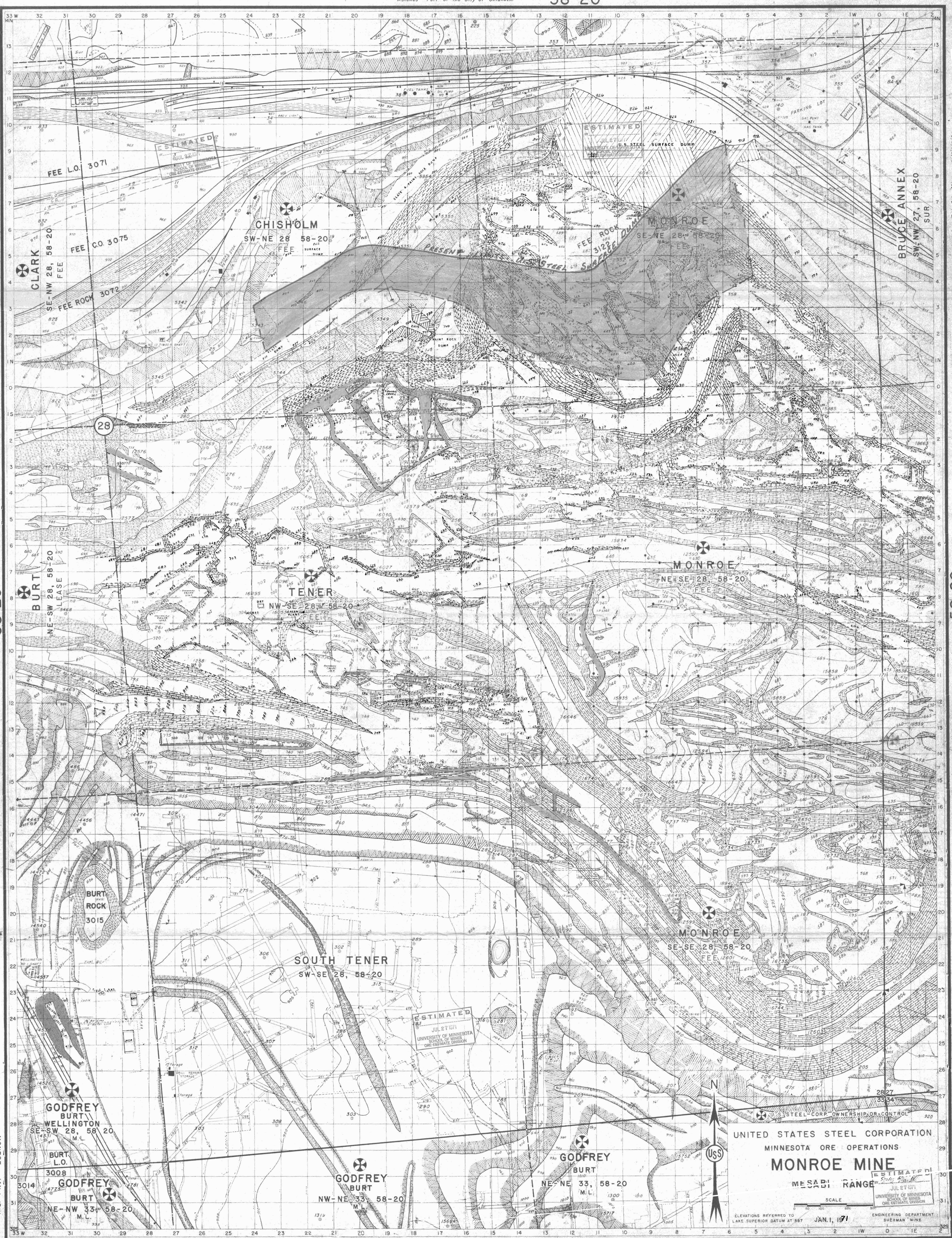
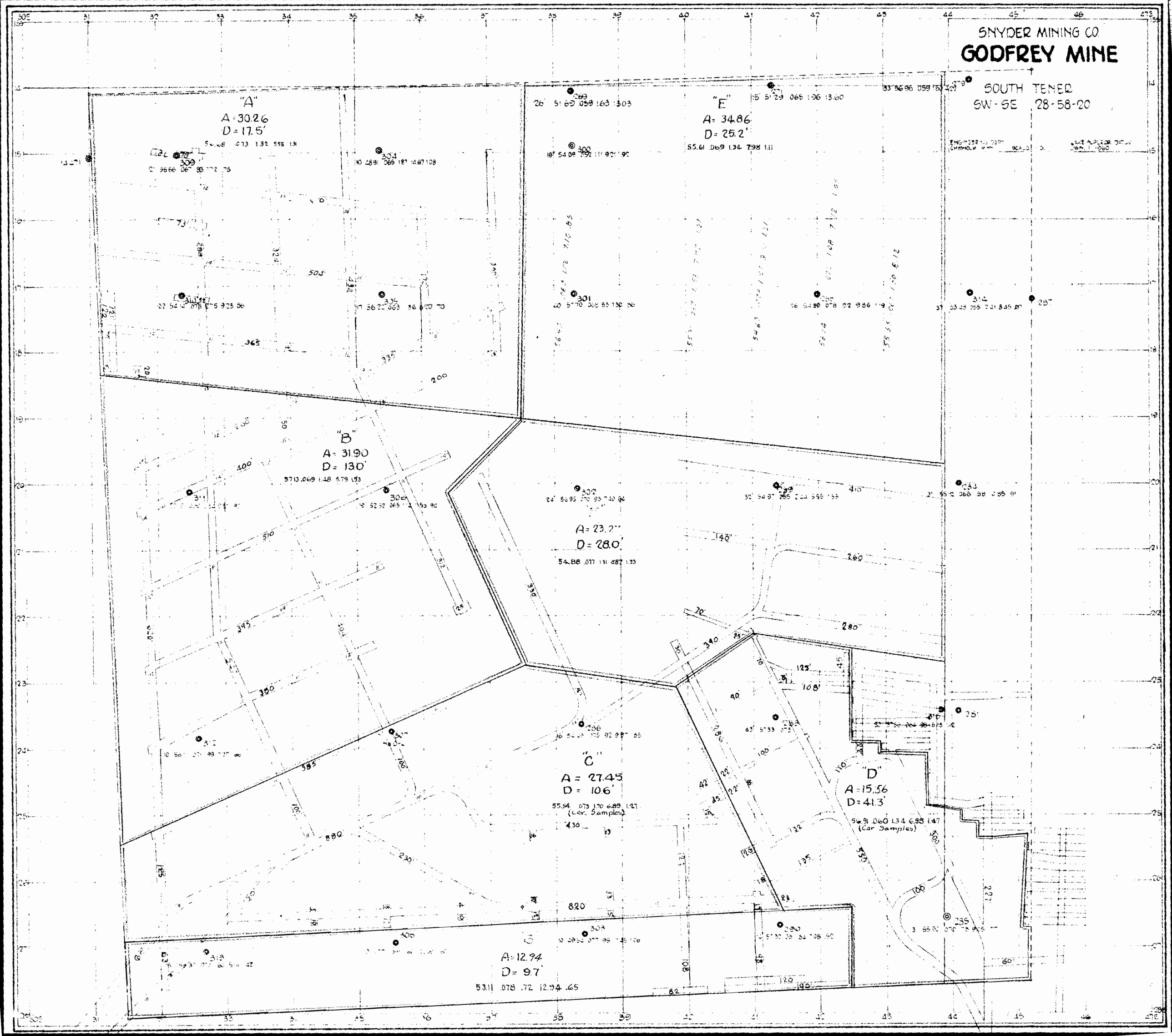
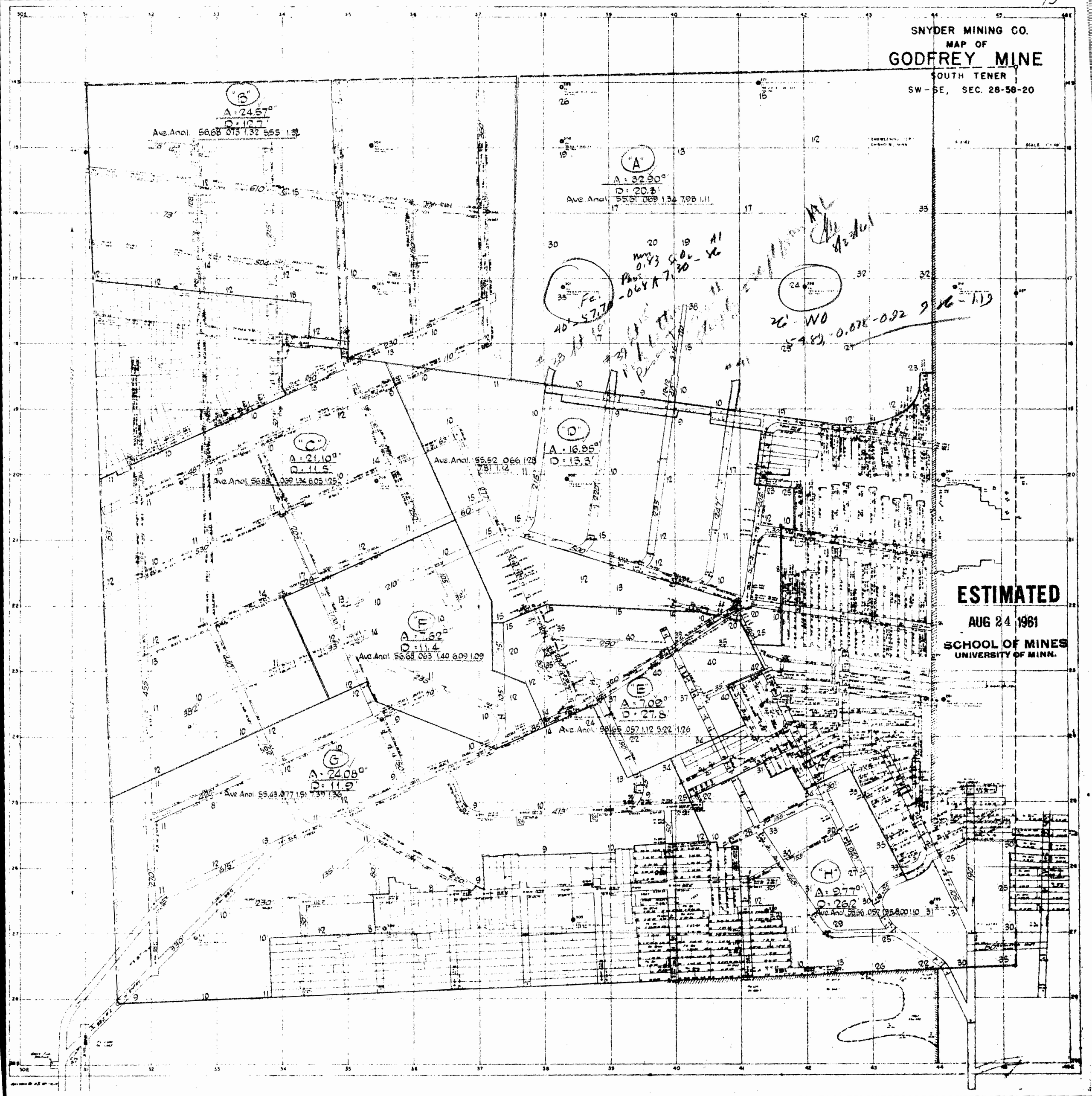
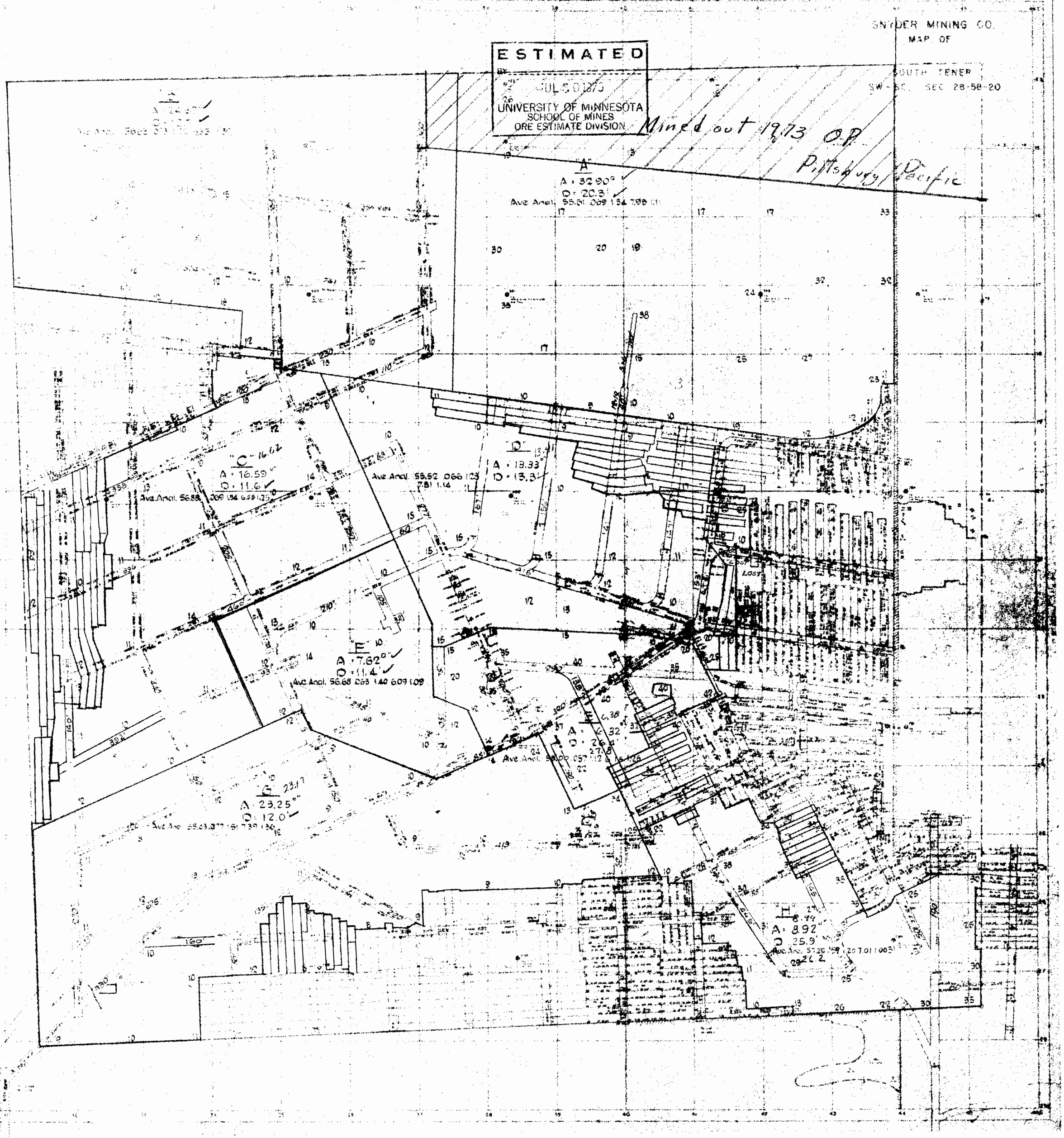
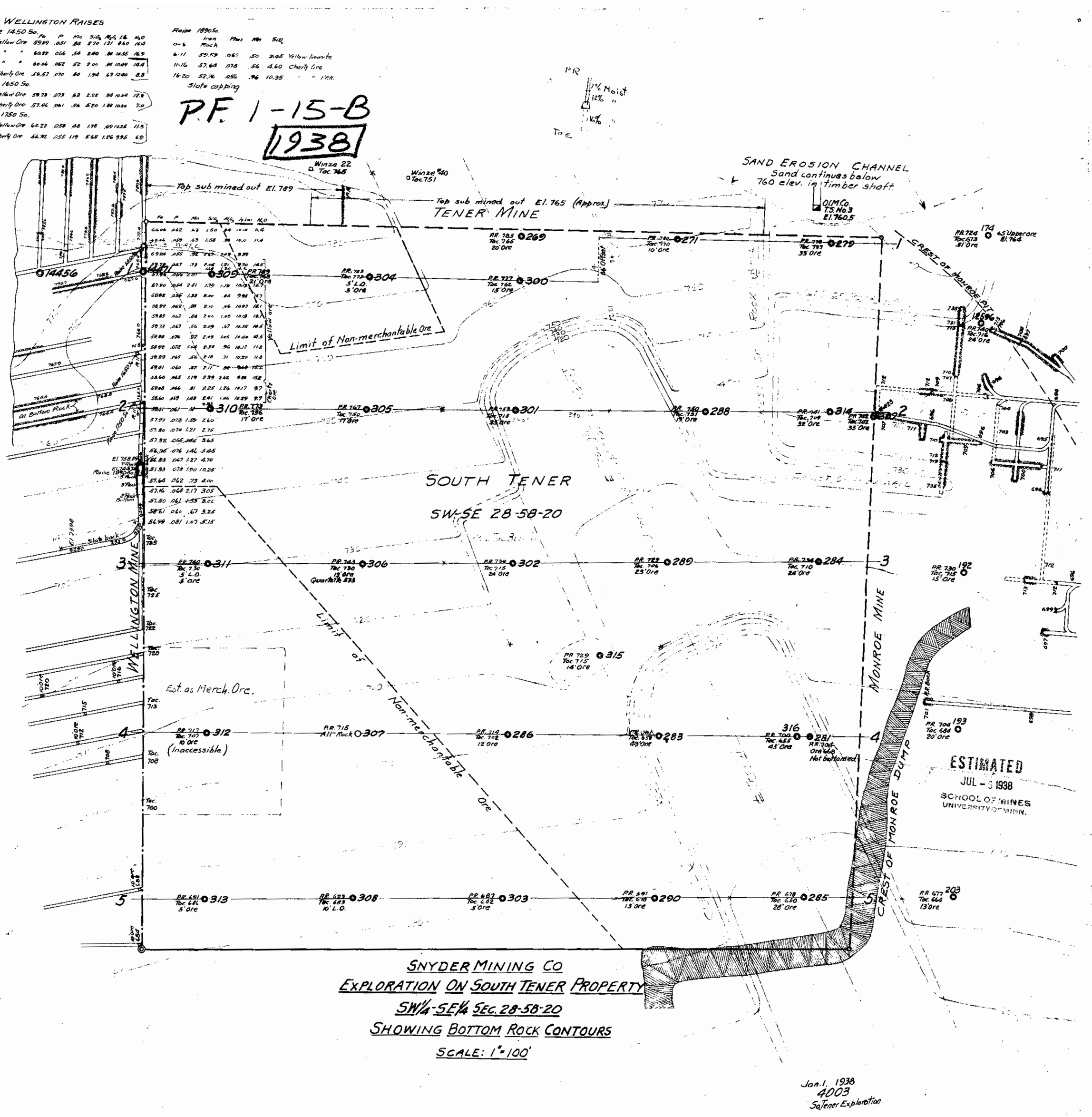

UNITED STATES STEEL CORPORATION
MINNESOTA ORE OPERATIONS
MONROE MINE
MESABI RANGE
SCALE
ELEVATIONS REFERRED TO LAKE SUPERIOR DATUM AT 587
JAN. 1, 1971
ENGINEERING DEPARTMENT
SHERMAN MINE
ESTIMATED
JUL 27 1971
UNIVERSITY OF MINNESOTA
SCHOOL OF MINES
ORE ESTIMATE DIVISION
U.S. STEEL SURFACE DUMP
PRESENT U.S. STEEL SURFACE DUMP
CHISHOLM
SW-NE 28 58-20
FEE
CLARK
SE-NW 28, 58-20
FEE
FEE L.O. 3071
FEE C.O. 3075
FEE ROCK 3072
FEE ROCK 3123
MONROE
SE-NE 28 58-20
FEE
BRUCE ANNEX
SW-NW 27, 58-20
SUR
BURT
NE-SW 28, 58-20
LEASE
TENER
NW-SE 28, 58-20
FEE
MONROE
NE-SE 28, 58-20
FEE
BURT ROCK
3015
SOUTH TENER
SW-SE 28, 58-20
MONROE
SE-SE 28, 58-20
FEE
GODFREY
BURT
WELLINGTON
SE-SW 28, 58-20
M.L.
BURT
L.O.
3008
GODFREY
BURT
NE-NW 33, 58-20
M.L.
GODFREY
BURT
NW-NE 33, 58-20
M.L.
GODFREY
BURT
NE-NE 33, 58-20
M.L.
U.S. STEEL CORP. OWNERSHIP OR CONTROL
Matches Glen, Clark & Leonard Burt
Matches Twin City Mine and Vicinity
Matches Dunwoody Mine
Matches Part of Section 34, T58N-R20W
Matches North ½ of Section 33, T58N-R20N
58-20
MONROE JAN. 1, 1971
JAN. 1, 1971


SNYDER MINING CO.
GODFREY MINE
SOUTH TENER
SW-SE 28-58-20
"A"
A=30.26
D=17.5'
"B"
A=31.90
D=13.0'
"C"
A=27.45
D=10.6'
(Car Samples)
"D"
A=15.56
D=41.3'
(Car Samples)
"E"
A=34.86
D=25.2'
A=23.2
D=28.0'
A=12.94
D=9.7'


SNYDER MINING CO.
MAP OF
GODFREY MINE
SOUTH TENER
SW-SE, SEC. 28-58-20
"B"
A: 24.57°
D: 12.7'
Ave. Anal. 56.68 .013 1.32 5.55 1.31
"A"
A: 32.90°
D: 20.3'
Ave. Anal. 55.61 .069 1.34 7.98 1.11
"C"
A: 21.10°
D: 11.5'
Ave. Anal. 56.83 .069 1.34 6.05 1.25
"D"
A: 16.85°
D: 13.3'
Ave. Anal. 55.52 .066 1.28 7.81 1.14
"F"
A: 7.62°
D: 11.4'
Ave. Anal. 56.68 .063 1.40 6.09 1.09
"E"
A: 7.09°
D: 27.8'
Ave. Anal. 58.65 .057 1.12 5.22 1.26
"G"
A: 24.08°
D: 11.9'
Ave. Anal. 55.43 .077 1.51 7.39 1.36
"H"
A: 9.77°
D: 26.2'
Ave. Anal. 58.66 .057 1.35 8.00 1.10
ESTIMATED
AUG 24 1961
SCHOOL OF MINES
UNIVERSITY OF MINN.


SNYDER MINING CO.
MAP OF
SOUTH TENER
SW-SE, SEC 28-58-20
ESTIMATED
JUL 5 1975
UNIVERSITY OF MINNESOTA
SCHOOL OF MINES
ORE ESTIMATE DIVISION
Mined out 1973 OP
Pittsburg Pacific
"A"
A = 32.90'
D = 20.3'
"C"
A = 16.59'
D = 11.6'
"D"
A = 18.33'
D = 13.3'
"E"
A = 7.62'
D = 11.4'
"G"
A = 23.25'
D = 12.0'
"H"
A = 8.92'
D = 25.9'
Lost

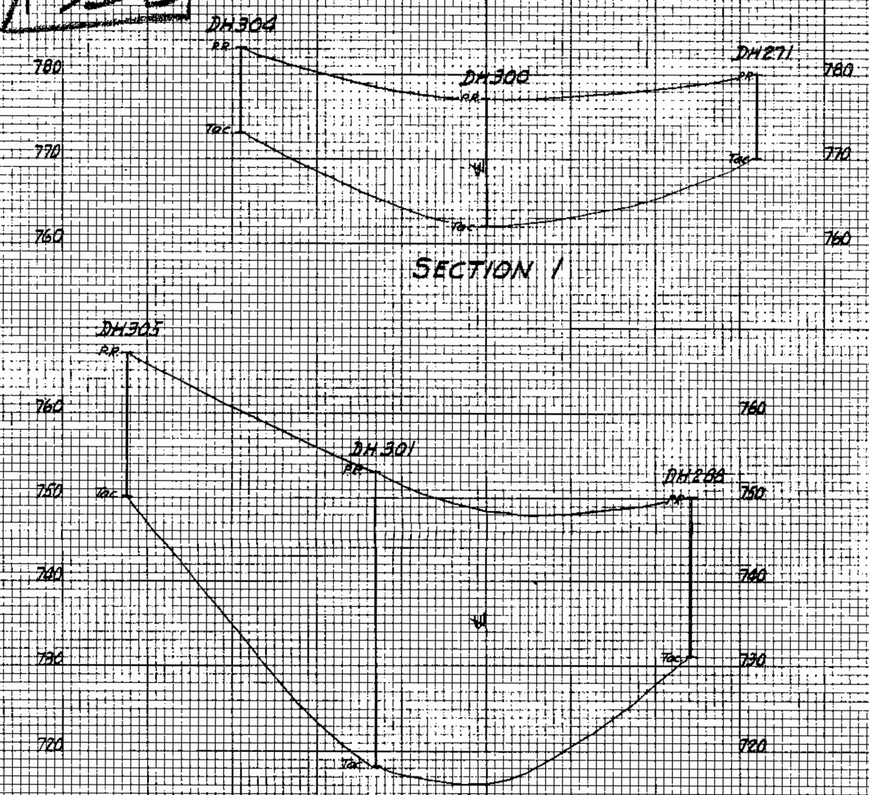

WELLINGTON RAISES
Raise 1450 So.
0-5 Yellow Ore 59.89 .051 .84 2.70 1.21 8.60 16.4
5-10 " " 60.22 .066 .54 2.40 .88 10.56 16.9
10-15 " " 60.06 .062 .52 2.00 .84 10.89 16.4
To P.R. 15-19 Cherty Ore 59.57 .070 .46 1.94 .63 12.80 8.3
Raise 1650 So.
0-7 Yellow Ore 59.73 .073 .63 2.22 .84 10.64 12.6
To P.R. 7-11 Cherty Ore 57.46 .061 .56 5.20 1.38 10.26 7.0
Raise 1750 So.
0-6 Yellow Ore 60.22 .058 .48 1.78 .69 10.25 11.5
To P.R. 6-11 Cherty Ore 56.32 .055 1.19 5.68 1.26 9.95 6.9
Raise 1890 So.
Iron Rock Phos Mn SiO2
0-6 59.59 .067 .50 2.45 Yellow limonite
6-11 57.63 .078 .56 4.60 Cherty Ore
16-20 52.76 .056 .96 10.35 " " P.R.
Slate capping
P.F. 1-15-B
1938
Winze 22 Tac. 765
Winze #40 Tac. 751
Top sub mined out El. 789
Top sub mined out El. 765 (Approx.)
TENER MINE
SAND EROSION CHANNEL
Sand continues below 760 elev. in timber shaft
OLM.Co. T.S. No. 3 El. 760.5
CREST OF MONROE PIT
Limit of Non-merchantable Ore
SOUTH TENER
SW-SE 28-58-20
WELLINGTON MINE
MONROE MINE
CREST OF MONROE DUMP
Est. as Merch. Ore.
ESTIMATED
JUL - 3 1938
SCHOOL OF MINES
UNIVERSITY OF MINN.
SNYDER MINING CO
EXPLORATION ON SOUTH TENER PROPERTY
SW¼-SE¼ SEC. 28-58-20
SHOWING BOTTOM ROCK CONTOURS
SCALE: 1" = 100'
Jan. 1. 1938
4003
So. Tener Exploration

PF 1-15-B

238

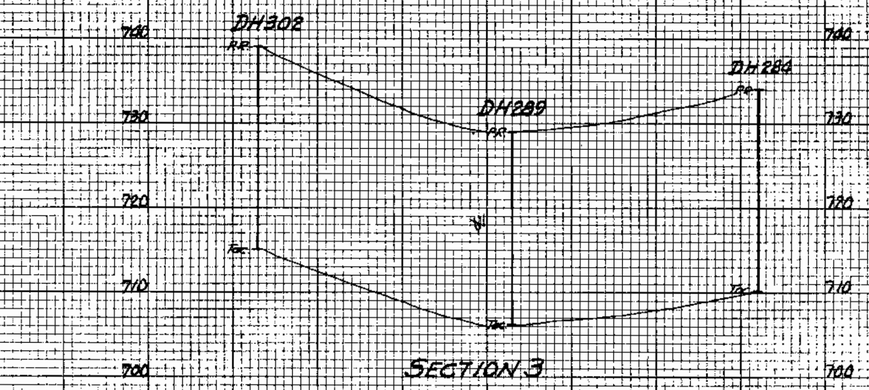
MICROFILMED
MAY 1 6 1958
BUREAU OF MINES
MINNEAPOLIS, MINN.

SPECIAL SECTIONS
FOR DETERMINATION OF ℄ OF DEEP TROUGH
SOUTH TENER PROPERTY

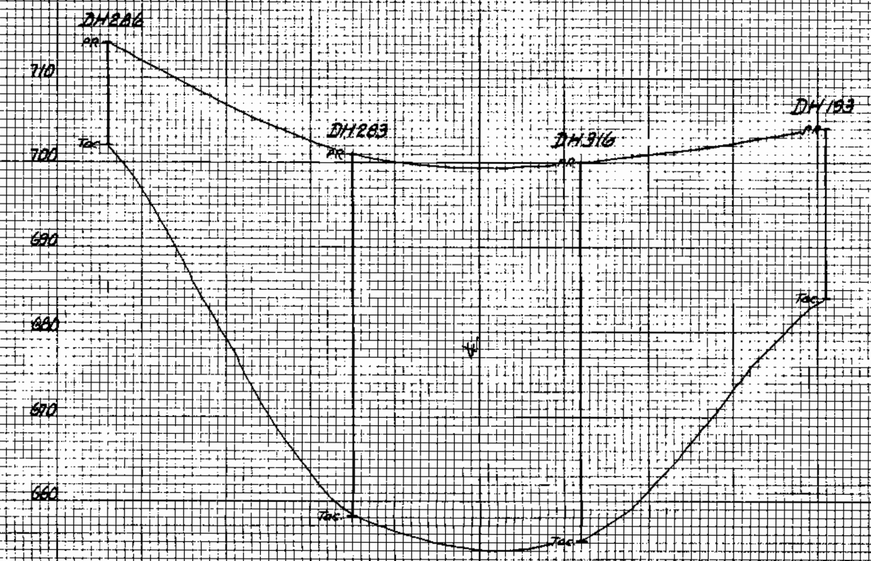


SECTION 1

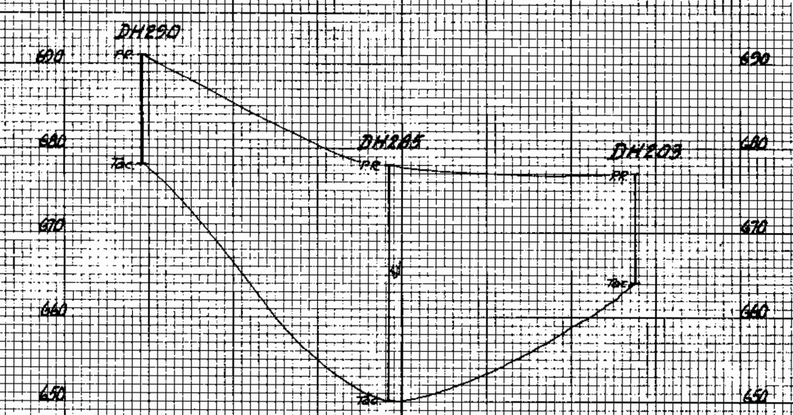
SECTION 2



SECTION 3



SECTION 4



SECTION 5

3-5-58
4104
S. Tener Sections

Prof. Yardley

RECEIVED
FROM

May 10, 1955

Mr. H. R. McAdams,
Chief Engineer, Mining Division
Department of Taxation
State Office Building
St. Paul, Minnesota

Re: South Tener Reserve
SW-SE 28-58-20

Dear Sir:

Replying to your letter of May 5, 1955, suggesting review of the above reserve, may we call your attention to the following agreement entered into between OIM Division and Snyder Mining Company covering South Tener property.

On December 1, 1949 an agreement was entered into whereby Snyder traded 381,749 tons of South Tener underground ore to Oliver in return for equal iron units in so-called Sellers Triangle. This South Tener ore lay in a strip 131.15 feet wide along the east property line. Oliver began mining this pillar through their Godfrey shaft May 28, 1951.

In order to simplify payment of ad valorem taxes Snyder has continued paying taxes on the entire South Tener reserve, being reimbursed by Oliver for tonnage remaining in their 131.15 foot pillar along the East property line. To 5/1/55 a total of 235,661 tons of ore had been mined by Oliver from this pillar. As of 5/1/55 Oliver closed down the Godfrey mine and suspended operations in the South Tener.

In order to clarify the picture of the South Tener property we are enclosing herewith prints of three levels showing mining operations completed by Oliver to date.

Because there has been no new exploration on entire South Tener forty since last reserve estimate was submitted June 29, 1939, and because mining has been confined to a narrow strip along the East property line, we do not feel that a review of this property is necessary at this time.

We hope the above explanation will help clarify the South Tener picture, and that you will concur with our conclusion.

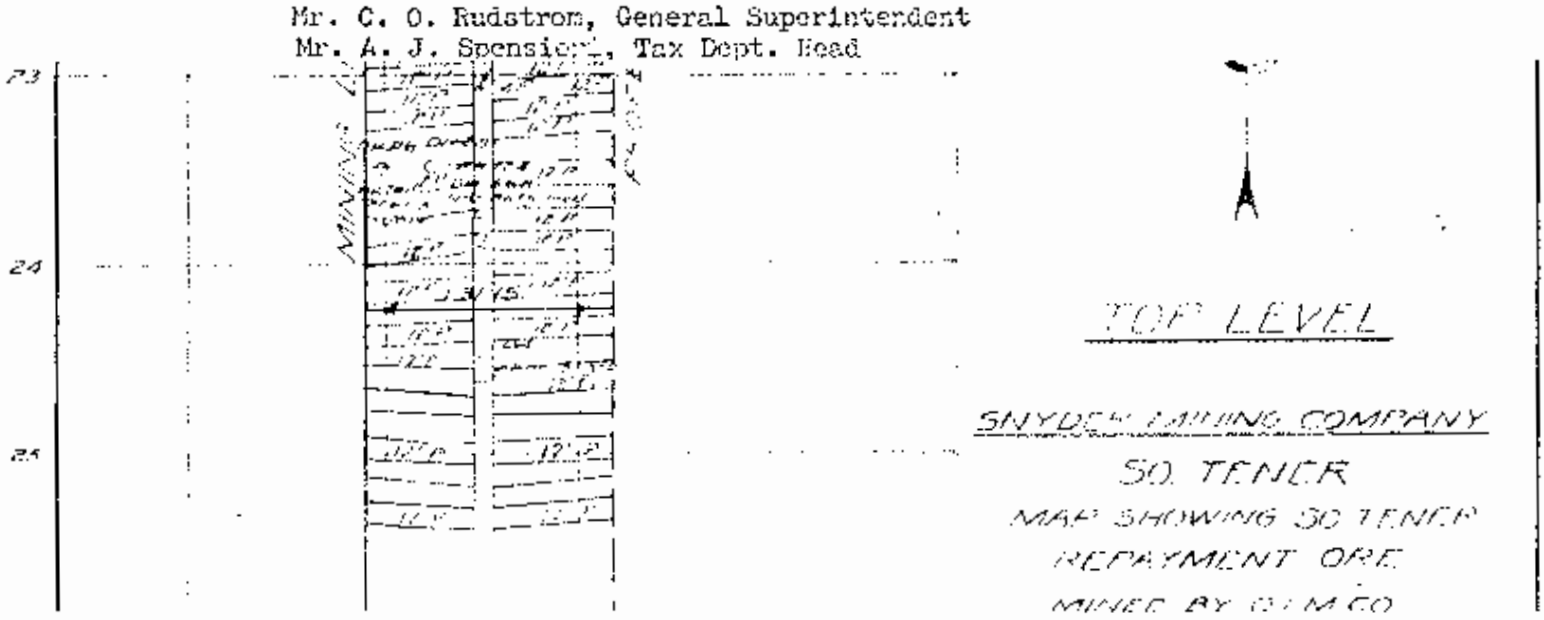
Yours very truly,

A. C. Borgeson
Chief Engineer

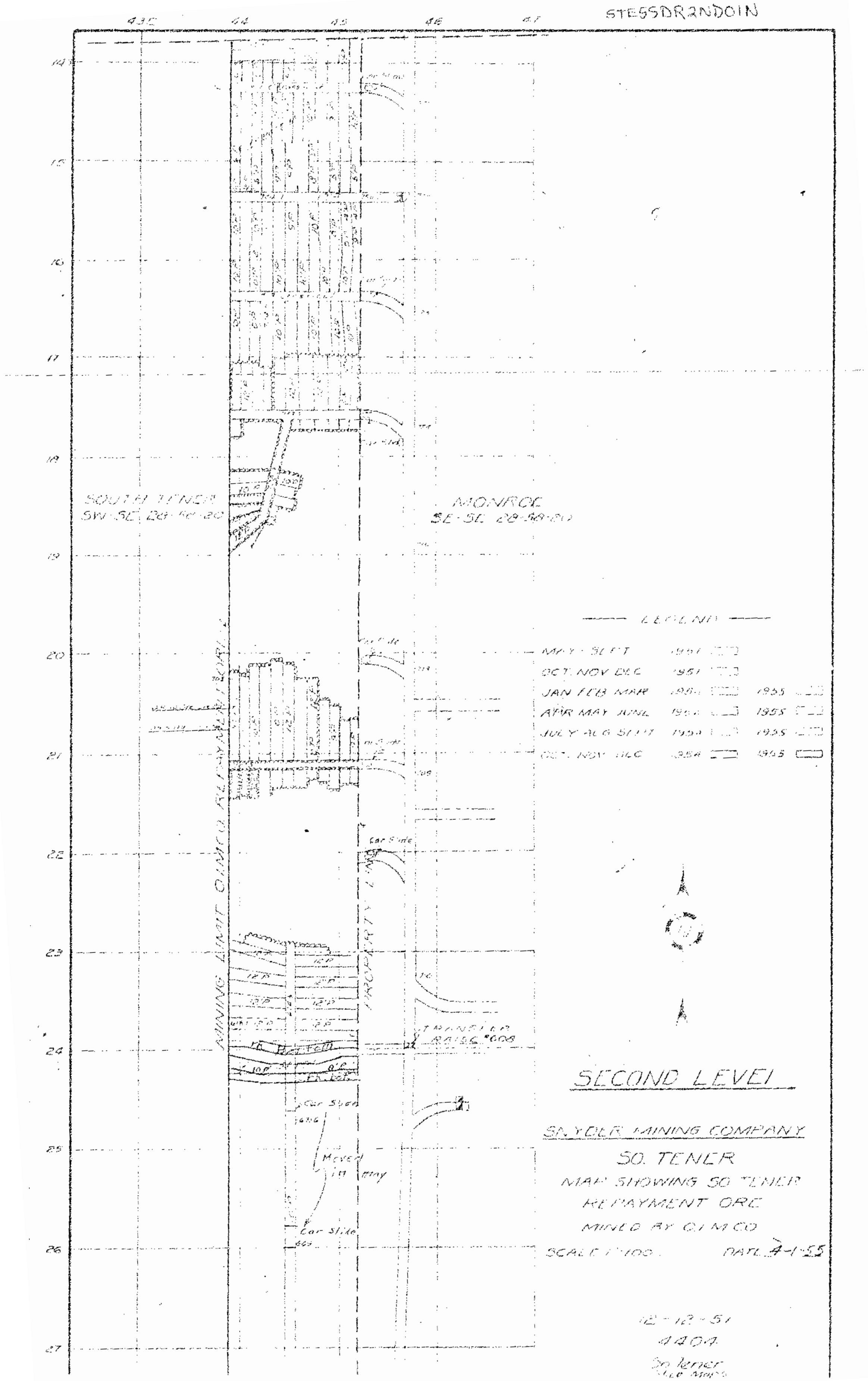
ACB:mjs

cc: Prof. D. H. Yardley, School of Mines
University of Minnesota, Minneapolis, Minn.

Mr. C. O. Rudstrom, General Superintendent
Mr. A. J. Spensieri, Tax Dept. Head



STESSDR2NDOIN



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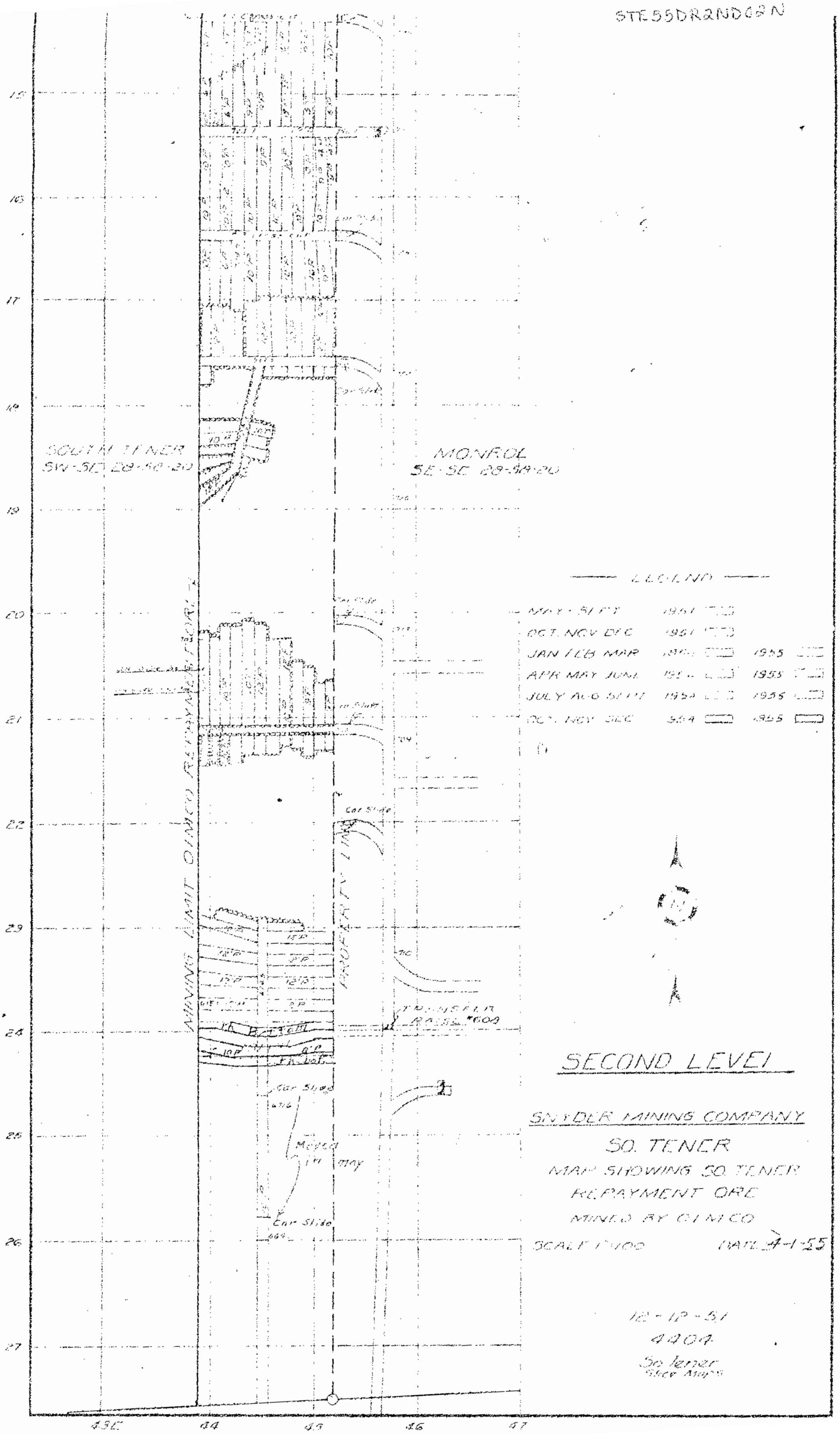
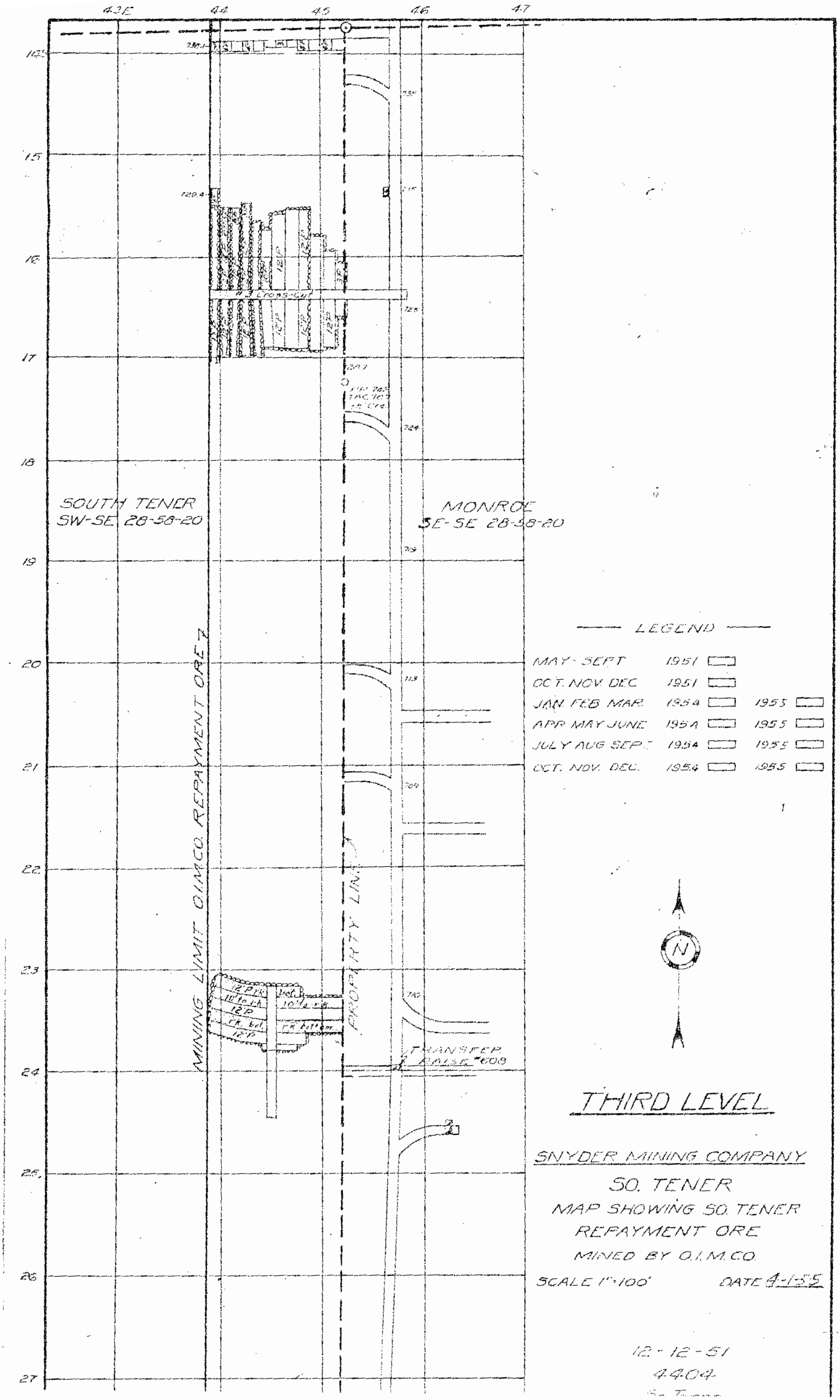
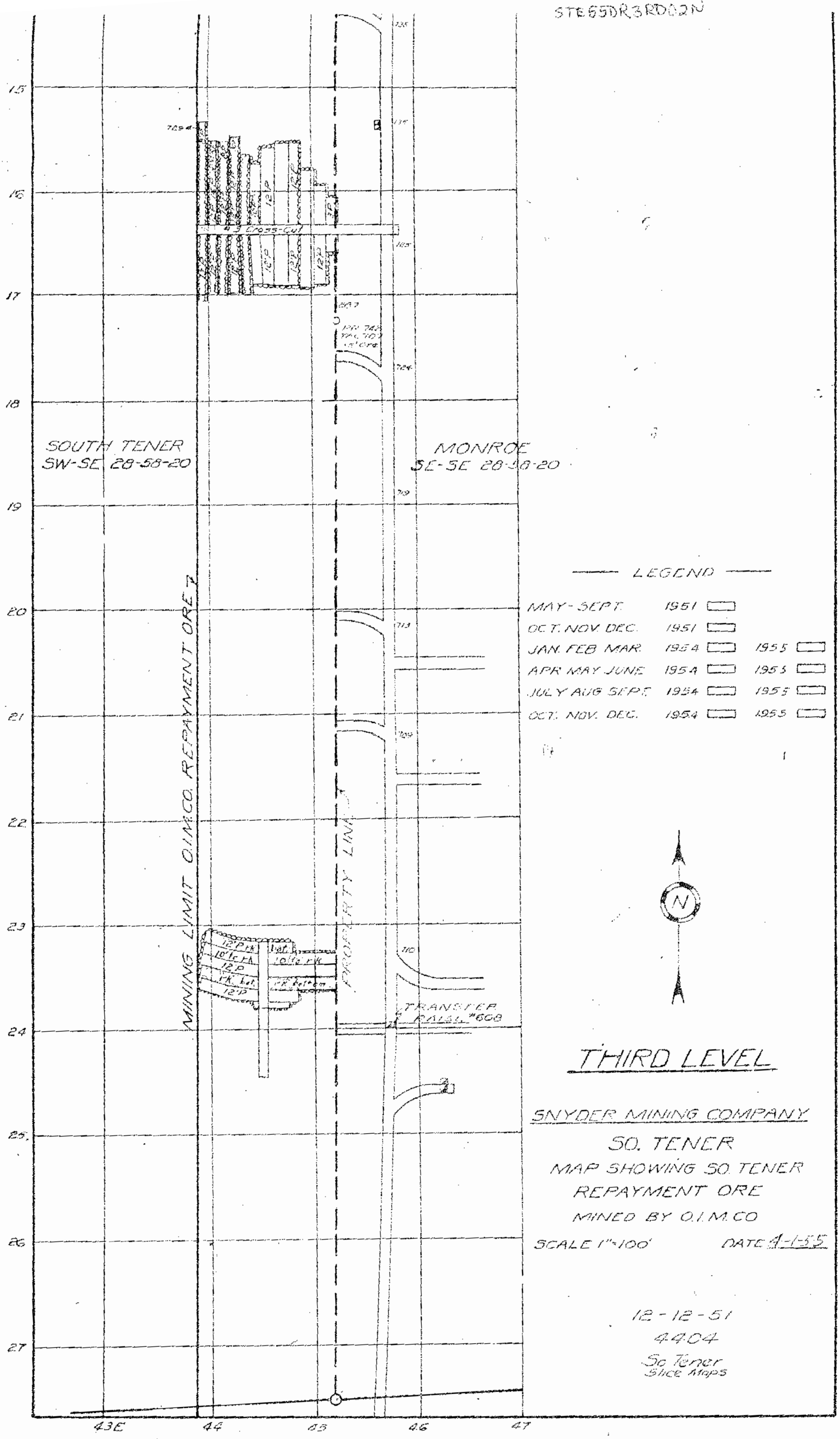


STESSDR3RDOIN



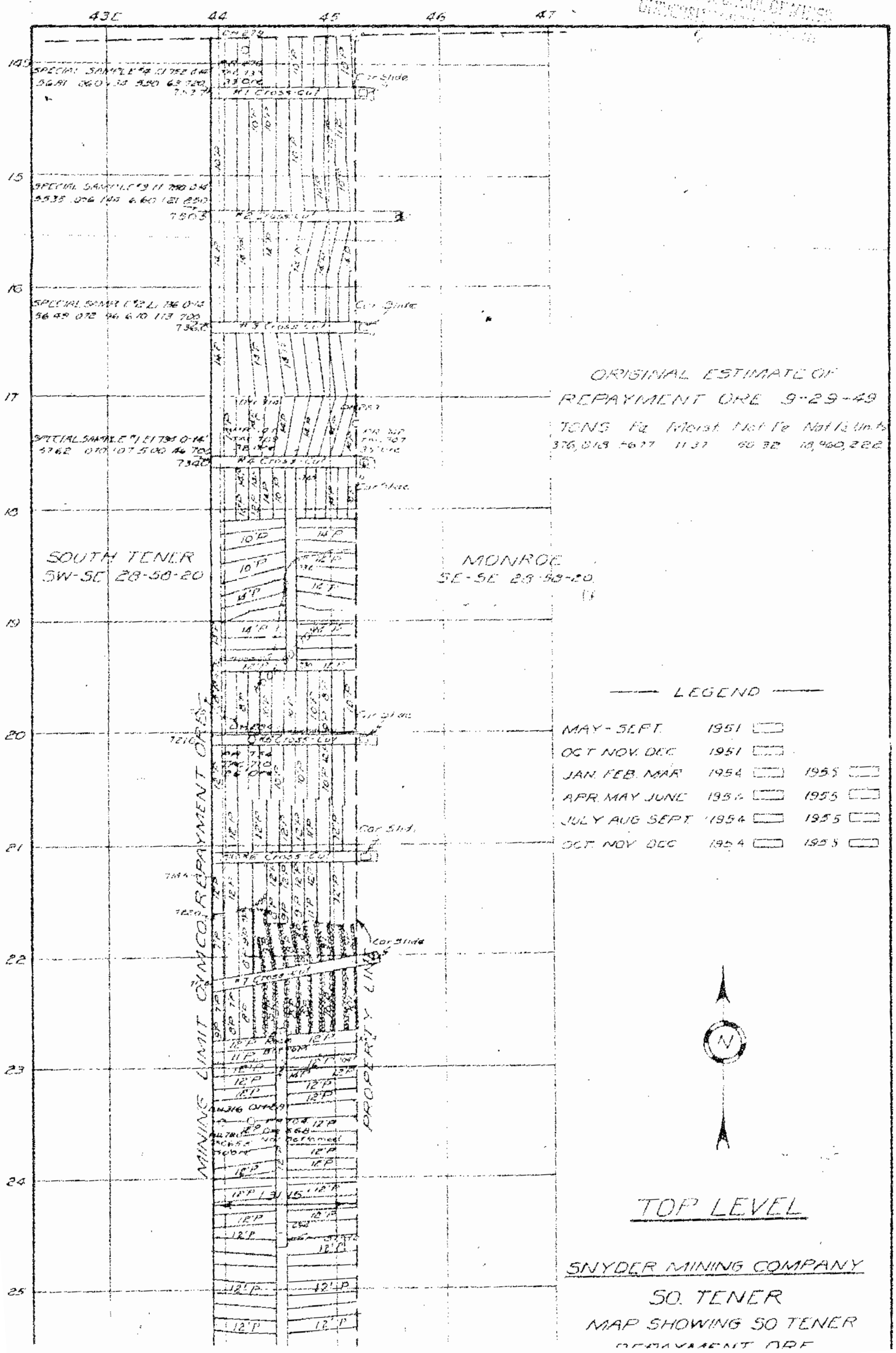
STE55DR3RD02N



STE55RVTOPOIN

FROM

RECEIVED
FROM
MAY 11 1956
MINNESOTA SCHOOL OF MINES
UNIVERSITY OF MINNESOTA



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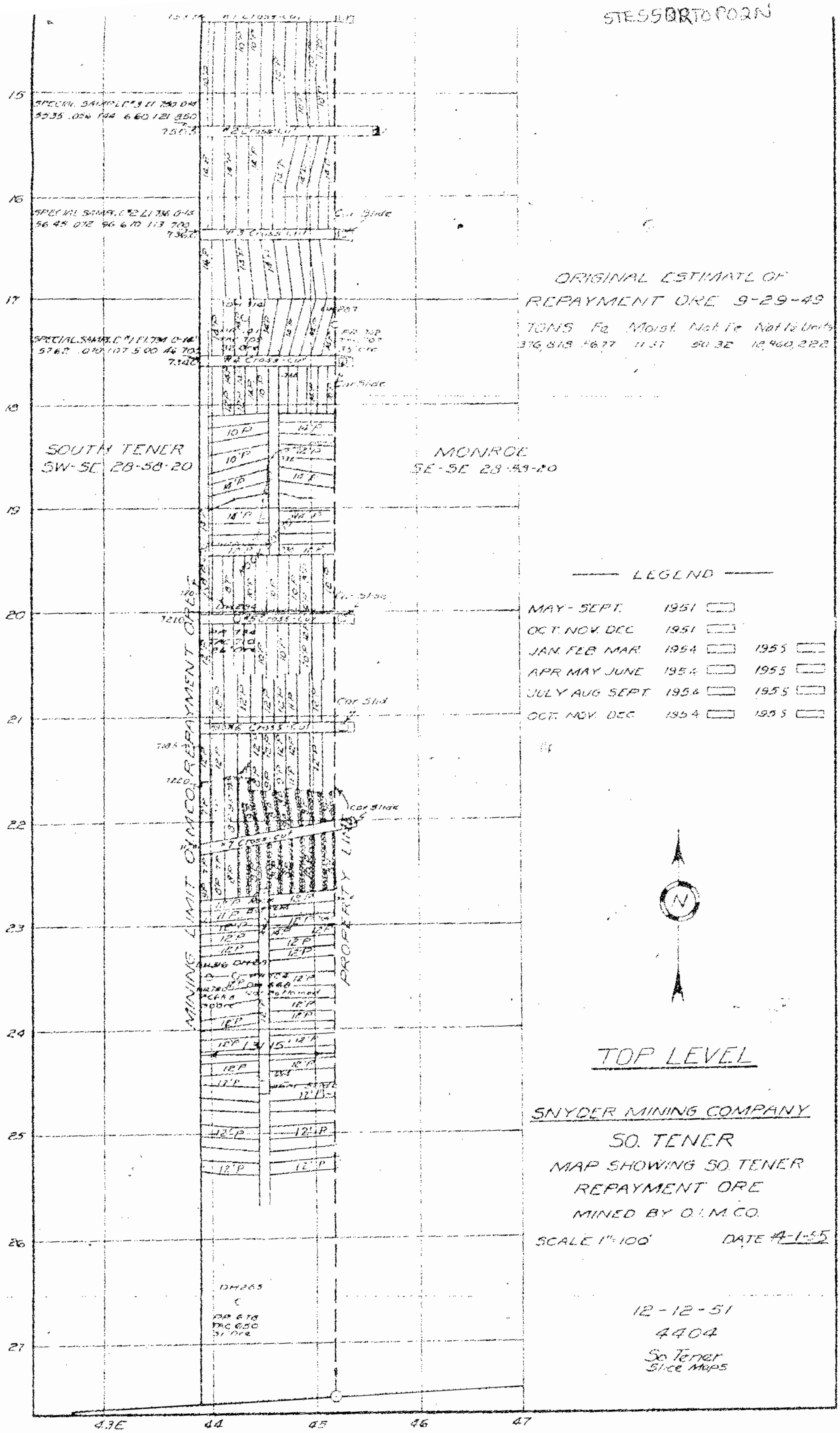

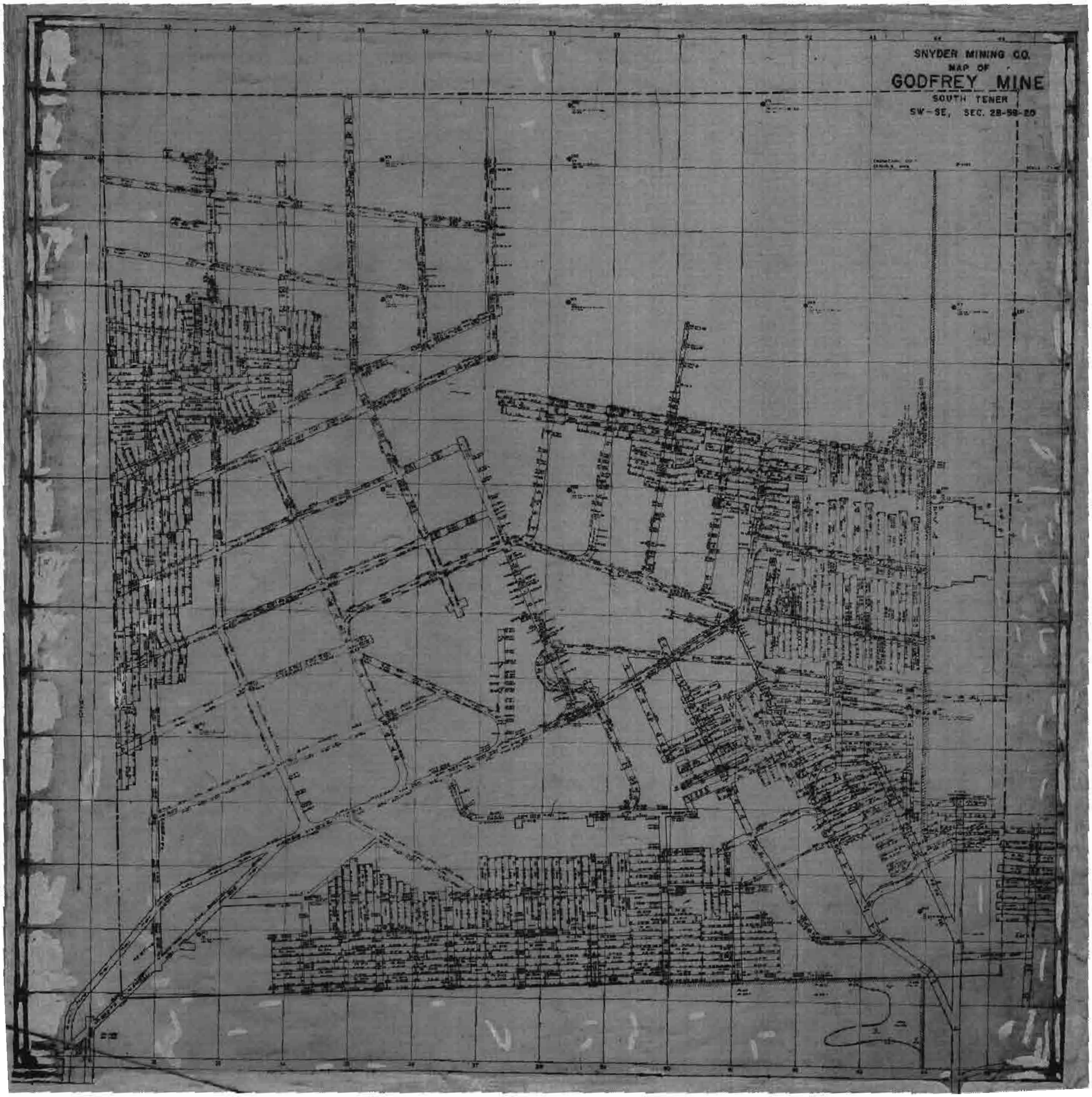
SNYDER MINING CO.
MAP OF
GODFREY MINE
SOUTH TENER
SW-SE, SEC. 28-59-20