



State of New Jersey
Department of Environmental Protection
Geological Survey

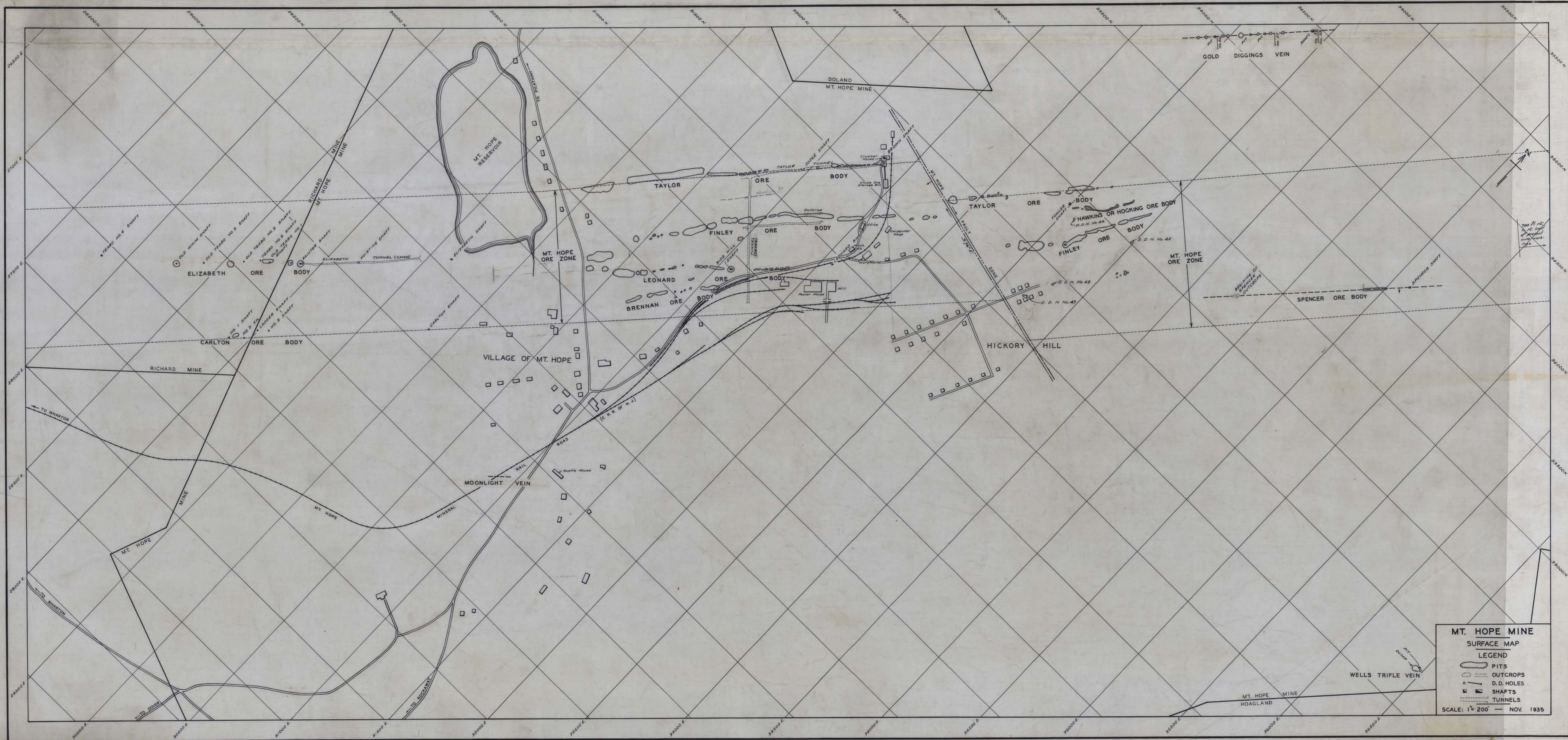


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MT. HOPE MINE
SURFACE MAP
LEGEND

- PITS
- OUTCROPS
- D. D. HOLES
- SHAFTS
- TUNNELS

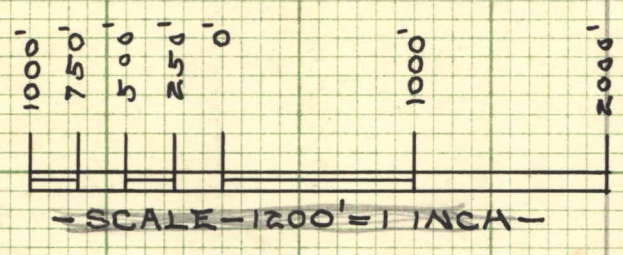
SCALE: 1" = 200' — NOV. 1935

Make drawing. Make lettering large enough to stand reduction to 1/3 present size

100
31 = 120
48 = 120
Folio 10

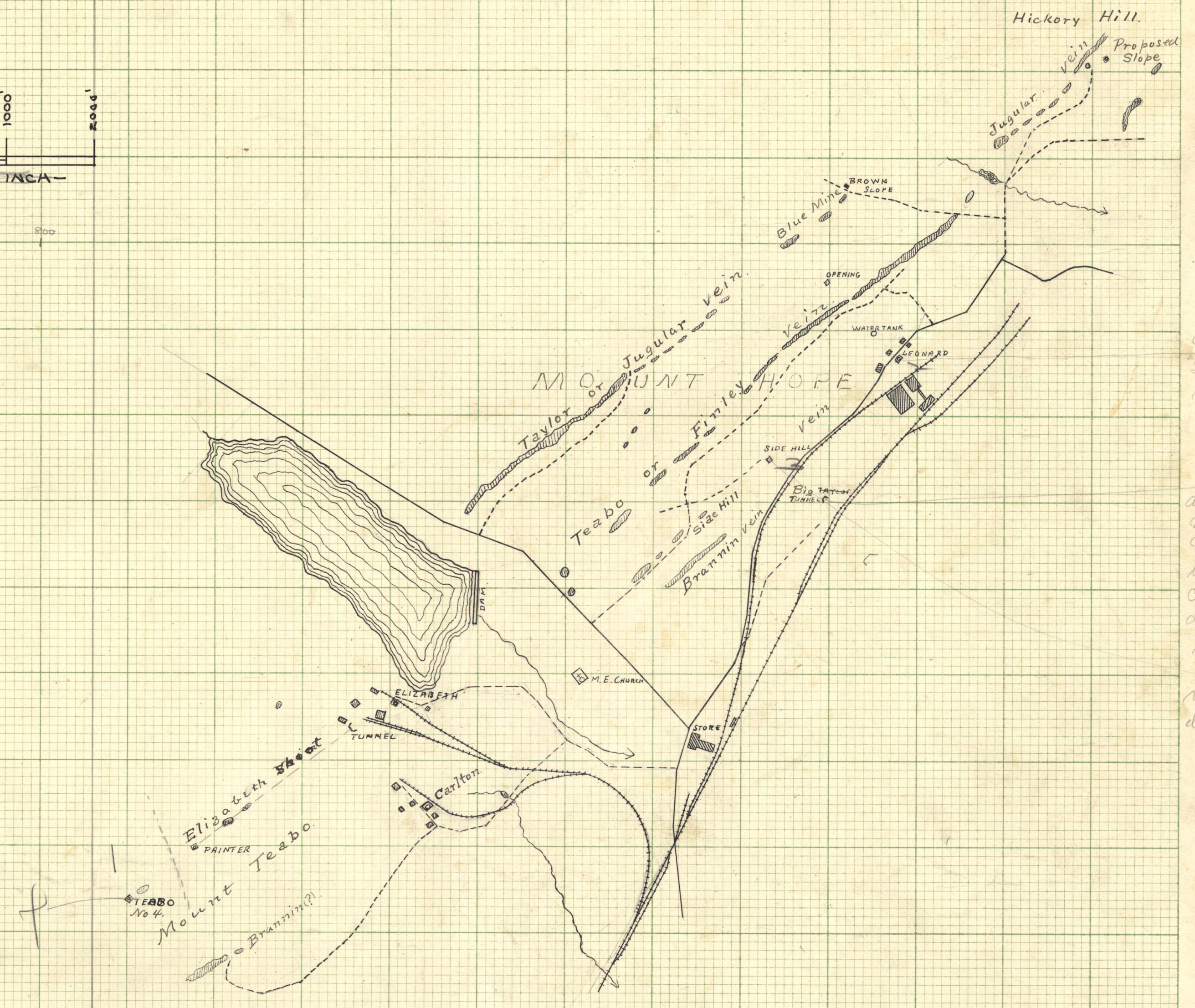
MOUNT HOPE MINES,
MORRIS COUNTY, N.J.

SEPT. 15, 1900.



- ROADS ————
- DIRT RD'S - - - -
- RAILROADS —+—+—+—
- SHAFTS []
- Pits on OUTCROPS []
- TUNNEL []

(original map by Staats - 1909).

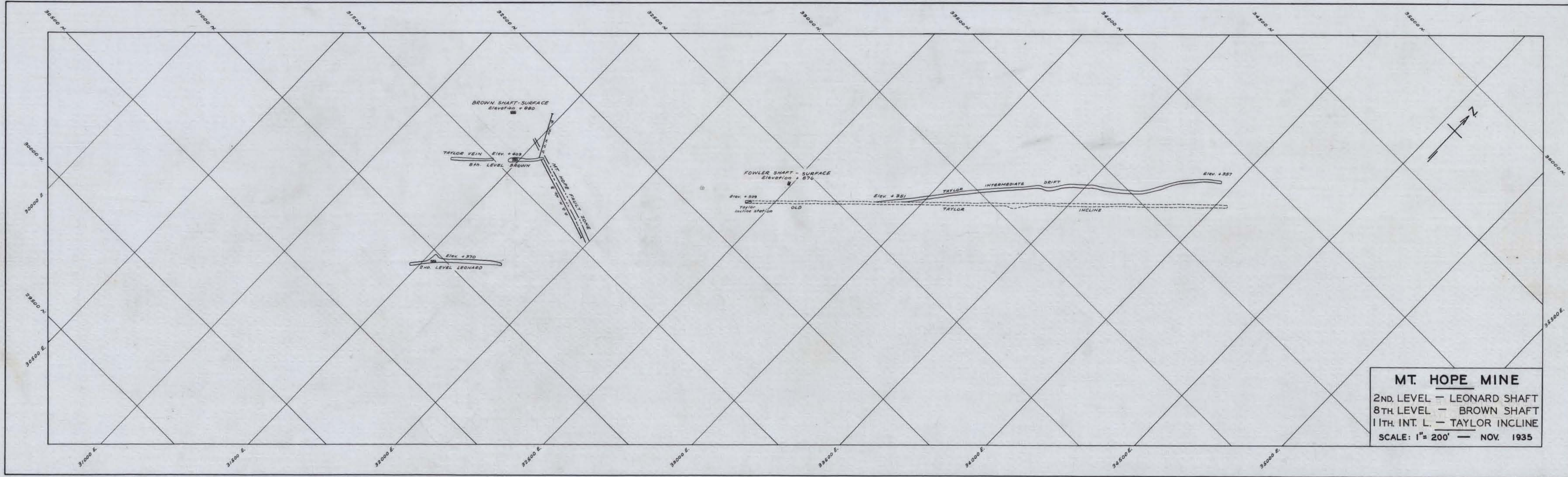


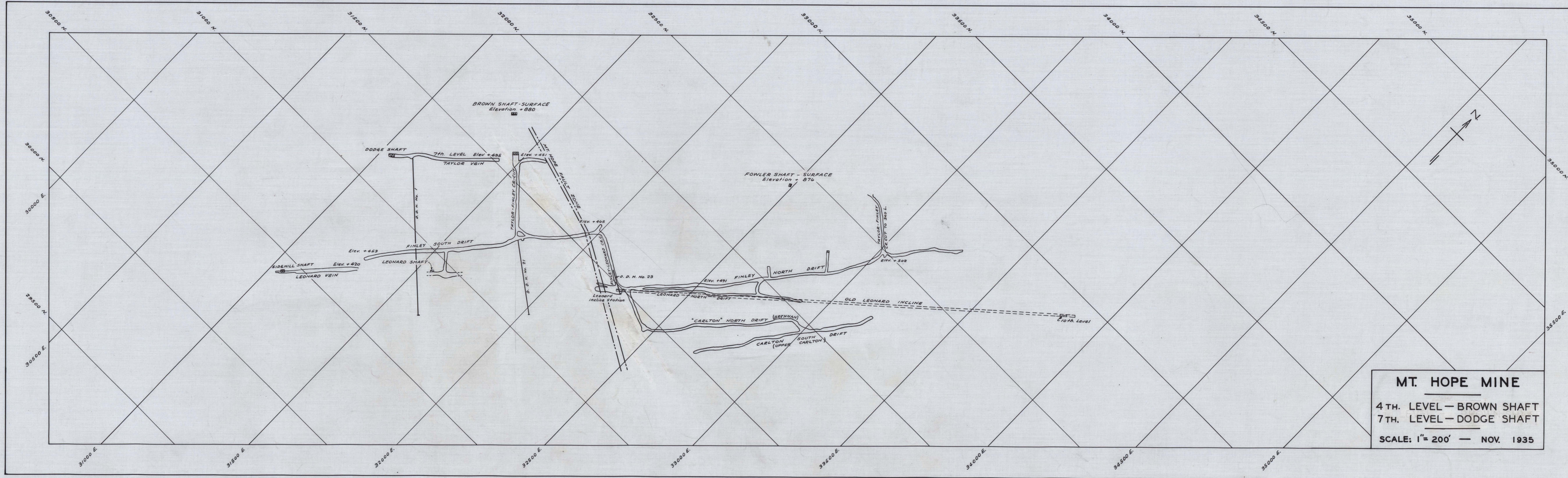
make this slope on map.

This is not as a but mark was cutting a tunnel correct on drawing "slope" correct on drawing.

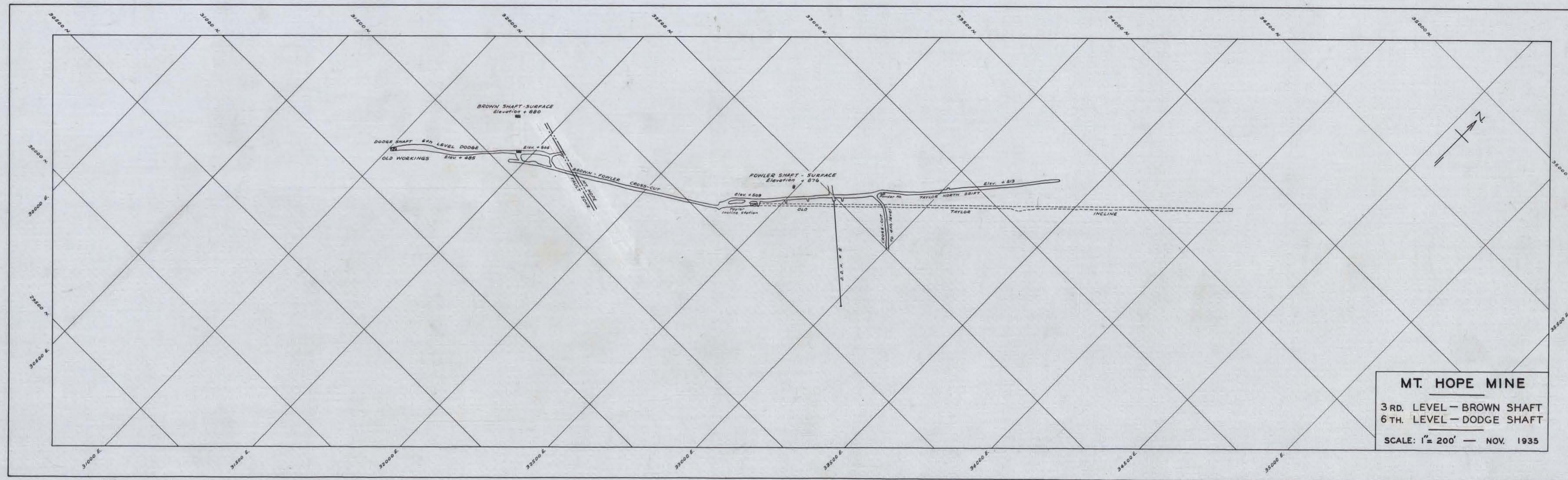
3

Handwritten signature in blue ink.





MT. HOPE MINE
 4 TH. LEVEL — BROWN SHAFT
 7 TH. LEVEL — DODGE SHAFT
 SCALE: 1" = 200' — NOV. 1935



2 PLATE 14

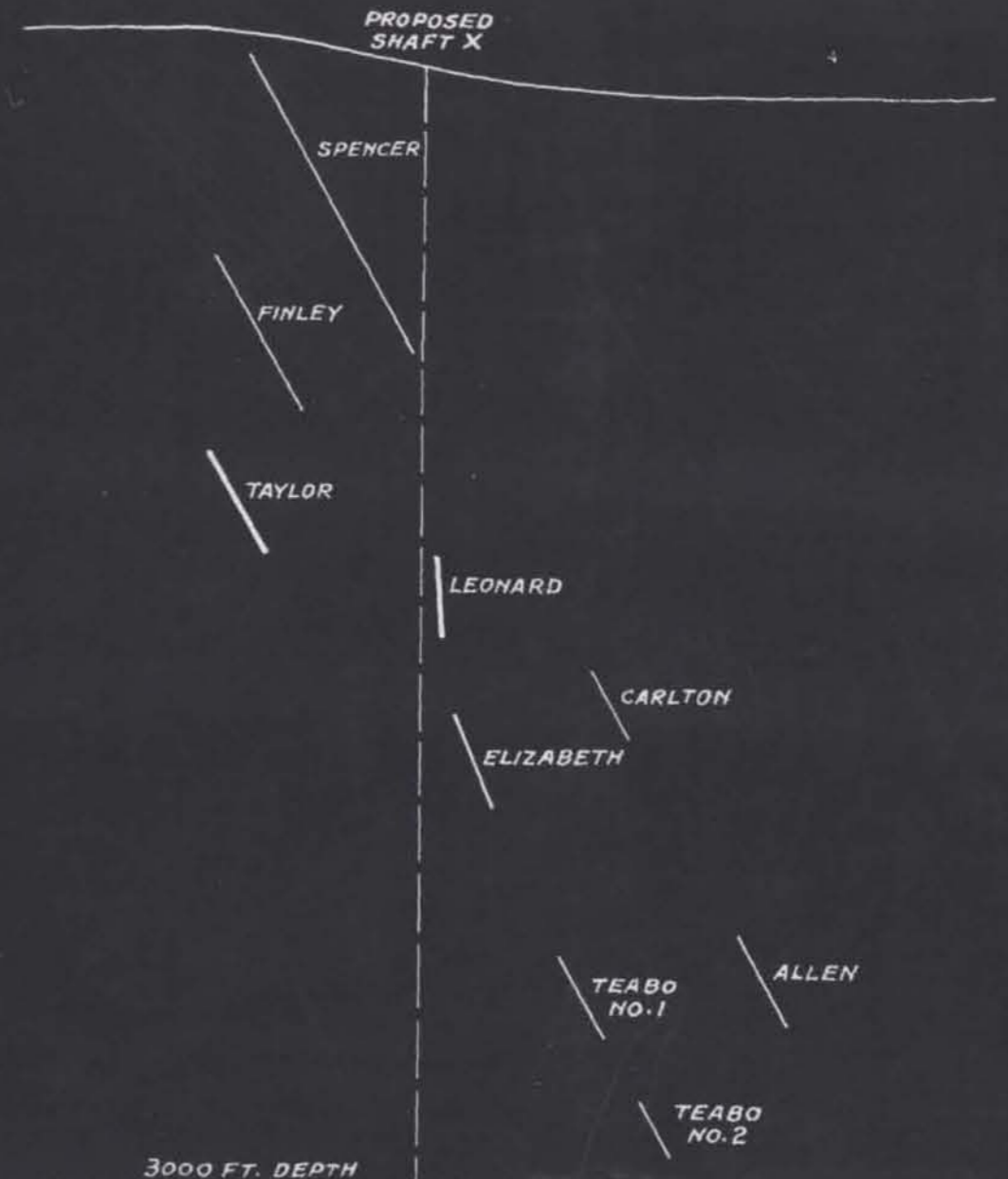
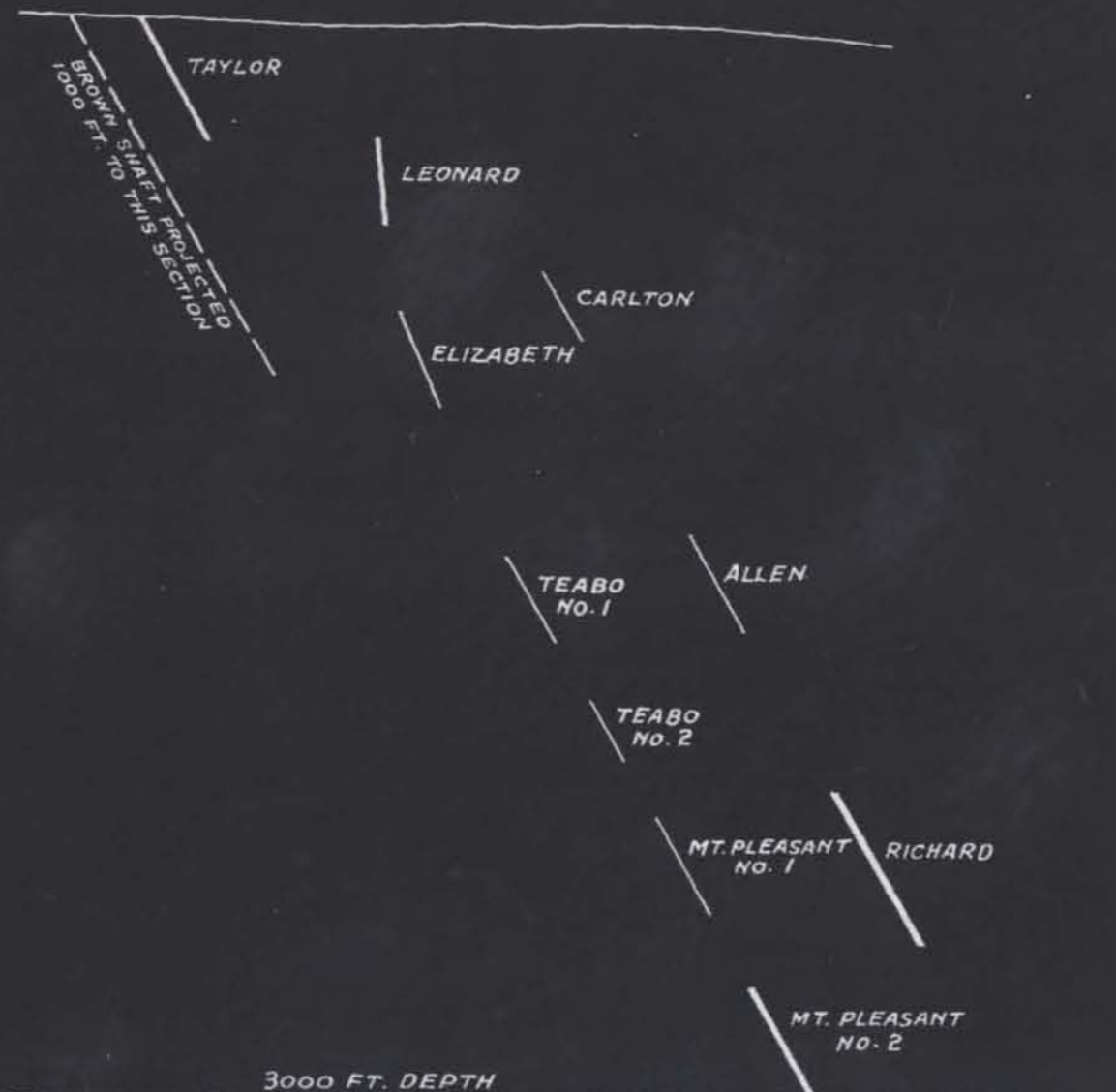
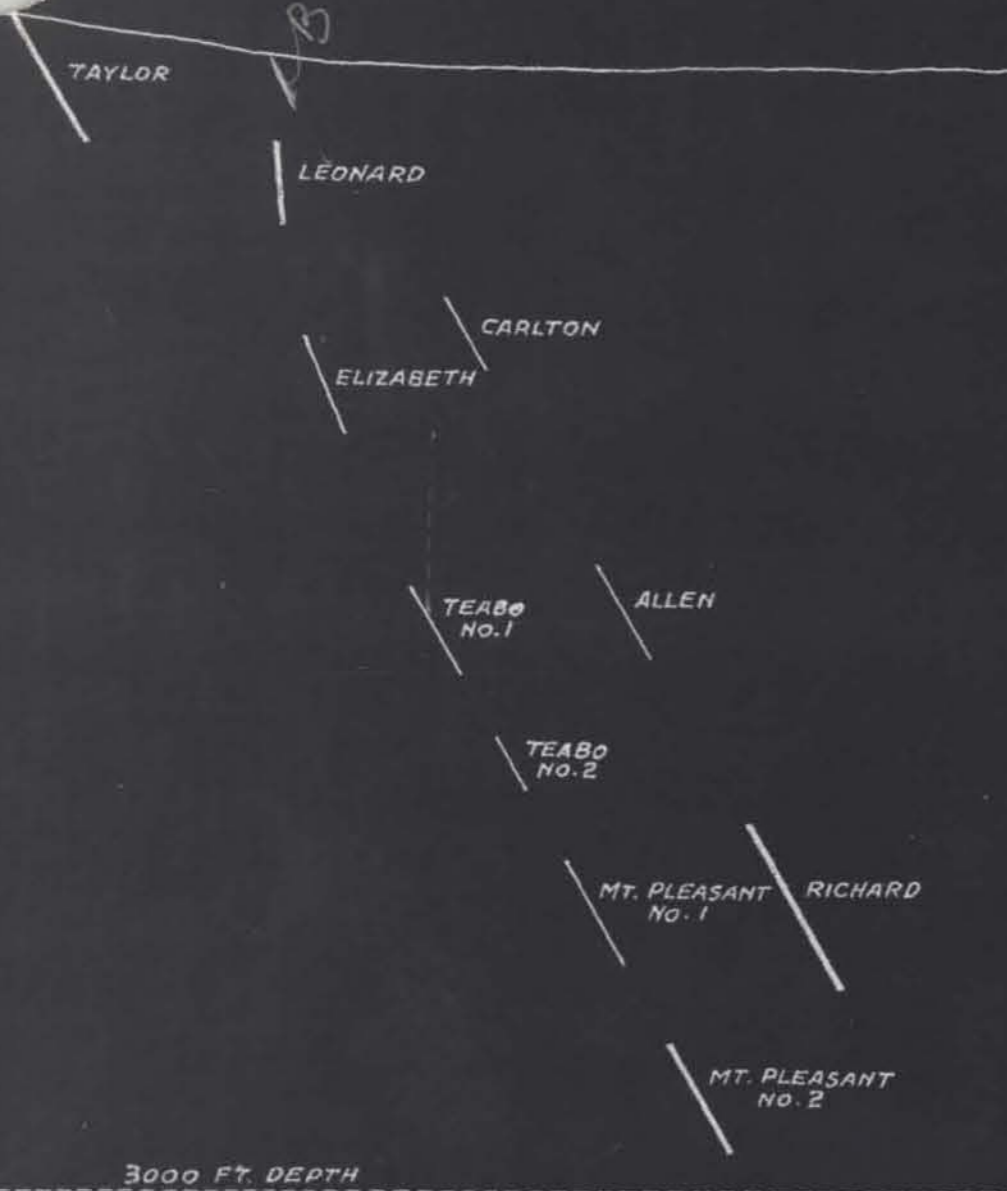


VERTICAL SECTION THRU
BROWN SHAFT

1000 FEET SW
BROWN SHAFT

SECTION B 1000 FEET NE
OF BROWN SHAFT

SECTION X 4000 FEET NE
OF BROWN SHAFT



MT. HOPE MINE CROSS SECTIONS



SCALE OF FEET

REPORT OF W. SPENCER HUTCHINSON
MINING ENGINEER

BOSTON, MASS.
JANUARY 30, 1923.



3'CA
2'CA
1'CA

11th Hope Mine
Cross-section North
Scale 1/200

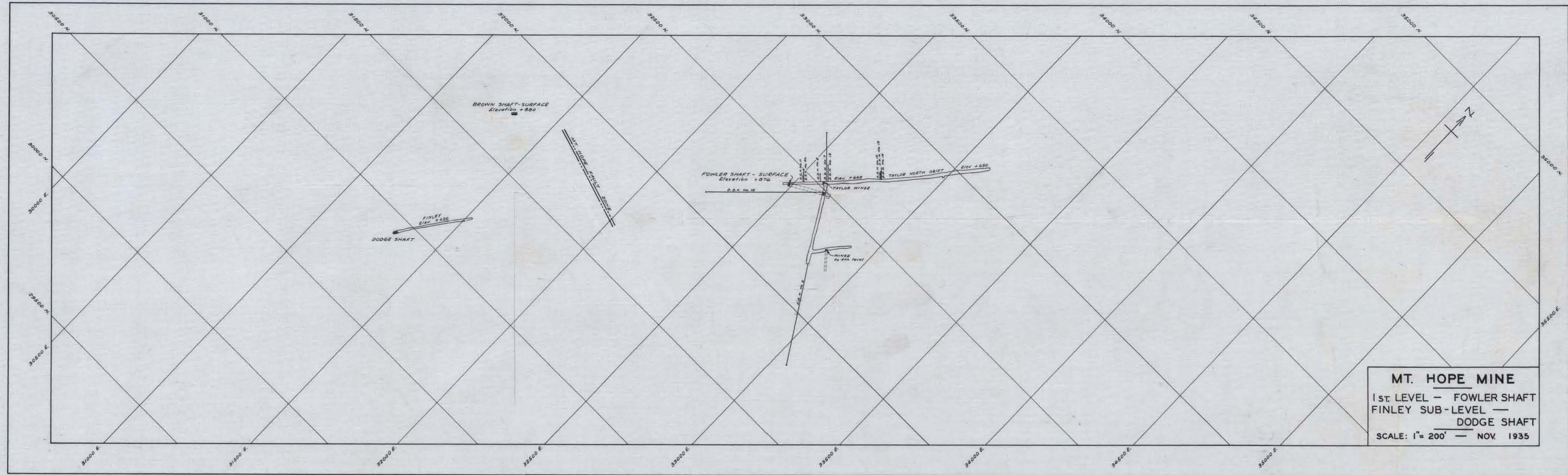


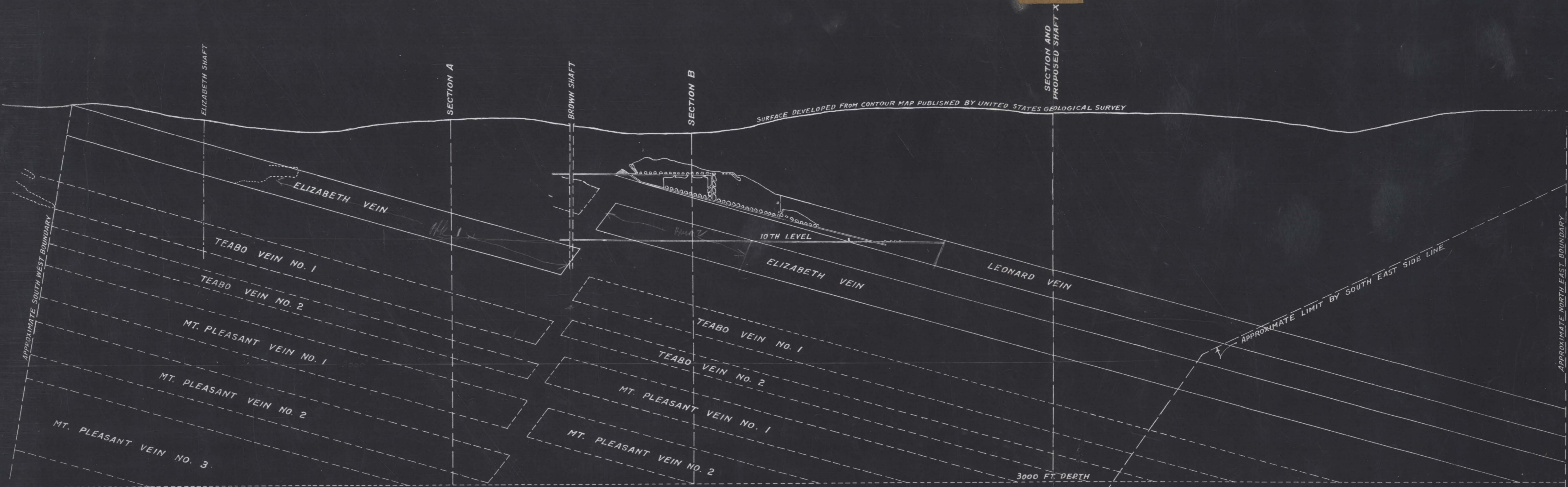


**MT. HOPE MINE
LONGITUDINAL PROJECTION
FINLEY VEIN**



SCALE OF FEET
 REPORT OF W. SPENCER HUTCHINSON BOSTON, MASS.
 MINING ENGINEER JANUARY 30, 1923.





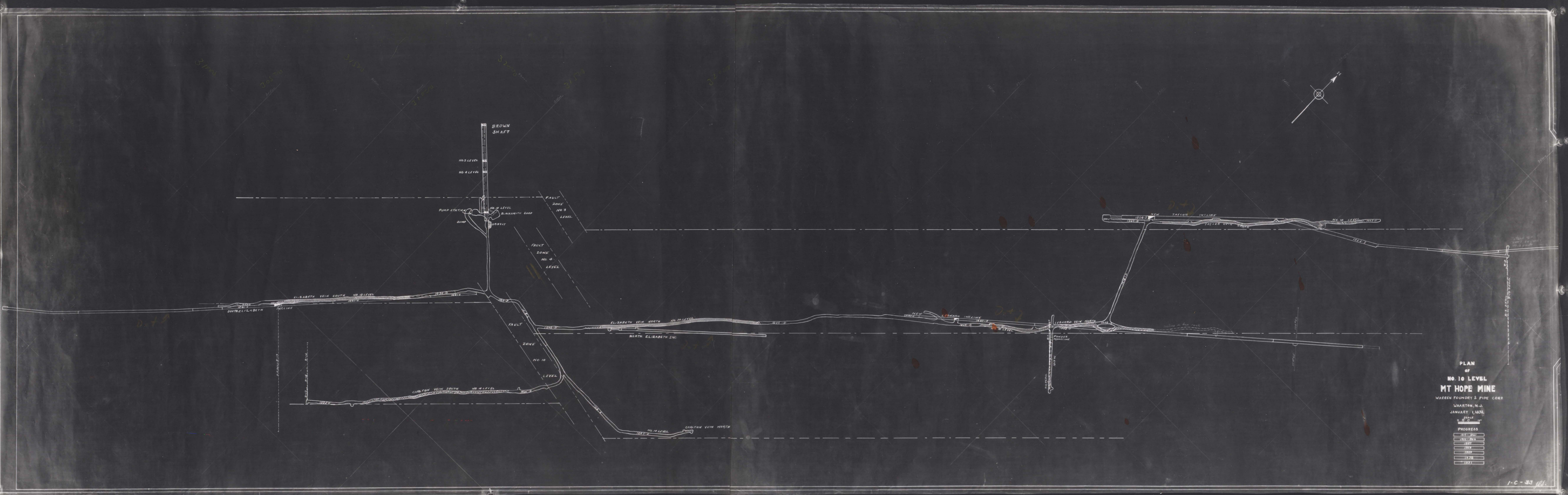
**MT. HOPE MINE
LONGITUDINAL PROJECTION
LEONARD, ELIZABETH, TEABO
AND MT. PLEASANT VEINS**



SCALE OF FEET

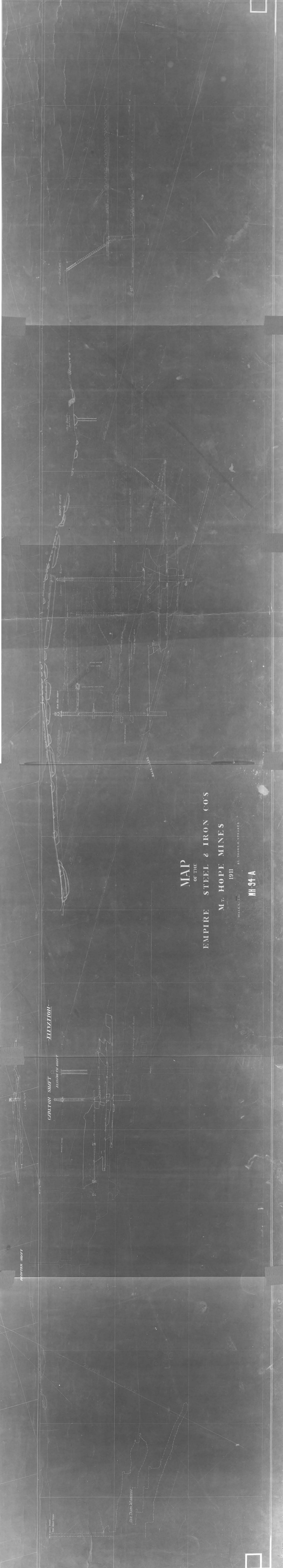
REPORT OF W. SPENCER HUTCHINSON
MINING ENGINEER

BOSTON, MASS.
JANUARY 30, 1923.



PLAN
 OF
NO. 10 LEVEL
MT HOPE MINE
 WARREN FOUNDRY & PIPE CORR
 WHARTON, N. J.
 JANUARY 1, 1931.
 SCALE
 1" = 60'

PROGRESS	
1927-1928	1928-1929
1929-1930	1930-1931
1931-1932	1932-1933
1933-1934	1934-1935
1935-1936	1936-1937
1937-1938	1938-1939
1939-1940	1940-1941



MAP

OF THE

EMPIRE STEEL & IRON CO'S

M. T. HOPE MINES

1911

BY TOOKER, G. STRAKER.

SCALE 1" = 50'

MH-94-A

ELEVATOR

CARLTON SHAFT

LAPRIN SHAFT

Old Mine

WINTER SHAFT

POWDERHOUSE

OLD SHAFT

WINTER SHAFT

OLD SHAFT

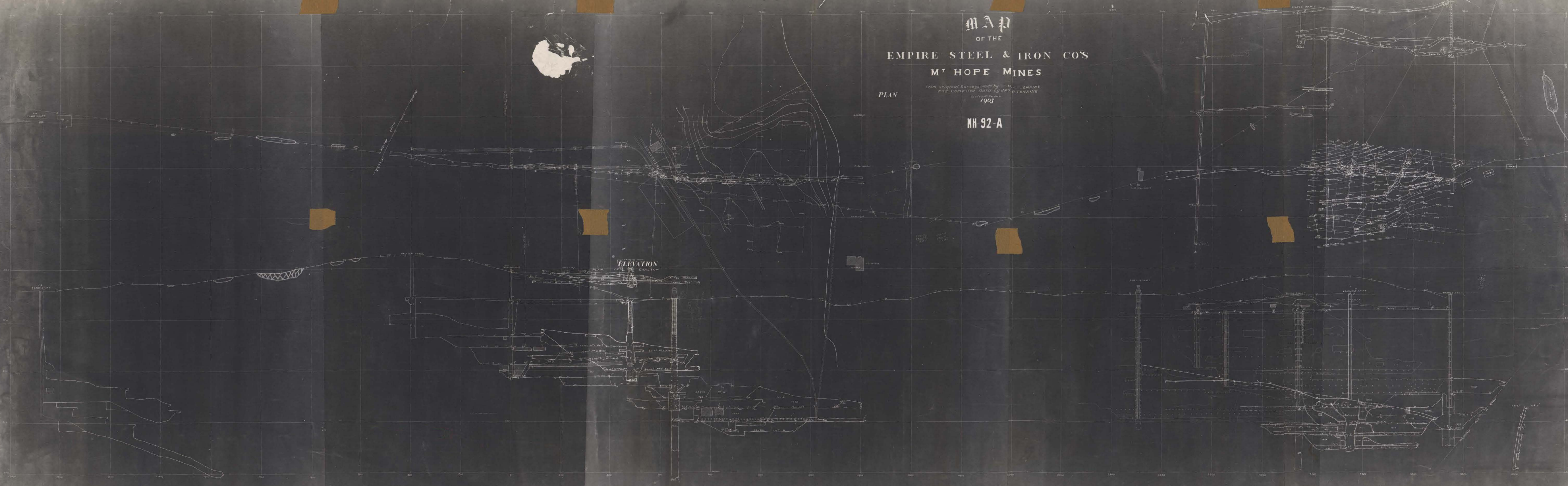
BASE LINE

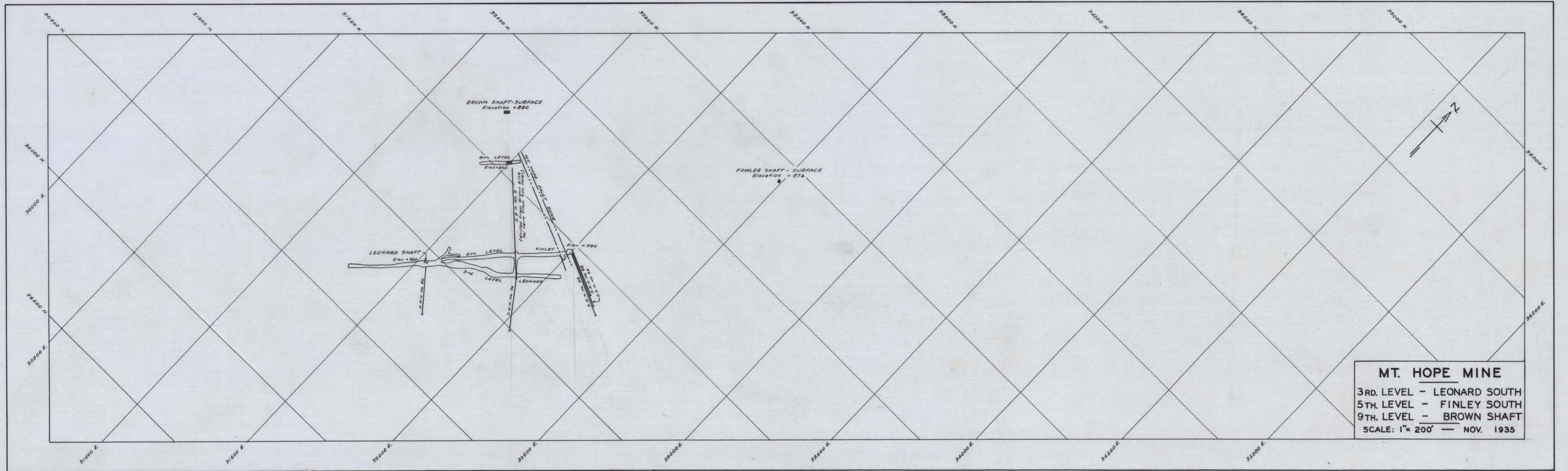
MAP
OF THE
EMPIRE STEEL & IRON CO'S
M^T HOPE MINES

PLAN

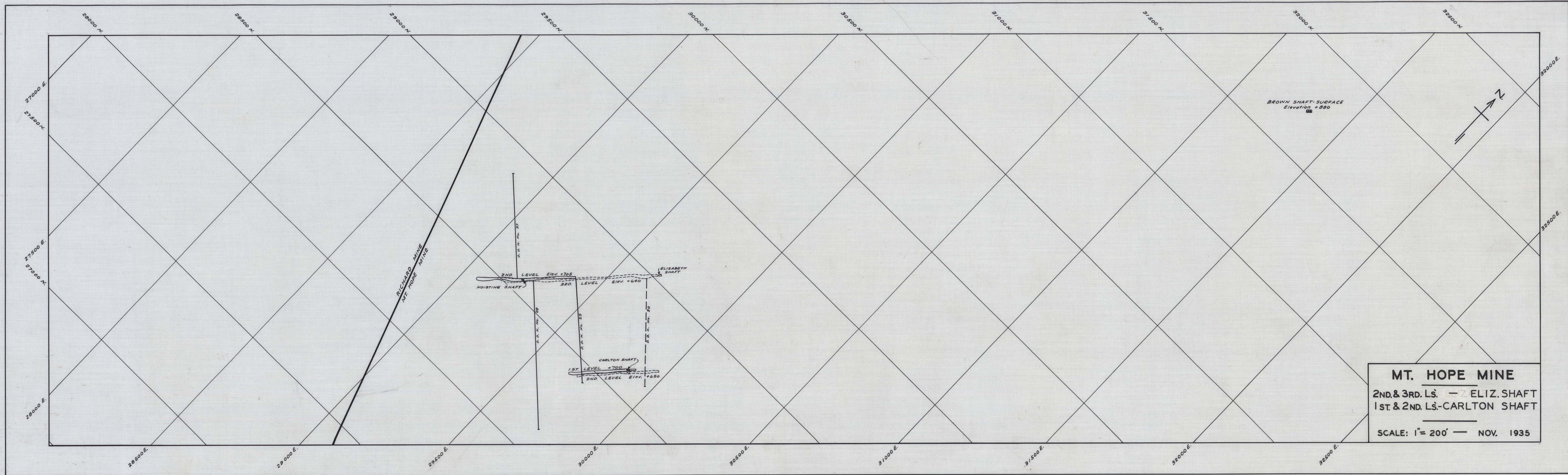
From original surveys made by J. J. JENKINS
and compiled data by JAS. B. TONKING
Scale 1 inch = 100 feet
1903

MH-92-A

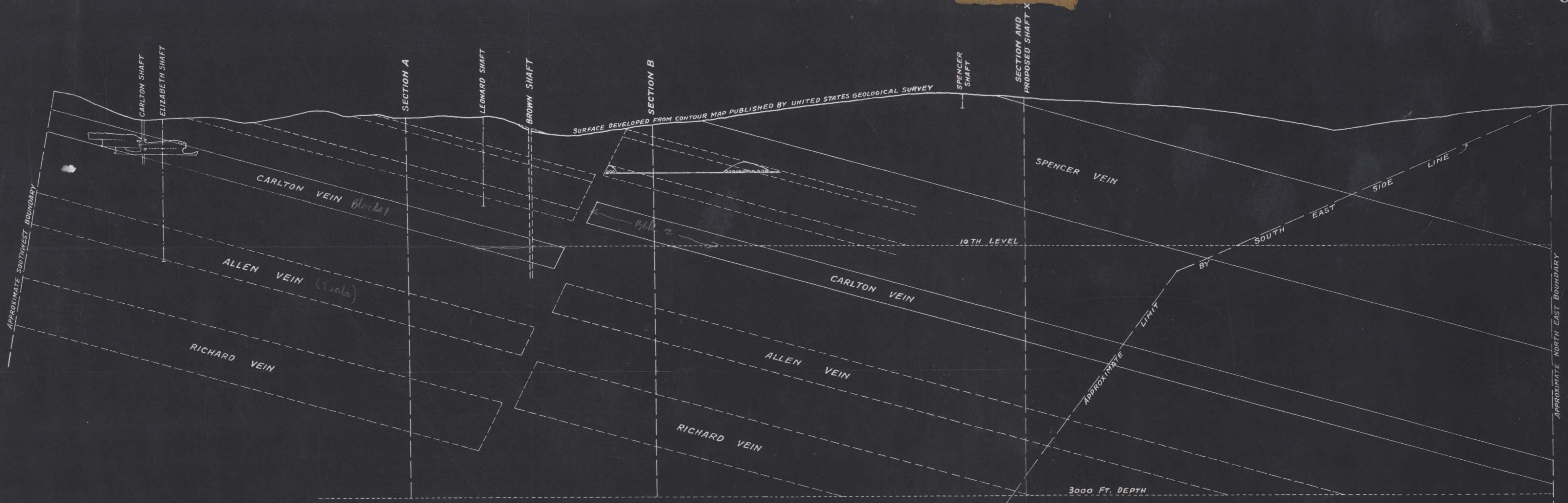




⑥
 PLATE 18



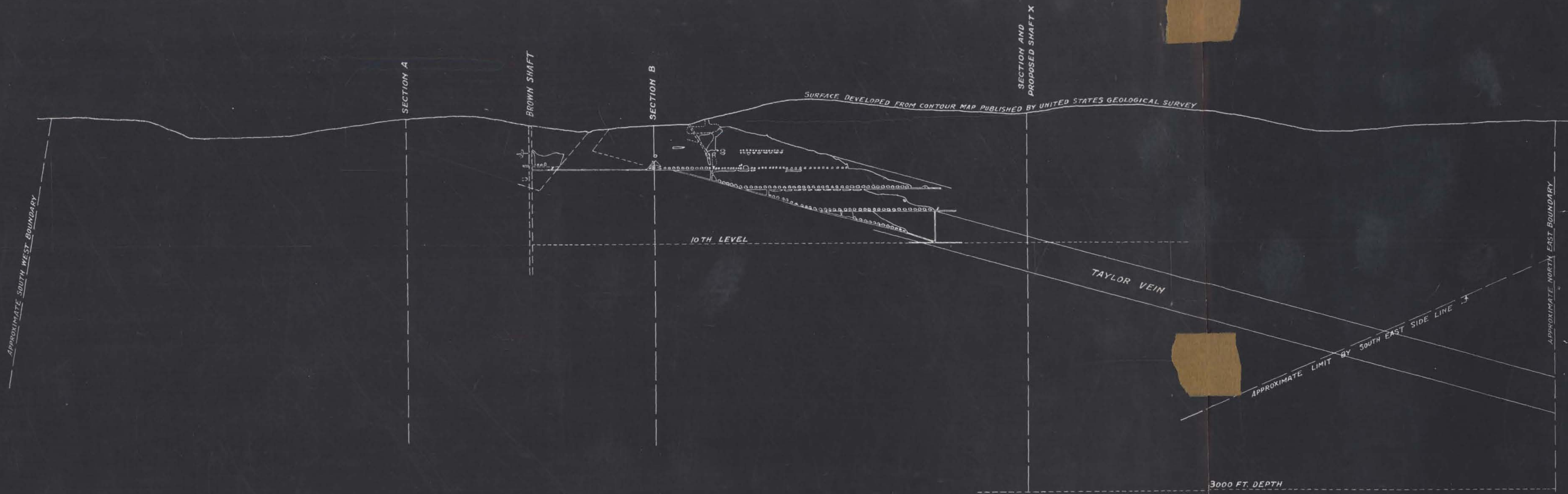
MT. HOPE MINE
 2ND. & 3RD. L.S. — ELIZ. SHAFT
 1ST. & 2ND. L.S. — CARLTON SHAFT
 SCALE: 1" = 200' — NOV. 1935



**MT. HOPE MINE
LONGITUDINAL PROJECTION
SPENCER, CARLTON, ALLEN
AND RICHARD VEINS**



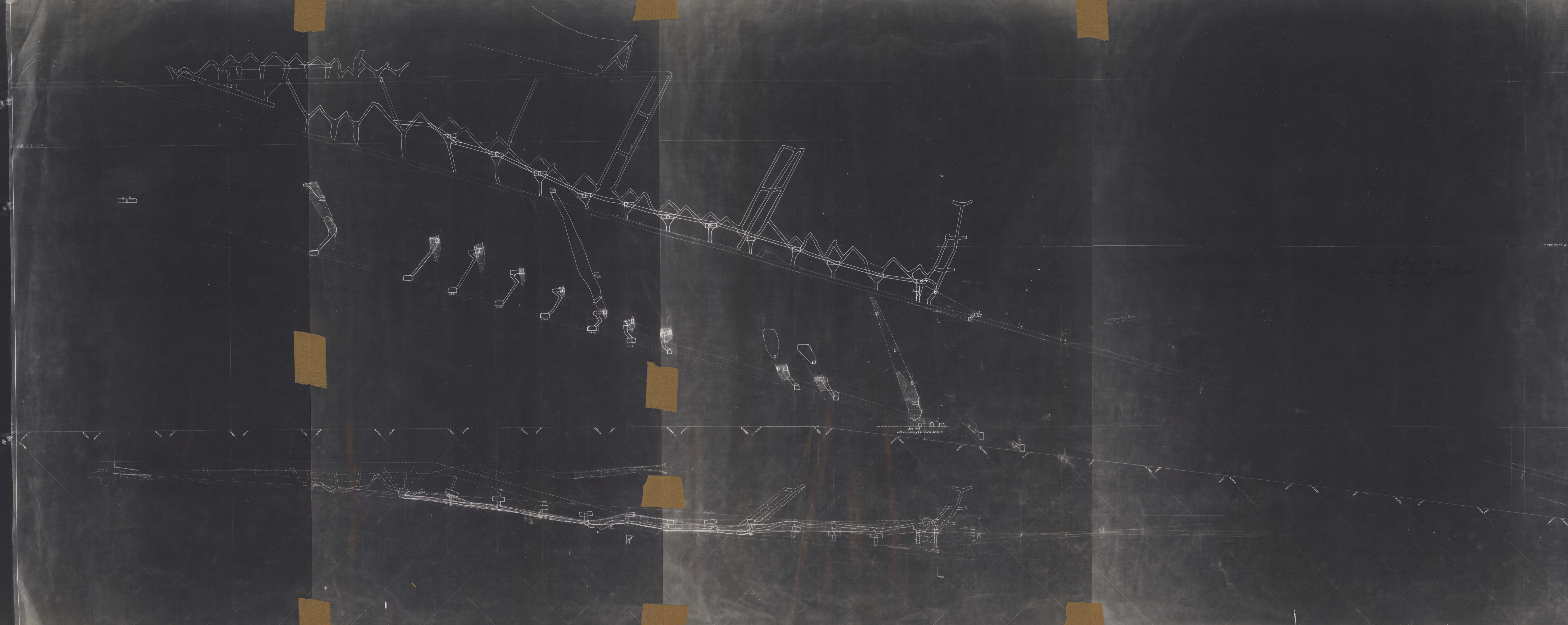
SCALE OF FEET
REPORT OF W. SPENCER HUTCHINSON
MINING ENGINEER
BOSTON, MASS.
JANUARY 30, 1923.



**MT. HOPE MINE
LONGITUDINAL PROJECTION
TAYLOR VEIN**

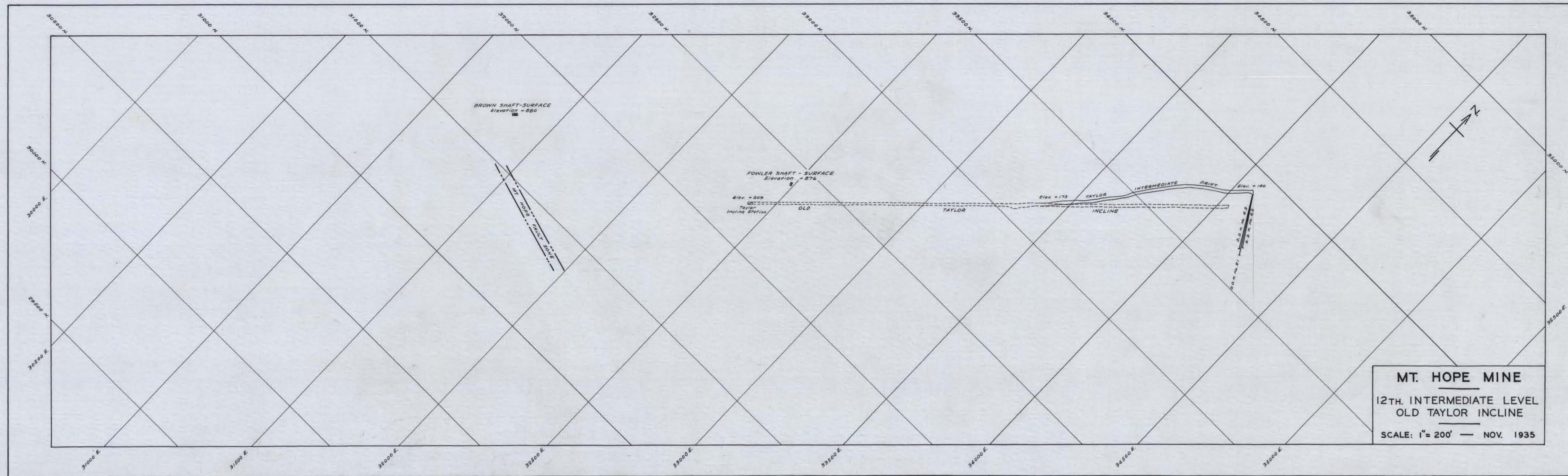


SCALE OF FEET
 REPORT OF W. SPENCER HUTCHINSON
 MINING ENGINEER
 BOSTON, MASS.
 JANUARY 30, 1923.



*The map shows
A Taylor Hill Station with level
Sept. 1941*

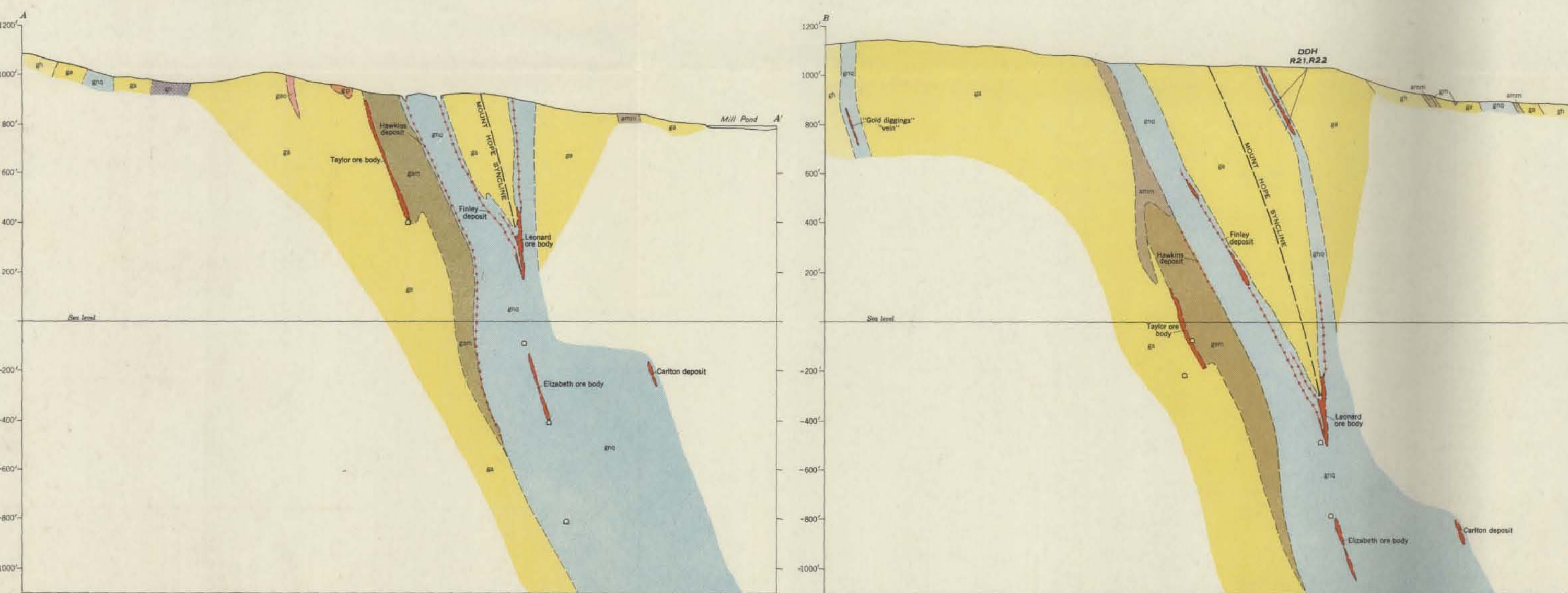
*See #4
with position of 1st and 2nd set of tracks*



5



PRE-CAMBRIAN



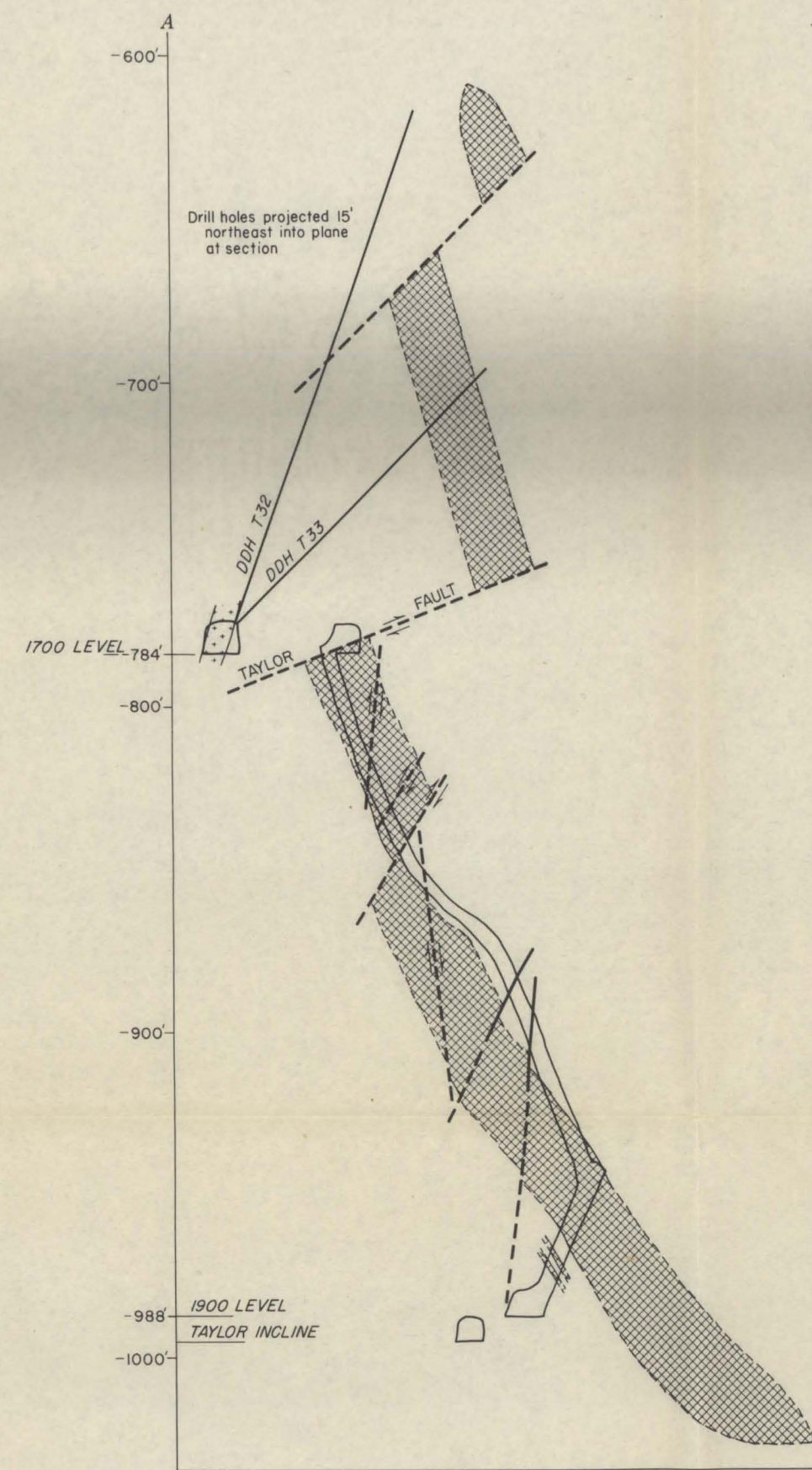
GEOLOGIC MAP AND SECTIONS OF PART OF MOUNT HOPE MINE, MORRIS COUNTY, NEW JERSEY

Contour interval 20 feet
Datum is mean sea level

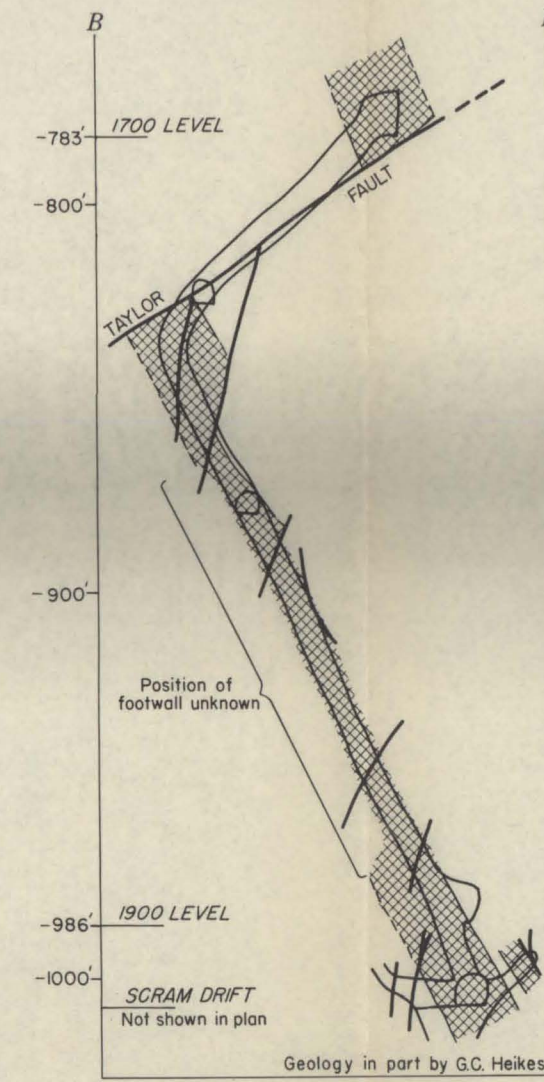
Coordinate system of Warren Foundry and Pipe Corp.

INTERIOR GEOLOGICAL SURVEY WASHINGTON, D. C. 20515
Geology by P. K. Sims, 1948
Topography by L. Pavlides, June 1948

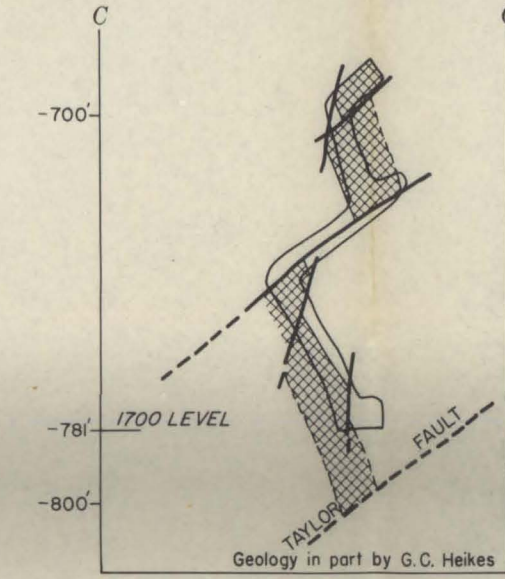
- EXPLANATION**
- Alaskite
 - Amphibolite
 - Magnetite ore
 - PRE-CAMBRIAN
 - Contact, showing dip; dashed where approximately located
 - Fault, showing dip; dashed where approximately located
 - Fault, showing bearing and plunge of slickenside. U, upthrown side, D, downthrown side
 - Fault, showing relative movement
 - Strike and dip of foliation
 - Strike of vertical foliation
 - Strike of vertical foliation and plunge of lineation
 - Bearing and plunge of lineation
 - Strike and dip of foliation and plunge of lineation
 - Strike and dip of joints
 - DDH T33 + 45°
 - Horizontal projection of Warren Foundry and Pipe Corporation diamond-drill hole
 - Raise, chevrons point down
 - Head of raise
 - Raise extending through level
 - 780
 - Elevation of floor



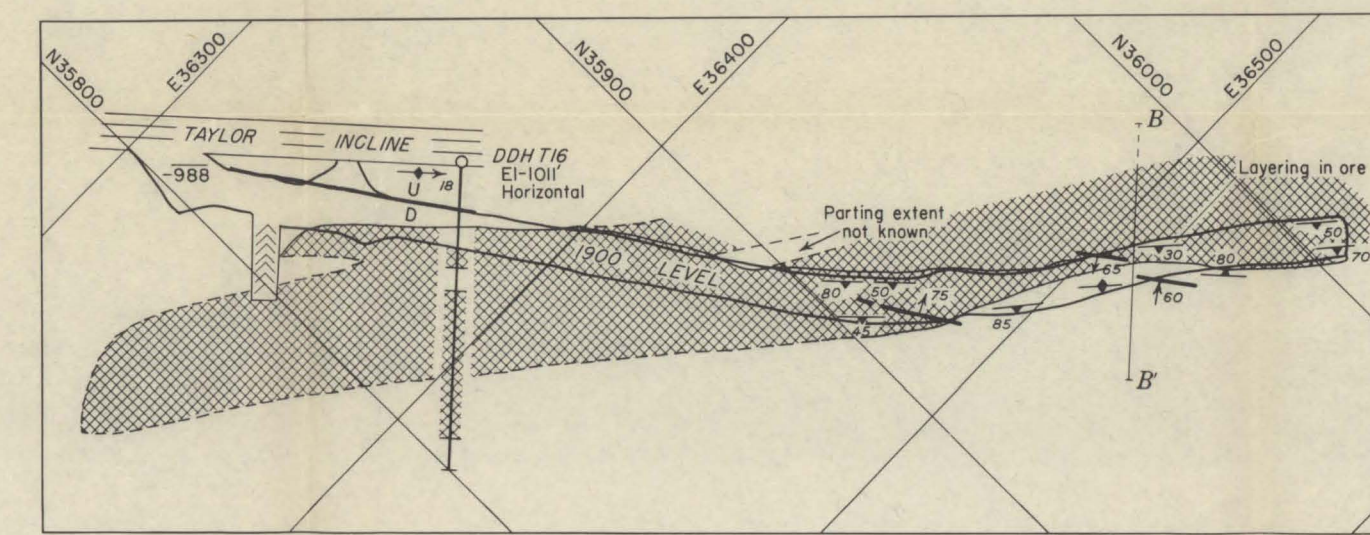
SECTION THROUGH 25 MANWAY RAISE



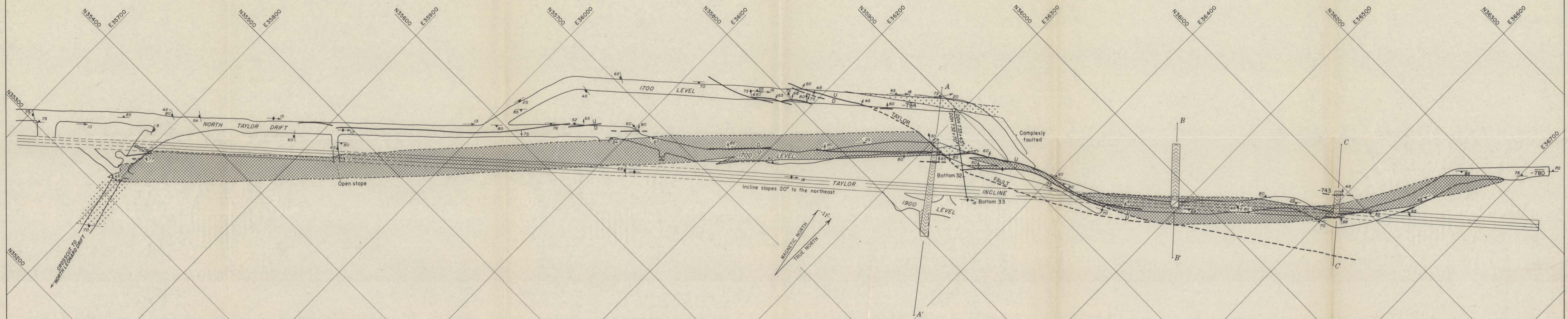
SECTION THROUGH 26 MANWAY RAISE



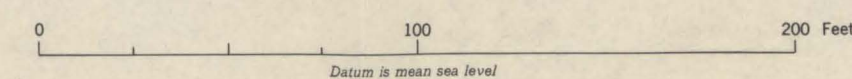
SECTION THROUGH RAISE



PLAN OF 1900 LEVEL

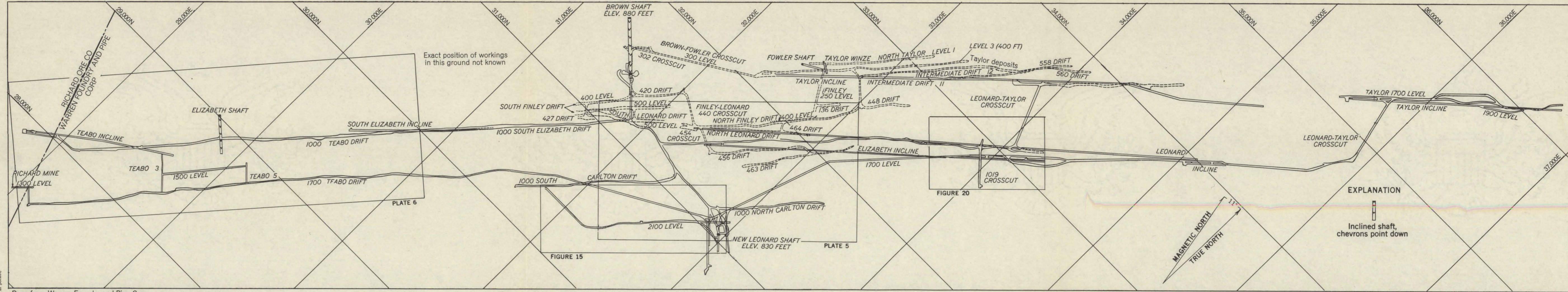


PLAN AND SECTIONS OF THE TAYLOR ORE BODY, 1700 AND 1900 LEVELS. MOUNT HOPE MINE, MORRIS COUNTY, NEW JERSEY



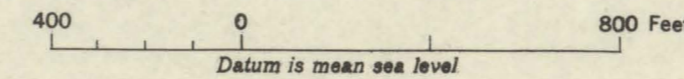
Base map and coordinates by Warren Foundry and Pipe Corp.

Geology by P. K. Sims, 1947 and 1949



Base from Warren Foundry and Pipe Corp.

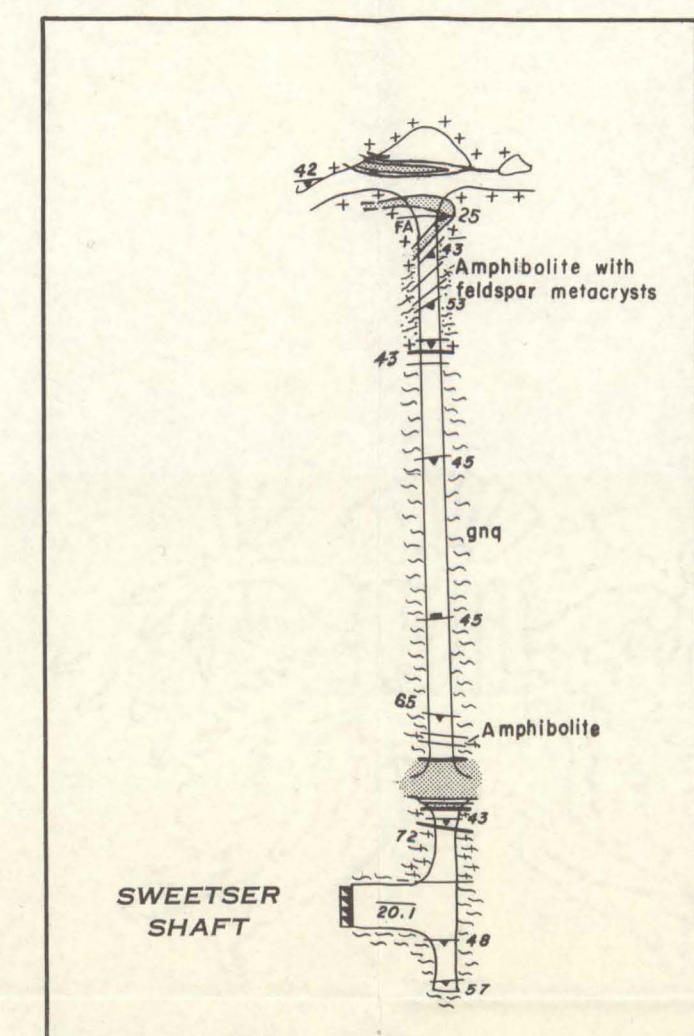
MAP SHOWING THE PRINCIPAL WORKINGS AT MOUNT HOPE MINE, MORRIS COUNTY, NEW JERSEY



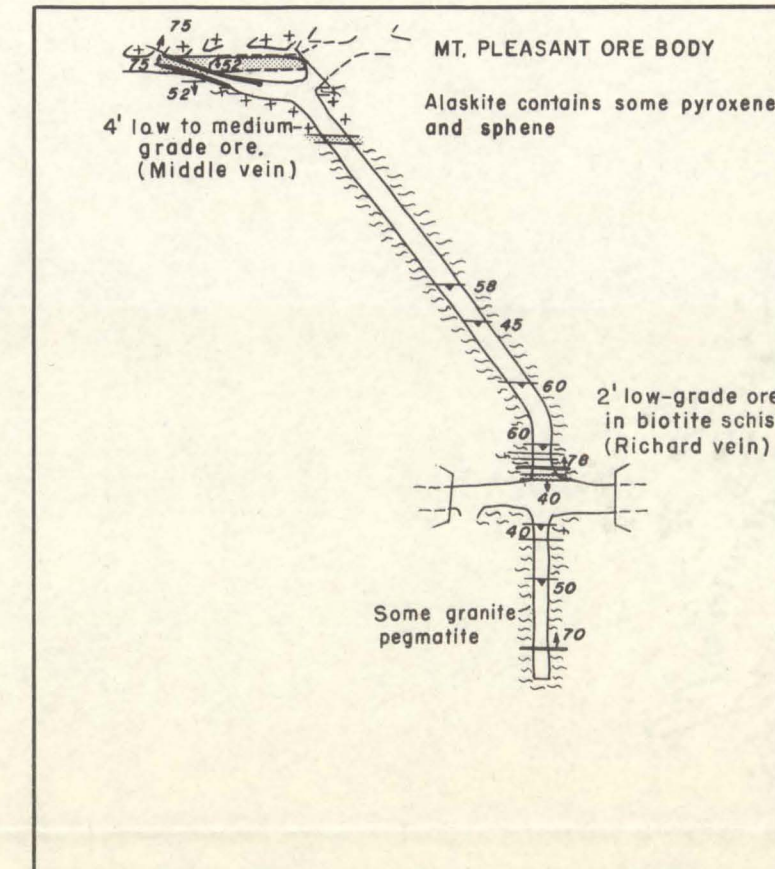
409159 O - 58 (in pocket)

EXPLANATION

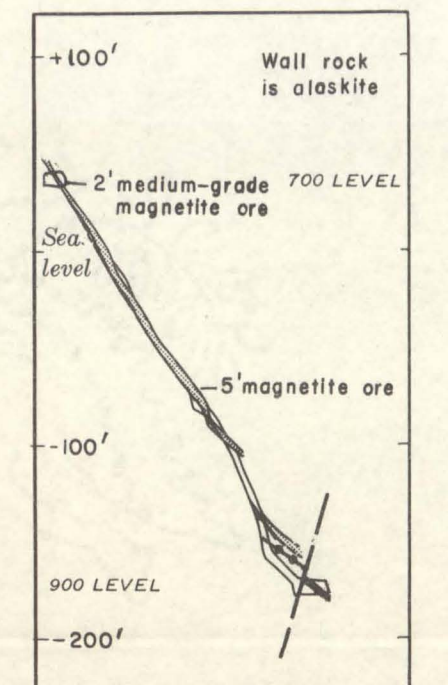
- Alaskite
Locally contains some pyroxene and sphene
- Hornblende skarn
- Oligoclase-quartz-biotite gneiss
- Amphibolite
Locally contains metacrysts of oligoclase
- Pyroxene gneiss
Includes magnetite, amphibolite, contains moderate sphene
- Contact, showing dip
Dashed where approximately located
- Fault, showing dip
Dashed where approximately located; U, upthrown side; D, downthrown side
- Fault, showing dip and bearing and plunge of striations
Dashed where approximately located
- Fault, showing relative movement
- Anticline
- Plunge of fold axis
- Strike and dip of foliation
- Strike and dip of foliation and plunge of lineation
- Vertical foliation
- Strike and dip of joints
- Magnetite deposit
- Raise
Chevrons point down
- Foot of raise
- Head of raise
- Incline
- Inaccessible workings
- Elevation of floor



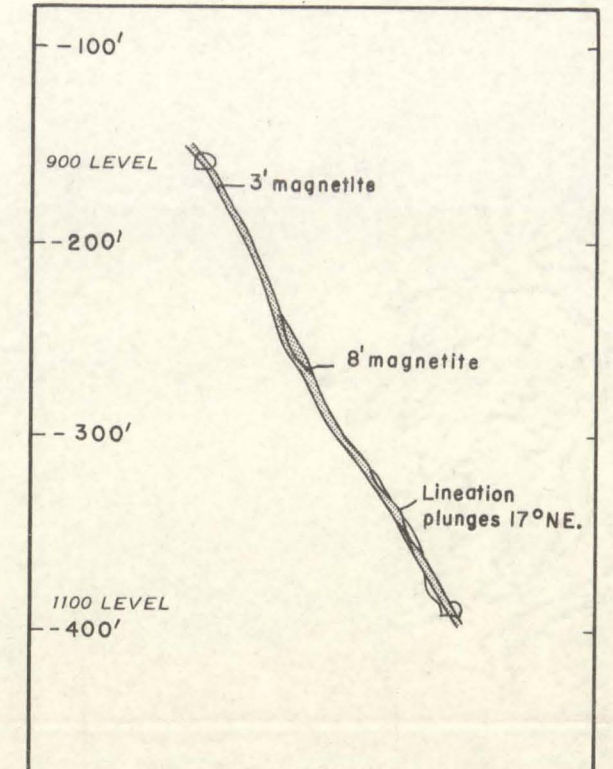
GEOLOGIC MAP OF CROSSCUT ON THE 700 LEVEL



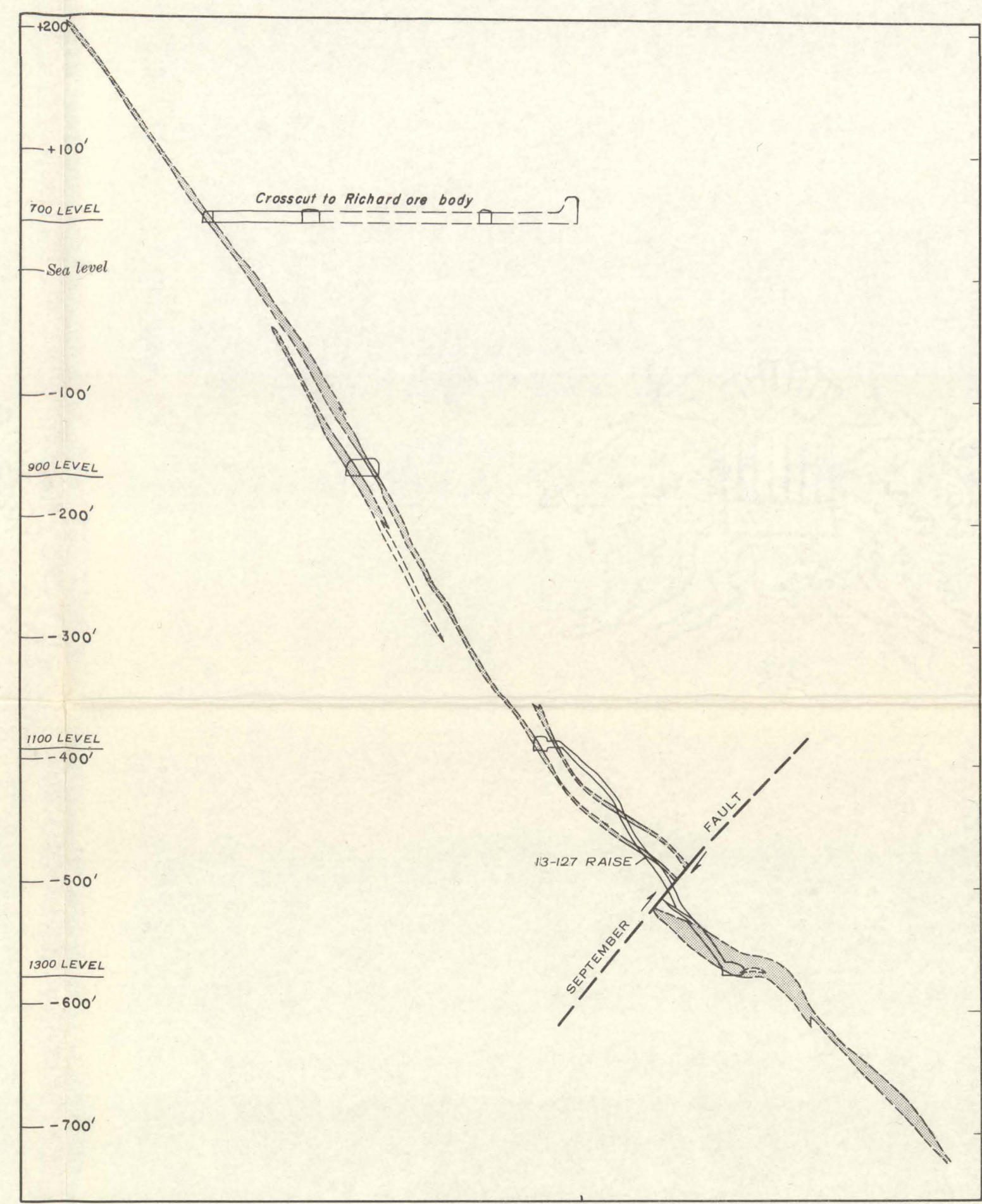
GEOLOGIC MAP OF CROSSCUT 2 ON THE 700 LEVEL



SECTION A-A'

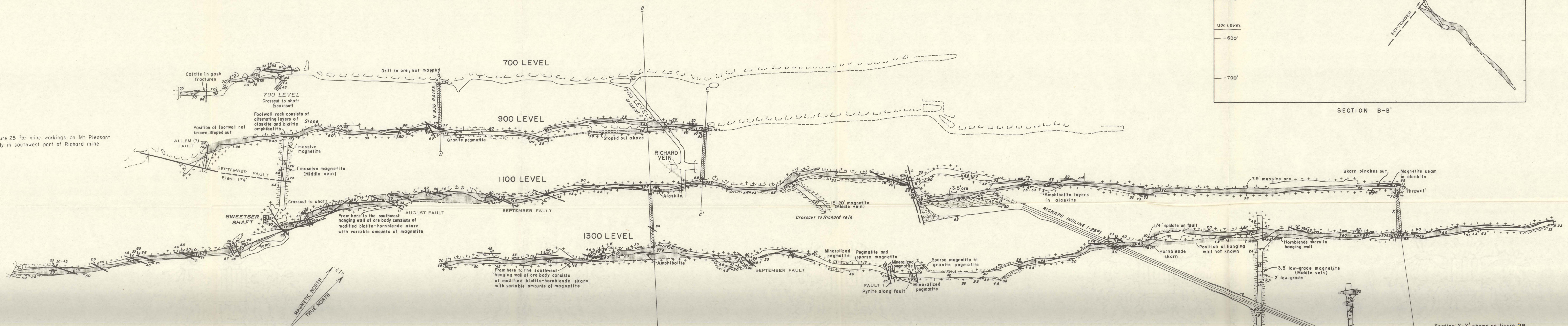


SECTION C-C'

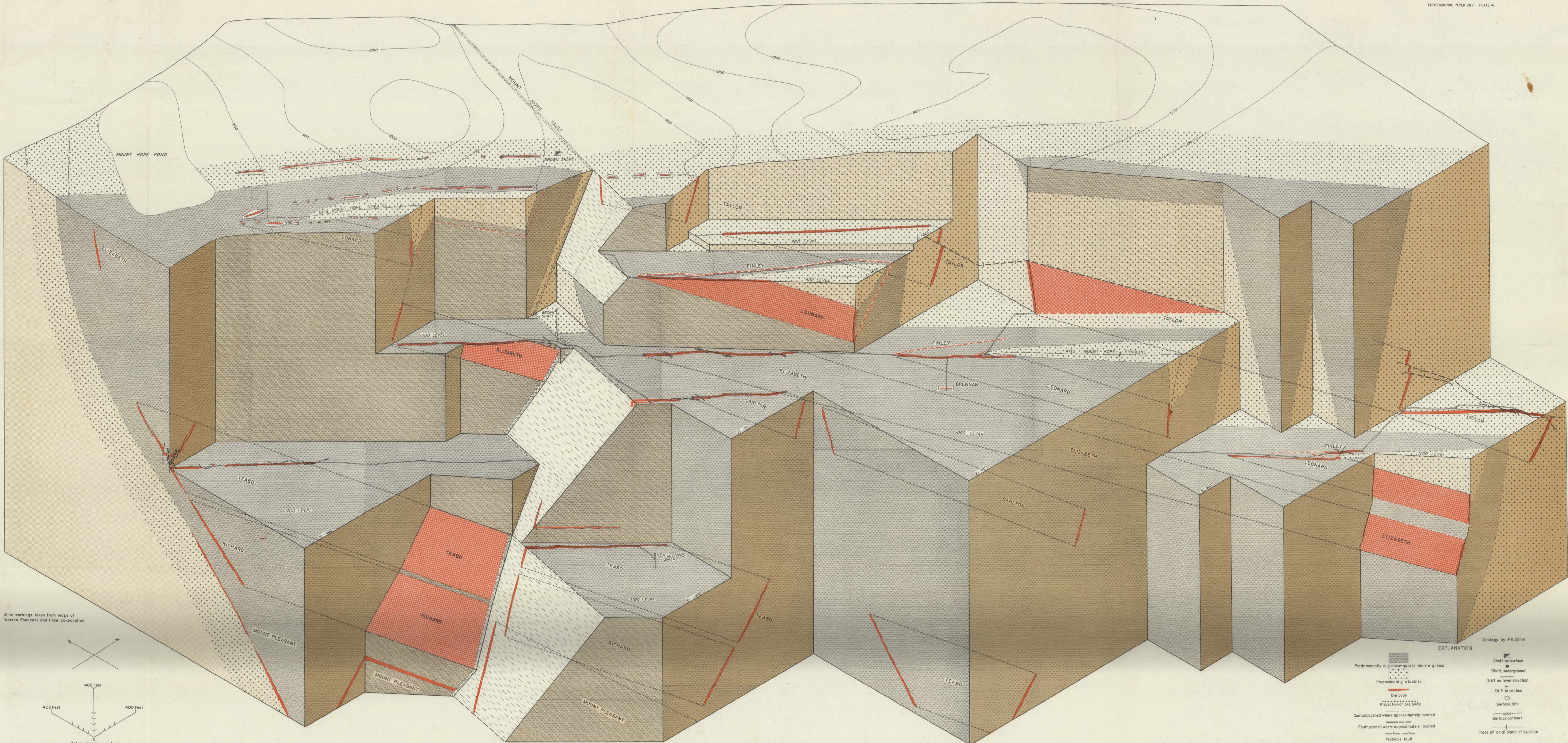


SECTION B-B'

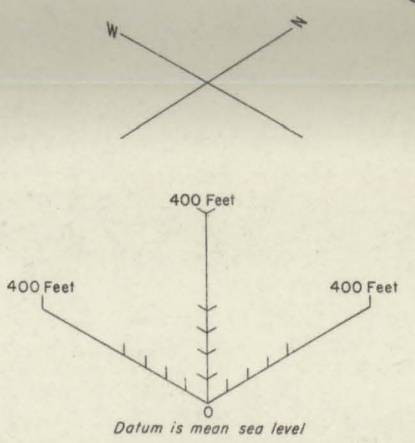
See figure 25 for mine workings on Mt. Pleasant ore body in southwest part of Richard mine



Section X-X' shown on figure 28



Mine workings taken from maps of
Warren Foundry and Pipe Corporation

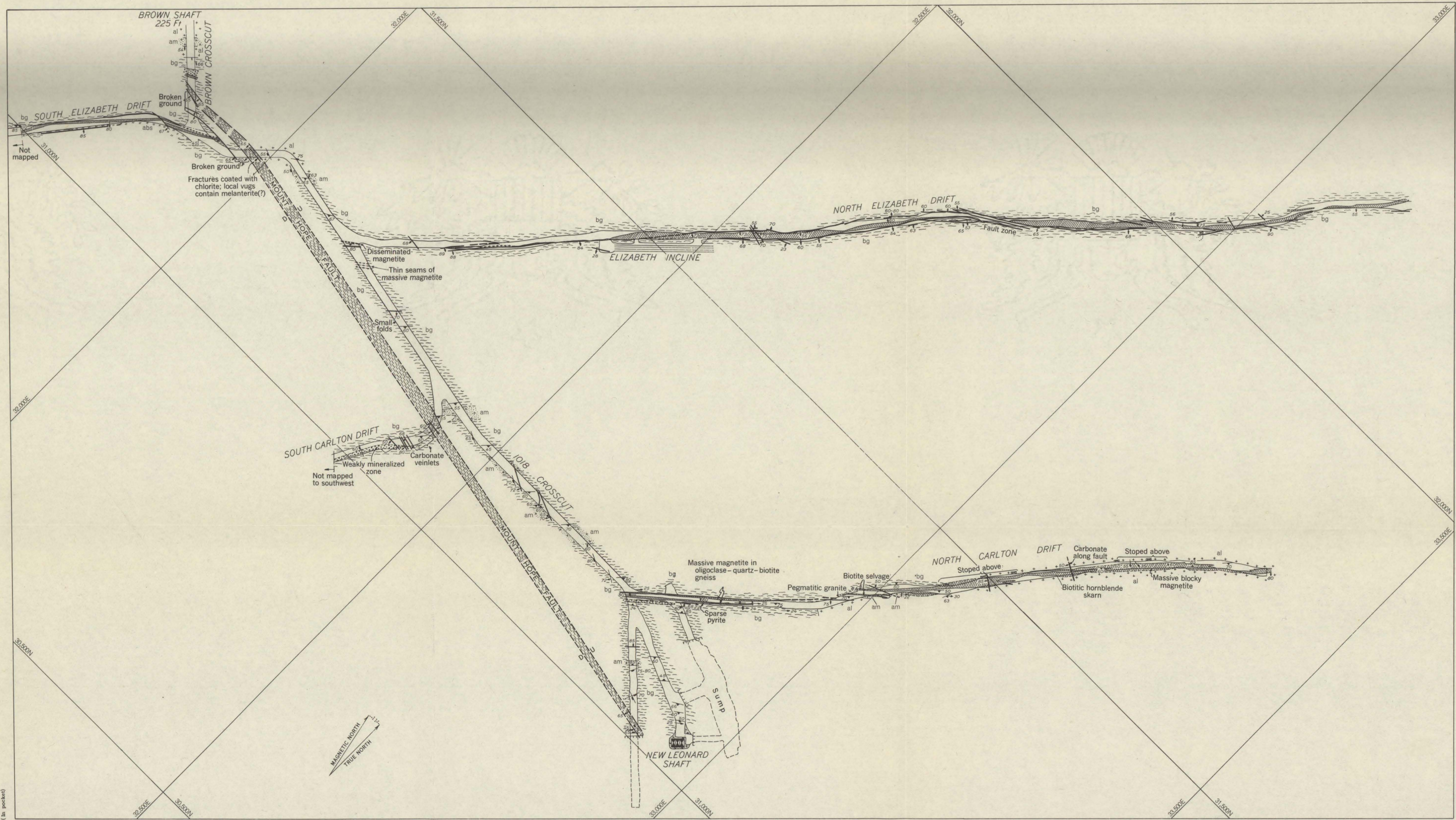


ISOMETRIC BLOCK DIAGRAM OF PART OF MOUNT HOPE MINE, MORRIS COUNTY, NEW JERSEY

EXPLANATION

	Predominantly algalose-quartz-biotite gneiss		Shaft on surface
	Predominantly alkali feldspar gneiss		Shaft underground
	Drift on level elevation		Drift in section
	Ore body		Surface pits
	Contact, dashed where approximately located		Surface contours
	Fault, dashed where approximately located		Trace of axial plane of syncline
	Probable fault		

Geology by P.K. Sims



EXPLANATION

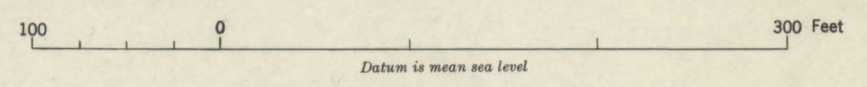
	Alaskite and local microantiperthite granite
	Oligoclase-quartz-biotite gneiss
	Amphibolite
	Biotitic amphibolite and biotite schist
	Contact, showing dip Dashed where approximately located
	Fault, showing dip, and bearing and plunge of slickensides
	High-angle fault, showing dip Dashed where approximately located; U, upthrown side; D, downthrown side
	Plunge of minor folds and crenulations
	Strike and dip of foliation
	Strike of vertical foliation
	Strike and dip of foliation and plunge of lineation
	Vertical foliation showing plunge of lineation
	Bearing and plunge of lineation
	Strike and dip of joints
	Magnetite deposit
	Disseminated magnetite
	Vertical shaft
	Incline
	Foot of raise
	Head of raise
	Inaccessible workings

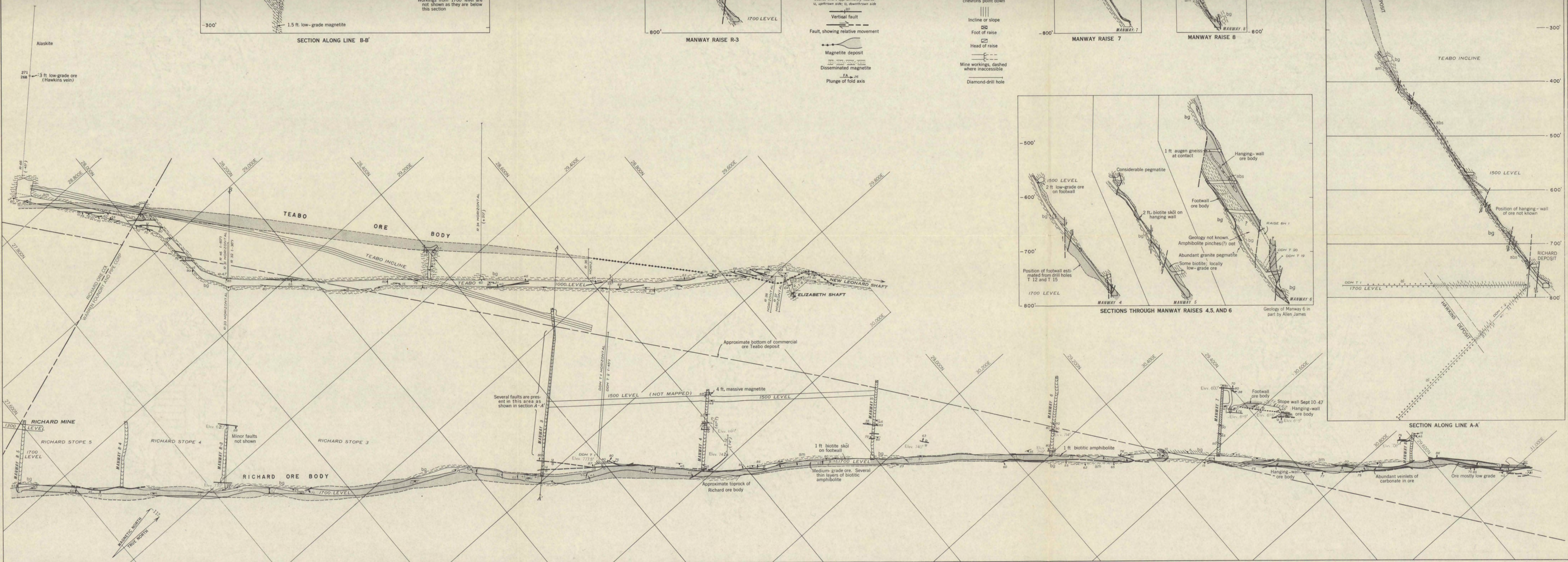
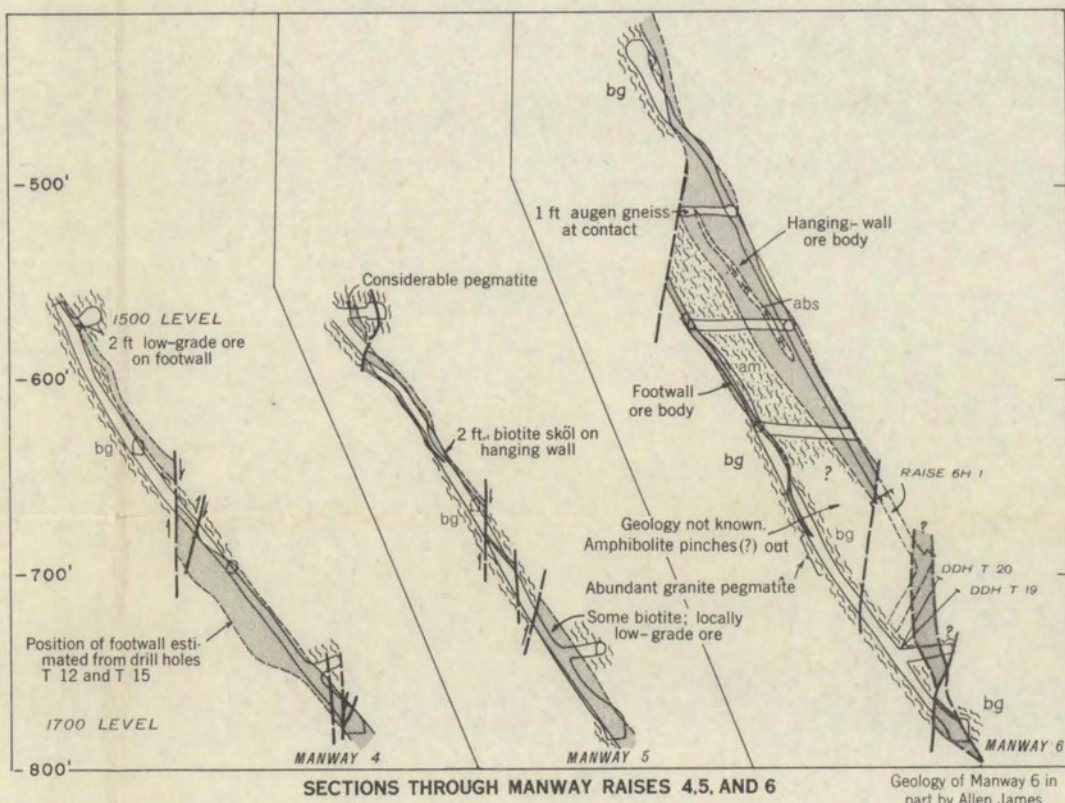
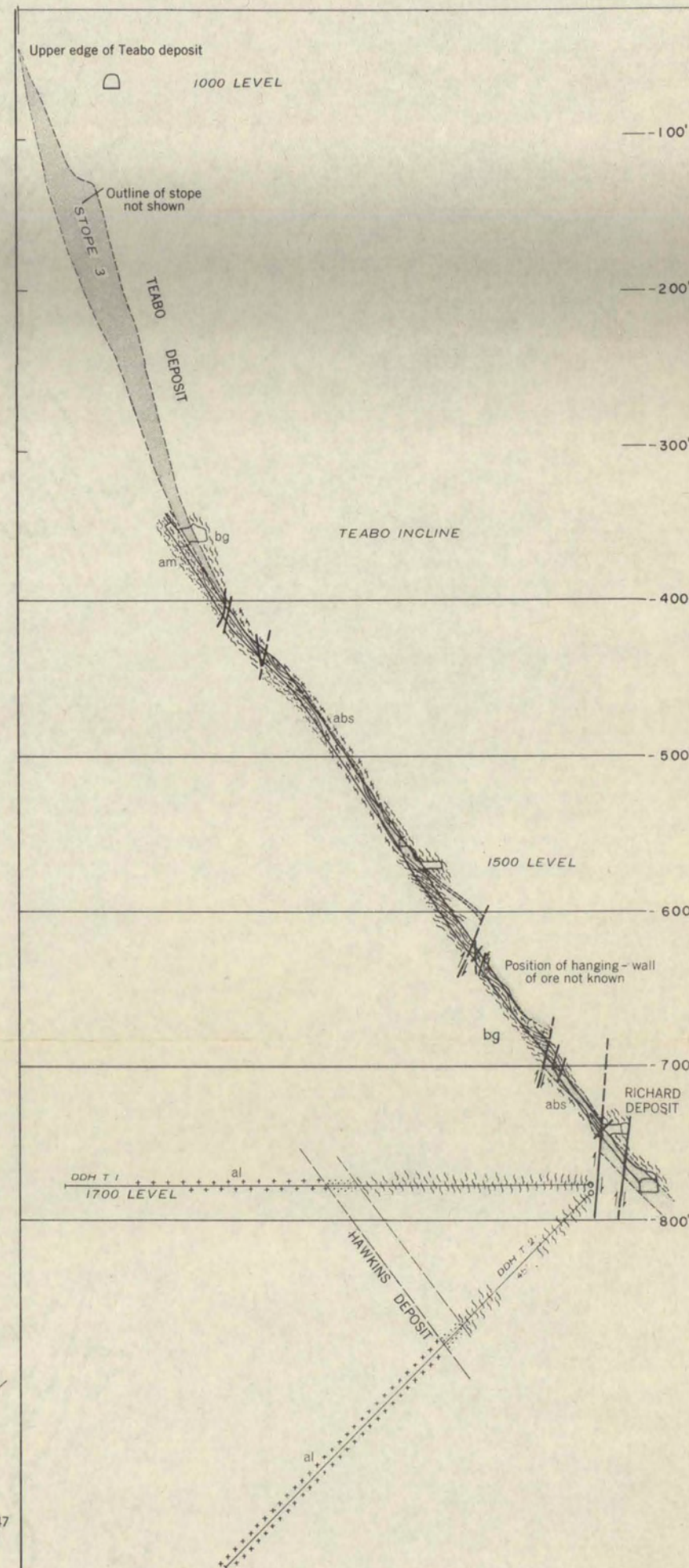
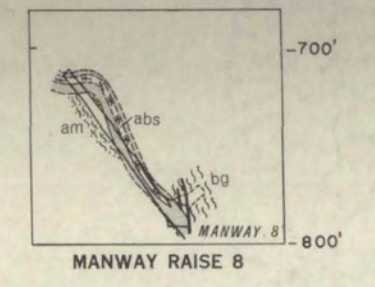
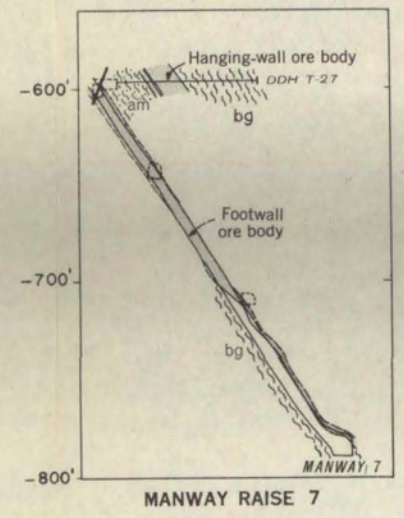
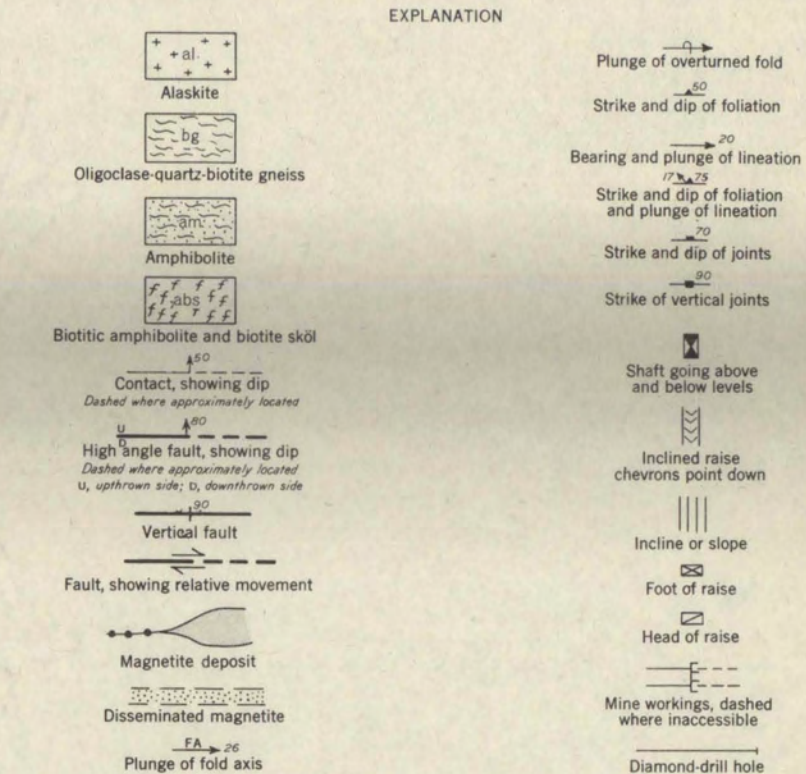
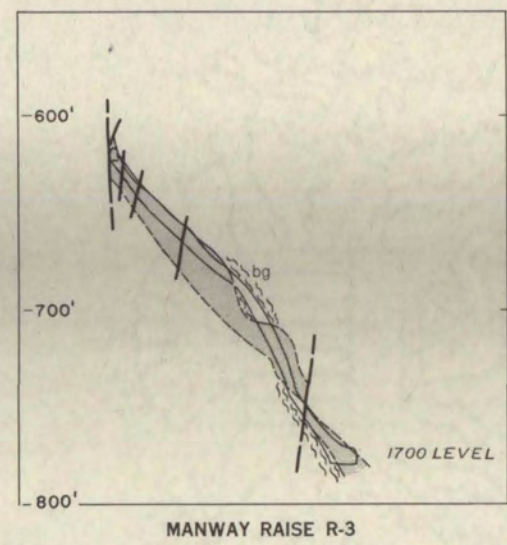
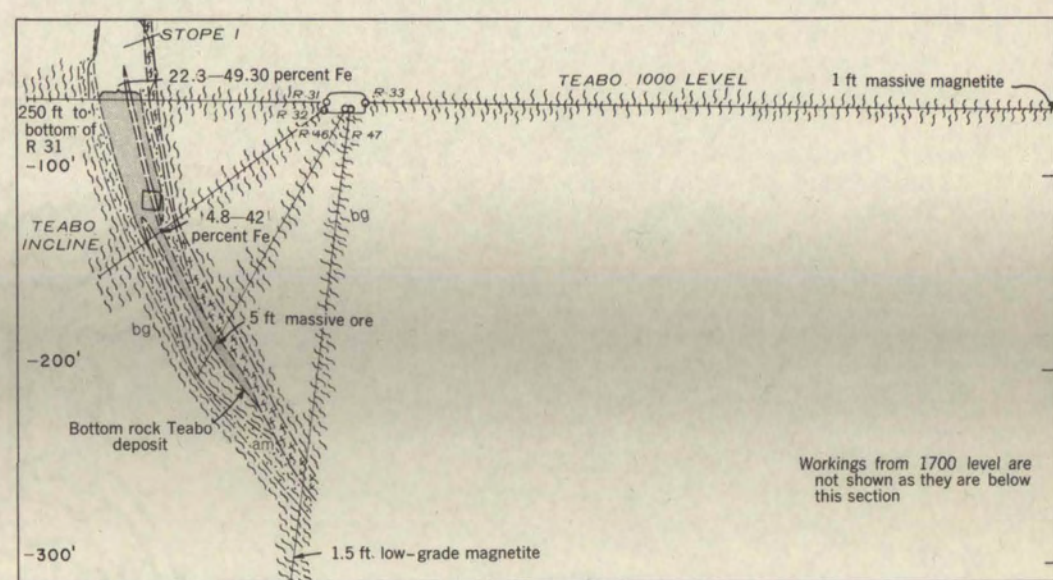
469159 O-58 (in pocket)

Base from Warren Foundry and Pipe Corp.

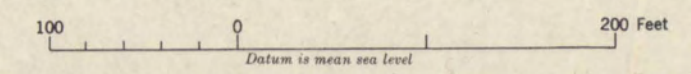
GEOLOGIC MAP OF THE ELIZABETH AND CARLTON MAGNETITE DEPOSITS, 1000 LEVEL MOUNT HOPE MINE, MORRIS COUNTY, NEW JERSEY

Geology by P. K. Sims and Allan James, 1948-50





GEOLOGIC MAP AND SECTIONS OF THE TEABO AND RICHARD ORE BODIES, 1000 AND 1700 LEVELS, MOUNT HOPE MINE, MORRIS COUNTY, NEW JERSEY



McKays Map
Surface Map
Scale - 1/2 in. = 1 mi.

TAYLOR

FINLEY

LEONARD

PLAN OF BURNHAM ORCHARD

PAINTER

CARLTON

SWAMPY SHOALS
MAY SHOALS

BRUNHAM ORCHARD

PAINTER SWAMP

