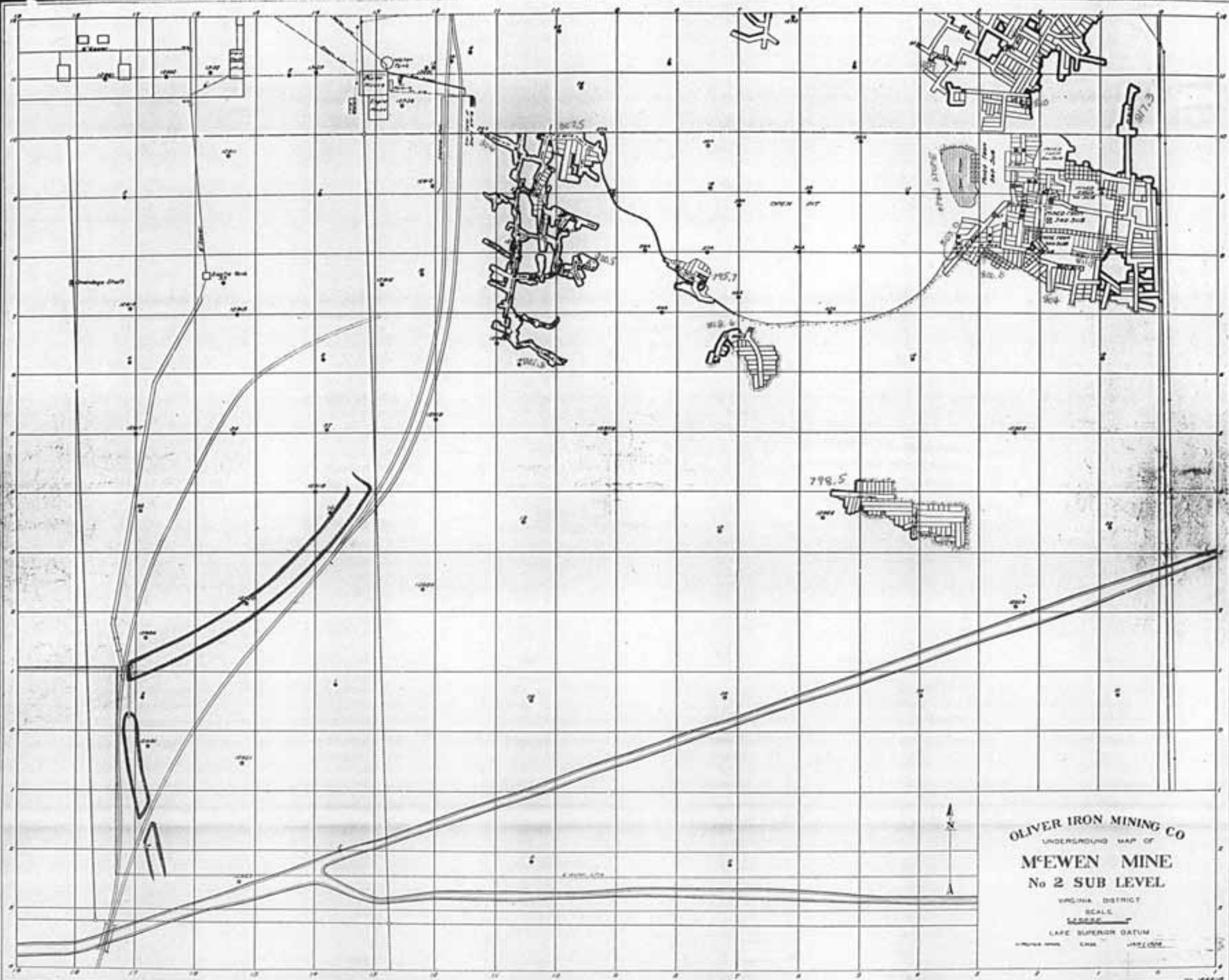


OLIVER IRON MINING CO
 UNDERGROUND MAP OF
MC EWEN MINE
 MAIN LEVEL
 10th CO. DISTRICT
 SCALE
 1" = 100'
 LAKE SUPERIOR DATUM
 DRAWN BY: [unclear] JAN 1, 1929

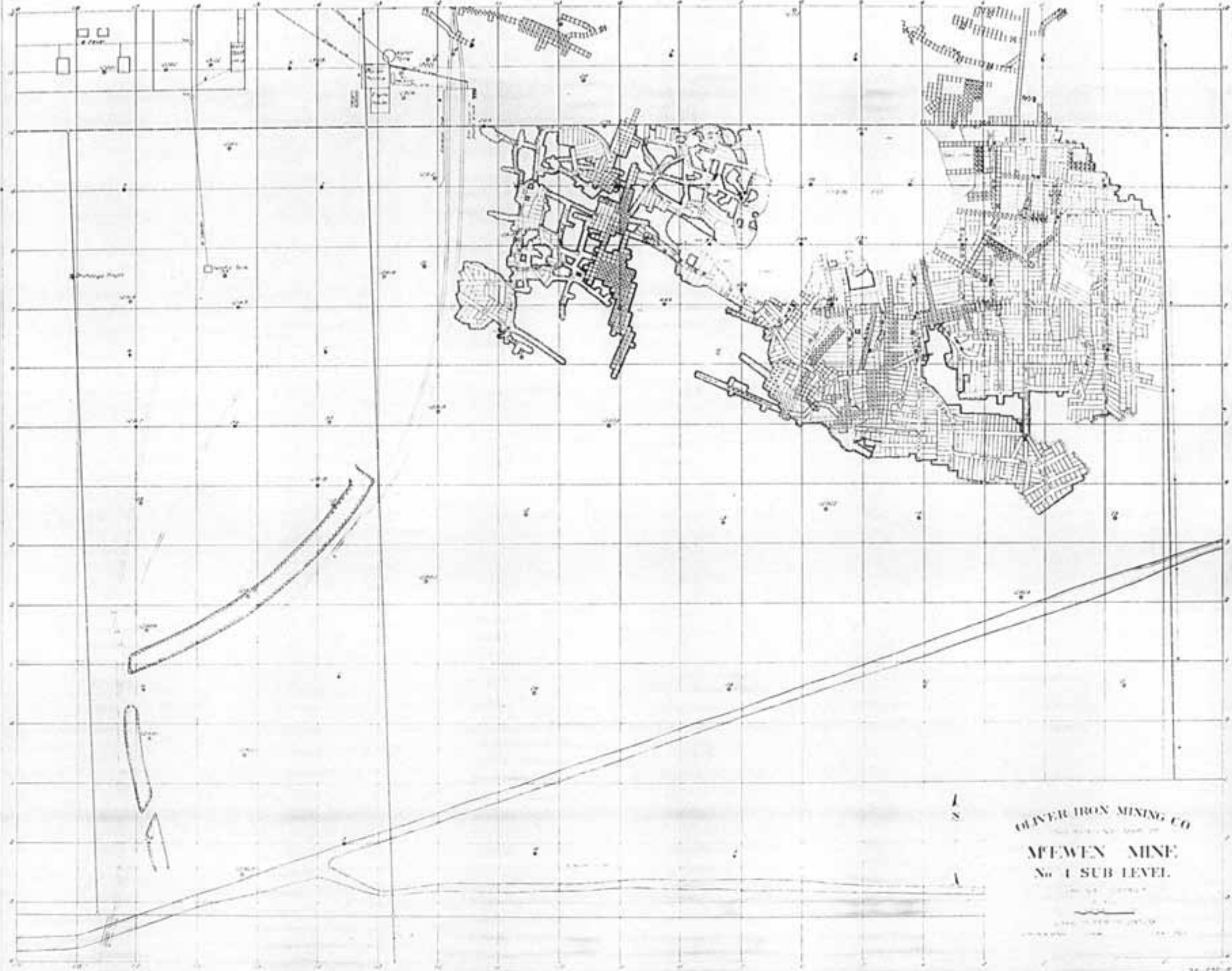


OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
 No 1 SUB LEVEL
 VIRGINIA DISTRICT
 SCALE
 1" = 200'
 LAKE SUPERIOR DATUM
 VIRGINIA MINE CO. SAN JON 1 1927



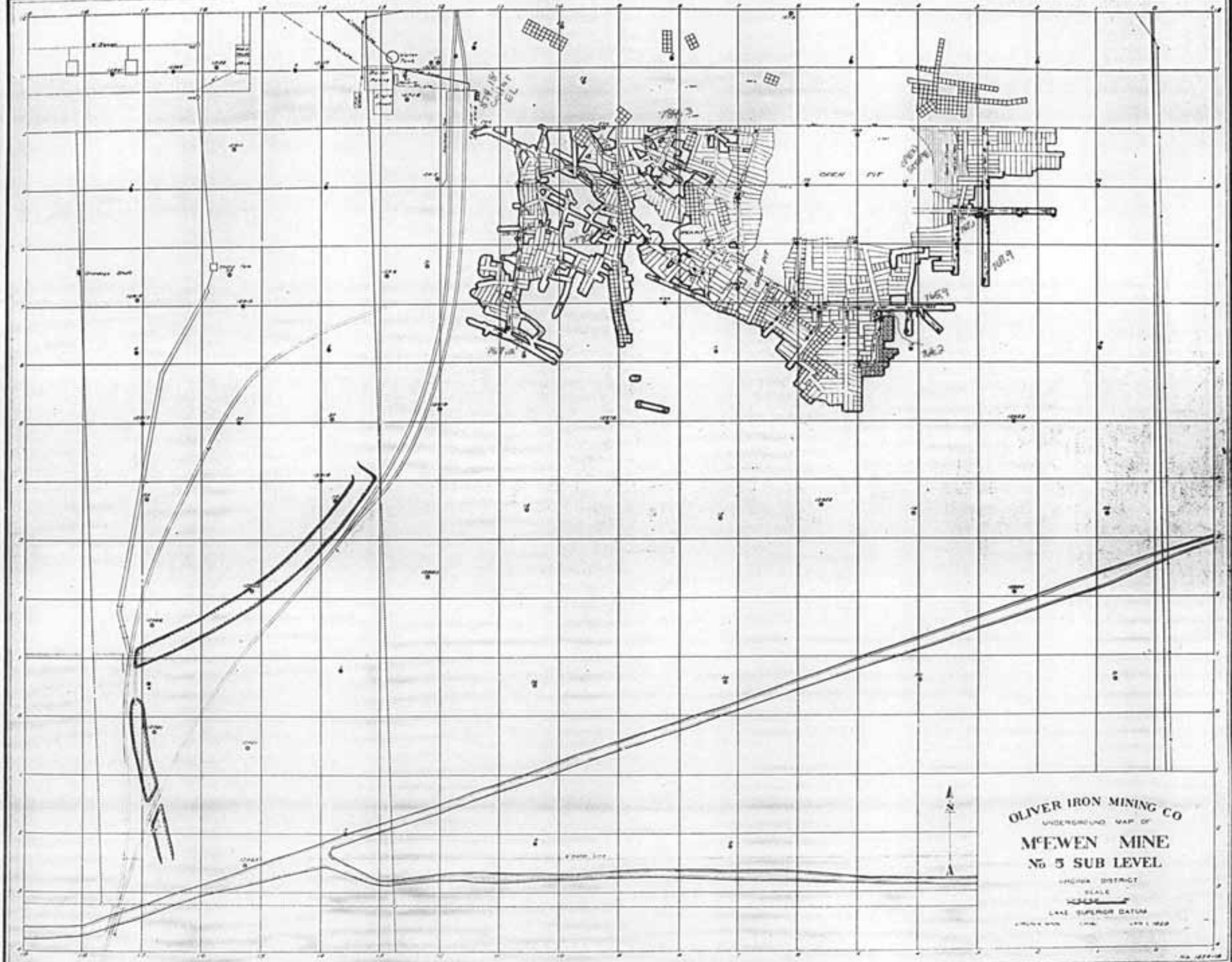


OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
 No 2 SUB LEVEL
 VIRGINIA DISTRICT
 SCALE
 1" = 100'
 LAKE SUPERIOR DATUM
 1910-1911 1912-1913 1914-1915



OLIVER IRON MINING CO
 MEWEN MINE
 No. 1 SUB LEVEL

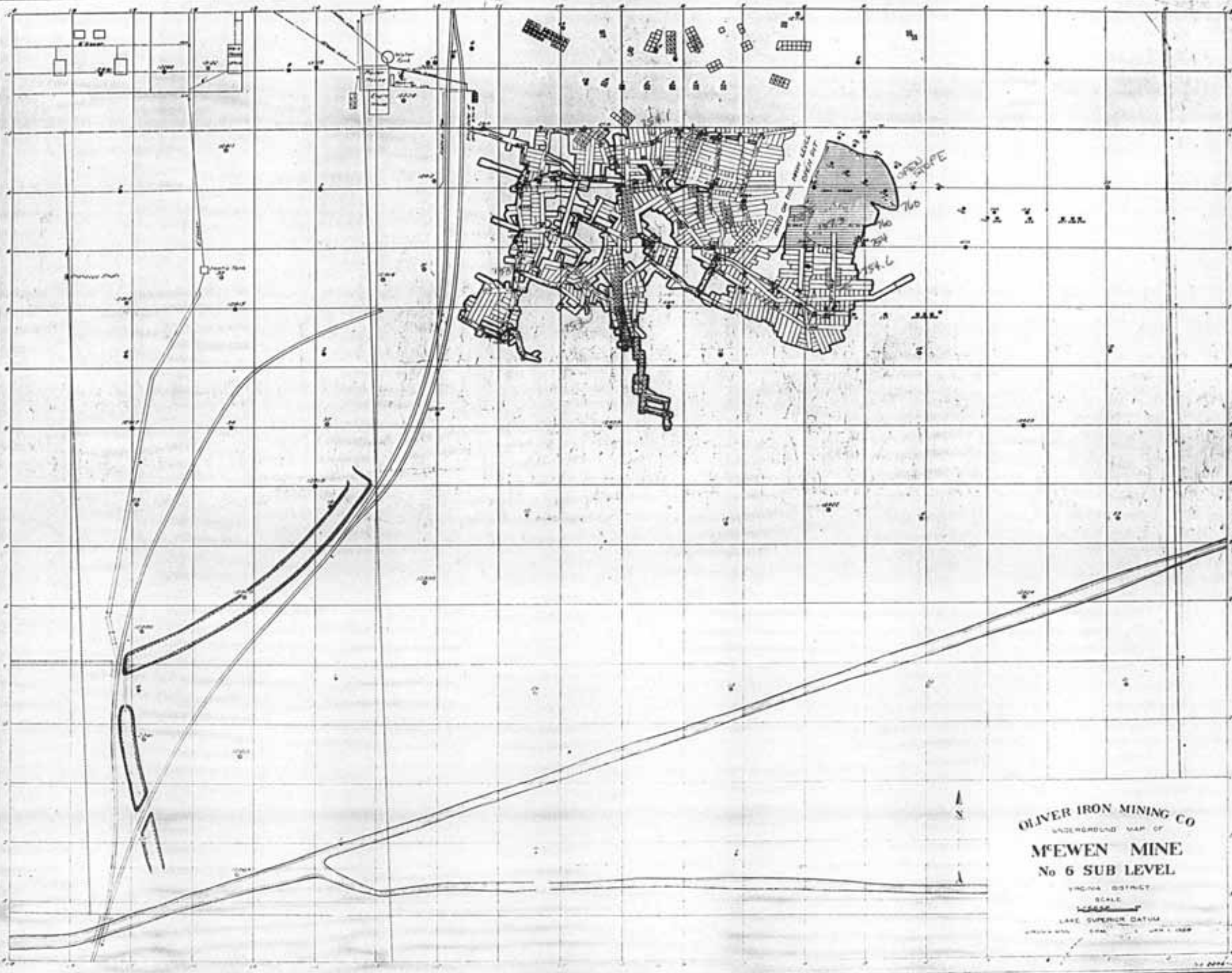
SCALE 1" = 20'



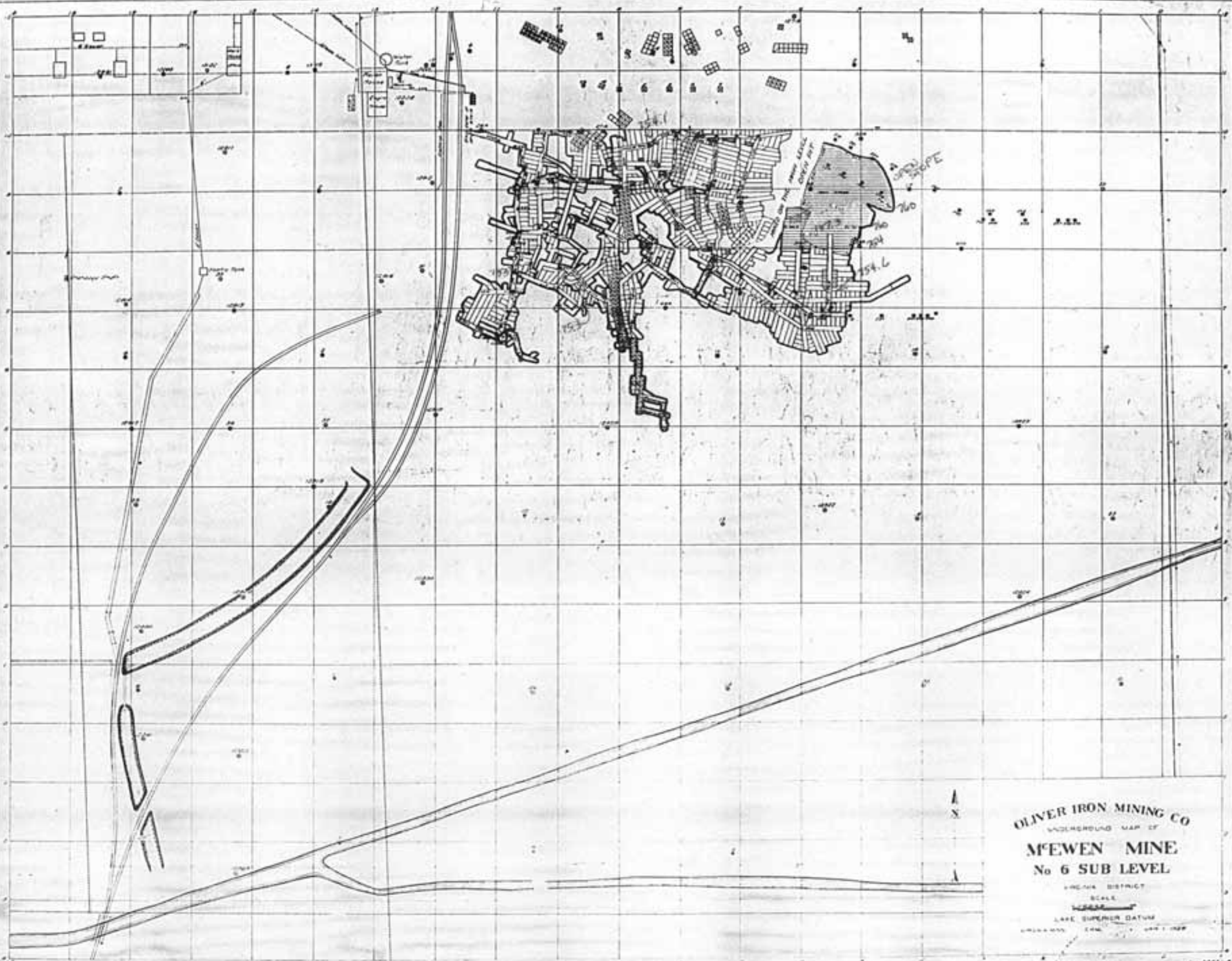
OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
 No 5 SUB LEVEL

UNION DISTRICT
 SCALE
 LAKE SUPERIOR DATUM
 1914

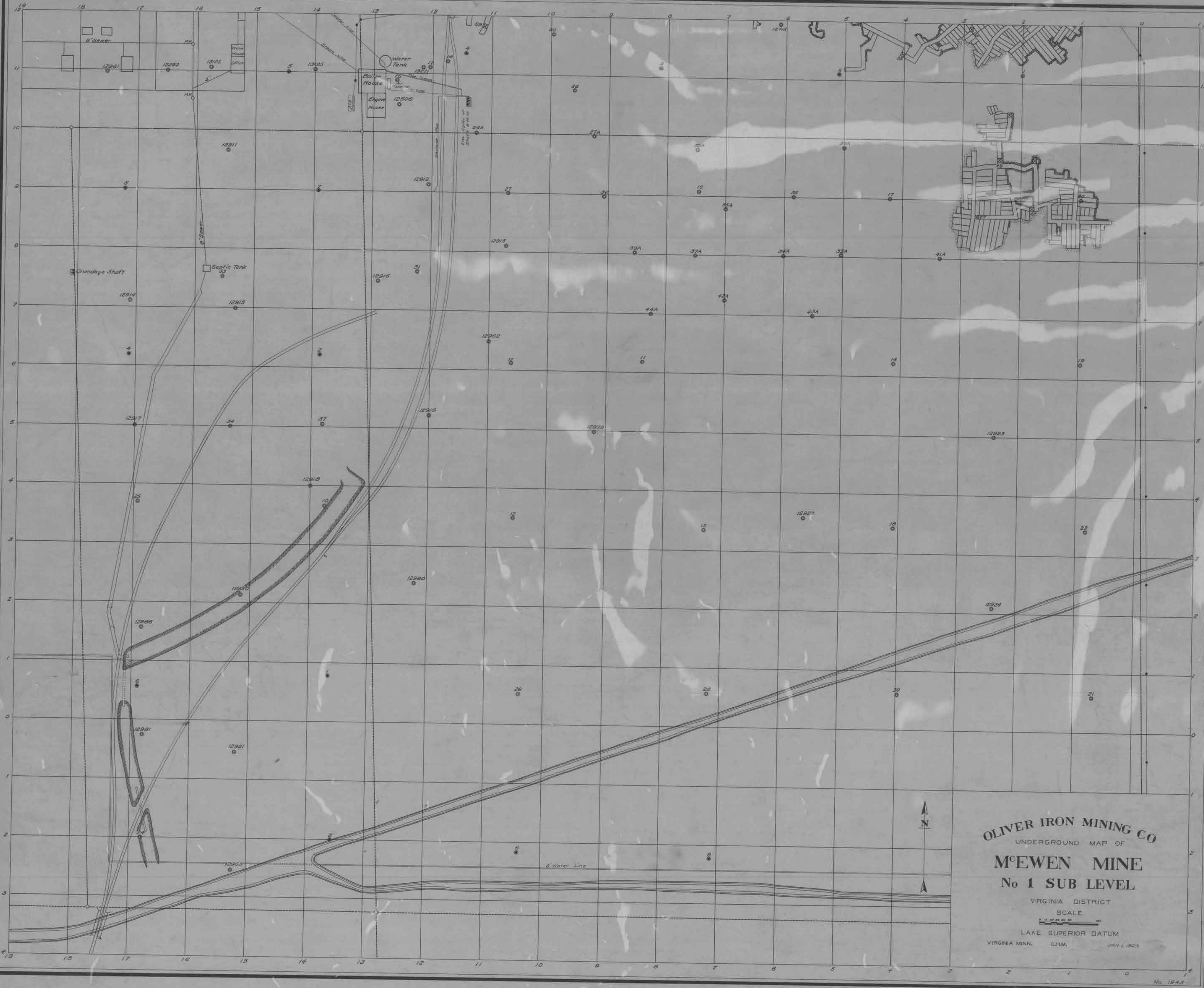




OLIVER IRON MINING CO
 UNDERGROUND MAP OF
M'EWEN MINE
 No 6 SUB LEVEL
 YACONA DISTRICT
 SCALE
 LAKE SUPERIOR DATUM
 DRAWING NO. 100 JAN 1929

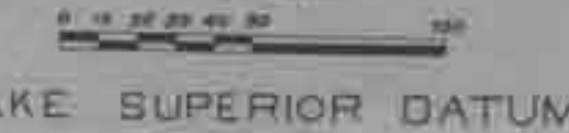


OLIVER IRON MINING CO
 UNDERGROUND MAP OF
MEWEN MINE
 No 6 SUB LEVEL
 VIRGINIA DISTRICT
 SCALE
 LAKE SUPERIOR DATUM
 1916



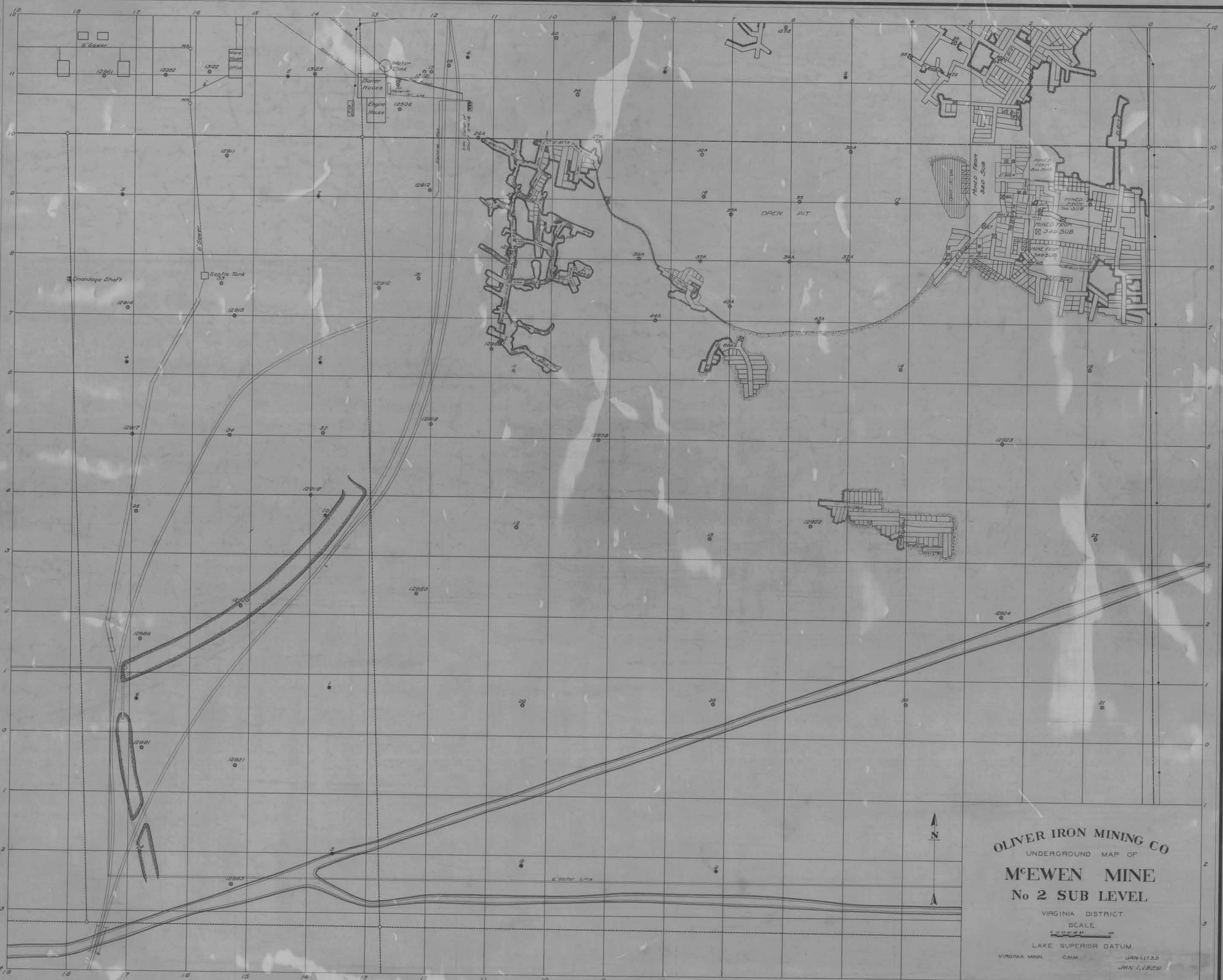
OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
 No 1 SUB LEVEL

VIRGINIA DISTRICT
 SCALE

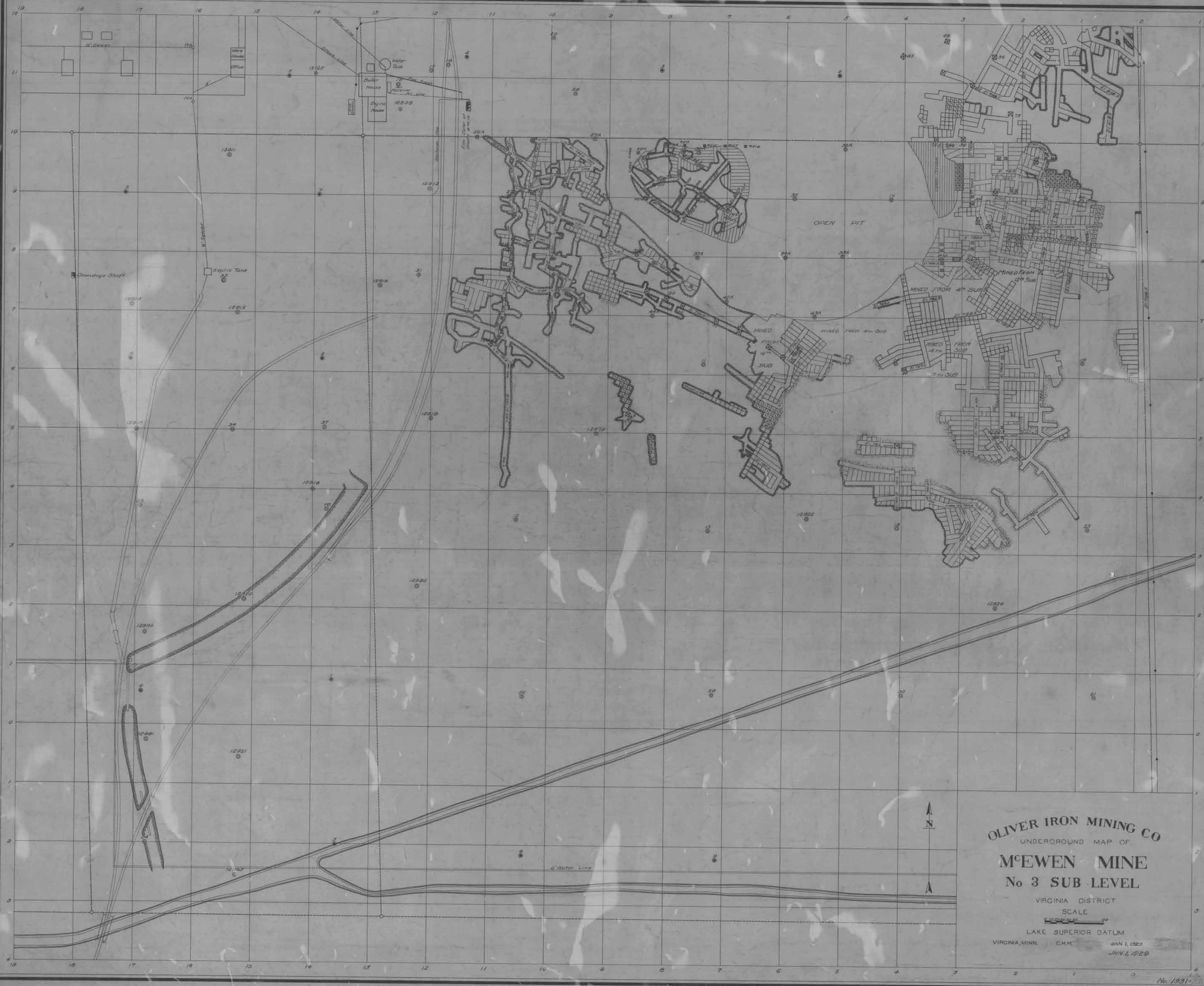


LAKE SUPERIOR DATUM

VIRGINIA MINN. C.H.M. JAN. 1, 1929

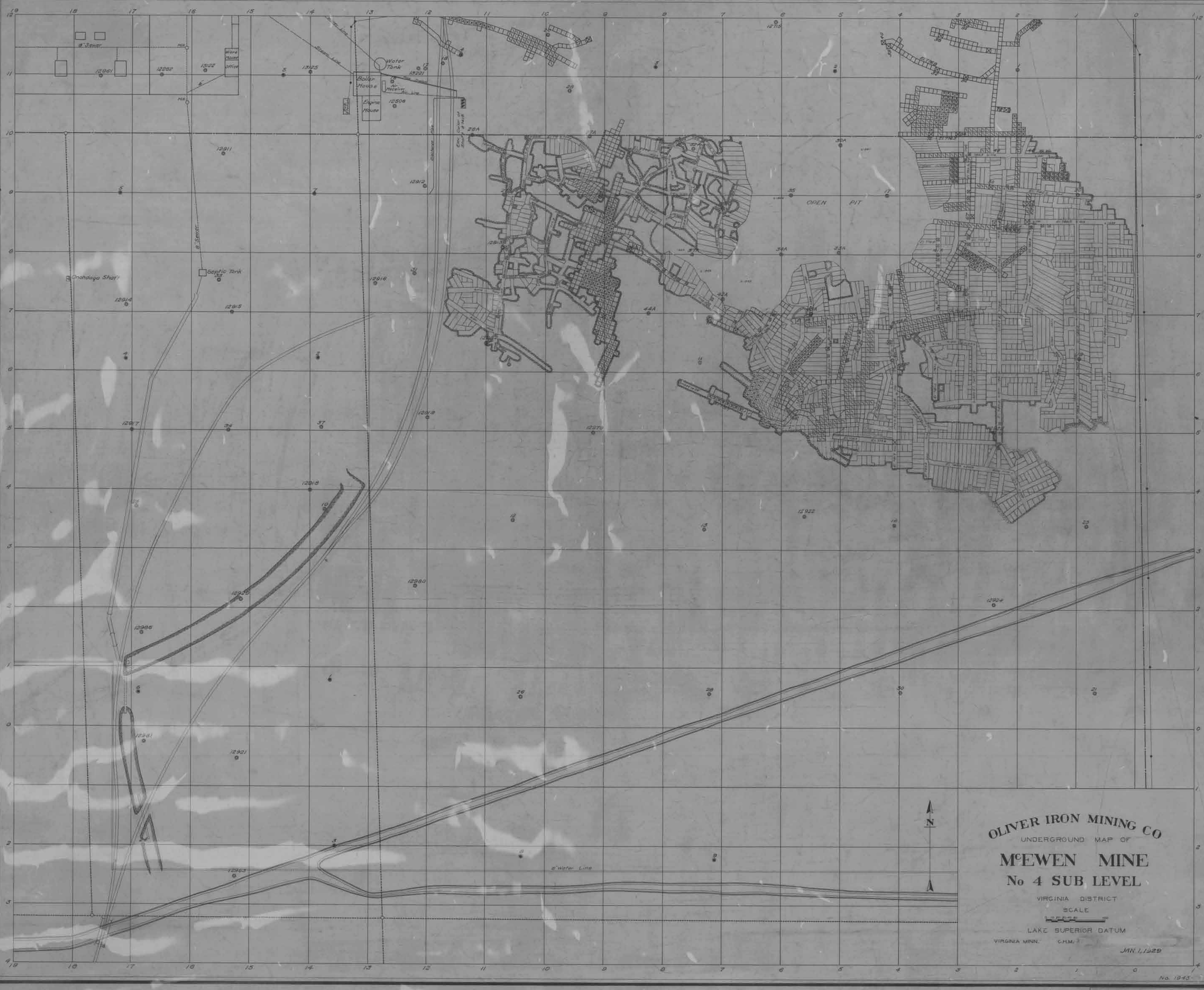


OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
No 2 SUB LEVEL
 VIRGINIA DISTRICT
 SCALE
 LAKE SUPERIOR DATUM
 VIRGINIA MINN. C.M.M. JAN 1, 1929
 JAN 1, 1929



OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
No 3 SUB LEVEL

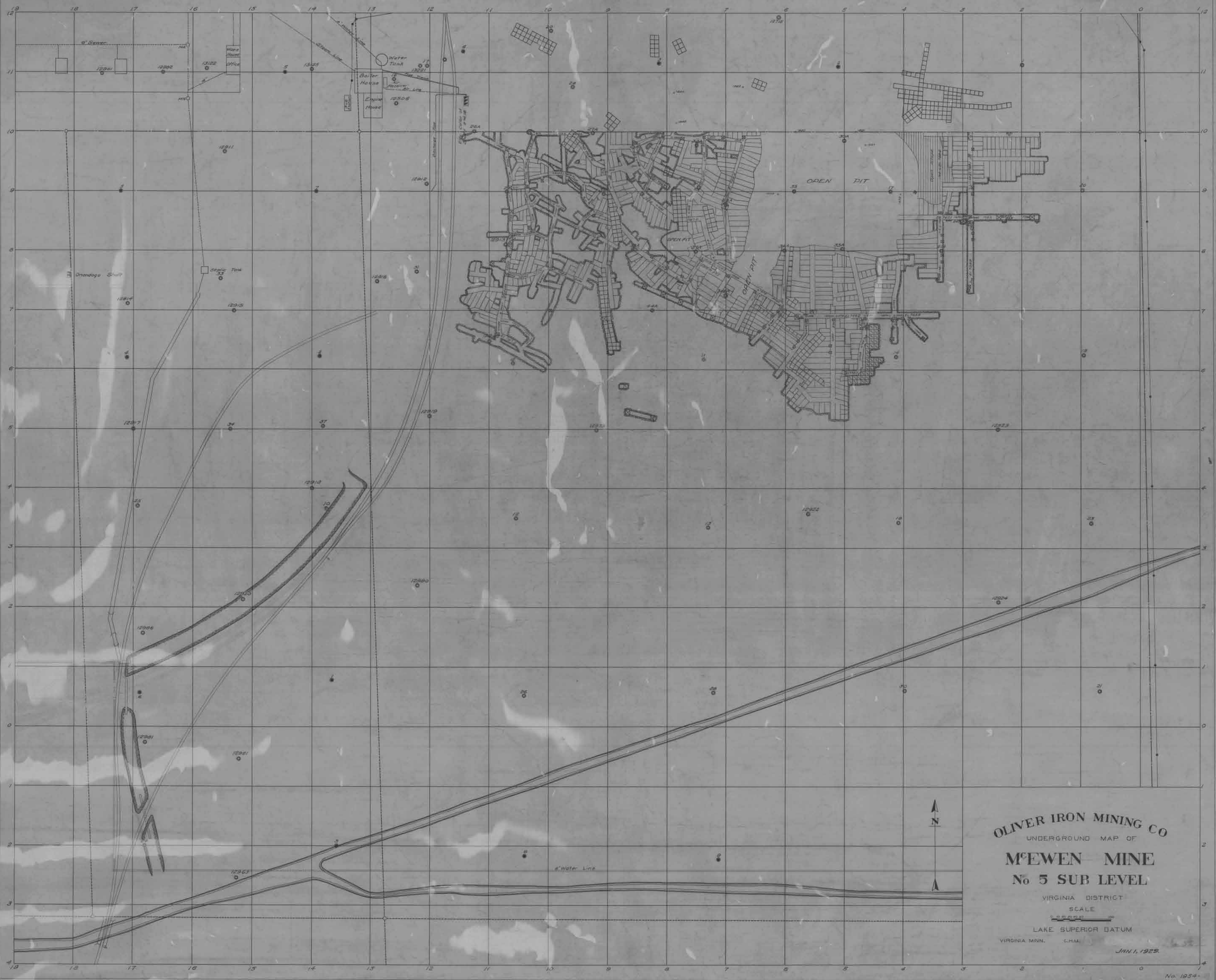
VIRGINIA DISTRICT
 SCALE
 LAKE SUPERIOR DATUM
 VIRGINIA, MINN. CH.M. JAN. 1, 1923
 JAN. 1, 1929



OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
No 4 SUB LEVEL

VIRGINIA DISTRICT
 SCALE
 LAKE SUPERIOR DATUM
 VIRGINIA MINN. C.H.M.

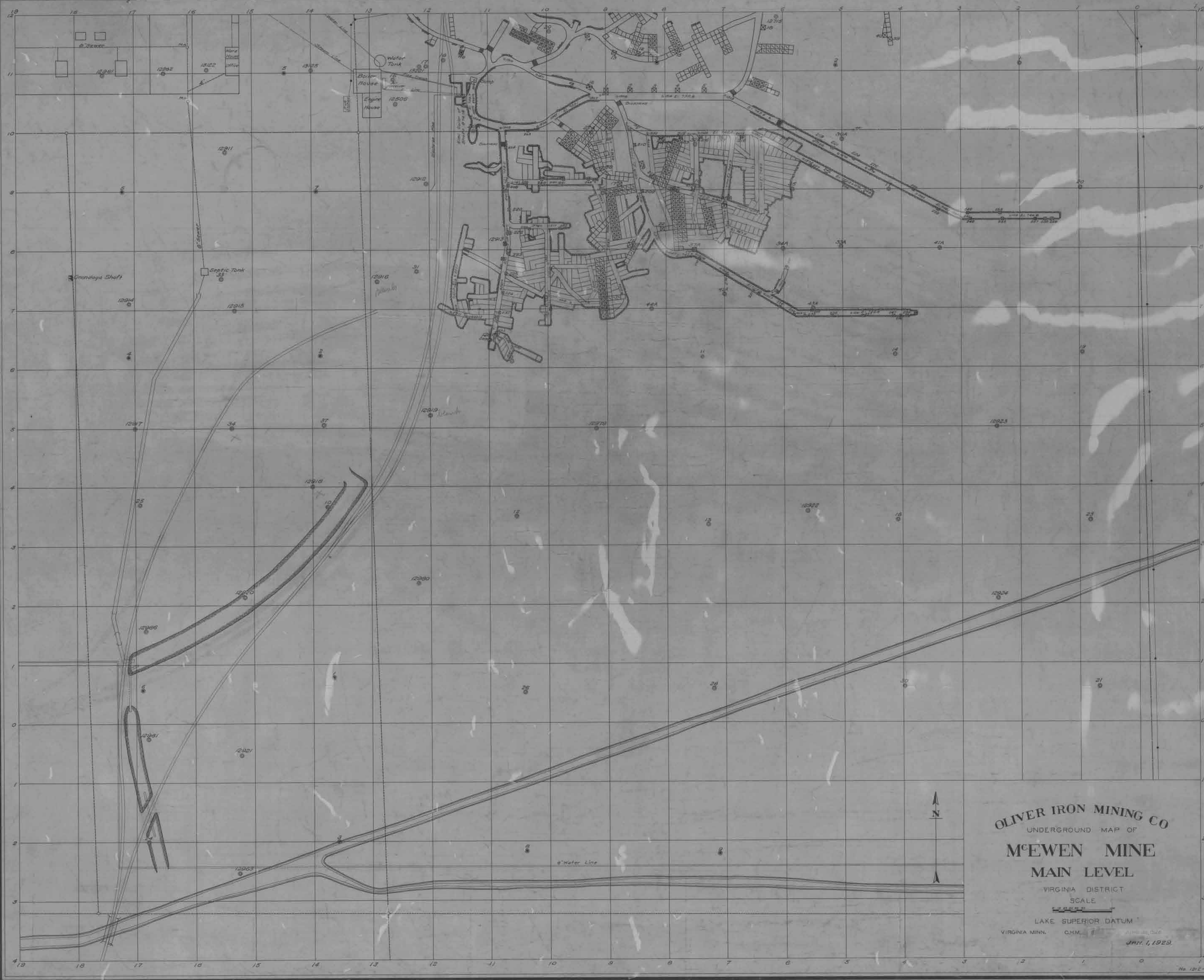
JAN. 1, 1929



OLIVER IRON MINING CO
 UNDERGROUND MAP OF
McEWEN MINE
No 5 SUB LEVEL

VIRGINIA DISTRICT
 SCALE
 LAKES SUPERIOR DATUM
 VIRGINIA MINN. C.M.M.

JAN 1, 1929



OLIVER IRON MINING CO
UNDERGROUND MAP OF

McEWEN MINE
MAIN LEVEL

VIRGINIA DISTRICT
SCALE

LAKE SUPERIOR DATUM

VIRGINIA MINN. CHM. No. 1912
JAN. 1, 1923.



MINORCA

MINORCA

SULLIVAN

HIGGIN S-No.2

HIGGIN S-No.2

FEE

ONONDAGA

McEWEN

McEWEN

LINCOLN

LINCOLN

LINCOLN

FEE

OLIVER IRON MINING CO.

—MAP OF THE—

HIGGINS No.2 - McEWEN
MINES & VICINITY

— VIRGINIA DISTRICT —

— SCALE —

1" = 1000' (304.8m)
1" = 1000' (304.8m)

