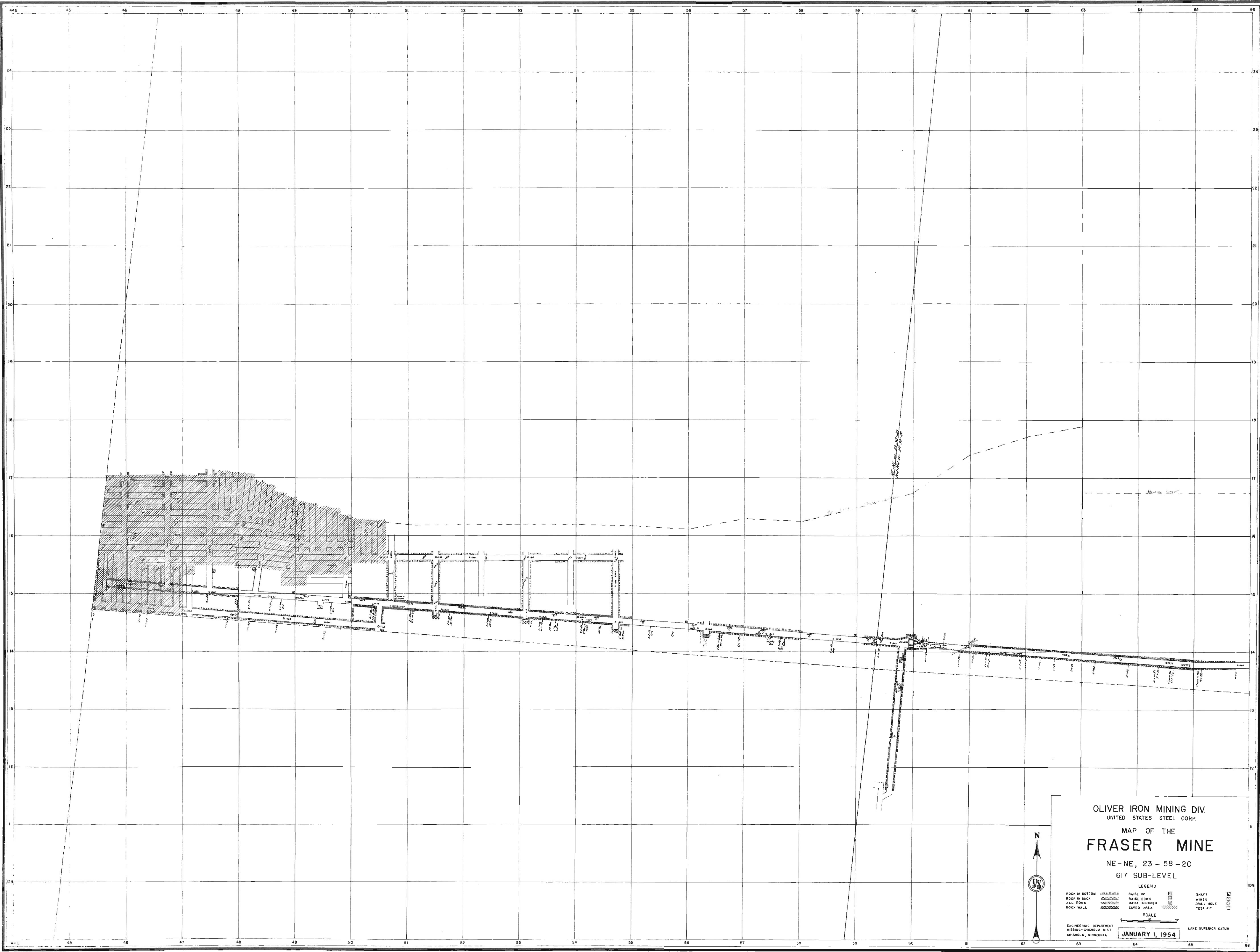


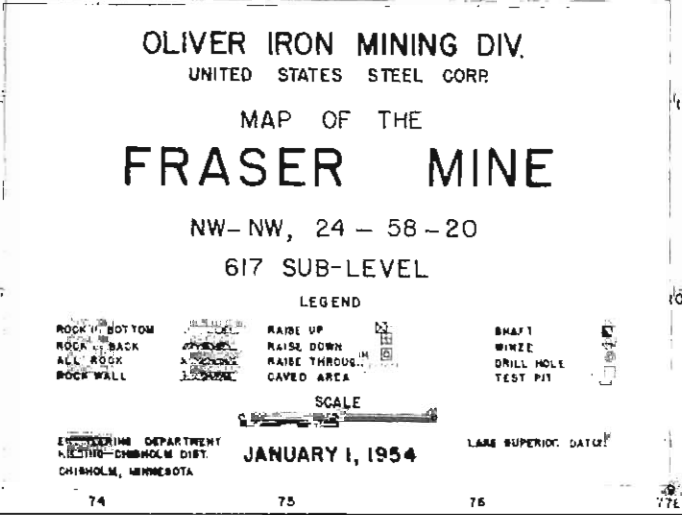


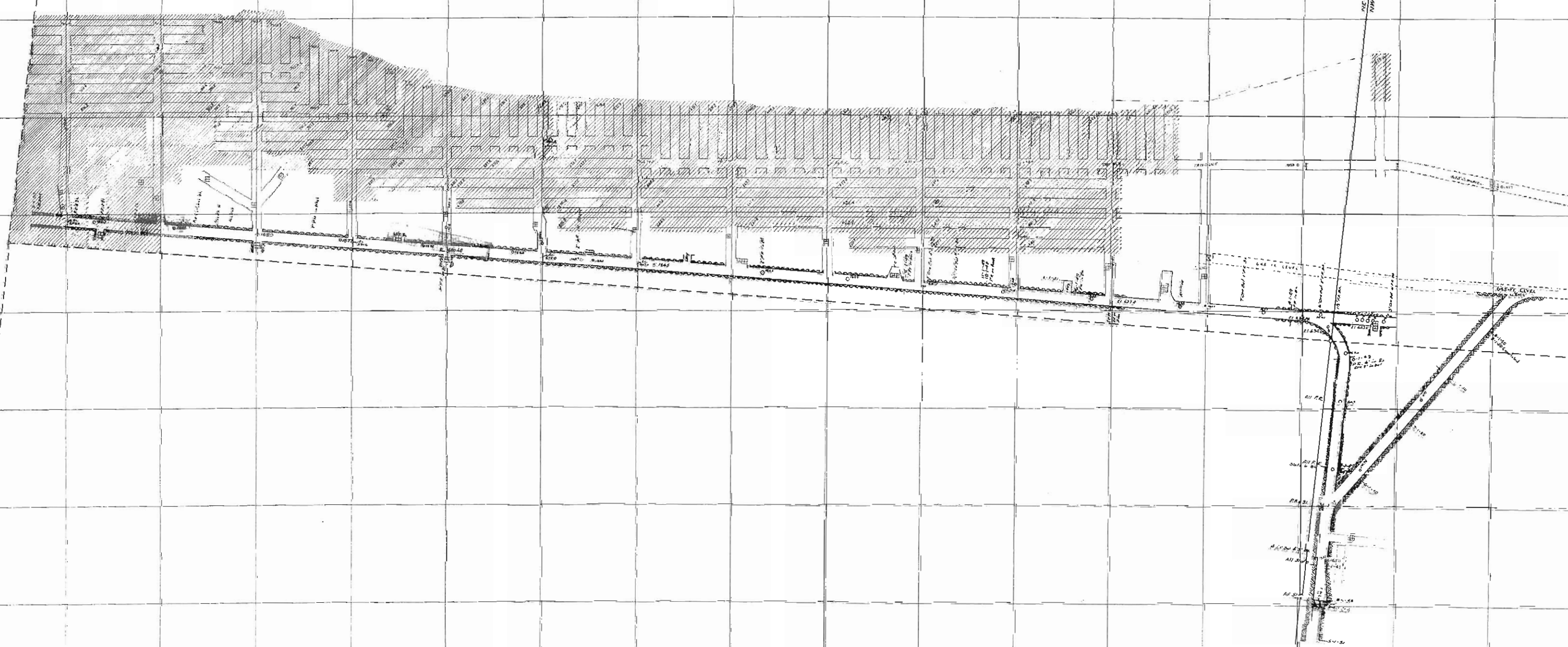
OLIVER IRON MINING DIV.
UNITED STATES STEEL CORP.
MAP OF THE
FRASER MINE
NE-NE, 23-58-20
617 SUB-LEVEL



- | | | |
|----------------|---------------|------------|
| ROCK IN BOTTOM | RAISE UP | SHAFT 1 |
| ROCK IN BACK | RAISE DOWN | WINZE |
| ALL ROCK | RAISE THROUGH | DRILL HOLE |
| ROCK WALL | GRAVE AREA | TEST PIT |

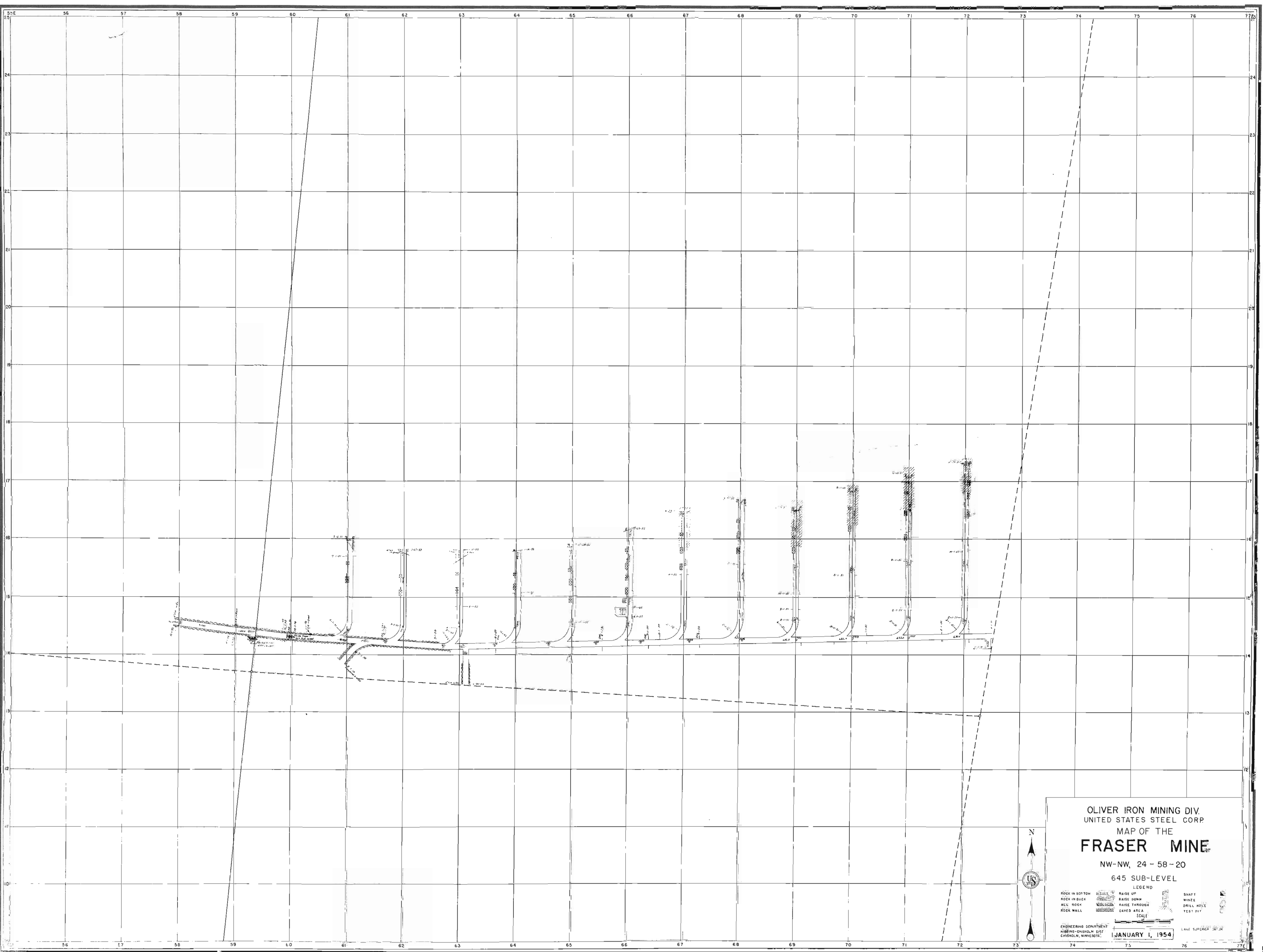
ENGINEERING DEPARTMENT
HIBBING-ORSHOLM DIST.
ORSHOLM, MINNESOTA
SCALE
JANUARY 1, 1954
LAKE SUPERIOR DATUM





OLIVER IRON MINING DIV.
UNITED STATES STEEL CORP.
MAP OF THE
FRASER MINE
NE-NE, 23-58-20
633 SUB-LEVEL

LEGEND:
ROCK IN BOTTOM
ROCK IN BACK
ALL ROCK
ROCK WALL
RAISE UP
RAISE DOWN
RAISE THROUGH
CAVED AREA
SCALE
ENGINEERING DEPARTMENT
HIBBING-CHISHOLM DIST.
CHISHOLM, MINNESOTA
JANUARY 1, 1954
LAKE SUPERIOR STATION



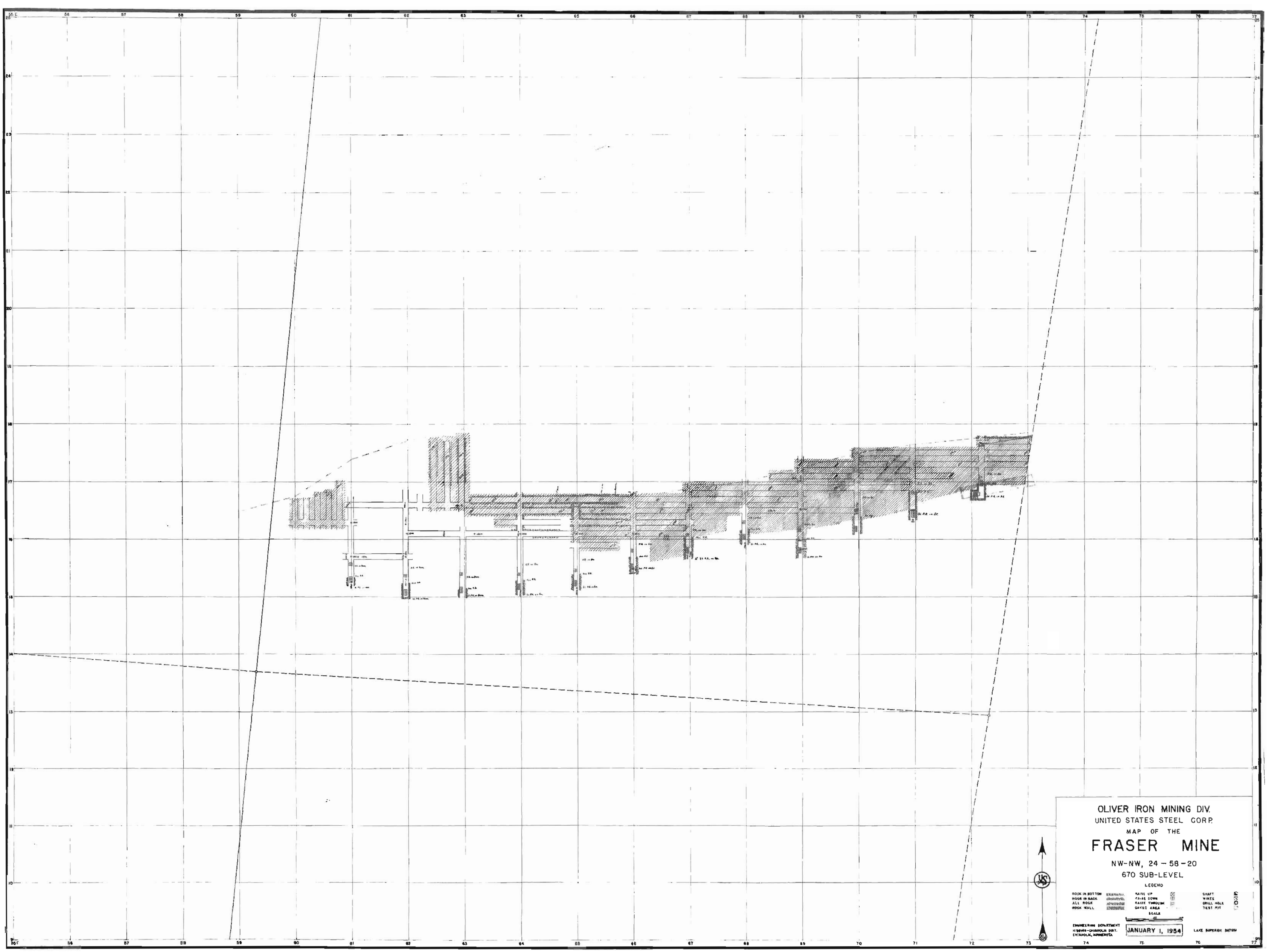
OLIVER IRON MINING DIV.
UNITED STATES STEEL CORP.
MAP OF THE
FRASER MINE
NW-NW, 24 - 58 - 20
645 SUB-LEVEL

LEGEND
ROCK IN BOTTOM
ROCK IN BACK
ALL ROCK
ROCK WALL
RAISE UP
RAISE DOWN
RAISE THROUGH
CAVED AREA
SCALE
SHAFT
WINZE
DRILL HOLE
TEST PIT
LAKE SUPERIOR
ENGINEERING DEPARTMENT
MINING-ENGINEERING DIST.
CHANDLER, MINNESOTA
JANUARY 1, 1954

OLIVER IRON MINING DIV.
UNITED STATES STEEL CORP.
MAP OF THE
FRASER MINE
NW - NW, 24 - 58 - 20
655' SUB-LEVEL

LEGEND
ROCK IN BOTTOM
ROCK IN BACK
ALL ROCK
ROCK WALL
RAISE UP
RAISE DOWN
RAISE THROUGH
CAVED AREA
SHAFT
WINZE
DRILL HOLE
TEST PIT
SCALE
JANUARY 1, 1954
ENGINEERING DEPARTMENT
MINING - CHISHOLM DIST.
CHISHOLM, MINNESOTA
LAKE SUPERIOR DATUM





OLIVER IRON MINING DIV.
UNITED STATES STEEL CORP.
MAP OF THE
FRASER MINE
NW-NW, 24 - 58 - 20
670 SUB-LEVEL

LEGEND

ROCK IN BOTTOM	RAISE UP	SHAFT
ROCK IN BACK	RAISE DOWN	WIND
ALL ROCK	RAISE THROUGH	GRILL HOLE
ROCK WALL	RAISE AREA	TEST PIT

ENGINEERING DEPARTMENT
CHICAGO-CHANDLER BLDG.
CHICAGO, ILLINOIS

JANUARY 1, 1934

LAKE SUPERIOR DATUM

04-1531-1965



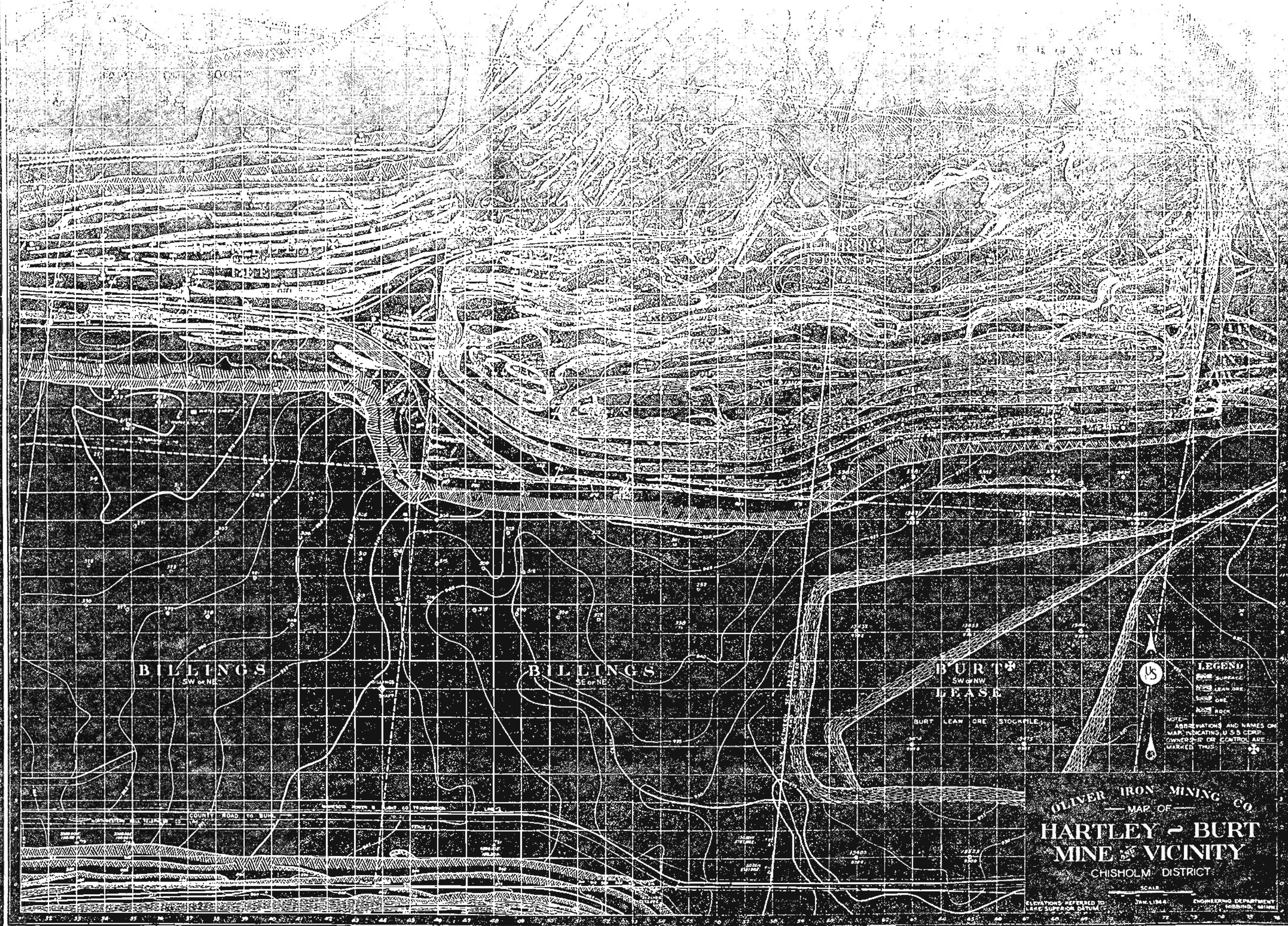
877-00

H84

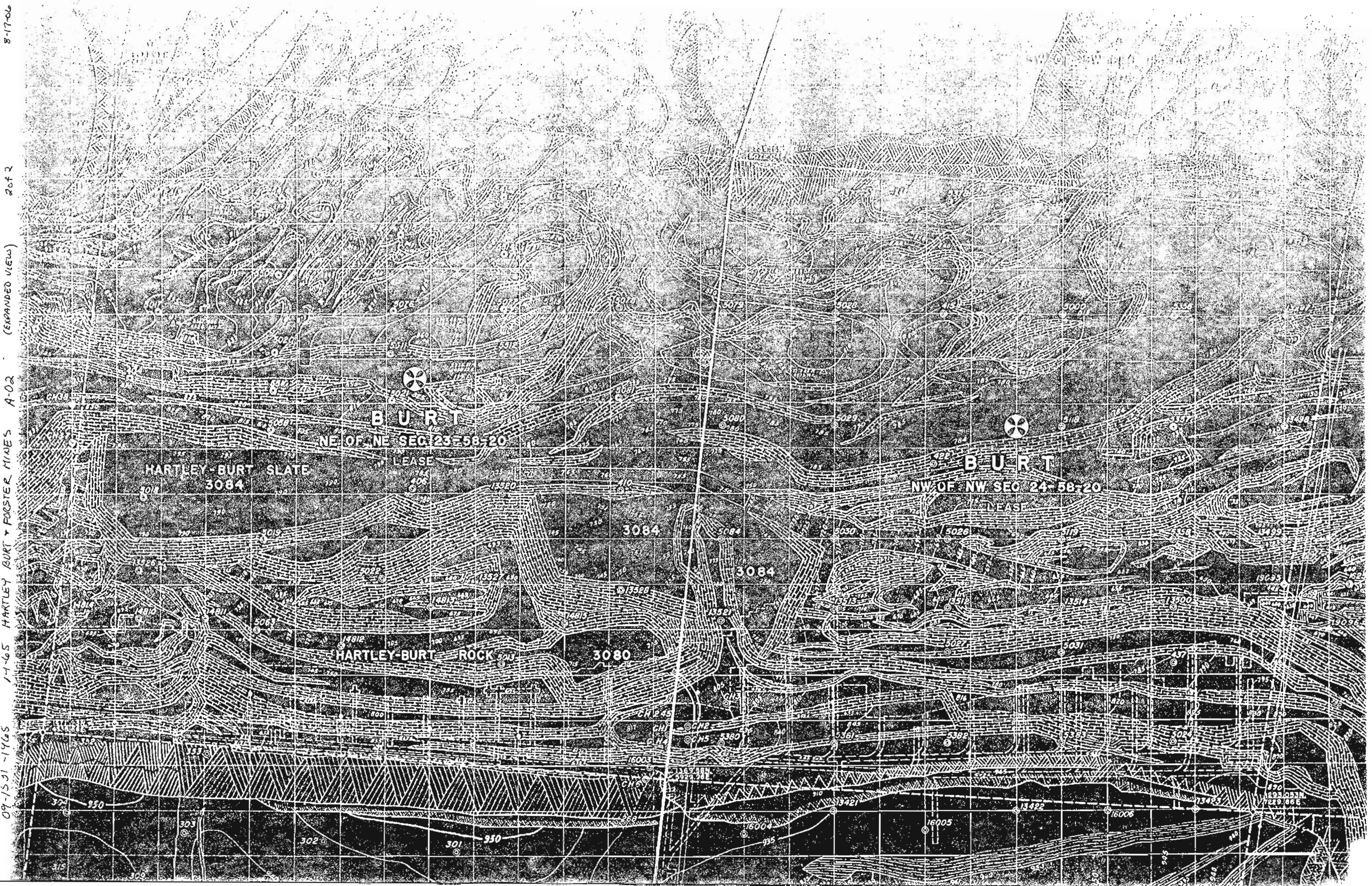
HARTLEY MINE & VICINITY

1-1-44

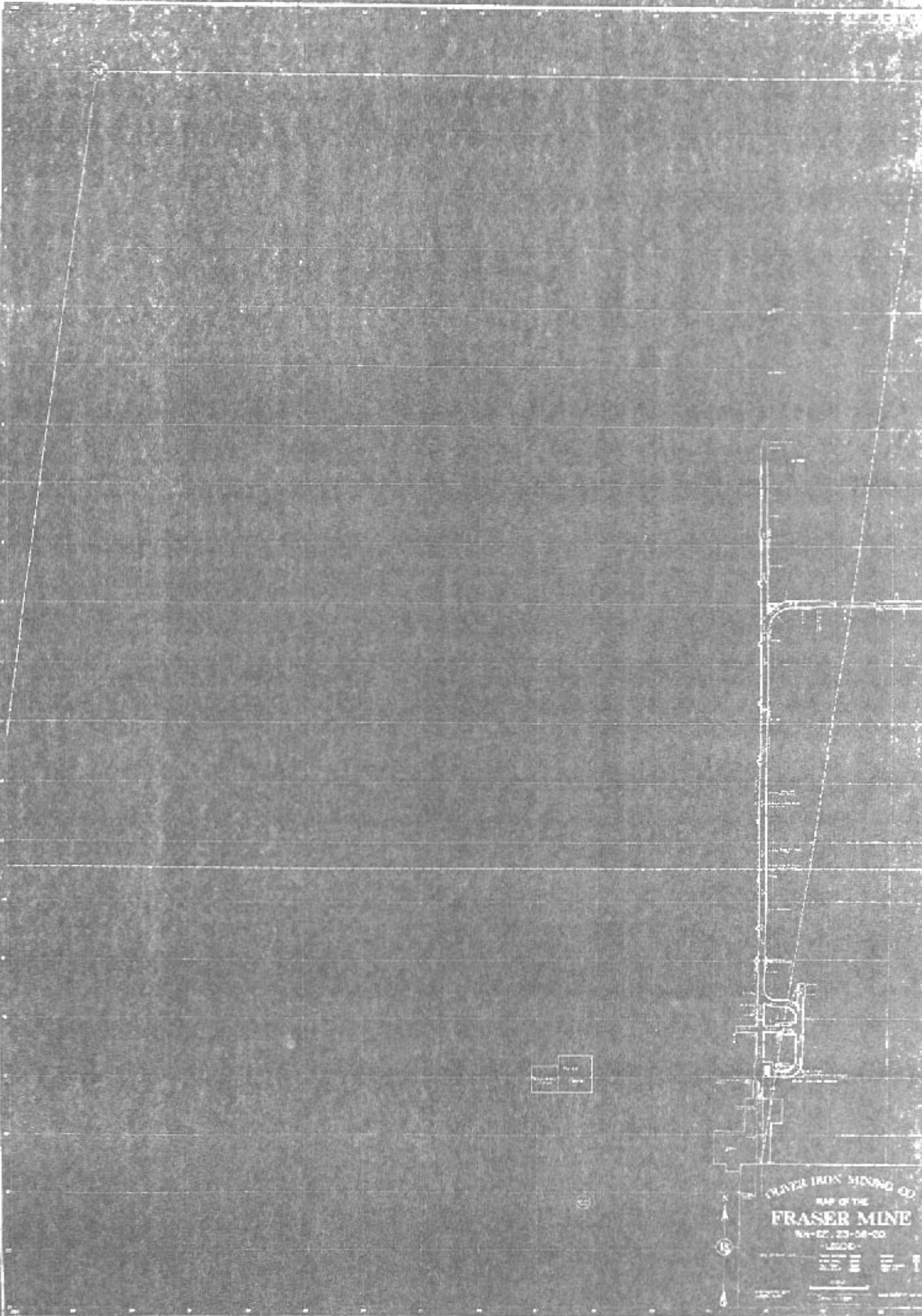
07-1531-1744



8-17-00
2042
A-02
(EXPANDED VIEW)
HARTLEY BURT & FORSTER MINES
1-1-65
09-1531-1965



$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & -i \\ 0 & 1 \end{pmatrix}$



FRASER IRON MINING CO.
MAP OF THE
FRASER MINE
N-04, 23-58-00
1:50,000
Scale 1 inch = 100 feet
Copyright 1927