



State of New Jersey
Department of Environmental Protection
Geological Survey

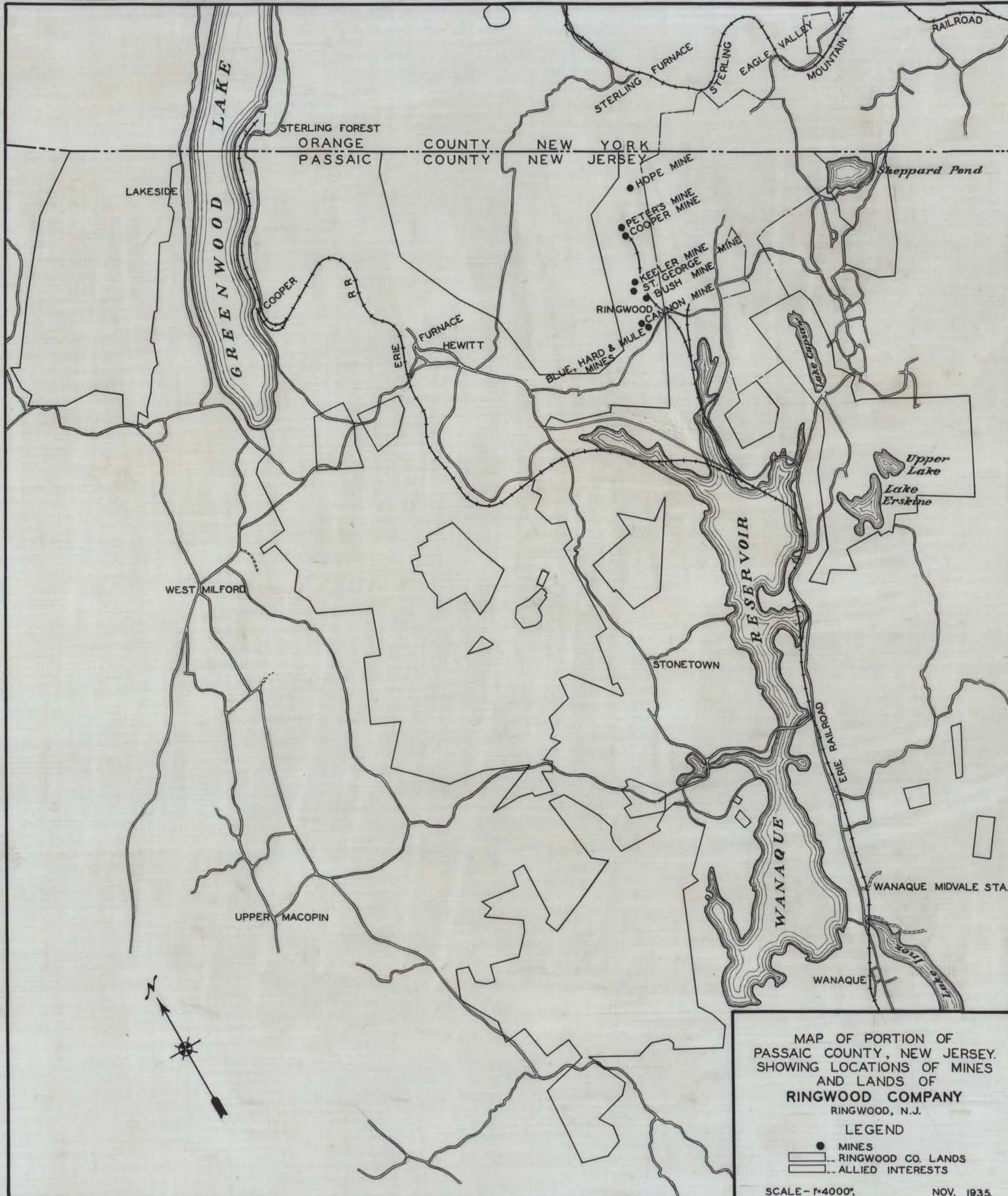


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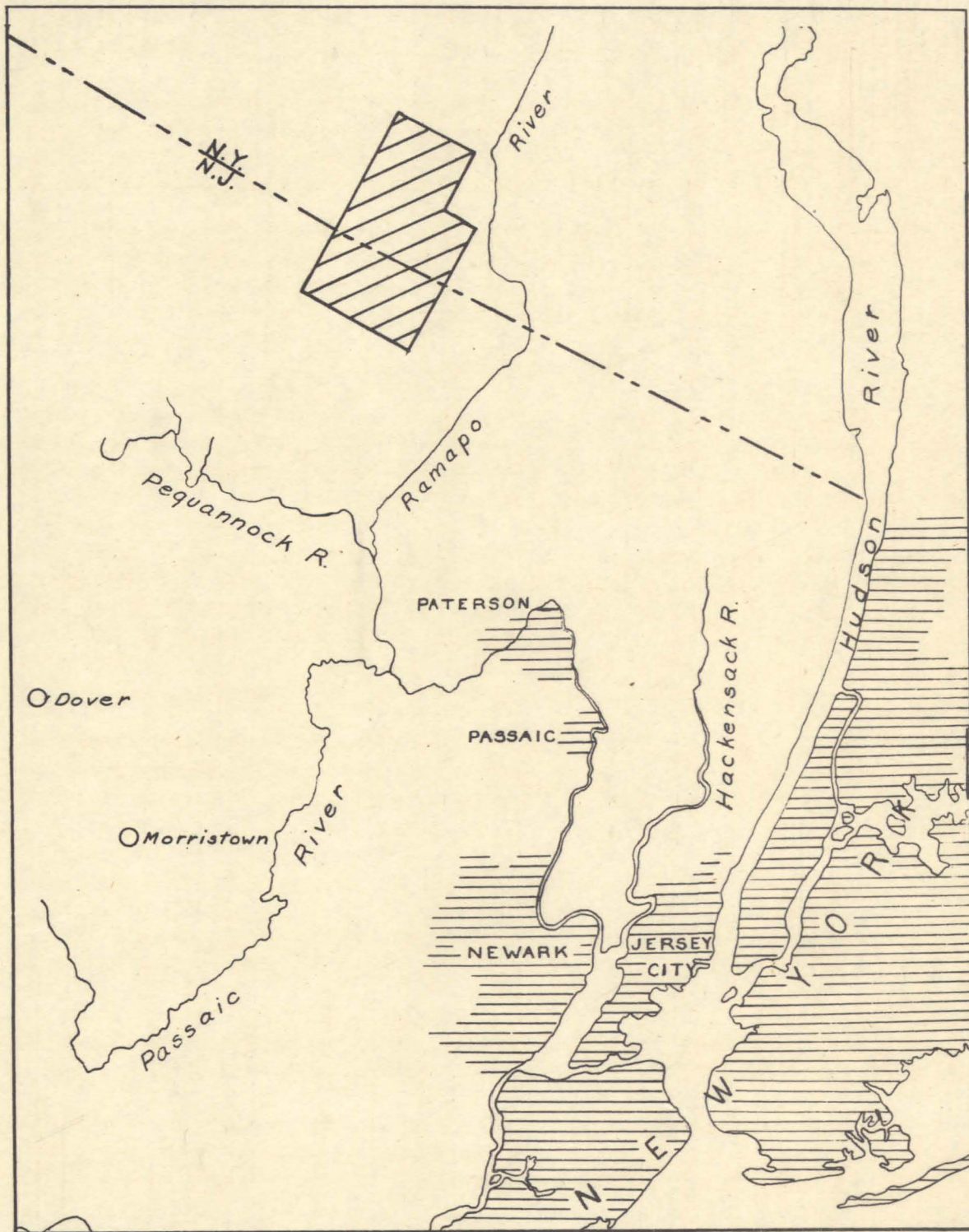


MAP OF PORTION OF
PASSAIC COUNTY, NEW JERSEY.
SHOWING LOCATIONS OF MINES
AND LANDS OF
RINGWOOD COMPANY
RINGWOOD, N.J.

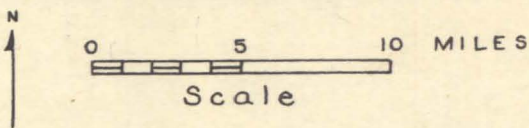
LEGEND

- MINES
- ▭ RINGWOOD CO. LANDS
- ▨ ALLIED INTERESTS

SCALE - 1"=4000'. NOV. 1935.



110819



Index map showing the location of the Sterling-Ringwood magnetite district, New York and New Jersey.

MAP OF
CANNON, NEWLONDON,
HARD, BLUE, MULE,
AND OTHER MINES
AT
PINGWOOD, N.J.

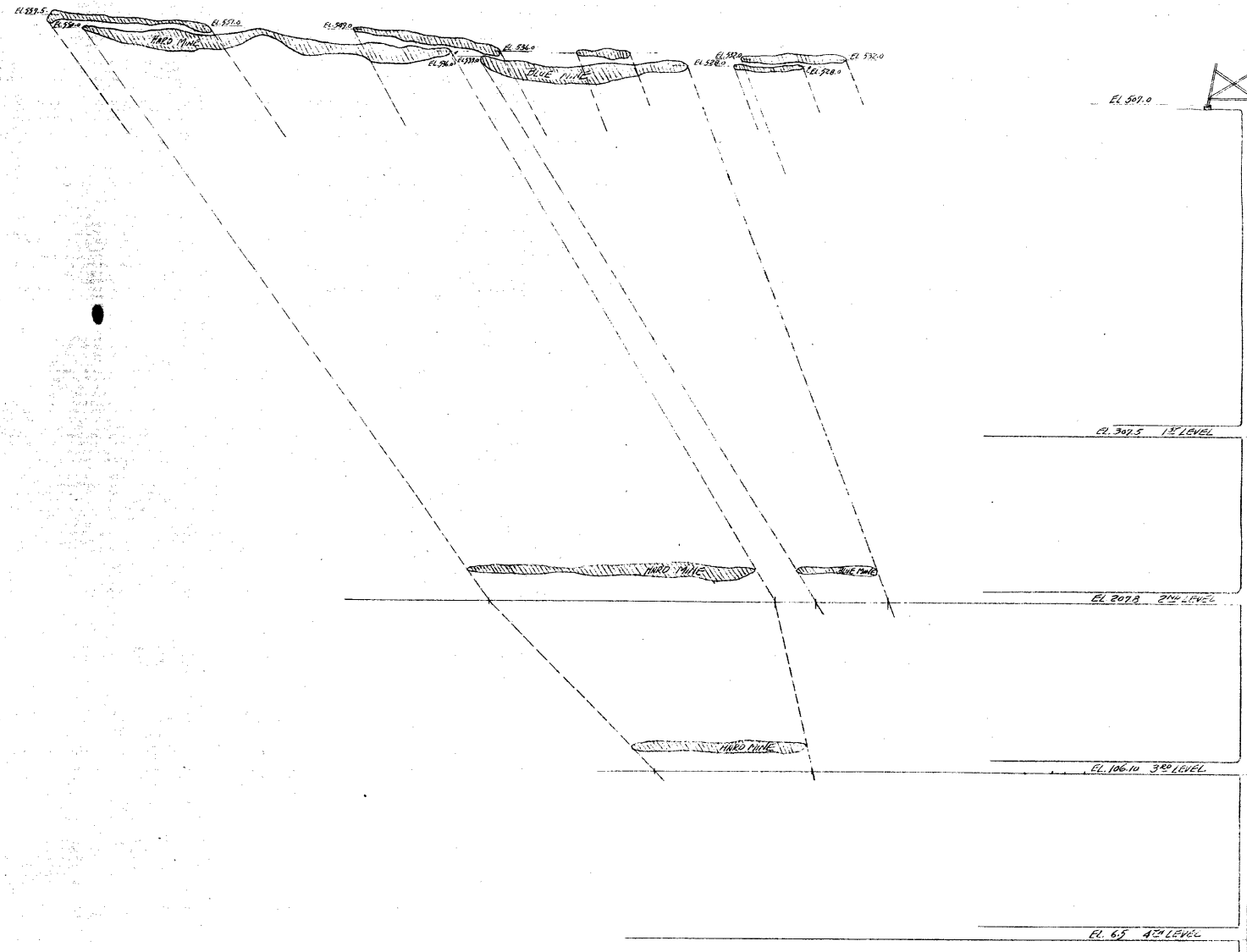
FEB. 1916 SCALE 400' 1"=60'



AR

102

MATERIAL LIST				
ITEM	NO.	SIZE	MAT.	DESCRIPTION
	NO.00	OR WGT	ERIAL	

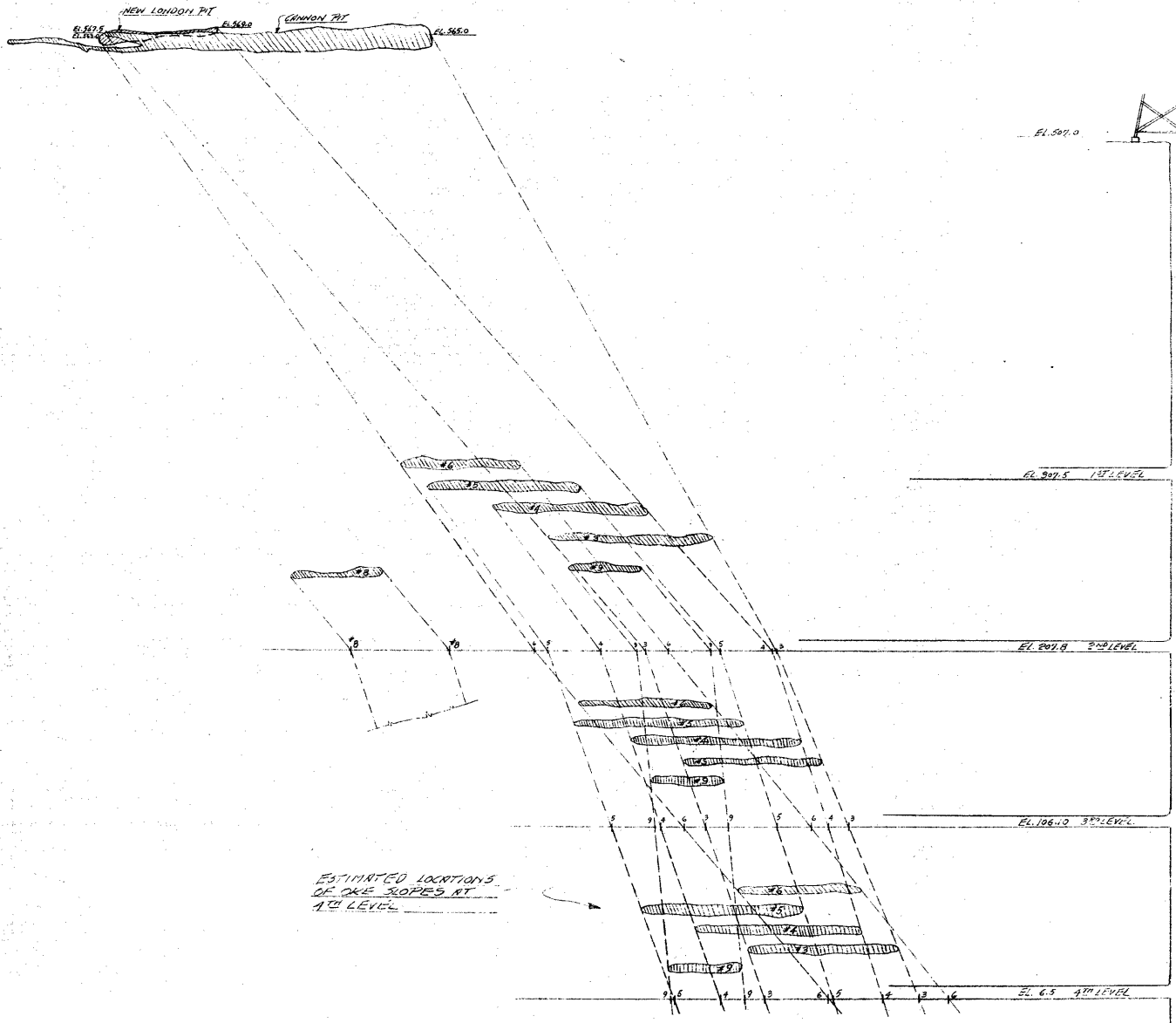


OBSERVATIONS		REVISIONS			
A.W.S. CO. NUMBER	No.	DATE	REMARKS	BY	



ALAN WOOD STEEL COMPANY CONSHOHOCKEN, PENNA.		
DATE	PROJECTION OF OPEN PITS CANNON MINE	SCALE
DWG.		NUMBER
TR'ED		RM
C'VD		7
APPROVED	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.	
CH. ENG.		

MATERIAL LIST				
ITEM	NO. REQ'D	SIZE OR WGT	MAT. SERIAL	DESCRIPTION



112.5'
99.7'
100.7'
99.6'

DERIVATIONS		REVISIONS	
A. W. E. CO. NUMBER	NO.	DATE	REVISION

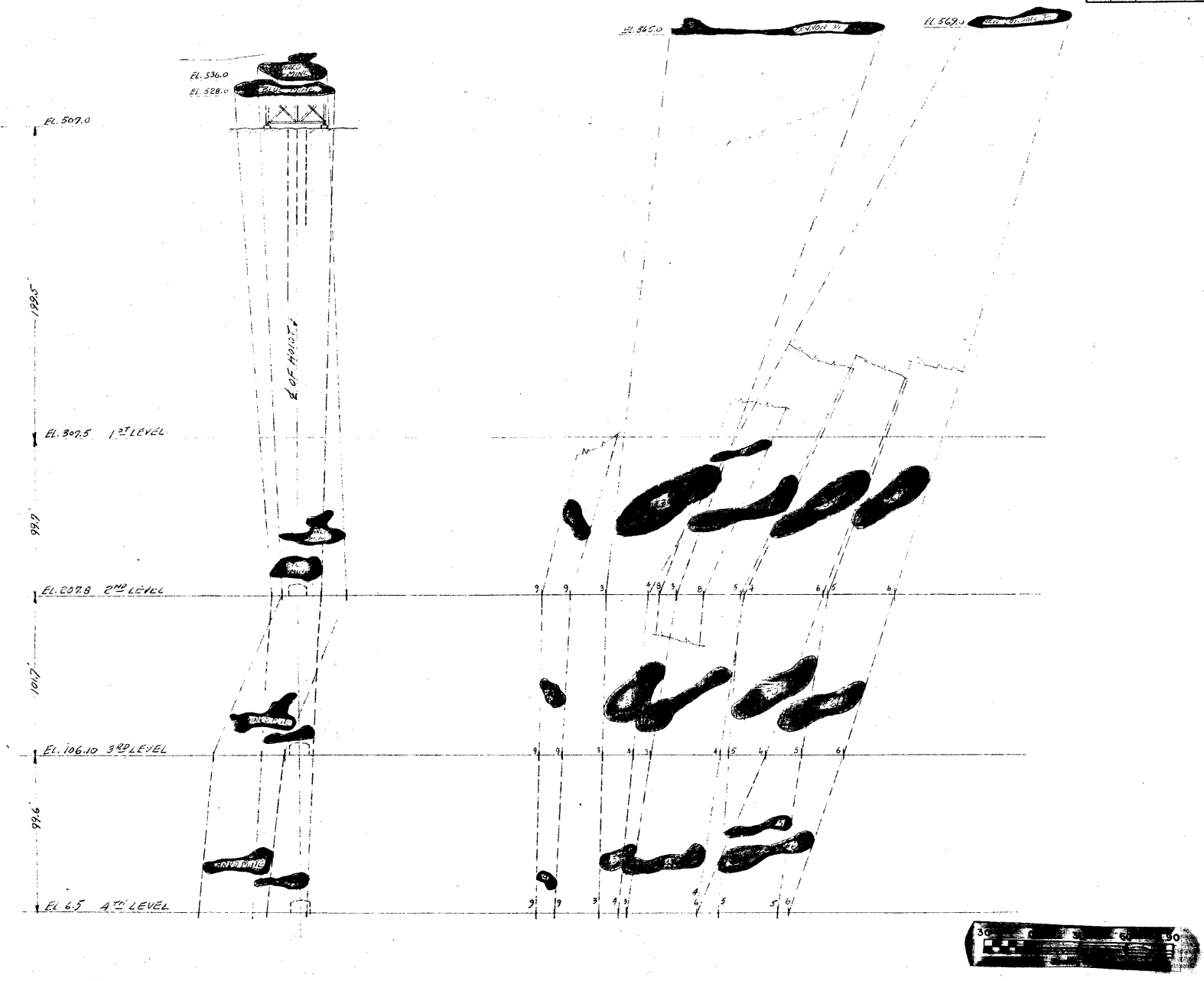


ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	<p align="center">PROJECTION OF OPEN PITS CANNON MINE</p>	SCALE
DWN.		NUMBER
TR'CD		RM
CHK'D		8
APPROVED	<small>NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION. CN. ENG.</small>	

NTGS 02145 117 24Y 254214

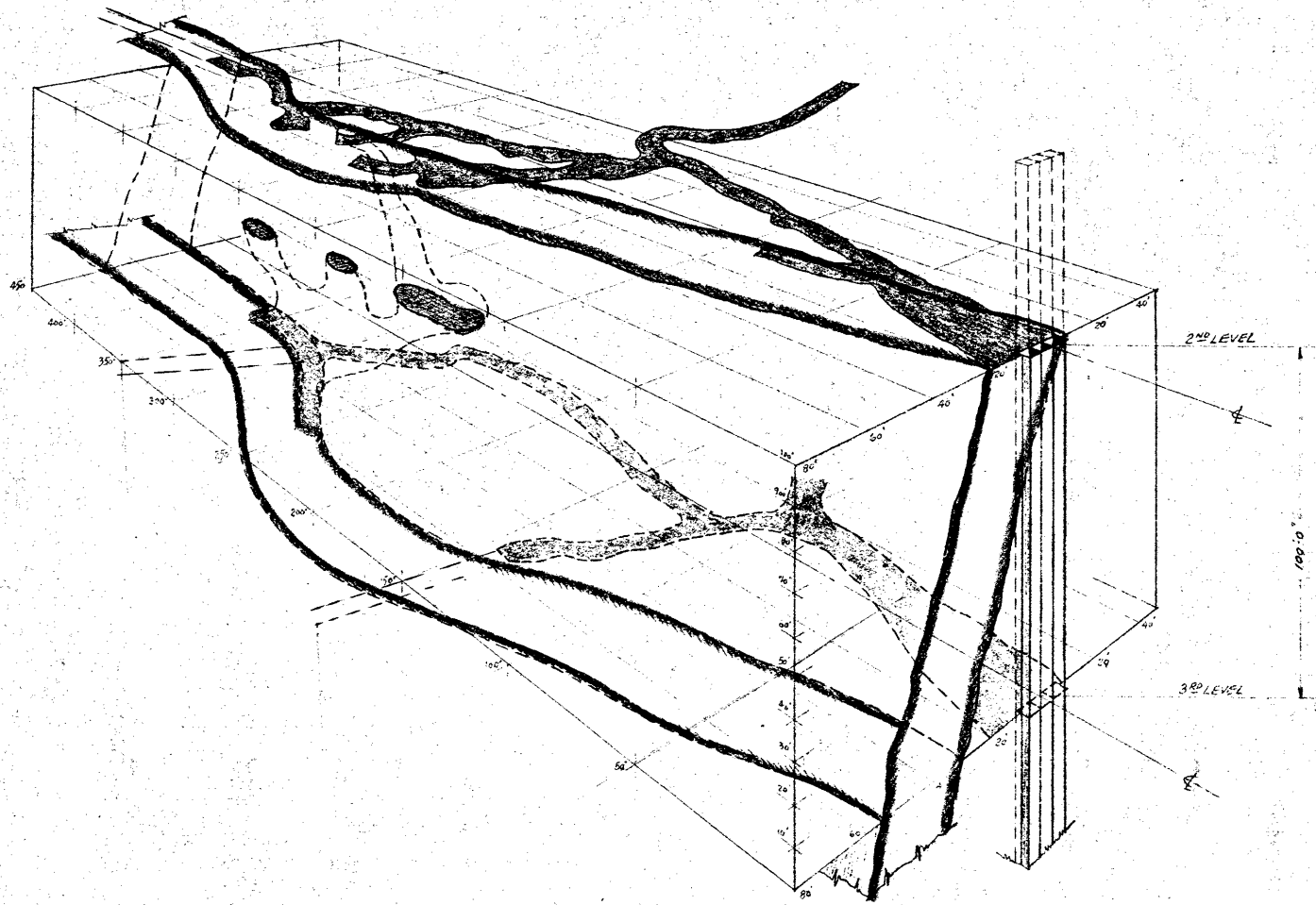
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ITEM	NO. REQ'D	SIZE OR WT	MAT. ERIAL	DESCRIPTION



DERIVATIONS		REVISIONS		
A.W.S. CO. NUMBER	NO.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY CONSHOHOCKEN, PENNA.			SCALE 1" = 30'
DATE	PROJECTION OF OPEN PITS CANNON MINE	RM	NUMBER 6
DWS.			
TWC'D			
CW'D	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART WITHOUT THE PERMISSION OF CH. ENG.		
APPROVED			

MATERIAL LIST				
ITEM	NO. REQ'D	SIZE OR WGT	MAT. ERIAL	DESCRIPTION



DERIVATIONS		REVISIONS		
A. W. S. CO. NUMBER	No.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY CONSHOHOCKEN, PENNA.		
DATE	HARD MULE VEIN CANNON MINE	SCALE
DWG.		NUMBER
TR'CD		3
CK'D		
APPROVED	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION. CH. ENG.	

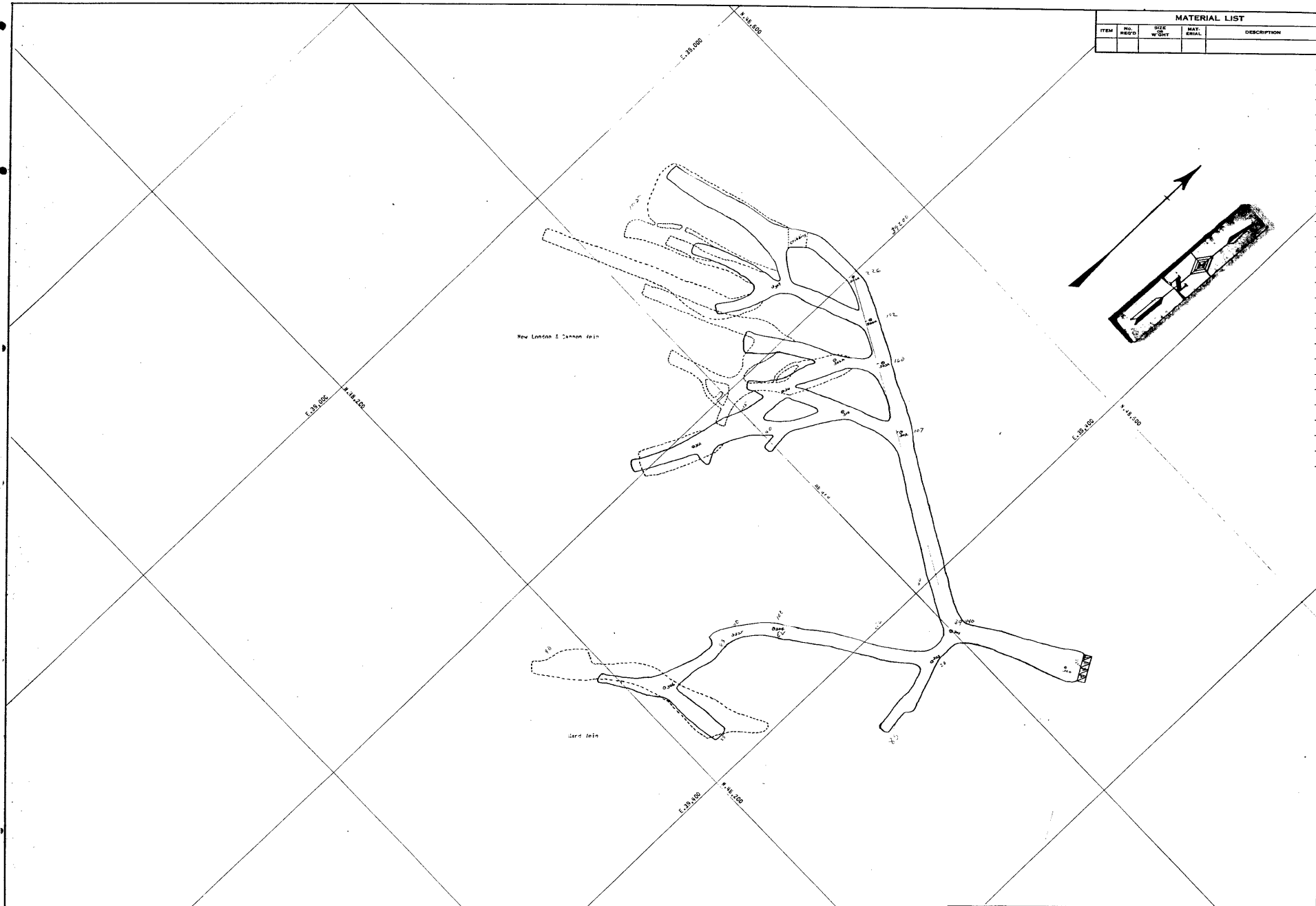
NJGS

03145

101 16X

354198

MATERIAL LIST				
ITEM	NO. REQ'D	SIZE OR WGT	MAT. SERIAL	DESCRIPTION



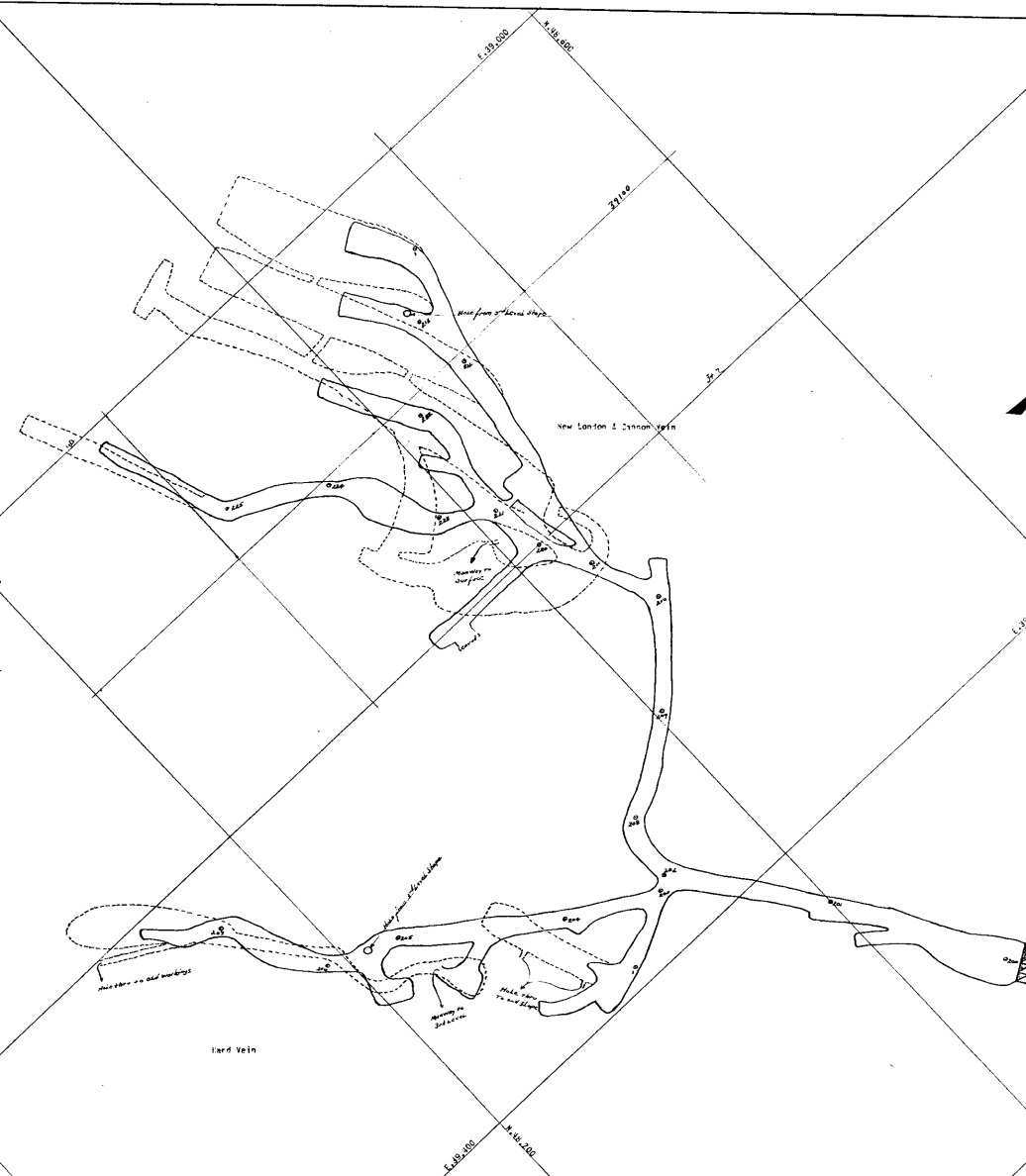
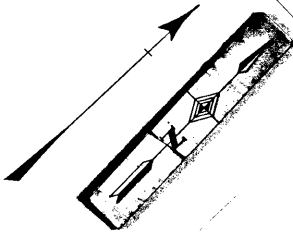
DERIVATIONS		REVISIONS		
A. W. S. CO. NUMBER	NO.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	D.P.C. 662	SCALE
DWG.	CANNON MINE NO. 3 LEVEL PLAN	NUMBER
TRCS	SHOWING LOCATION OF DRIFTS AND STOPES	RM
CRD	IN THE NEW LONDON, CANNON & HARD VEINS	4
APPROVED	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION. CH. ENG.	

MTCS 021 45 121 24X 25 4216

MATERIAL LIST				
ITEM	NO. REQ'D	SIZE	MAT. ERIAL	DESCRIPTION



DERIVATIONS		REVISIONS		
A. M. & CO. NUMBER	No.	DATE	REMARKS	BY

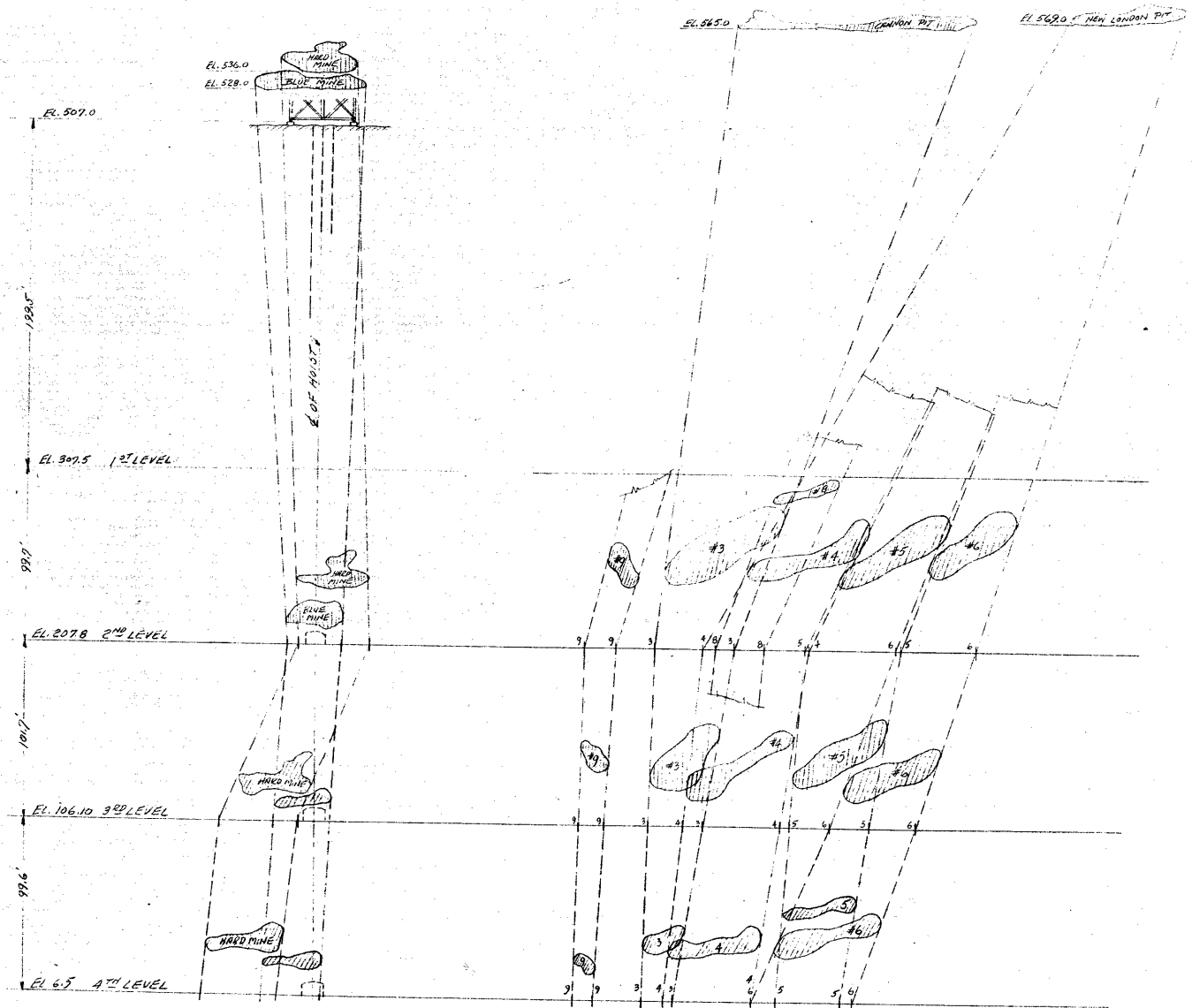


ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	D.P.C. 662	SCALE
D.W.C.	CANNON MINE NO. 2 LEVEL PLAN	NUMBER
Y.F.C.D.	SHOWING LOCATION OF DRIFTS AND STOPES	RM 3
C.W.D.	IN THE NEW LONDON, CANNON & HARD VEINS	
APPROVED		

NOTE: THIS DRAWING IS LOANED AND SHOWN FOR INFORMATION OF THE COMPANY AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART BY ANY OTHER PARTY.

MATERIAL LIST			
ITEM	NO. REQ'D	SIZE W/HT	MAT. SERIAL DESCRIPTION



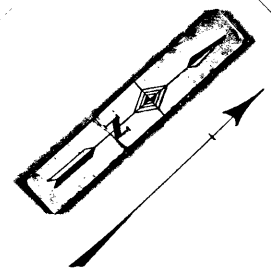
DERIVATIONS		REVISIONS		
A. W. & CO. NUMBER	No.	DATE	REVISION	By



ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	PROJECTION OF OPEN PITS CANNON MINE	SCALE 1" = 20'
TWCD		NUMBER
CK'D		RM 6
APPROVED	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND MUST BE RETURNED TO THE COMPANY.	

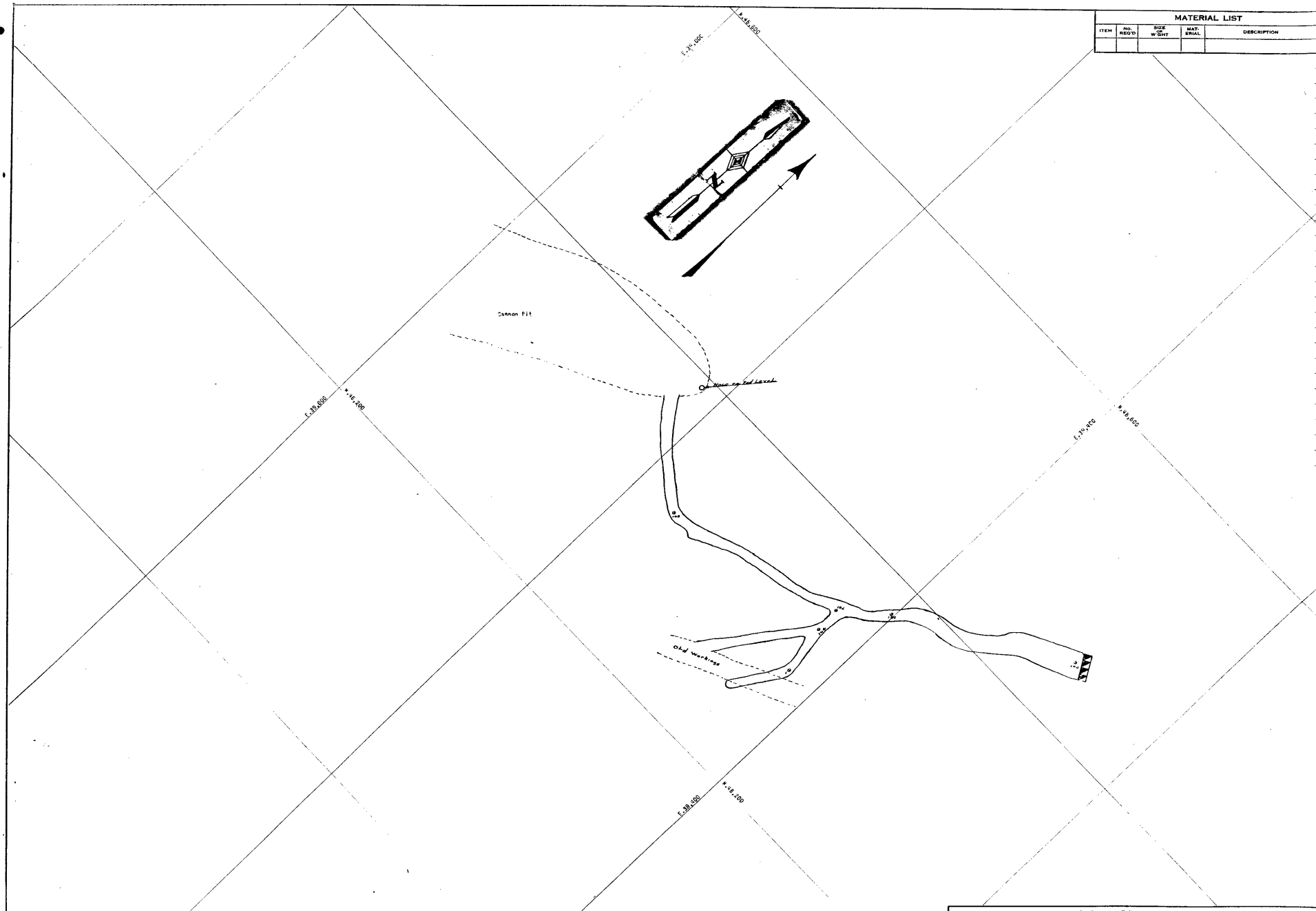
MATERIAL LIST				
ITEM	NO. REQ'D	SIZE	MAT. SPEC.	DESCRIPTION



Cannon Pit

Old level

Old workings



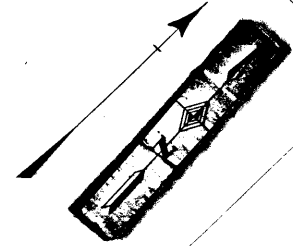
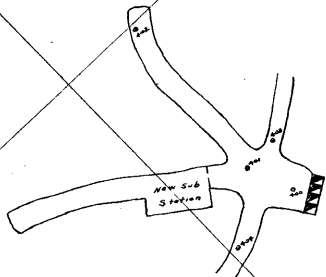
DERIVATIONS		REVISIONS		
A. W. & CO. NUMBER	NO.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	D.P.C. 662	SCALE
T.W.L.	CANNON MINE NO. 1 LEVEL PLAN-SHOWING	NUMBER
W.R.C.D.	LOCATION AND EXTENT OF DRIFTS	RM 2
C.K.D.		
APPROVED		

NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PURCHASER.
CH. ENG.

MATERIAL LIST				
ITEM	NO. REQ'D	SIZE	MAT. SPEC.	DESCRIPTION



DERIVATIONS		REVISIONS		
A. W. & CO. NUMBER	NO.	DATE	REVISION	BY

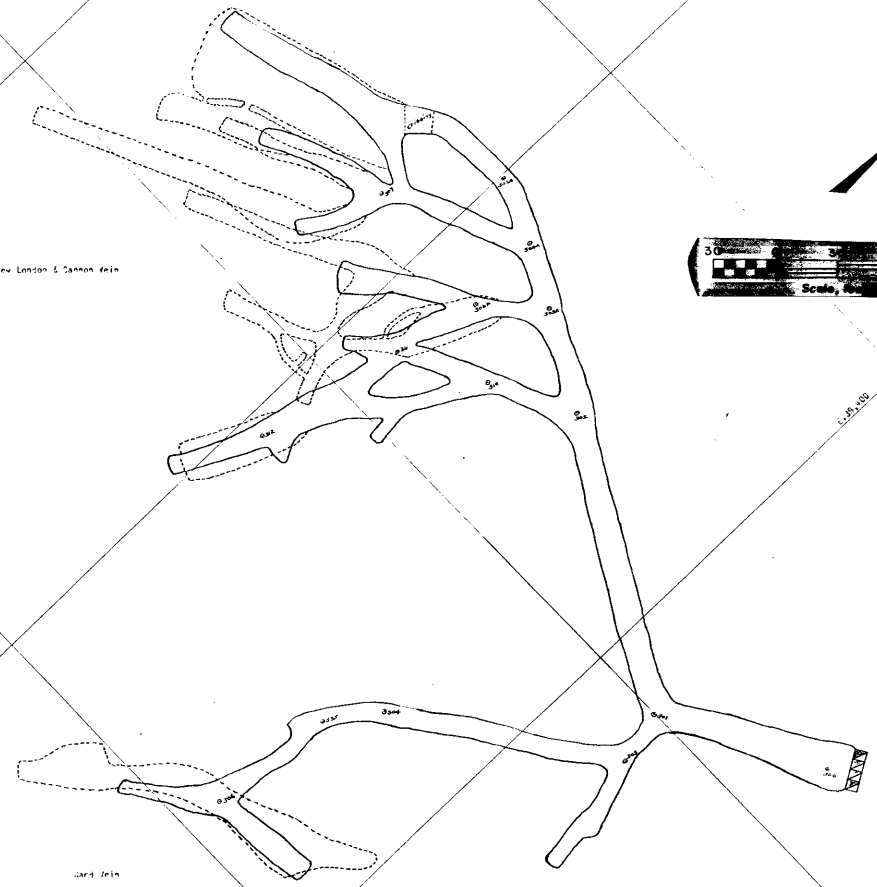
ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	D.P.C. 662	SCALE
DWG.	CANNON MINE NO. 4 LEVEL PLAN	NUMBER
TRCD	SHOWING LOCATION AND EXTENT OF DRIFTS	RM 5
CK'D		
APPROVED		

NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART WITHOUT ITS PERMISSION.
CH. ENG.

ATCC 001 15 110 000

MATERIAL LIST				
ITEM	NO. REQ'D	SIZE	MAT. SERIAL	DESCRIPTION



E. 29.000
N. 46.500

E. 29.000
N. 46.500

E. 29.000
N. 46.500

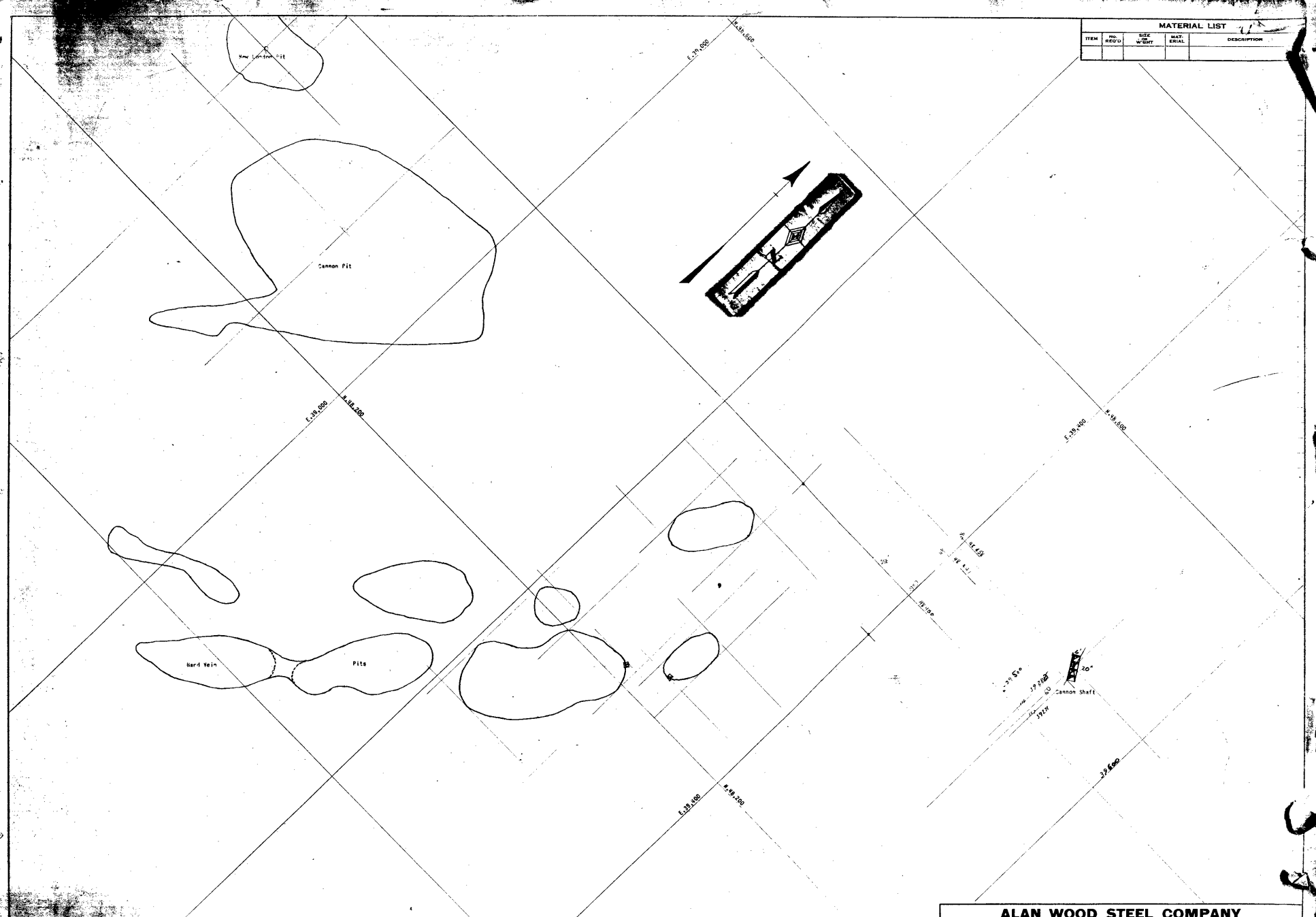
E. 29.000
N. 46.500

DERIVATIONS		REVISIONS		
A. W. S. CO. NUMBER	NO.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	D.P.C. 662	SCALE
DWG.	CANNON MINE NO. 3 LEVEL PLAN	NUMBER
TR'CD	SHOWING LOCATION OF DRIFTS AND STOPES	RM
CR'D	IN THE NEW LONDON, CANNON & HARD VEINS	4
APPROVED	CH. ENGR.	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PRESENTED

MATERIAL LIST				
ITEM	NO.	SIZE	MAT.	DESCRIPTION
NO.	REQ'D	WGT	ERIAL	



REVISIONS			
NO.	DATE	REVISION	BY

NOTE: - Survey is based on Triangulation System of U.S.C. & G.S. for Northern New Jersey. Having as a base line Origin Hope Mt. whose coordinates are N. 54, 314.37; E. 41, 322.75 and Sharp Mt. whose coordinates are N. 38, 606.36; E. 35, 142.76

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

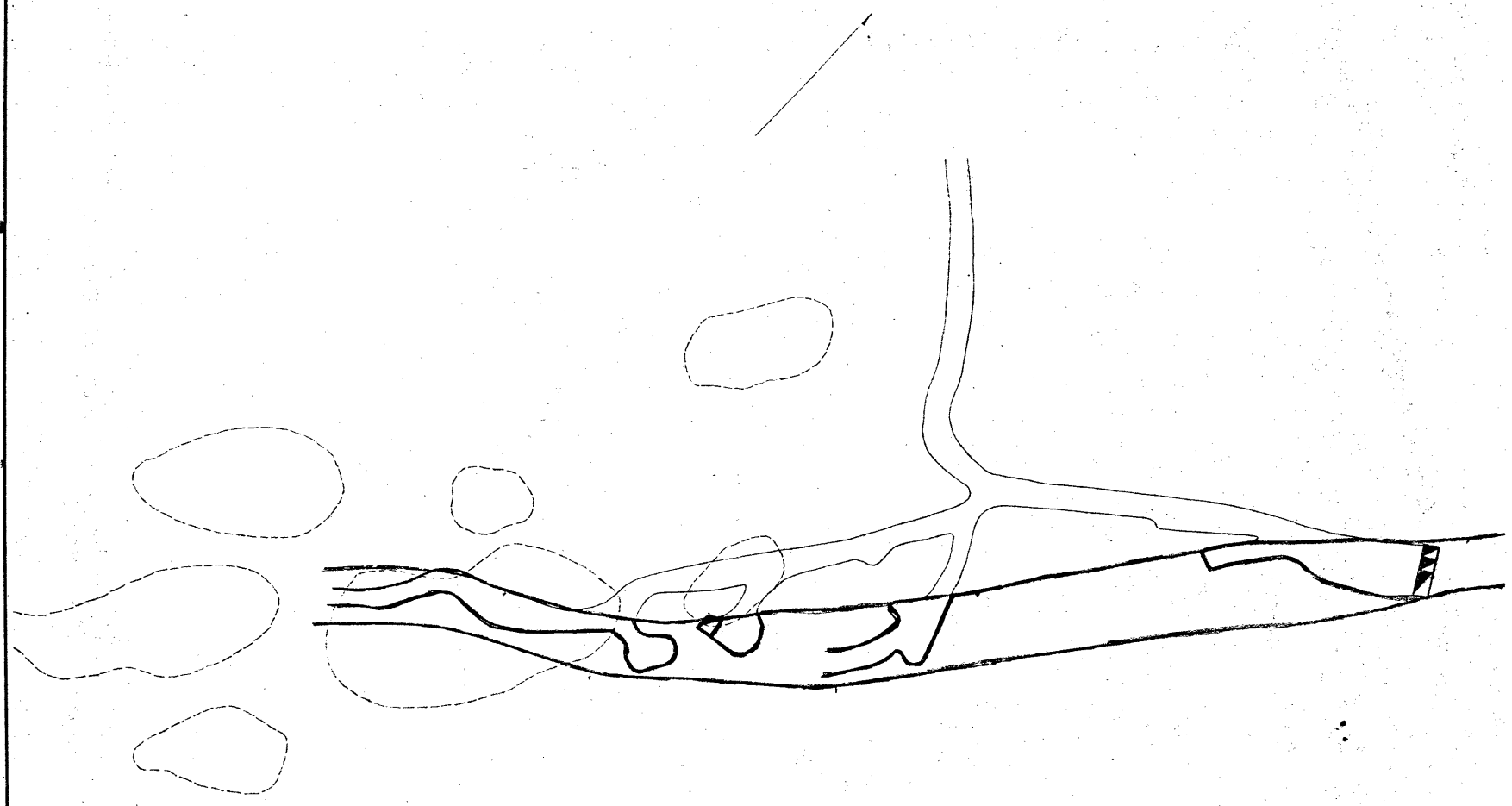
DATE	D.P.C. 662	SCALE
DWG.	PLAN - SHOWING LOCATION OF NEW LONDON, CANNON AND HARD VEIN SURFACE PITS AT CANNON MINE	NUMBER
TRCD		RM
C'D		
APPROVED		NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF ALAN WOOD STEEL COMPANY. IT IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.

MTCC 001 15 111 04 05 000



MATERIAL LIST

ITEM	No. REQ'D	SIZE OR W'GHT	MAT-ERIAL	DESCRIPTION



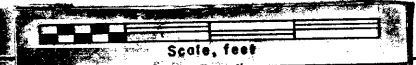
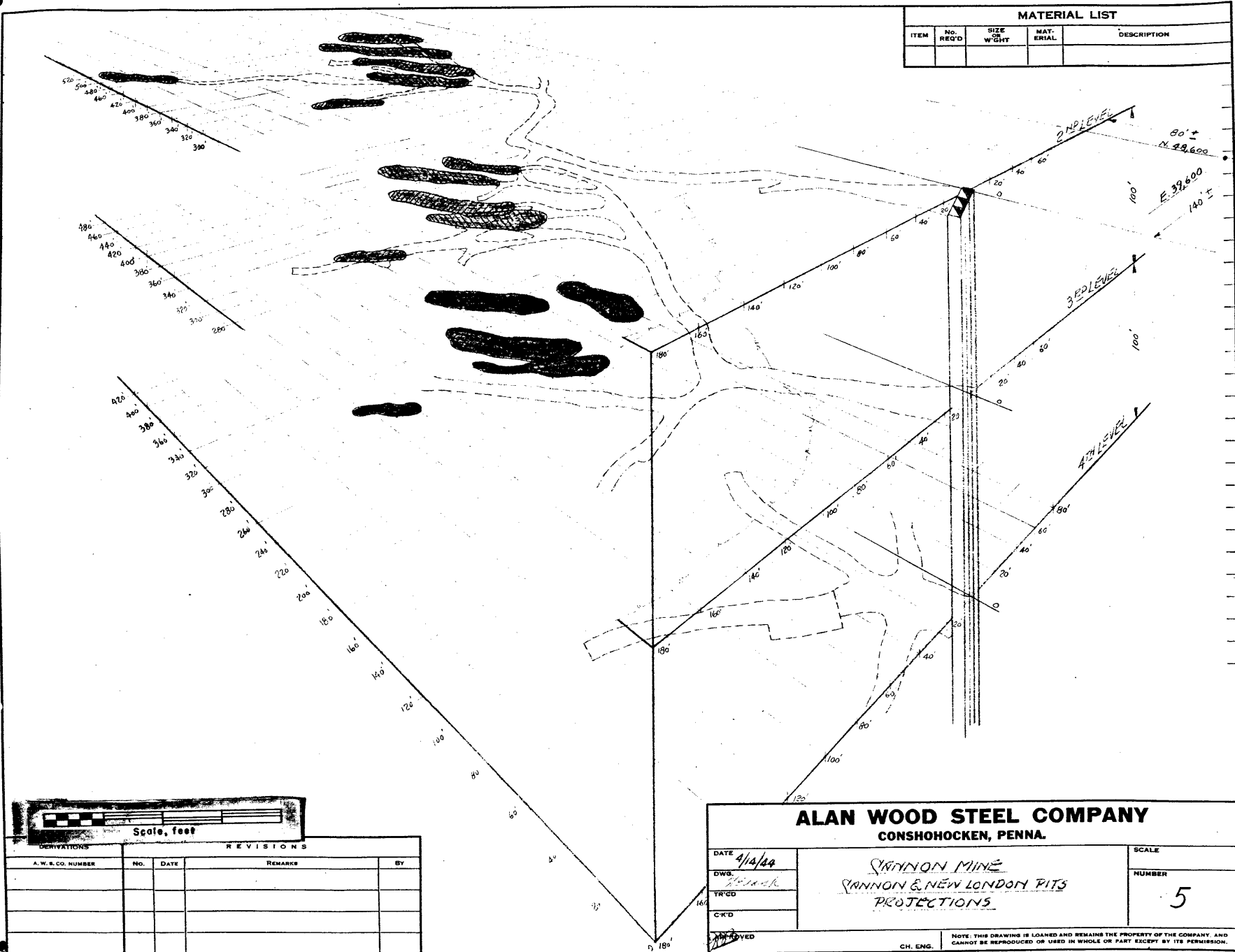
DERIVATIONS		REVISIONS		
A. W. S. CO. NUMBER	No.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	CANNON MINE HARD-MULE VEIN SECOND LEVEL - MINERALIZATION	SCALE
DWG.		NUMBER
TR'CD		7
C'KD		
APPROVED	CH. ENG.	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.

NJGS 03145 108 17X 354205

MATERIAL LIST				
ITEM	NO. REQ'D	SIZE	MAT. ERIAL	DESCRIPTION



DERIVATIONS		REVISIONS		
A. W. S. CO. NUMBER	NO.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE: 4/14/44
DWS: [Signature]
TR'CO:
C'K'D:
APPROVED: [Signature]

GRANNON MINE
GRANNON & NEW LONDON PITS
PROJECTIONS

SCALE: NUMBER 5

NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.
CH. ENG.

N.T.G.S 03145 106 17X 354203

MATERIAL LIST				
ITEM	NO. REQD.	SIZE OR WGT.	MAT. ERIAL.	DESCRIPTION

E-39,000
E-38,500



Cannon Pit

On Main to 1st Level

E-39,000
N-48,200

E-38,500
N-48,500

E-39,000
N-48,200

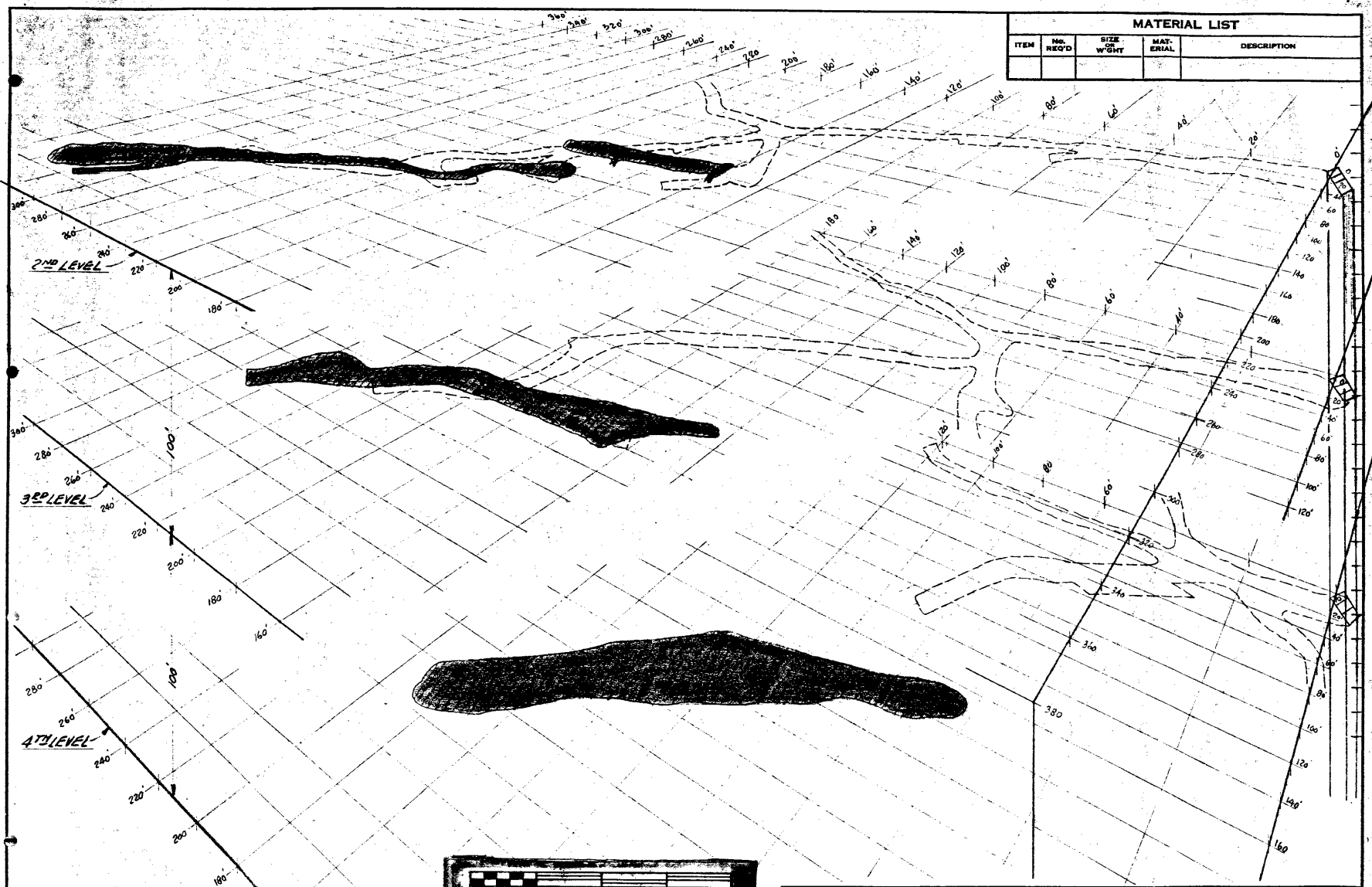
DERIVATIONS		REVISIONS			
A. W. S. CO. NUMBER	No.	DATE	REMARKS	BY	

ALAN WOOD STEEL COMPANY CONSHOHOCKEN, PENNA.		DATE	SCALE
		D.P.C. 662	1/30'
DWG.	CANNON MINE NO. 1 LEVEL PLAN-SHOWING		NUMBER
TRCD	LOCATION AND EXTENT OF DRIFTS		RM 2
CK'D	APPROVED		
CH. ENG.		NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.	

NTCS 021 45 60 02X 05 1170

MATERIAL LIST

ITEM	No. REQ'D	SIZE WEIGHT	MAT. ERIAL	DESCRIPTION



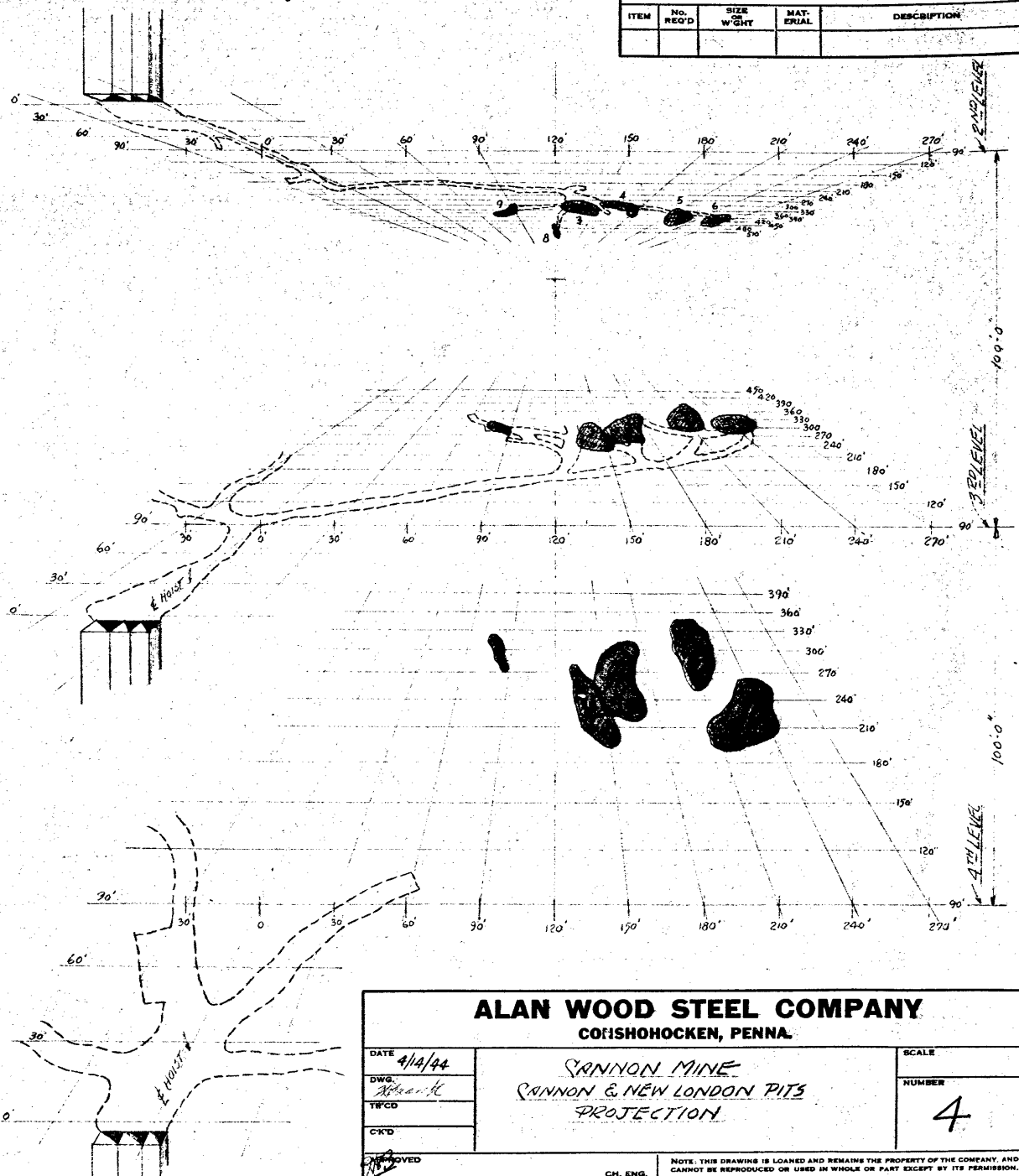
DERIVATIONS		REVISIONS		
A. W. S. CO. NUMBER	No.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE <i>4/15/44</i>	CANNON MINE HARD VEIN PROJECTION	SCALE
DWG. <i>W. Wood</i>		NUMBER 6
TR'D		
CK'D		
APPROVED <i>[Signature]</i>	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION. CH. ENG.	

N.J.G.S. 03145 162 17X 354165

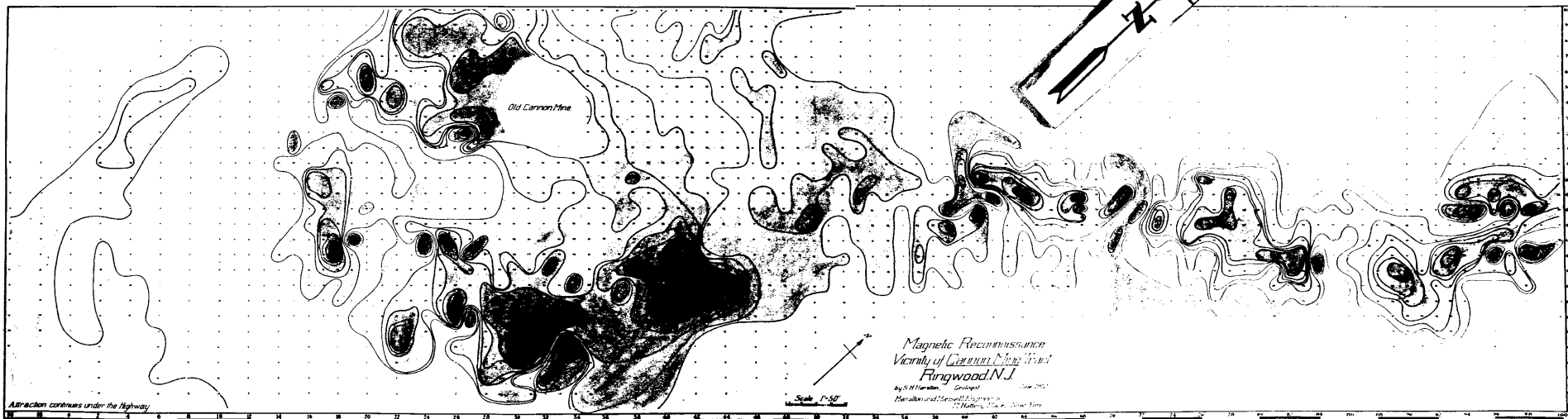
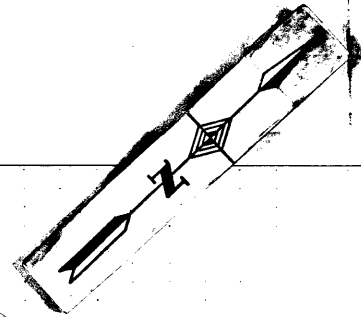
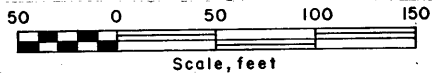
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ITEM	NO. REQ'D	SIZE W/GHT	MAT-ERIAL	DESCRIPTION



DERIVATIONS		REVISIONS			
A. W. S. CO. NUMBER	No.	DATE	REMARKS	BY	

ALAN WOOD STEEL COMPANY COUSHOCKEN, PENNA.		SCALE
DATE <i>4/14/44</i>	<i>SANNON MINE SANNON & NEW LONDON PITS PROJECTION</i>	NUMBER
DWG. <i>Blank</i>		4
TWCD		
CK'D		
APPROVED <i>[Signature]</i>	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.	
	CH. ENG.	

NJGS 03145 102 16X 354199



Magnetic Reconnaissance
Vicinity of Cannon Mine West
Ringwood, N.J.
By W. H. ...
H. ...

Scale 1"=50'

Attraction continues under the Highway

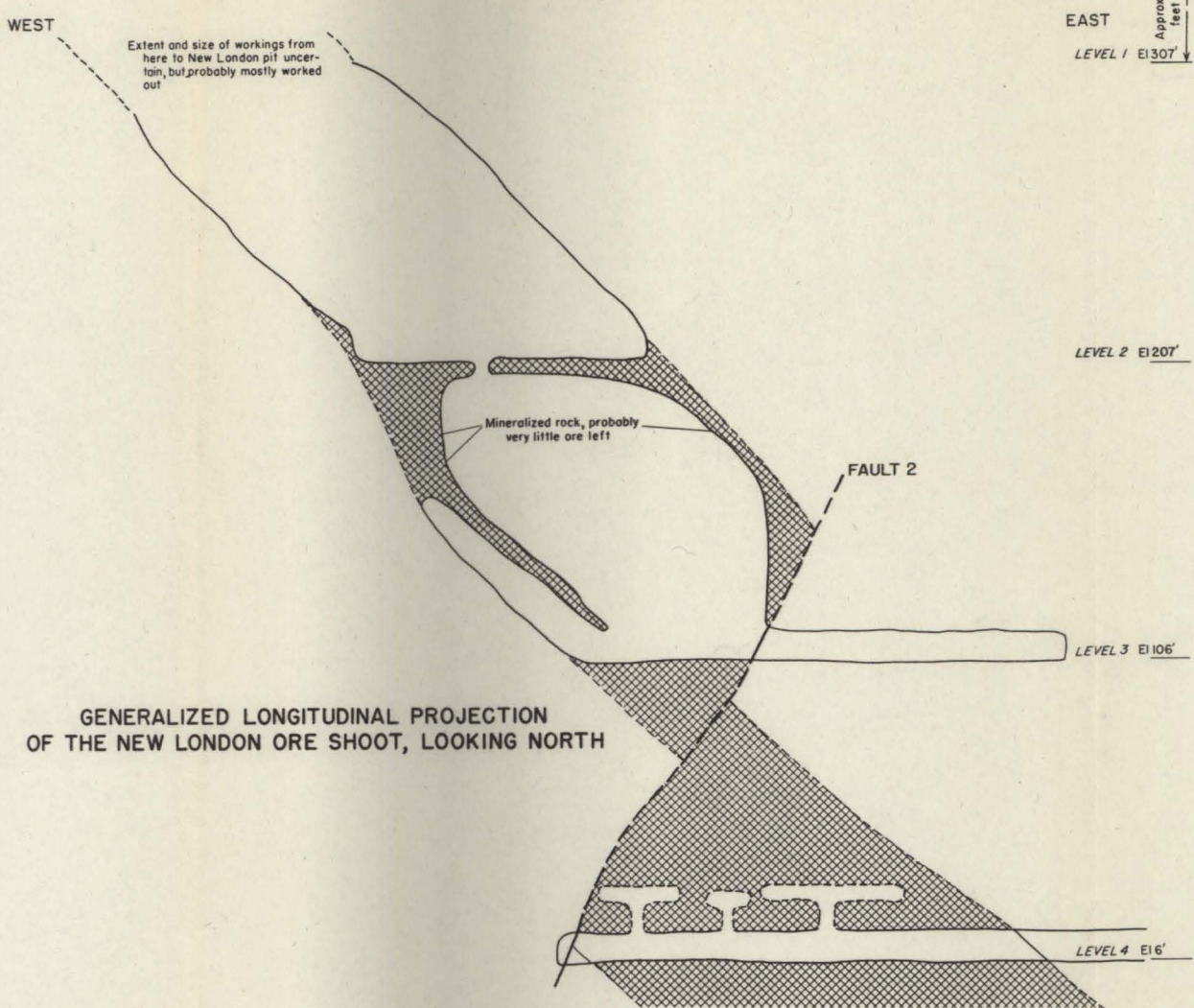
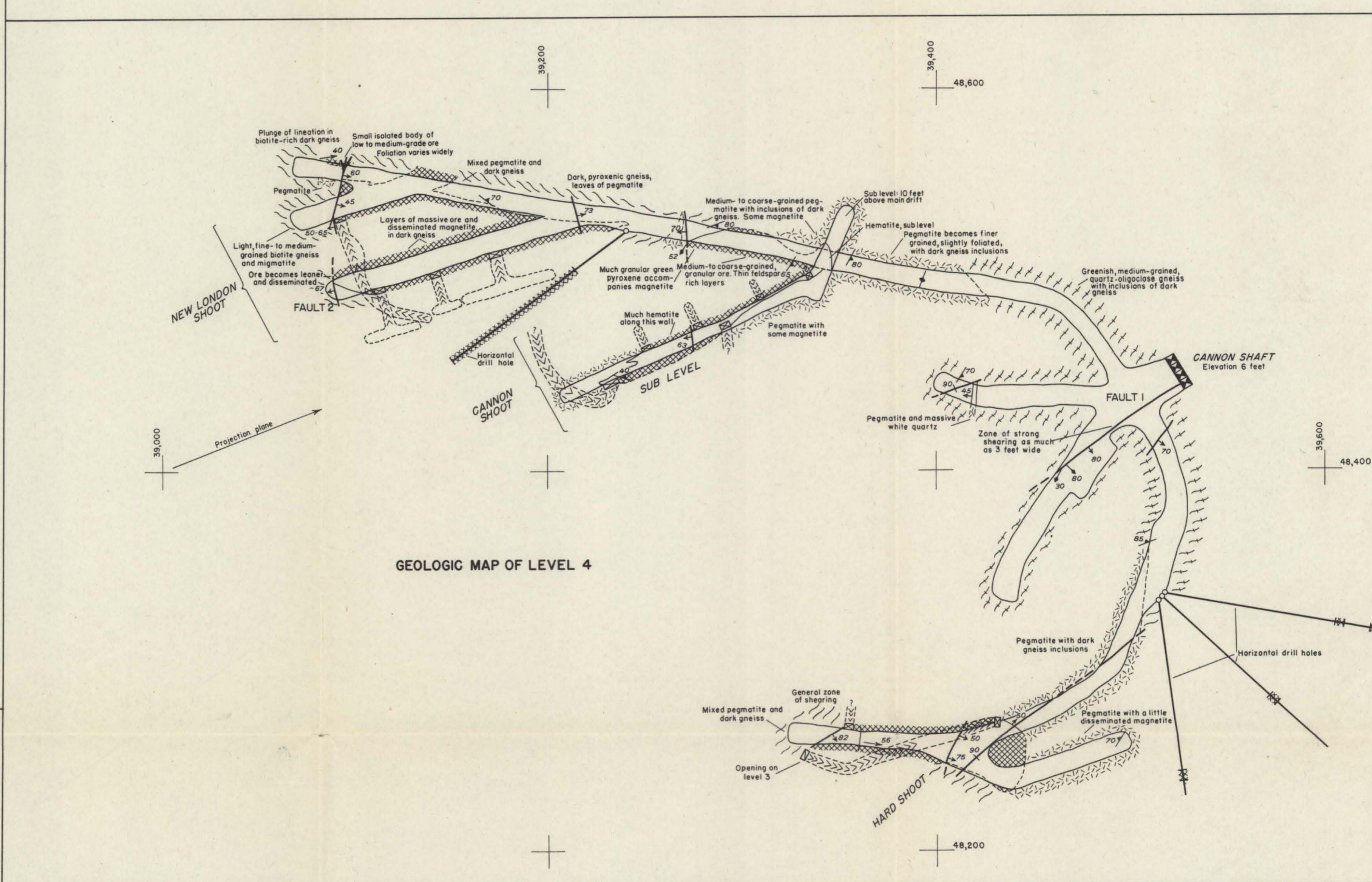
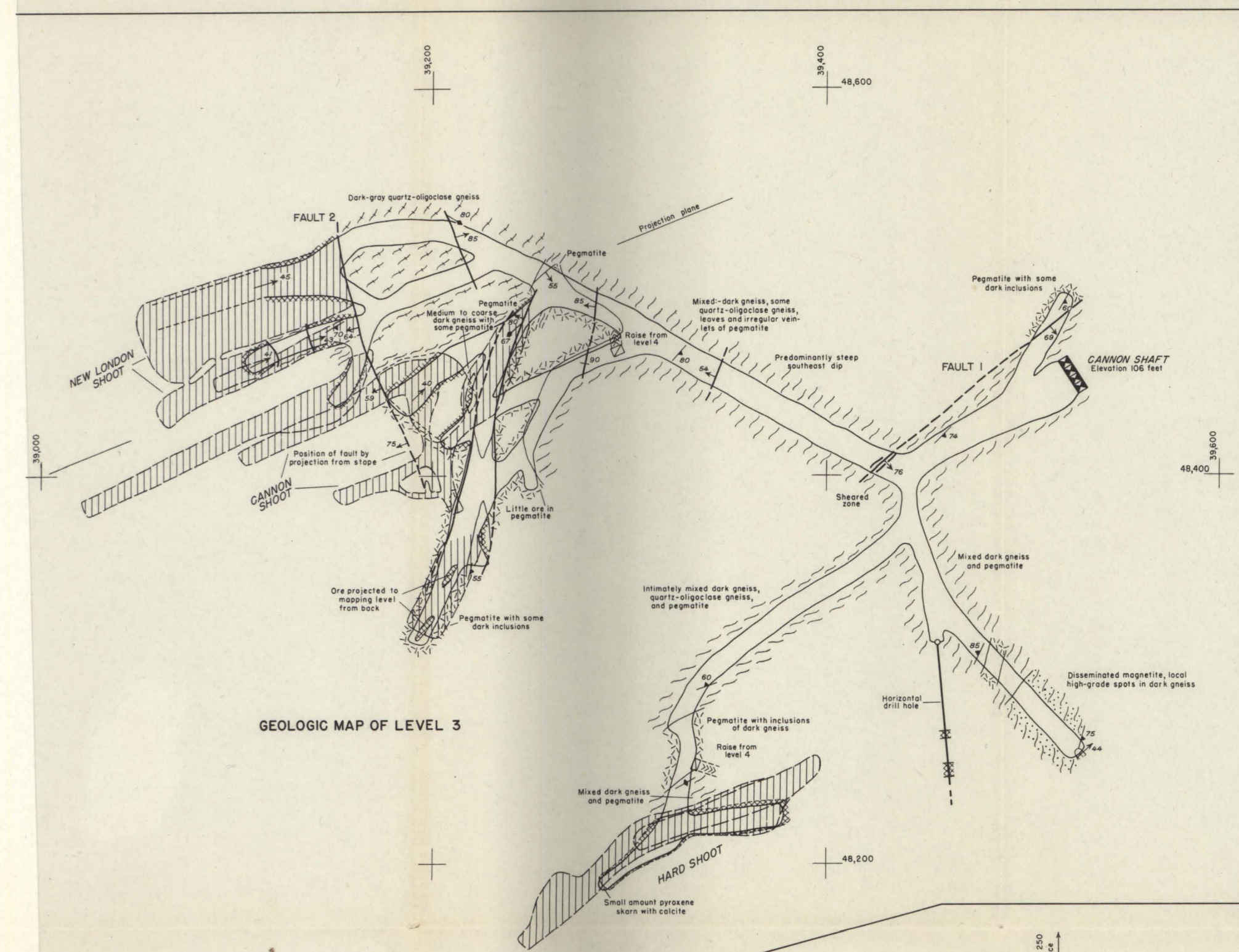
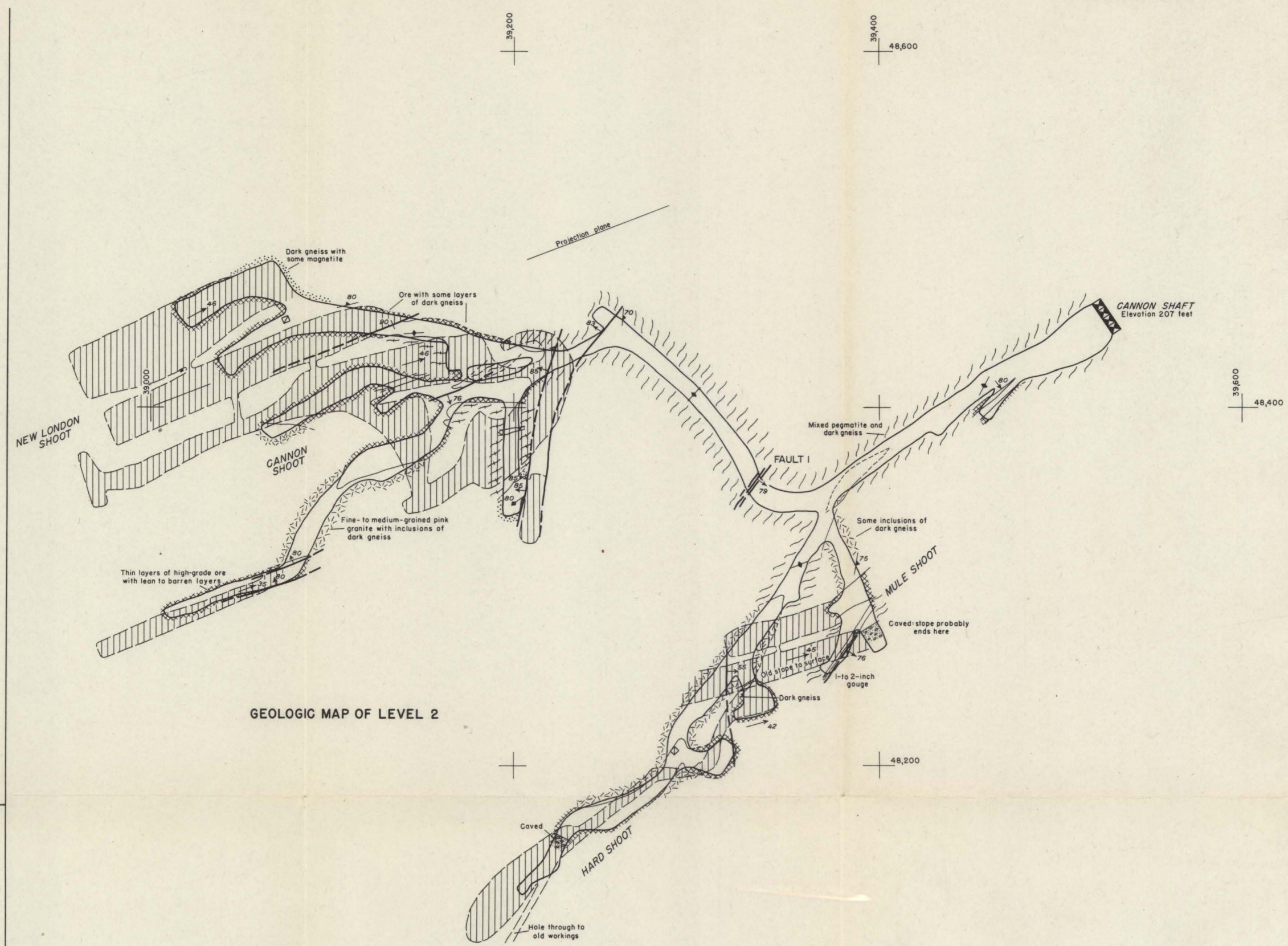
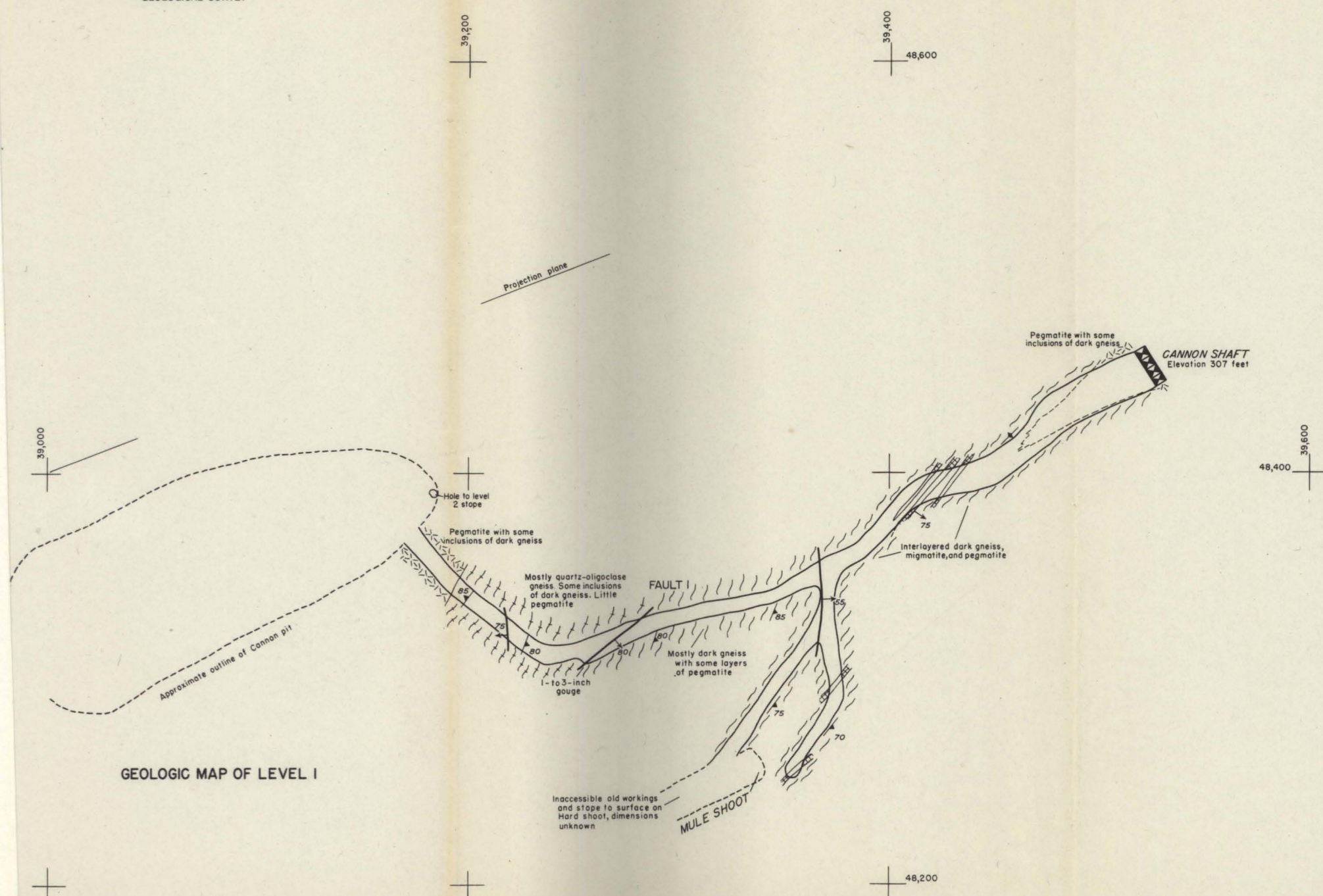
NJGS

03145

48

14.5X

354152



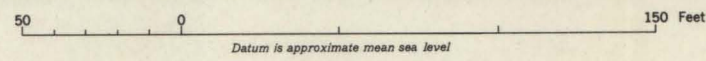
EXPLANATION

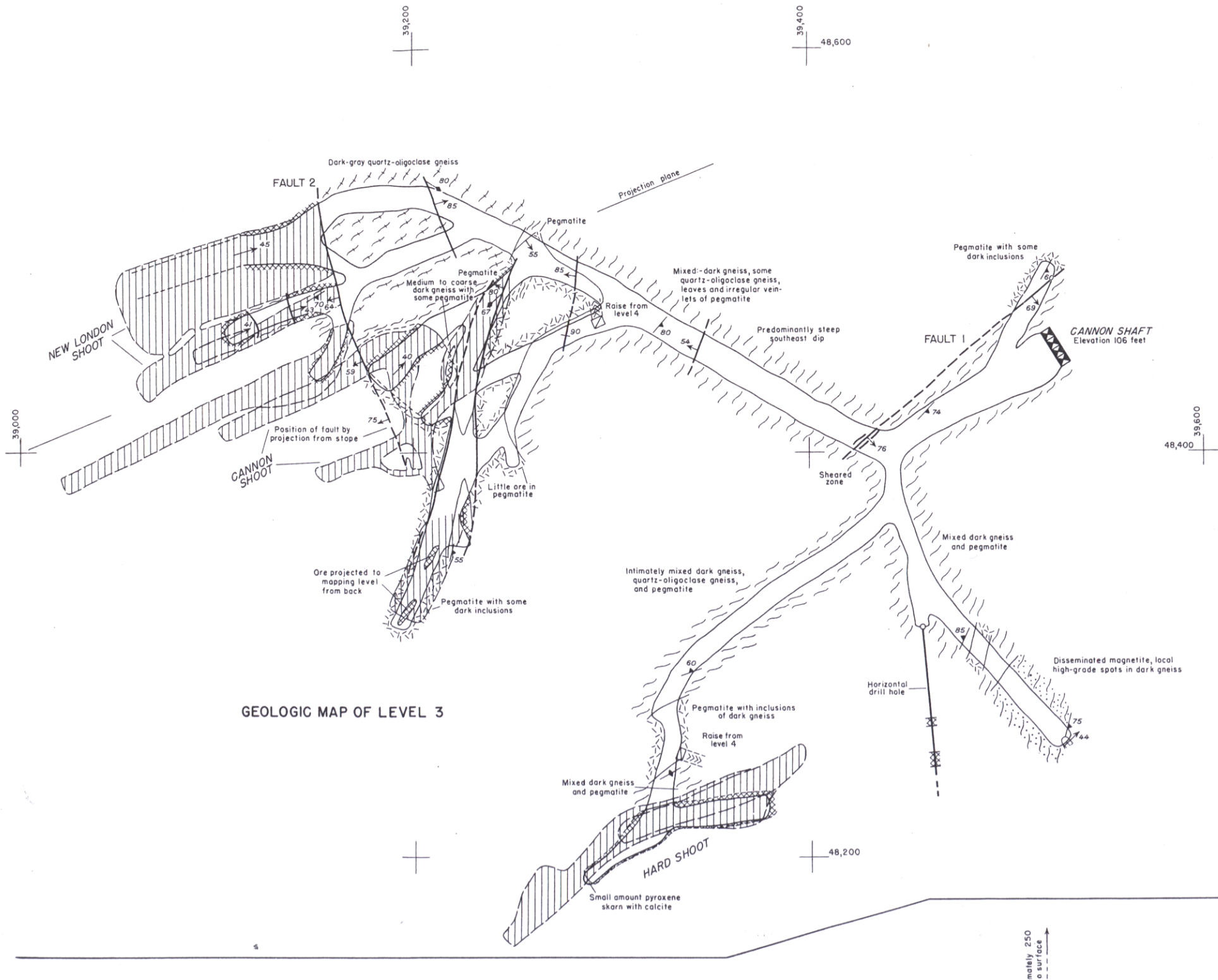
	Strike and dip of foliation
	Strike of vertical foliation
	Bearing and plunge of lineation
	Ore
	Shaft going above and below levels
	Inclined workings
	Chevrans point down
	Raise
	Winze
	Slope

Base map from Alan Wood Steel Co. records

Geology by P.E. Hotz and H.E. Hawkes, Jan. 1945

GEOLOGIC MAPS AND LONGITUDINAL PROJECTION OF CANNON MINE, RINGWOOD DISTRICT, PASSAIC COUNTY, NEW JERSEY





GEOLOGIC MAP OF LEVEL 3

250
 0 surface

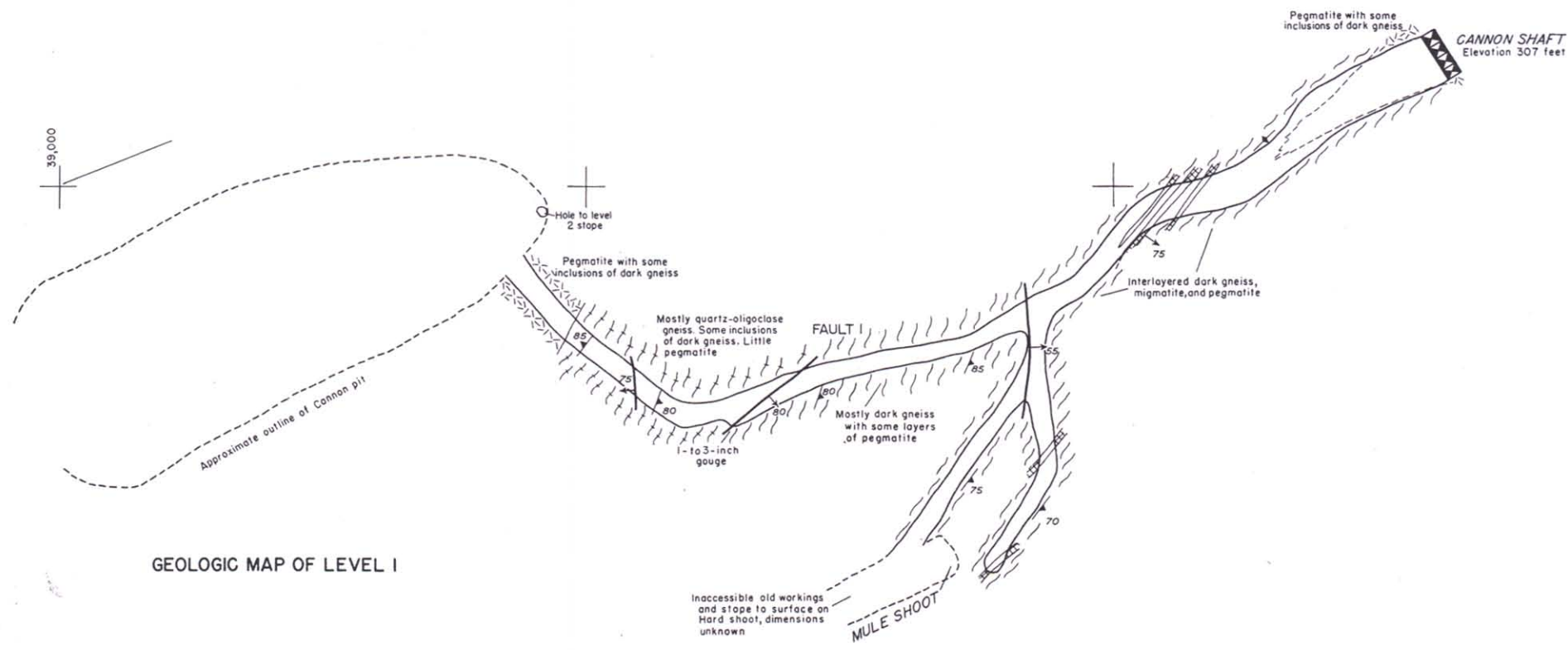
39,200

39,400
48,600

Projection plane

39,000

48,400
39,600

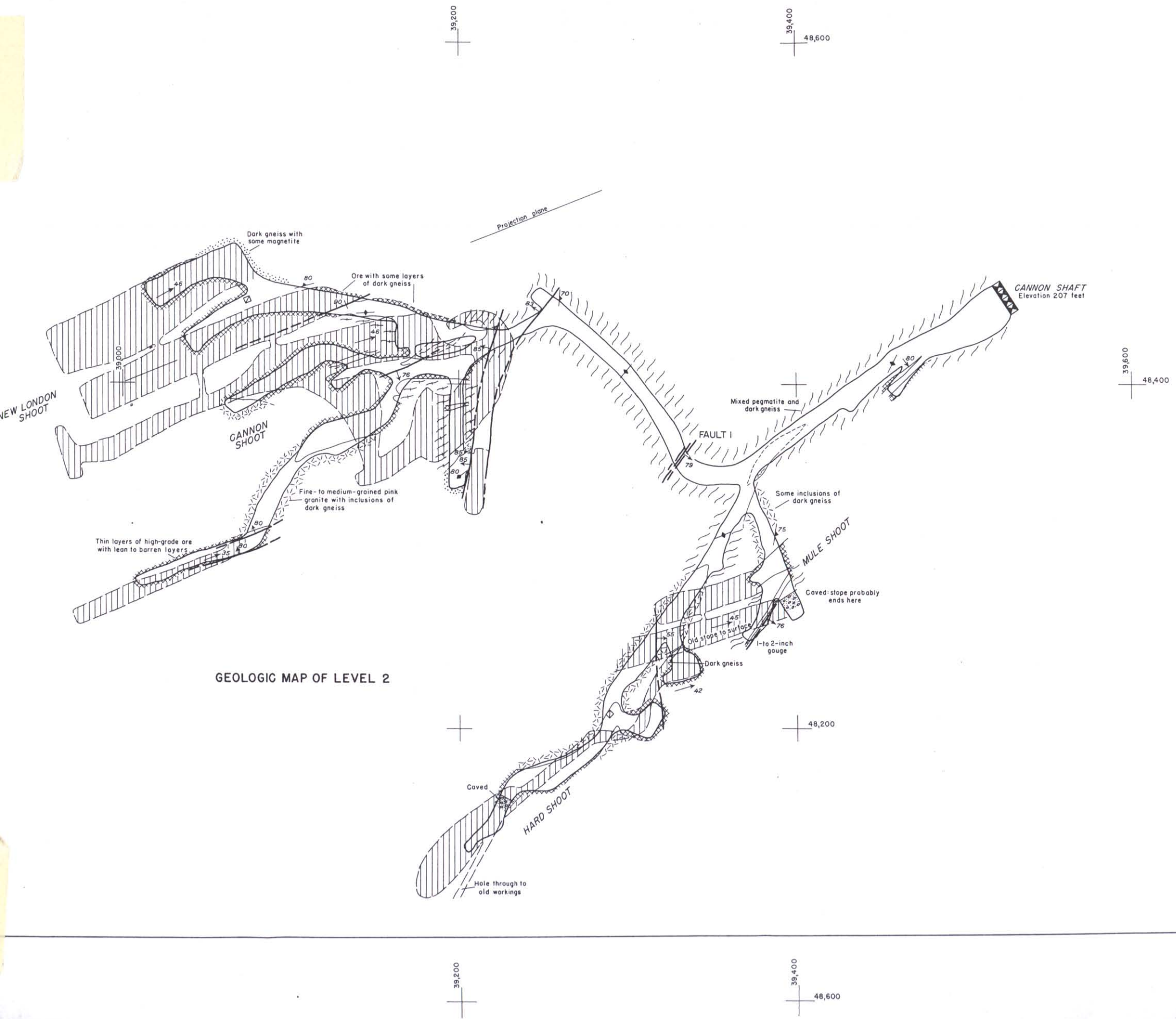


GEOLOGIC MAP OF LEVEL I

39,000

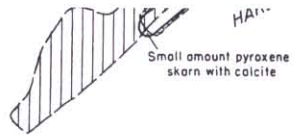
39,200

48,200



GEOLOGIC MAP OF LEVEL 2

Plunge of lineation in biotite-rich dark gneiss
 Small isolated body of low to medium-grade ore
Callitina uniax viridula
 40



WEST

Extent and size of workings from here to New London pit uncertain, but probably mostly worked out

EAST

Approximately 250 feet to surface

LEVEL 1 E1307

LEVEL 2 E1207

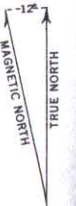
Mineralized rock, probably very little ore left

FAULT 2

LEVEL 3 E1106

GENERALIZED LONGITUDINAL PROJECTION OF THE NEW LONDON ORE SHOOT, LOOKING NORTH

LEVEL 4 E116

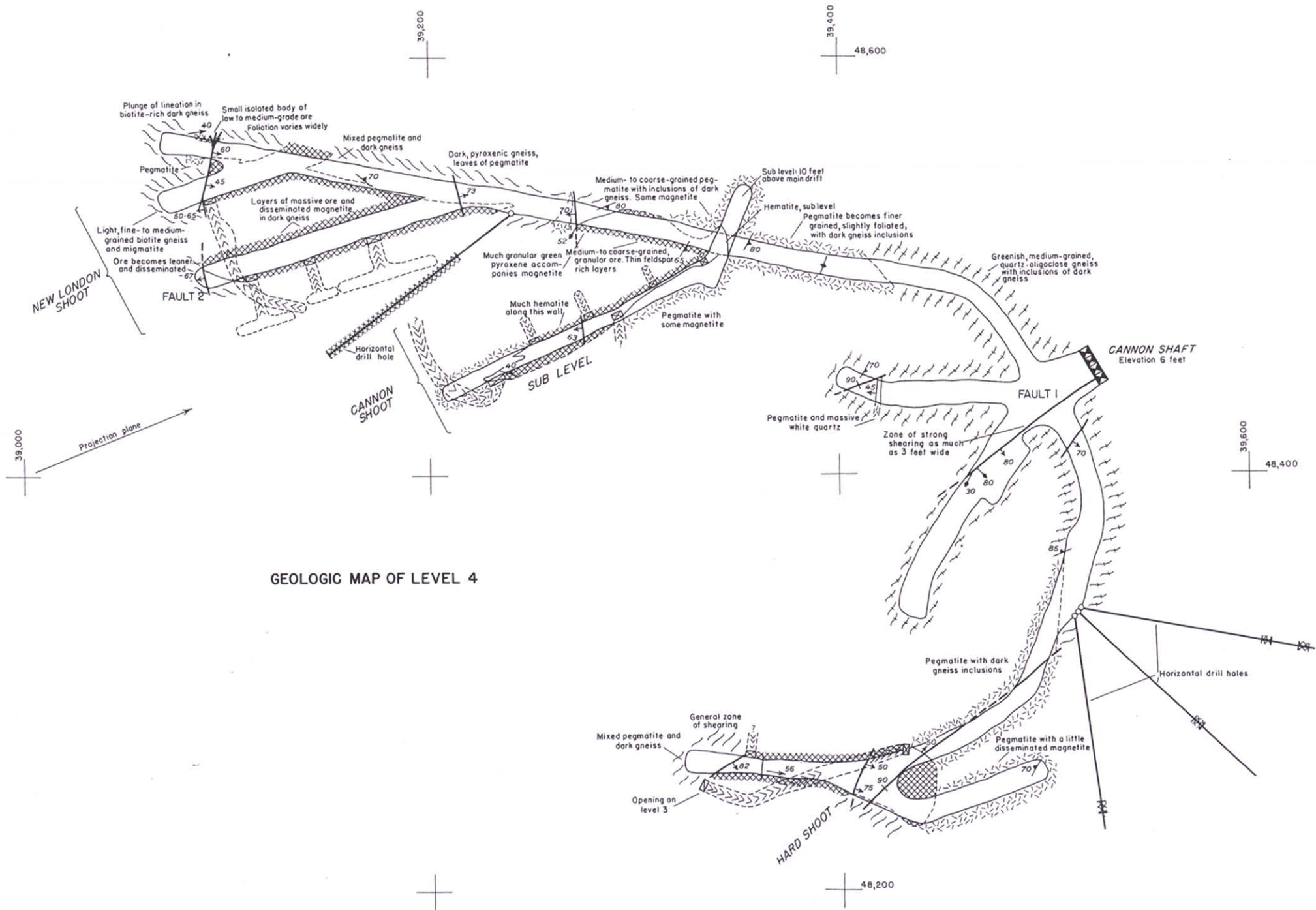


Base map from Alan Wood Steel Co. records

GEOLOGIC MAPS AND LONGITUDINAL PROJECTION OF CANNON MINE, RINGWOOD

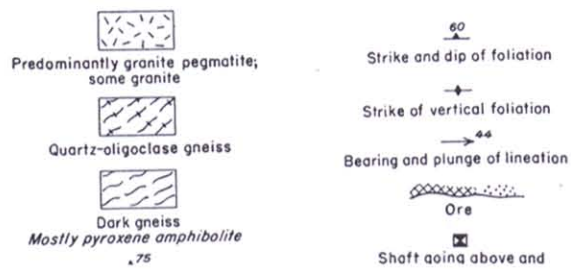


Datum is approximate mean sea level



GEOLOGIC MAP OF LEVEL 4

EXPLANATION



MATCH TO PLAN SHEET 3



MATCH TO PLAN SHEET 1

LOT 12.02

CURVE DATA	P.C.	I.T.	R	L	Δ	E

REVISIONS	DATE	BY

RICHARD A. ALAIMO
ENGINEERING ASSOCIATES
 CONSULTING ENGINEERS
 200 HIGH STREET
 905 KINGS HIGHWAY
 TWO MARKET STREET
 MOUNT HOLLY, N.J.
 CHERRY HILL, N.J.
 PATERSON, N.J.

INDUSTRIAL TRACT DEVELOPMENT
SUBDIVISION PLAN
PLAN SHEET 2
 SCALE: 1" = 100'

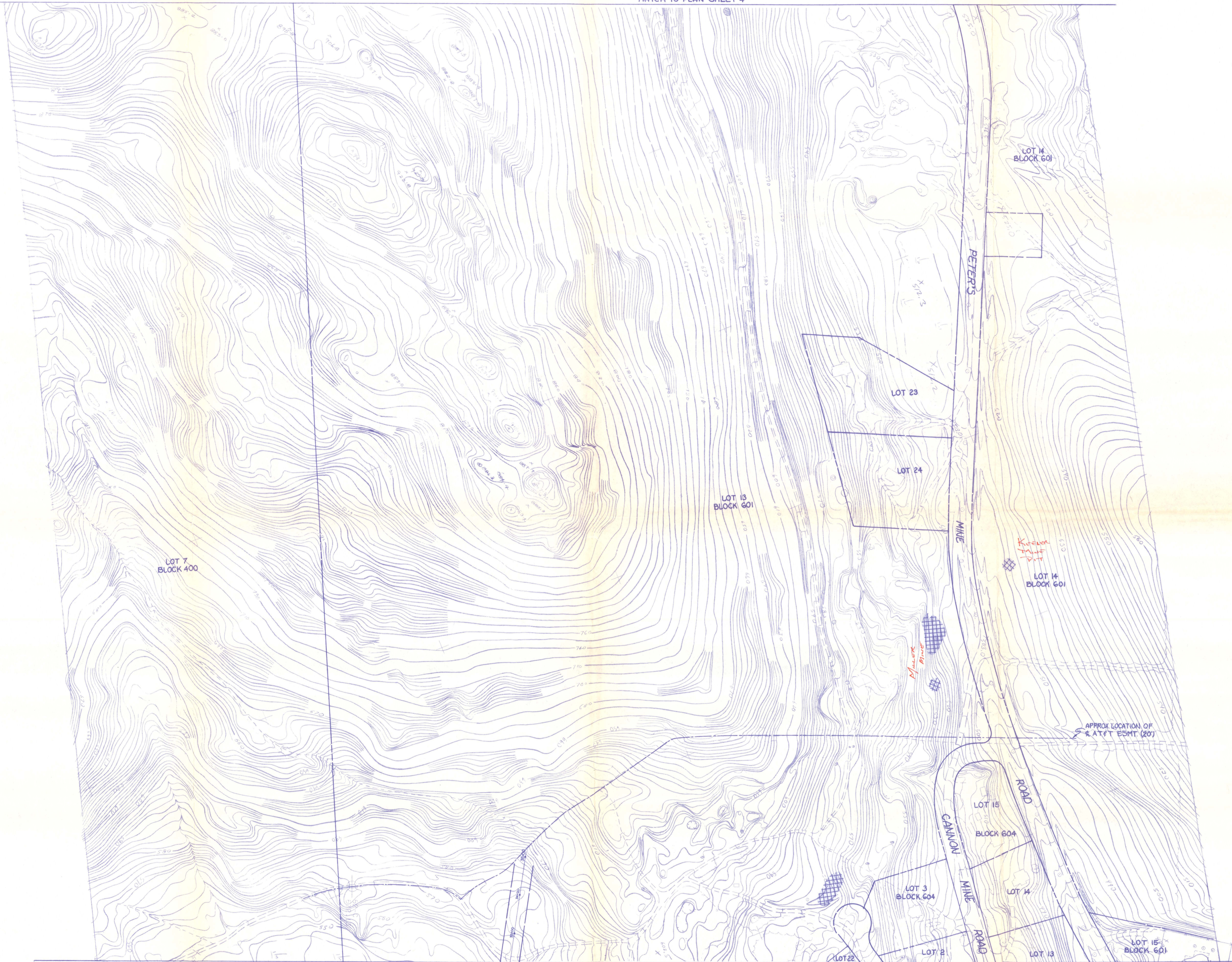
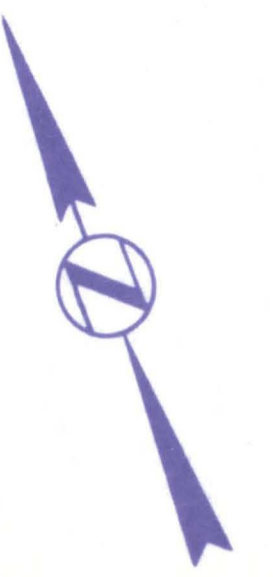
CLIENT:
BOROUGH OF RINGWOOD
 LOCATION:
RINGWOOD
PASSAIC CTY., NJ

DATE:
9/28/83
 DRAWN BY:
M.C.M.
 CHECKED BY:
G.N.H.

PLAN NO:
R-15

SHEET
2
 OF
5
 FILE NO.
P-480-031

MATCH TO PLAN SHEET 4



MATCH TO PLAN SHEET 2

CURVE DATA	P.C.	P.T.	R	L	Δ	T	E

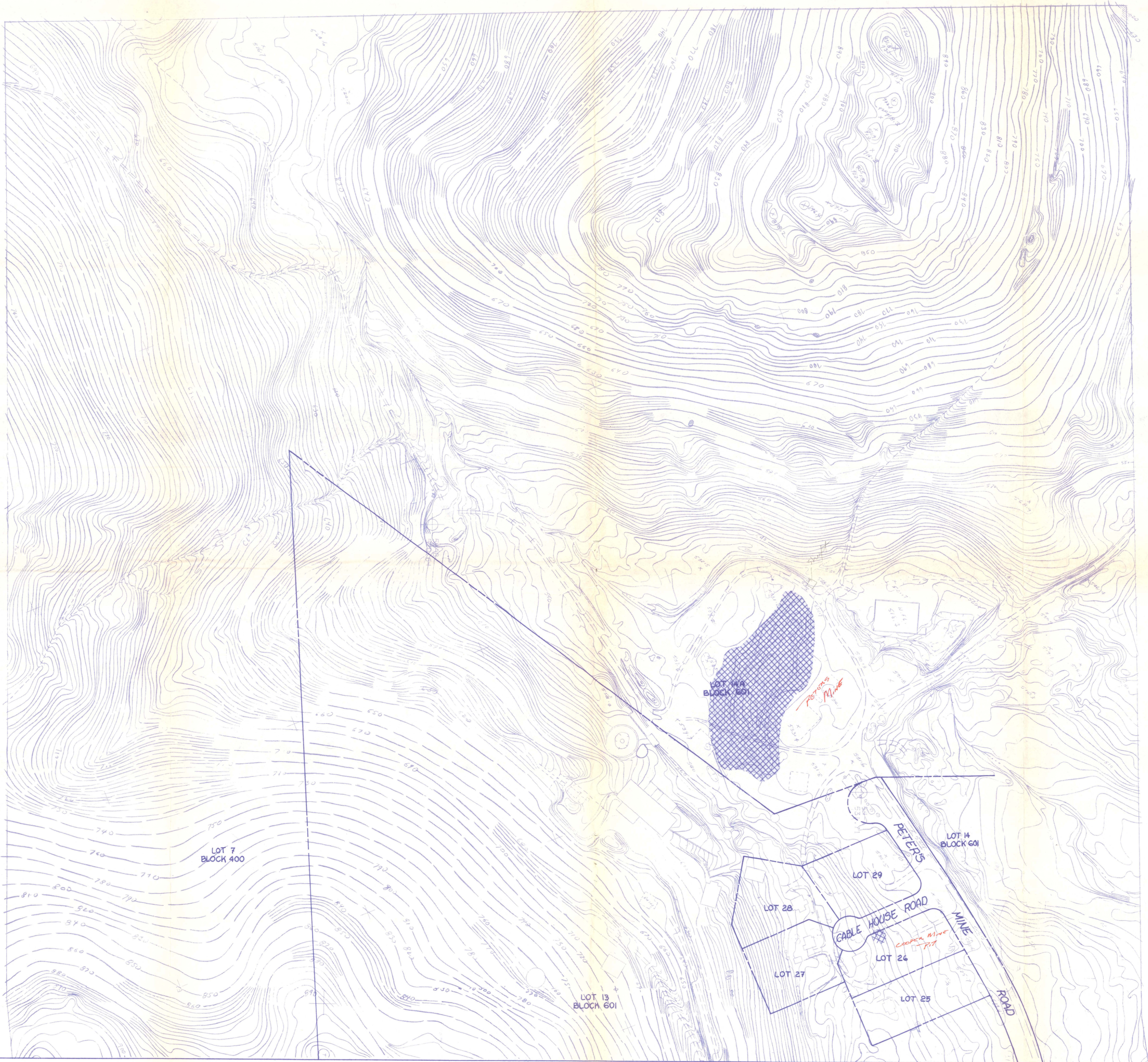
REVISIONS	DATE	BY

RICHARD A. ALAIMO
ENGINEERING ASSOCIATES
 CONSULTING ENGINEERS
 200 HIGH STREET
 505 KINGS HIGHWAY
 TWO MARKET STREET
 MOUNT HOLLY, N.J.
 CHERRY HILL, N.J.
 PATERSON, N.J.

INDUSTRIAL TRACT DEVELOPMENT
PLAN SHEET 3
 SCALE: 1" = 100'

CLIENT:
BOROUGH OF RINGWOOD
 LOCATION:
 RINGWOOD
 PASSAIC CTY., N.J.
 PLAN NO:
R-15

DATE:
4/20/83
 DRAWN BY:
R.M.Z.
 CHECKED BY:
G.N.H.
 SHEET
3
 OF
5
 FILE NO.
P-480-031



MATCH TO PLAN SHEET 3

REVISIONS	DATE	BY

RICHARD A. ALAIMO
ENGINEERING ASSOCIATES
 CONSULTING ENGINEERS
 200 HIGH STREET
 365 KINGS HIGHWAY
 TWO MARKET STREET
 MOUNT HOLLY, N.J.
 CHERRY HILL, N.J.
 PATERSON, N.J.

INDUSTRIAL TRACT DEVELOPMENT
PLAN SHEET 4
 SCALE: 1" = 100'

CLIENT: BOROUGH OF RINGWOOD	DATE: 4/20/83	SHEET 4
LOCATION: RINGWOOD PASSAIC CTY., N.J.	PLAN NO: R-15	DRAWN BY: R.M.Z.
	CHECKED BY: G.N.H.	FILE NO. P-480-031

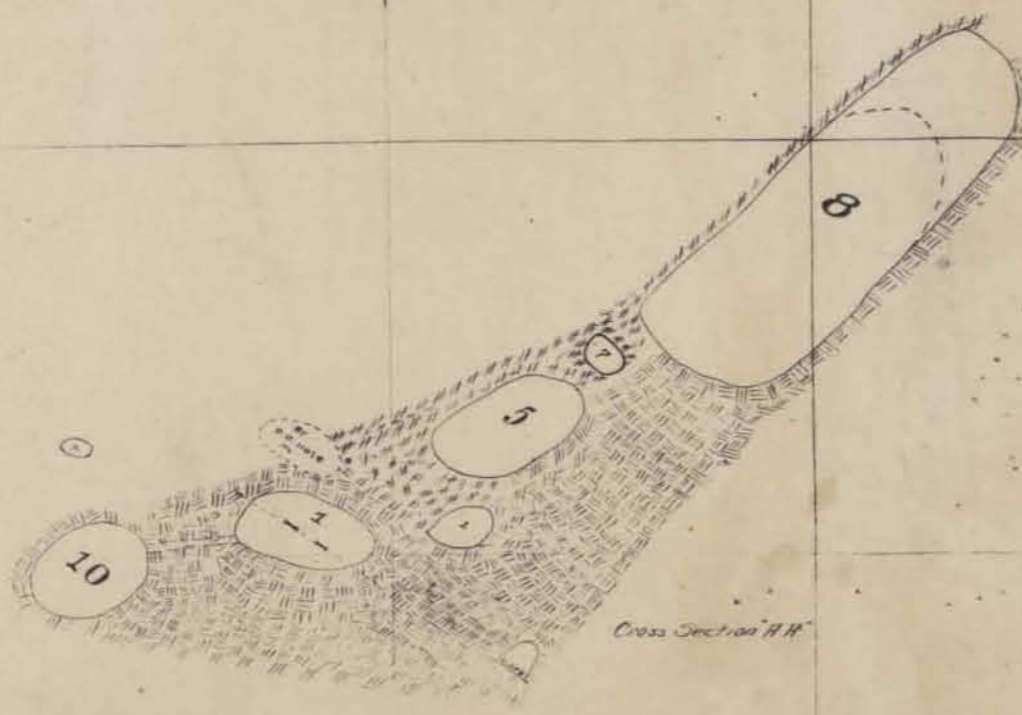
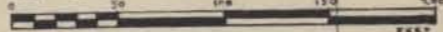


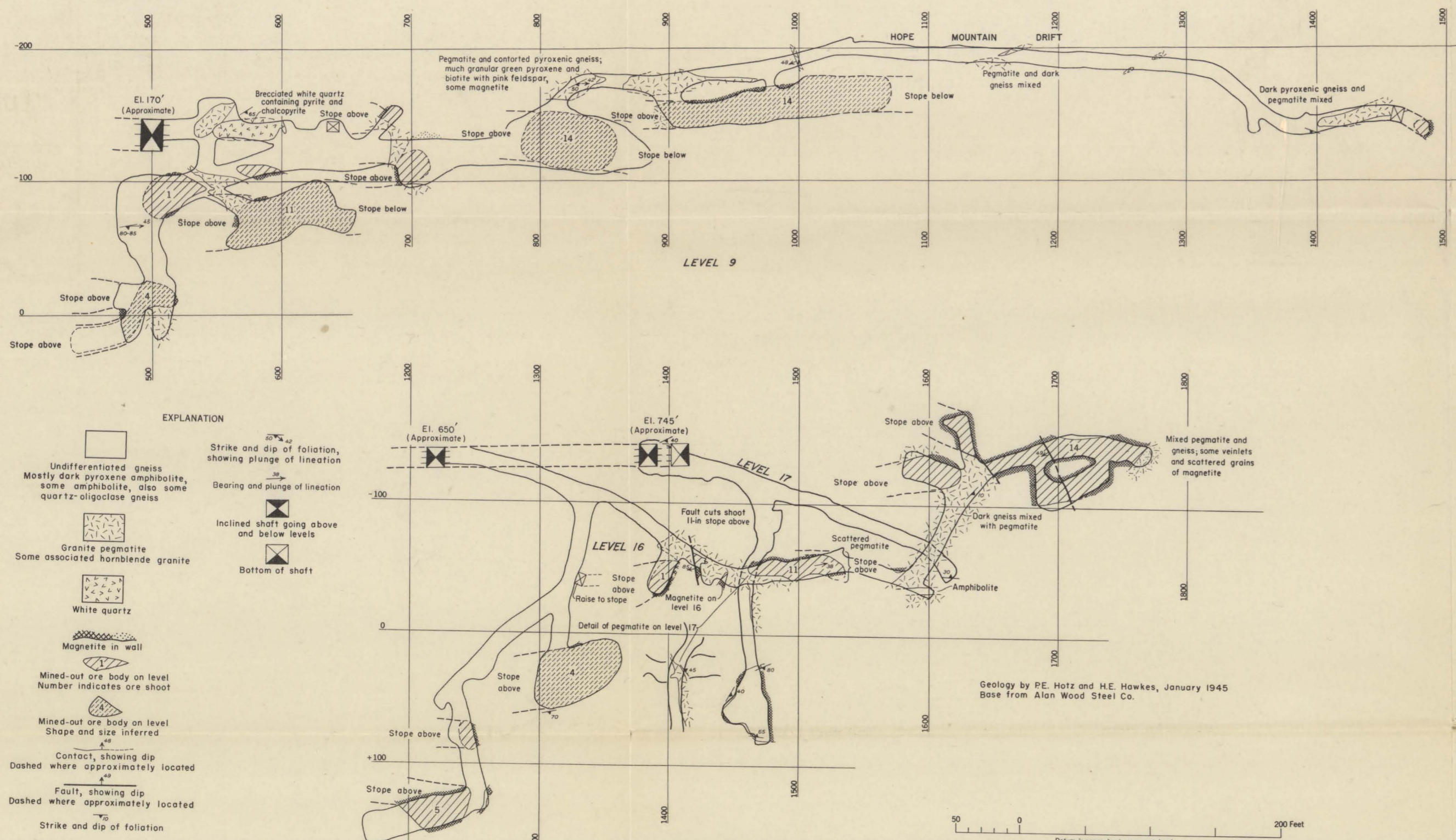
ELEVATION
 OF
PETERS MINE
 RINGWOOD
 N.J.
 1914

SCALE 1" = 40'

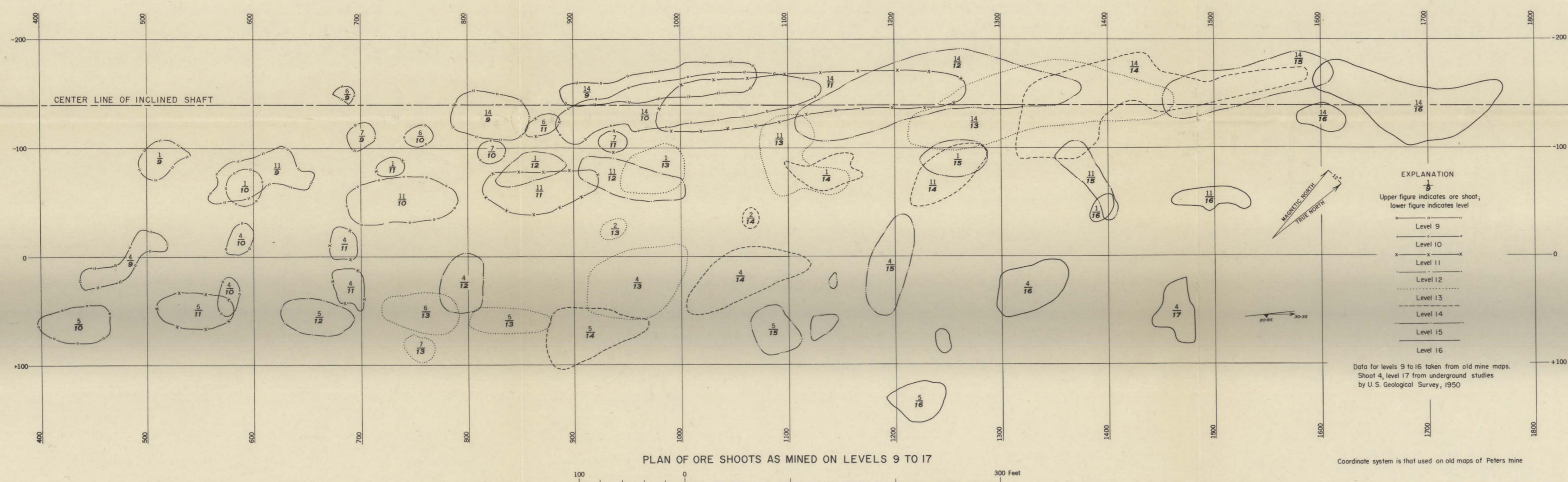
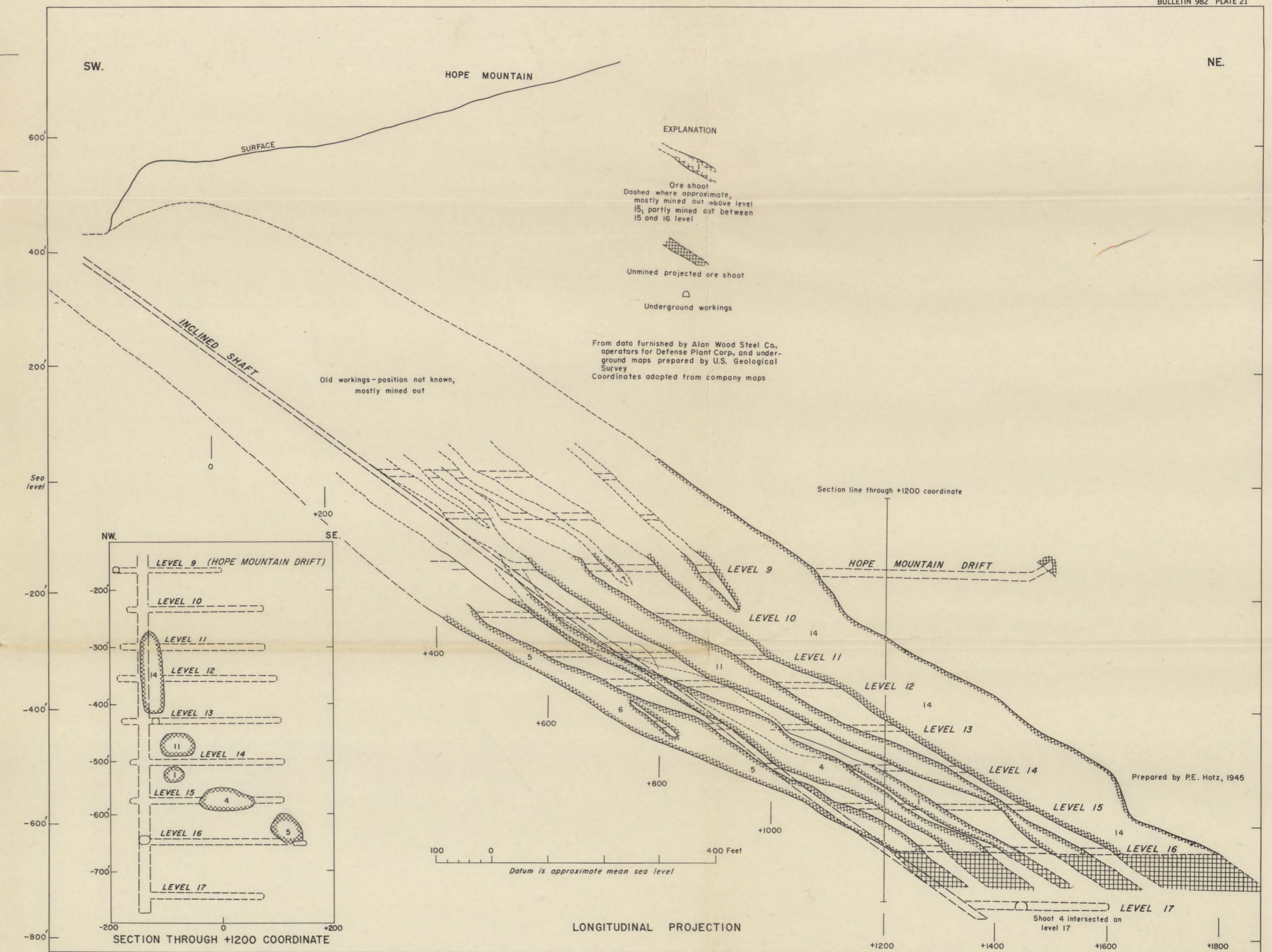
GEO. E. JENNINGS &
 ENGINEERS
 DOVER, N.J.

REVISED TO JUNE 15 1931

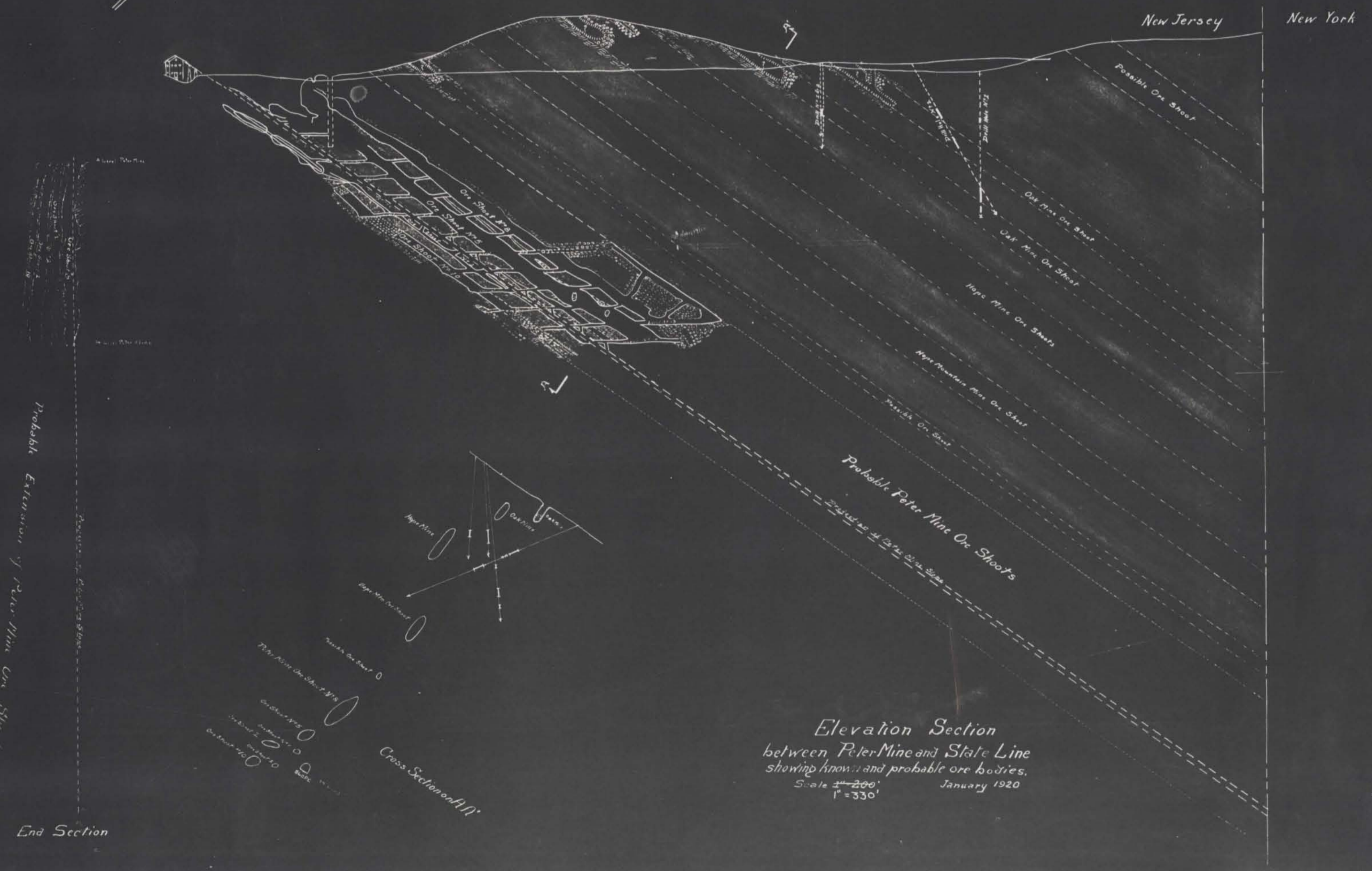
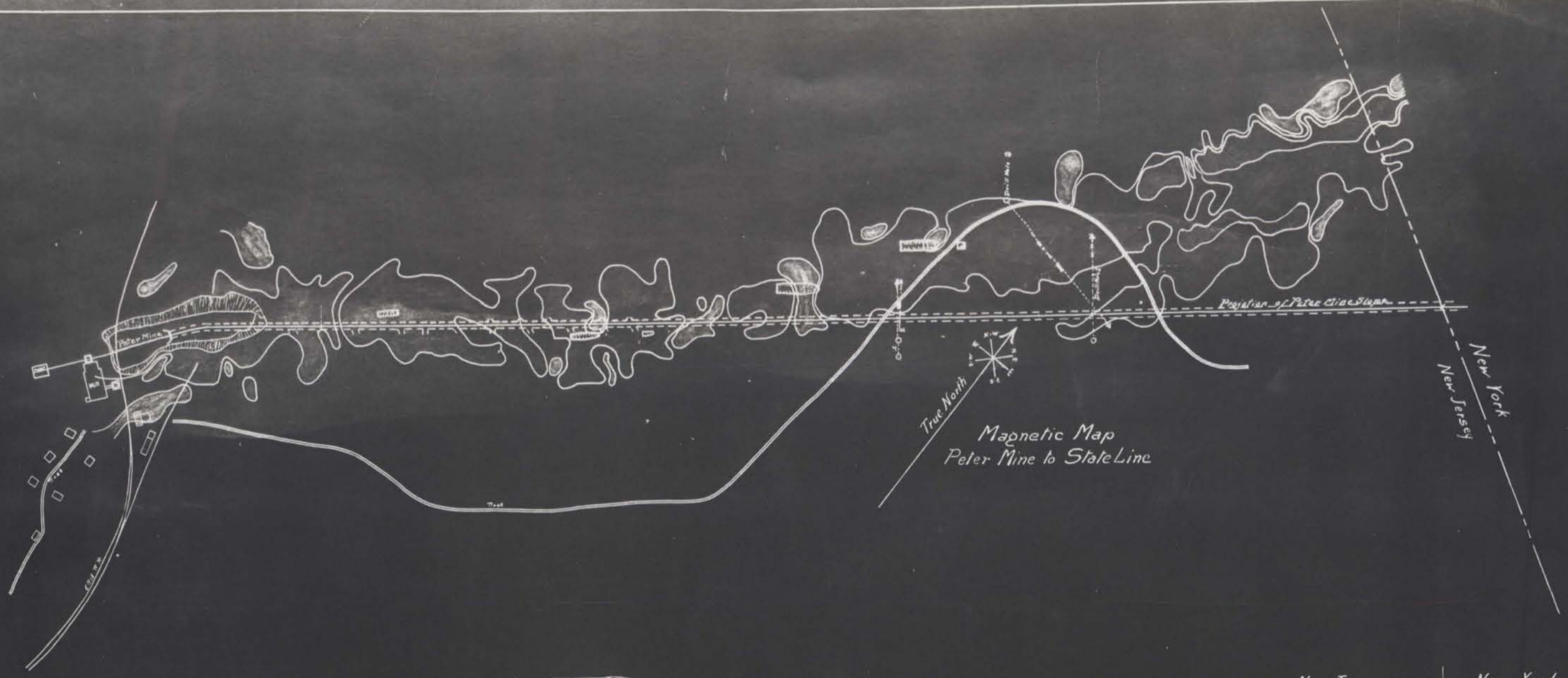




GEOLOGIC MAP OF LEVELS 9, 16, AND 17



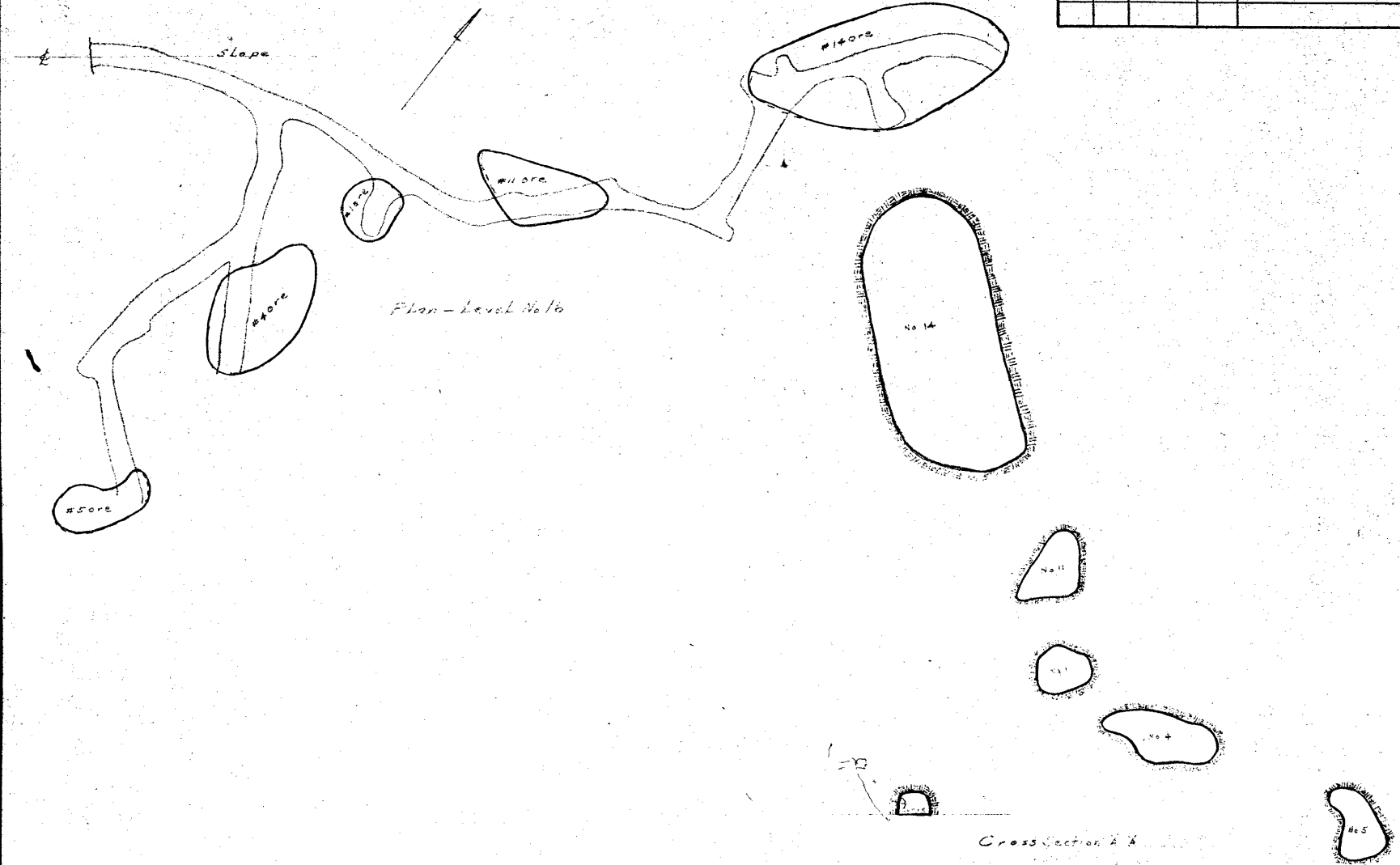
GEOLOGIC MAPS, PROJECTION, SECTION, AND PLAN OF PETERS MINE, RINGWOOD DISTRICT, PASSAIC COUNTY, NEW JERSEY



Elevation Section
between Peter Mine and State Line
showing known and probable ore bodies.
Scale 1" = 200'
1" = 330' January 1920



MATERIAL LIST				
ITEM	No. REQ'D	SIZE OR W.GHT	MAT. ERIAL	DESCRIPTION

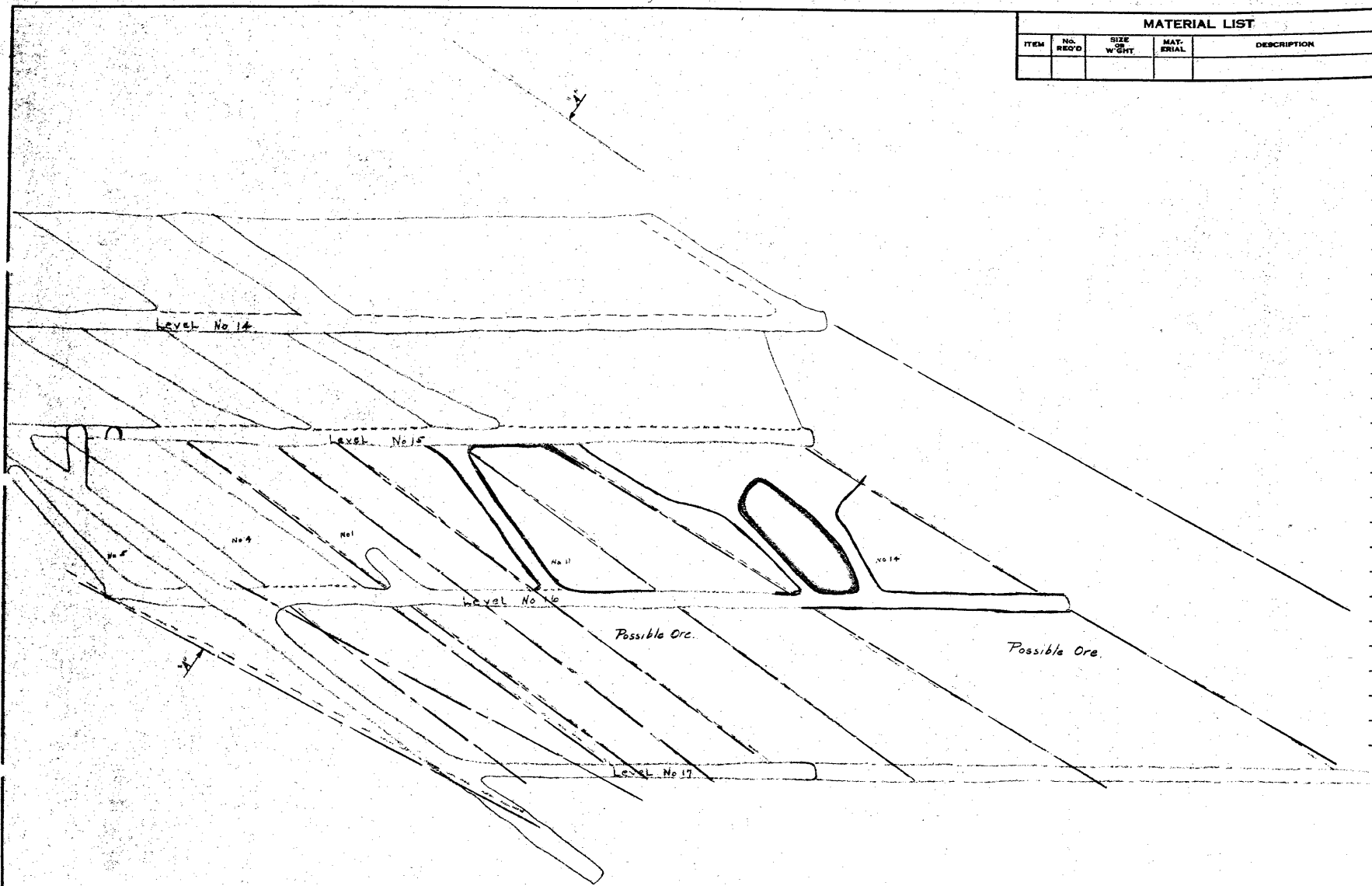


DERIVATIONS		REVISIONS			
A. W. & CO. NUMBER	No.	DATE	REMARKS	BY	

ALAN WOOD STEEL COMPANY CONSHOHOCKEN, PENNA.	
DATE 4-12-44	SCALE 1"=1'
DWG. T.S.H.	NUMBER 8
TR'CD	
CHK'D	
APPROVED [Signature]	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION. CH. ENG.

N.J.G.S 03145 109 17X 354206

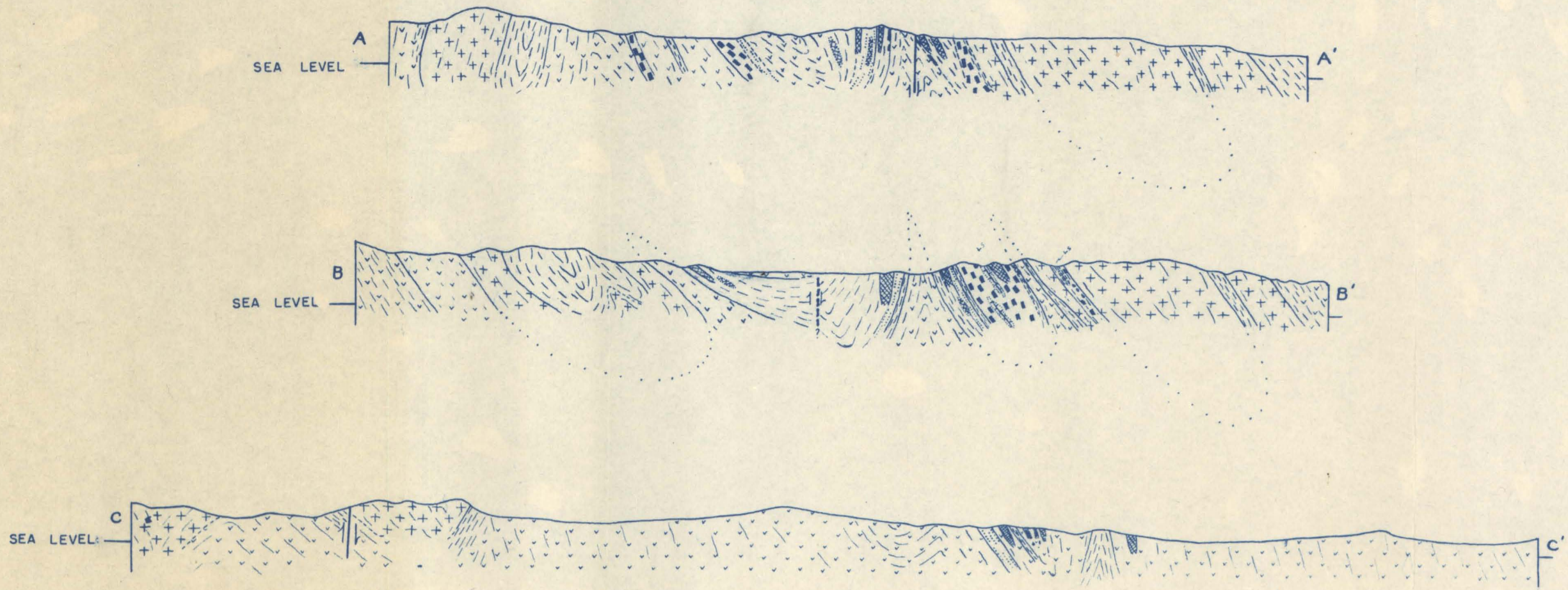
MATERIAL LIST				
ITEM	No. REQ'D	SIZE OR WGT.	MAT. ERIAL	DESCRIPTION



DERIVATIONS		REVISIONS			
A. W. & CO. NUMBER	No.	DATE	REMARKS	BY	

ALAN WOOD STEEL COMPANY CONSHOHOCKEN, PENNA.		
DATE	4-12-44	SCALE
DWG.	T. J. H.	1"=40'
TRCD		NUMBER
CHK'D		9
APPROVED	NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.	
	CH. ENG.	

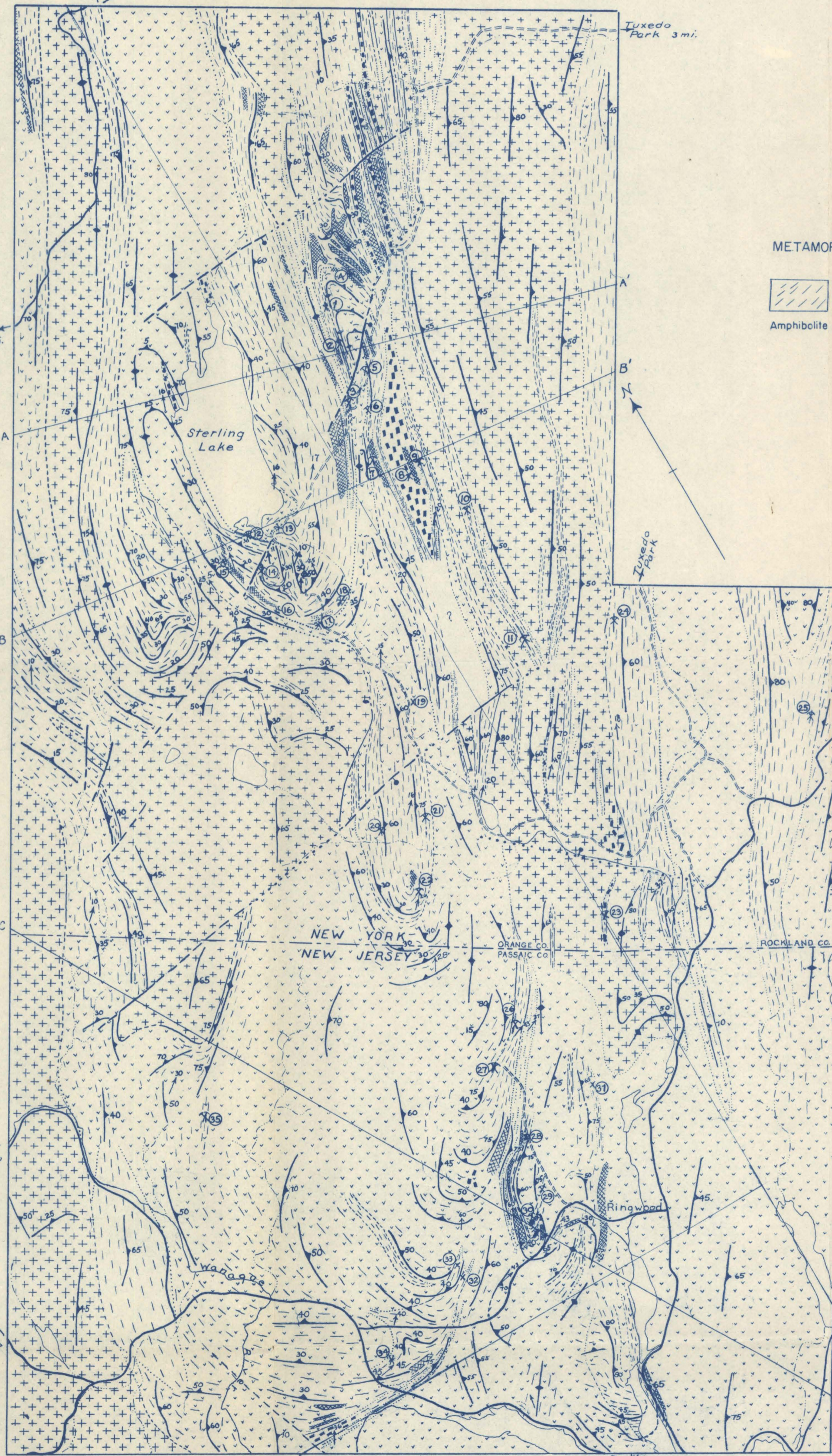
NJGS 03145 110 17X 354207



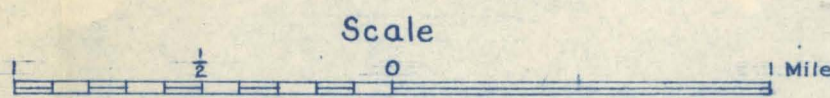
MINES AND PROSPECTS

1. Smith shaft
2. Mountain Mine
3. Crossway (Couseway) Mine
4. Long Mine
5. Scott Mine
6. Cook Mine
7. Augusta Mine
8. Middle Mine
9. Hard Mine
10. Alice Mine
11. Red-back Mine
12. Lake and Sterling Mines
13. Wildcat prospect
14. Tip Top Mine
15. Summit Mine
16. Upper California Mine
17. Lower California Mine
18. Whitehead Mine
19. Shaft-by-railroad prospect
20. Brennan Mine
21. Crawford Mine
22. Steele Mine
23. Snyder Mine
24. Morehead Mine
25. Bering Mine
26. Oak-Hope Mountain Mine group
27. Peters Mine
28. Keeler-Miller-Saint George group
29. Bush-Ward group
30. Cannon Mine group
31. Prospect (no name)
32. Hickory Valley prospect
33. Hickory Mountain prospect
34. Board (Schermerhorn) prospect
35. Patterson Mine

- ⊗ Mine
- ⊗ Prospect

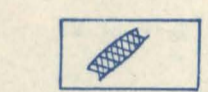


Geology by Preston E. Hotz
August 1944

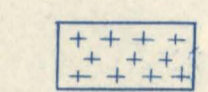


EXPLANATION

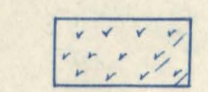
IGNEOUS ROCKS



Potash pegmatite
(in lenses)

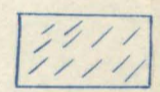


Byron granite gneiss
Potash (microcline) granite

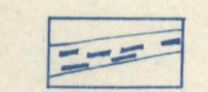


Leseo gneiss
Soda (plagioclase) granite

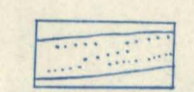
METAMORPHOSSED SEDIMENTARY ROCKS



Amphibolite

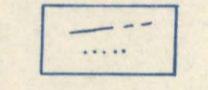


Pyroxene skarn



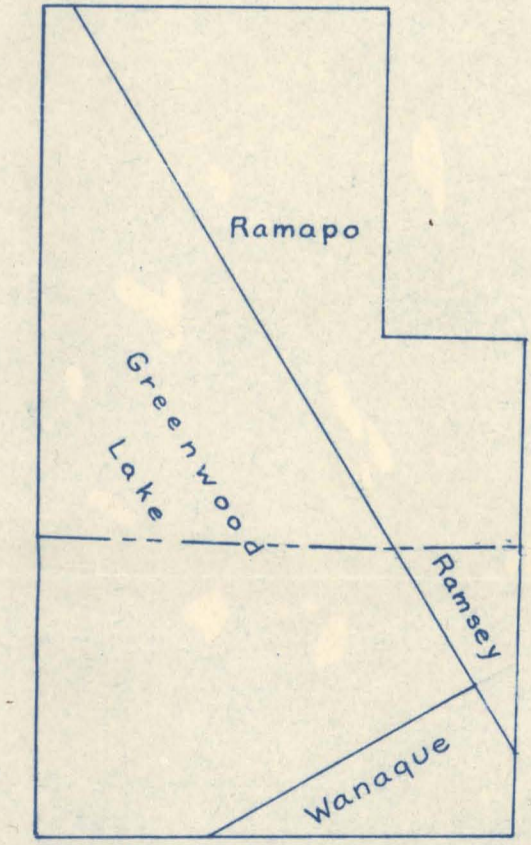
Biotite gneiss

MINERAL DEPOSITS



Magnetite

- 50
Average strike and dip of foliation
- 15
Direction and magnitude of plunge of lineation
- Accurately located geologic boundary
- - -
Closely inferred geologic boundary
- · · · ·
Probable position of inferred geologic boundary
- |—
Known fault (symbol on down-dropped side)
- - -
Probable fault
- - -
Inferred fault or established fault concealed by surface deposits
- Major stream
- - -
Tributary stream
- Principal road
- - -
Secondary road
- |—
Intersection of Greenwood Lake, Ramsey and Wanaque quadrangles



Parts of quadrangles shown on geologic map

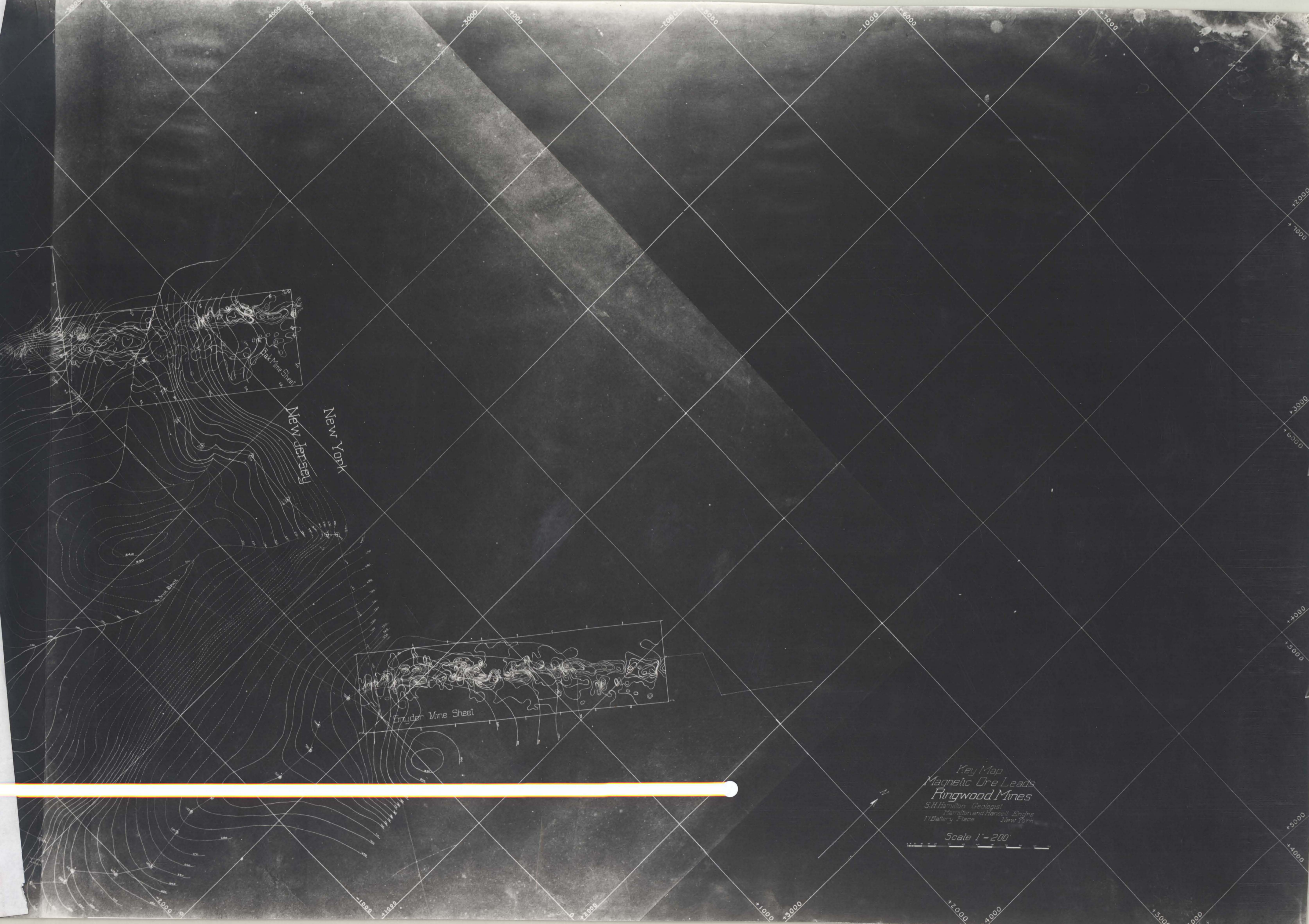
Ramapo compiled from base map by U. S. Geological Survey, scale: 1/62,500

Ramsey compiled from base map by U. S. Geological Survey, scale: 1/31,680

Greenwood Lake compiled from base map by Corps. of Engineers, U.S. Army, scale: 1/31,680

Wanaque compiled from base map by Corps. of Engineers, U.S. Army, scale: 1/25,000

Preliminary Geologic Map of the
STERLING-RINGWOOD MAGNETITE DISTRICT
NEW YORK-NEW JERSEY



Pak Mine Sheet

New Jersey
New York

Bryder Mine Sheet



Key Map
Magnetic Ore Leads
Ringwood Mines
S.H. Hamilton, Geologist
Hamilton and Hansell, Engrs
11 Battery Place, New York

Scale 1" = 200'





CANNON MINE

PETERS MINE

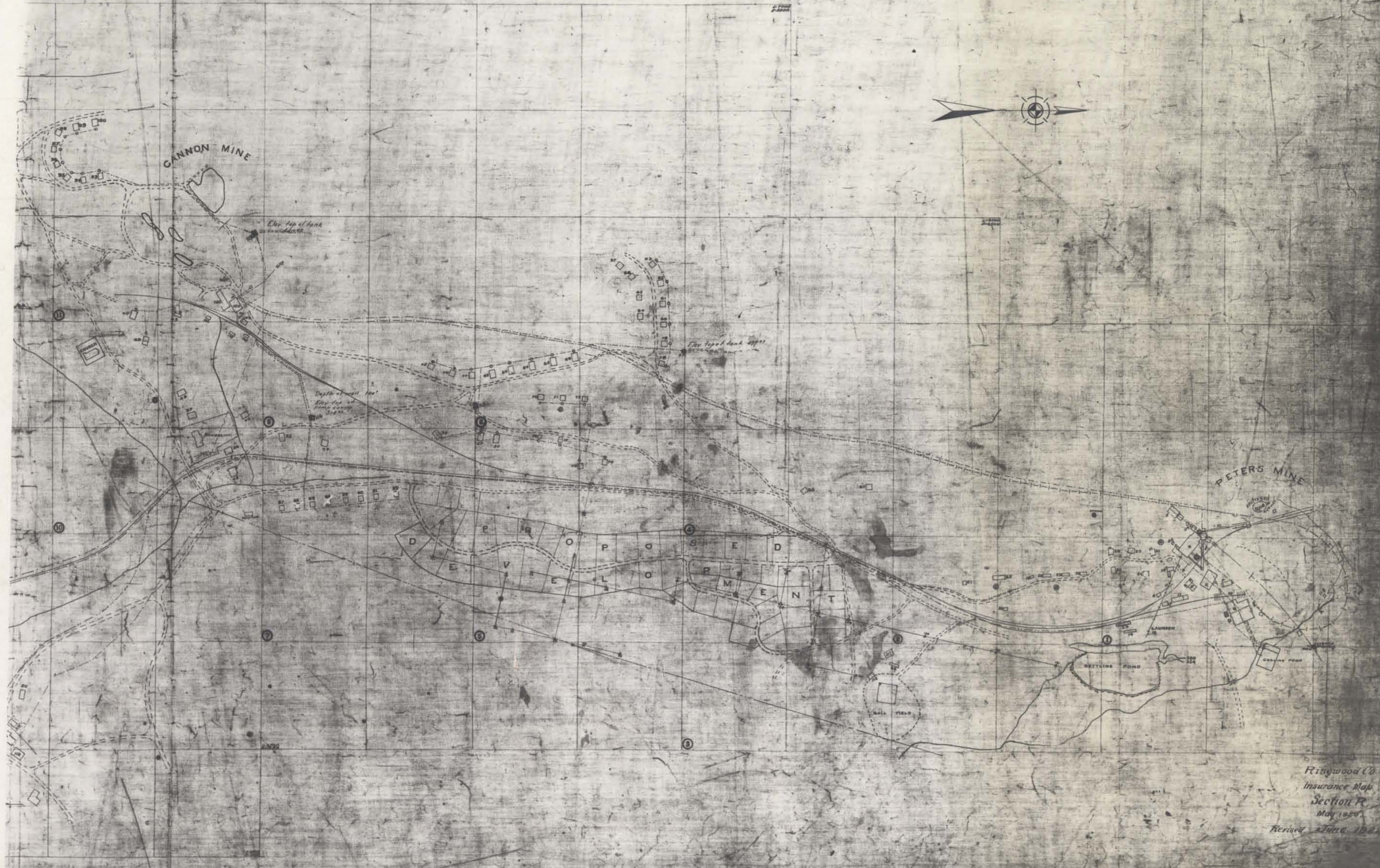
P R O P E R T Y
D E V E L O P M E N T

BETHUNE POND

BALL FIELD












Ringwood Co.
Insurance Map
Section R

May 1924
Revised June 1927



6-11-1919

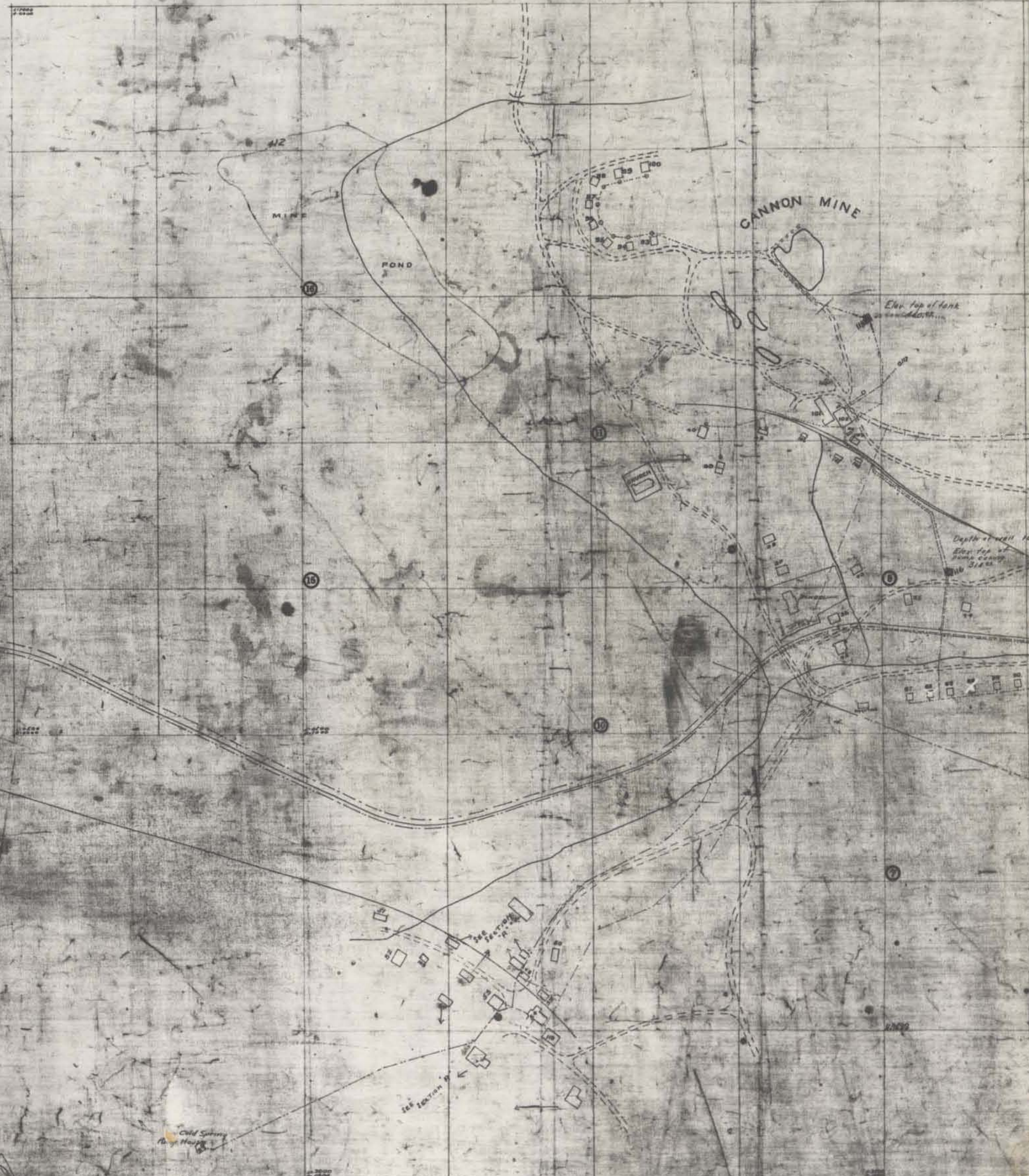
LEGEND

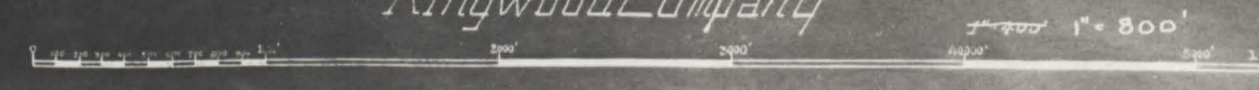
-  R.R. LINE
-  ROADS
-  ELECTRIC LINE
-  WATER
-  AIR
-  COMPLETED SECTIONS 20' x 1"
-  PUMPS
-  WATER TOWER
-  SPRINGS
-  PROPERTY LINE
-  MINE HOLES

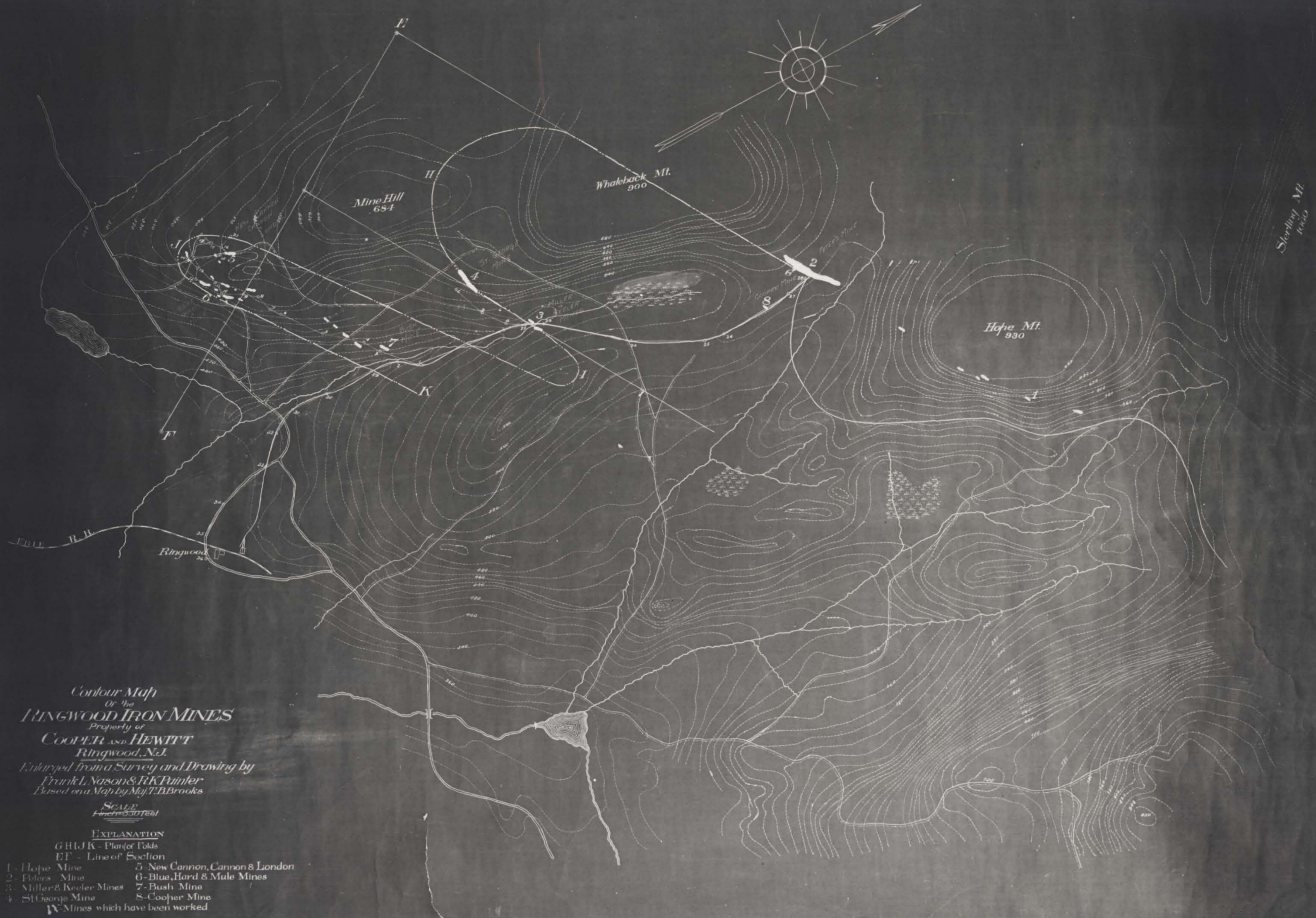
NOTE

No Buildings for
 The following Nos.
 40-47-49-50-56
 No. 4 changed to No. 51
 Last No. used 120
 Next to be used 121

INSURANCE MAP
 OF THE
RINGWOOD CO.
 RINGWOOD N.J.
 REVISED OCT. 1919 - SCALE 200' = 1"







Contour Map
 Of the
RINGWOOD IRON MINES
 Property of
COOPER AND HEWITT
 Ringwood, N.J.

Enlarged from a Survey and Drawing by
 Frank L. Nason & R.K. Painter
 Based on a Map by Maj. T.B. Brooks

SCALE
 1 inch = 100 feet

EXPLANATION

- GHJK - Plan of Folds
- EF - Line of Section
- 1 - Hope Mine
- 2 - Elders Mine
- 3 - Miller & Keeler Mines
- 4 - St. George Mine
- 5 - New Cannon, Cannon & London
- 6 - Blue, Hard & Mule Mines
- 7 - Bush Mine
- 8 - Cooper Mine
- X - Mines which have been worked

1" = 550'





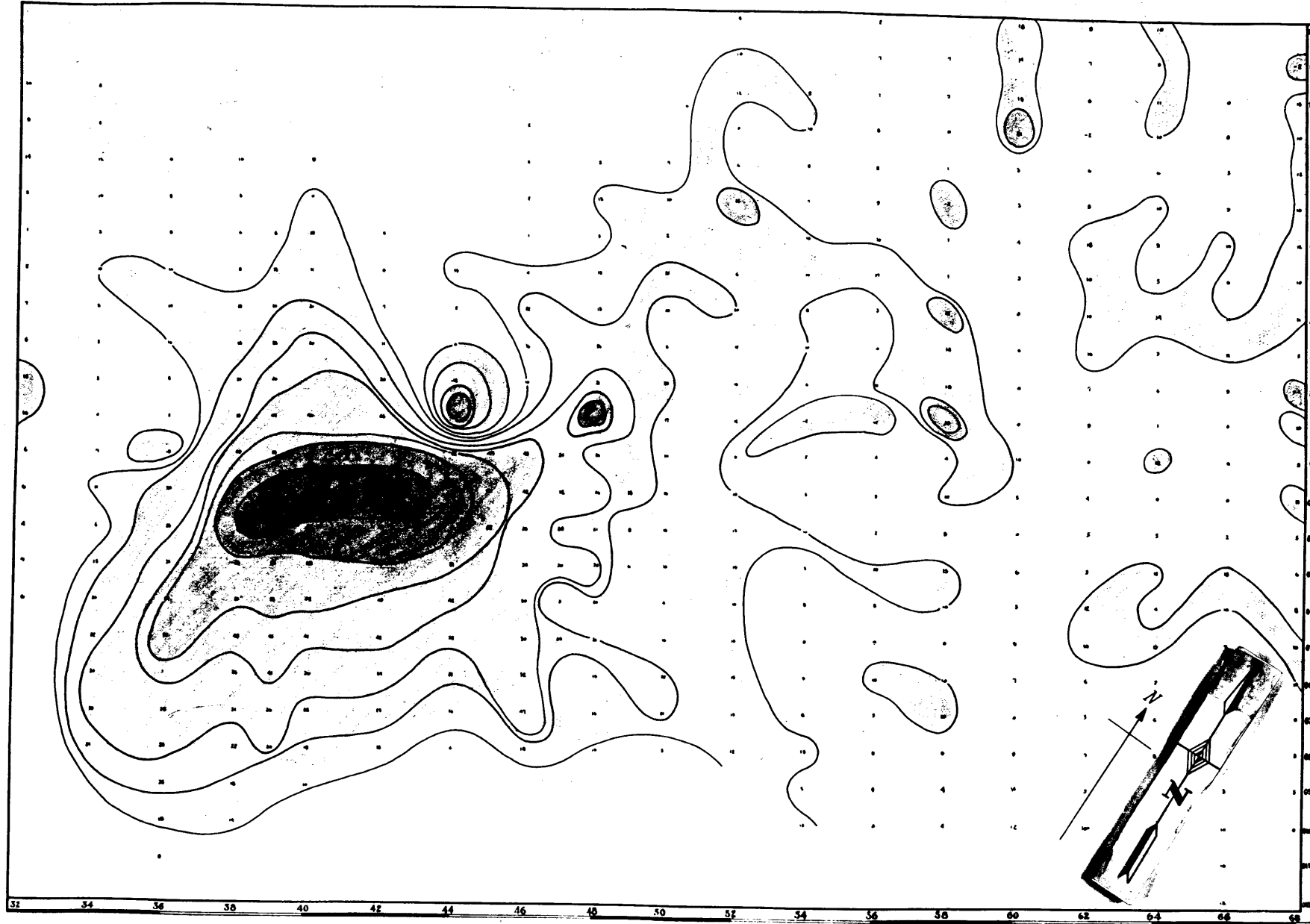
Whalback Mountain

Hope Mt. Summit

Copper Mine Summit

Miller Run Summit





Scale 1" = 50'



*Magnetic Reconnaissance
Cooper Mine.
Ringwood, N.J.
by S.H. Hamilton, Geologist. Aug. 1912.
Hamilton and Hansell, Engineers.
17 Battery Place, New York.*

NJGS

03145

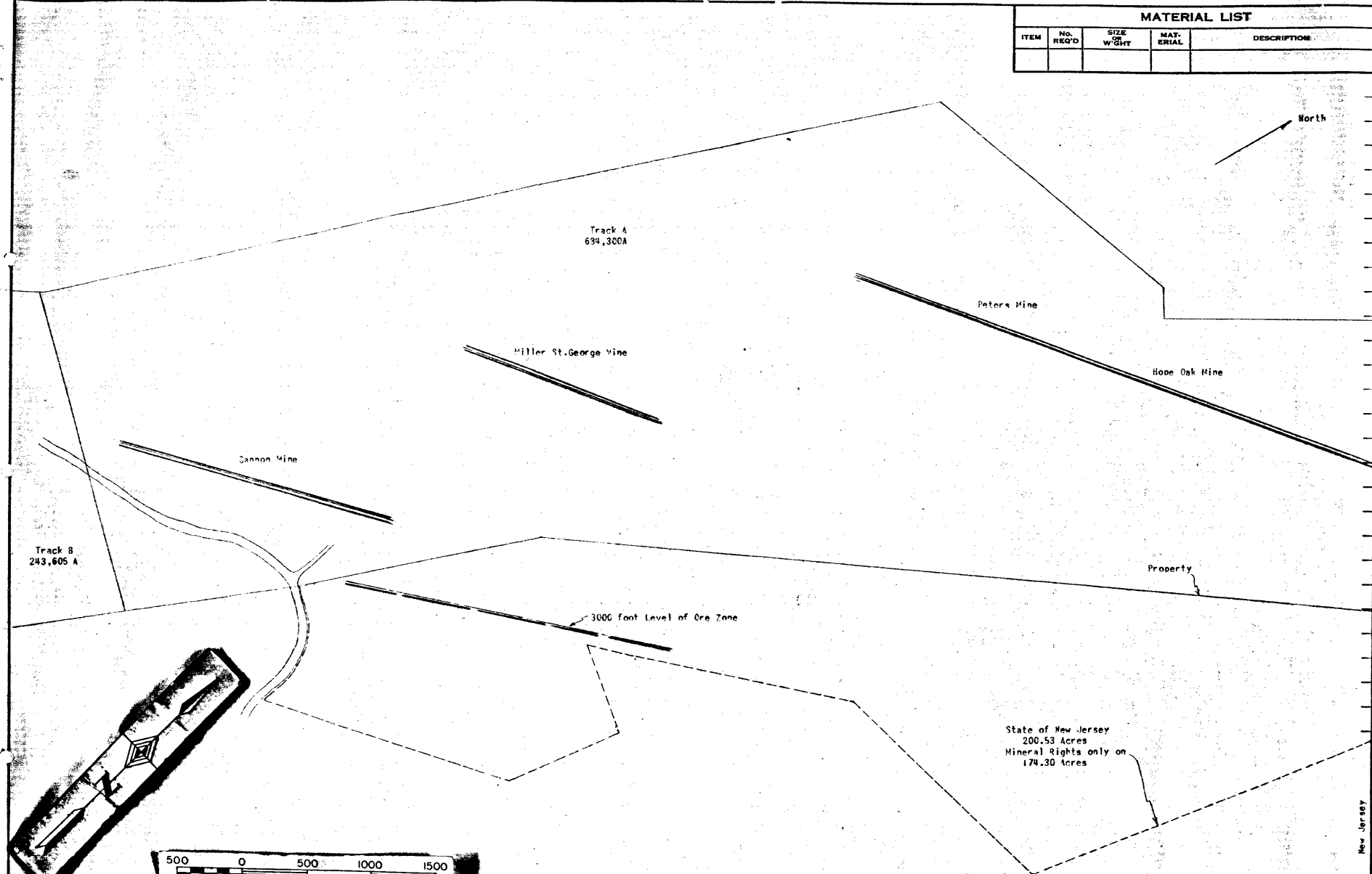
44

15X

354148

MATERIAL LIST

ITEM	No. REQ'D	SIZE OR WGT	MAT. ERIAL	DESCRIPTION

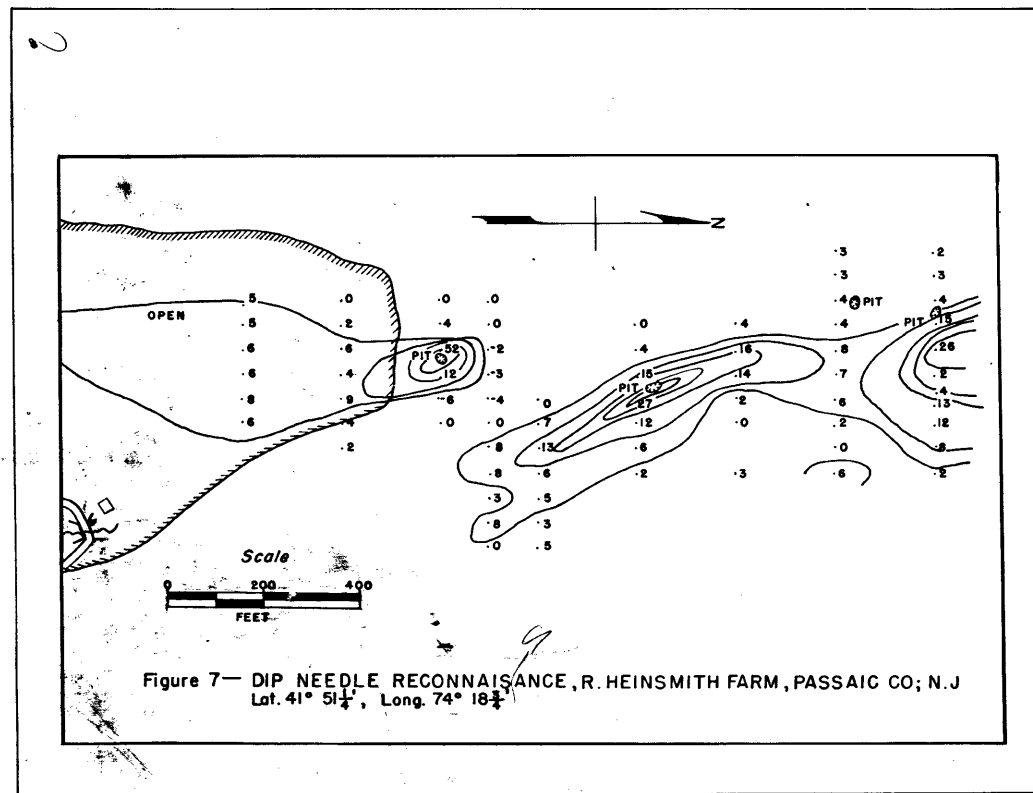


DERIVATIONS		REVISIONS			
A. W. S. CO. NUMBER	No.	DATE	REMARKS	BY	

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

DATE	RINGWOOD MINE PROPERTY AND MUNICIPAL RIGHTS MAP SURFACE WORKINGS	SCALE 1" = 500'
DWG.		NUMBER
TR'CD		2
CHK'D		
APPROVED		NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.
CH. ENG.		

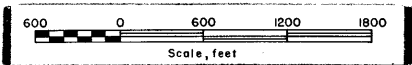
NJGS 03145 100 16X 354197



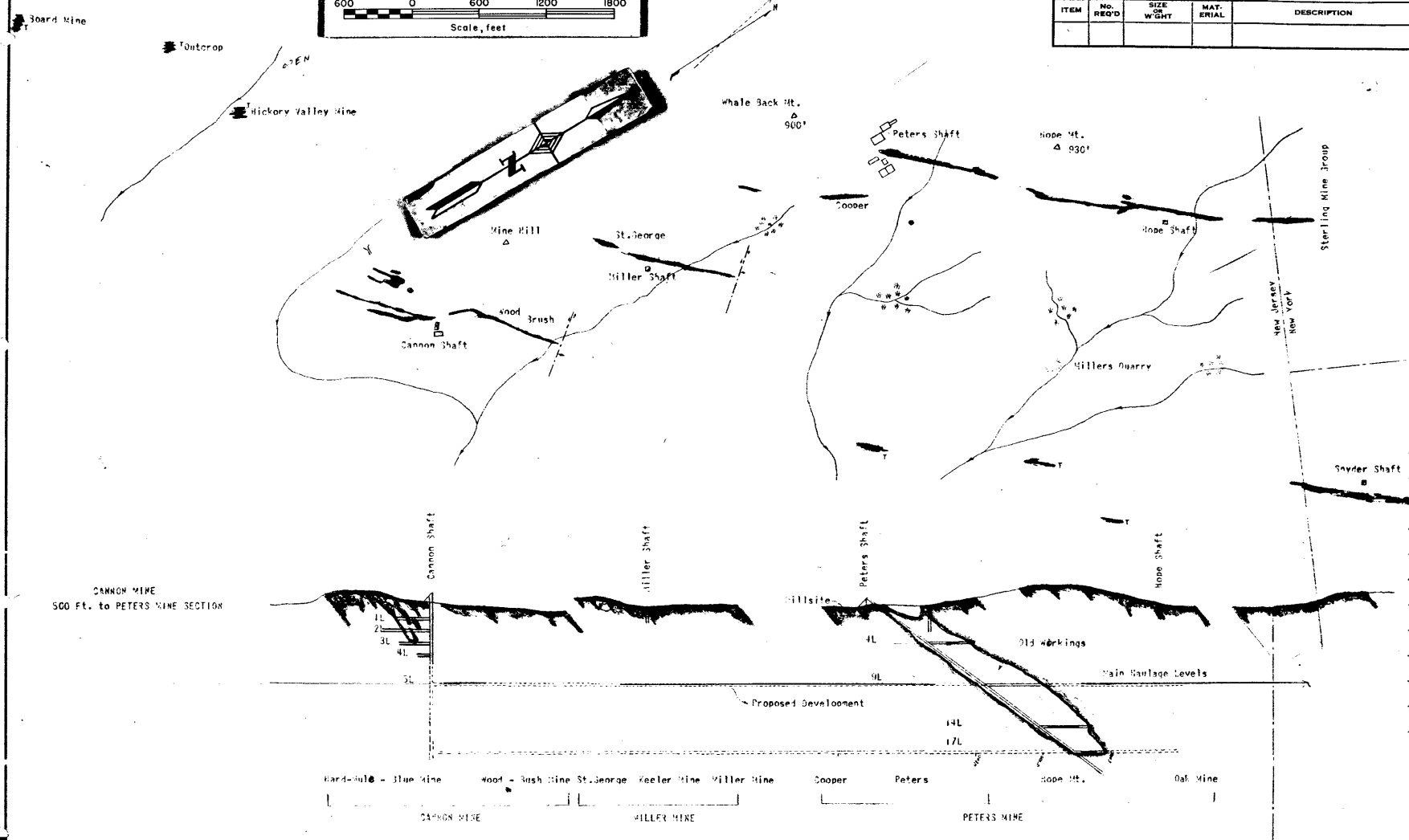
4 2007

30002 396 | 14.5:1 | 300825

To Monts Mine = 3000 Ft.



MATERIAL LIST				
ITEM	NO. REQ'D	SIZE OR WGT	MAT. ERIAL	DESCRIPTION



DERIVATIONS		REVISIONS		
A. W. S. CO. NUMBER	No.	DATE	REMARKS	BY

ALAN WOOD STEEL COMPANY
CONSHOHOCKEN, PENNA.

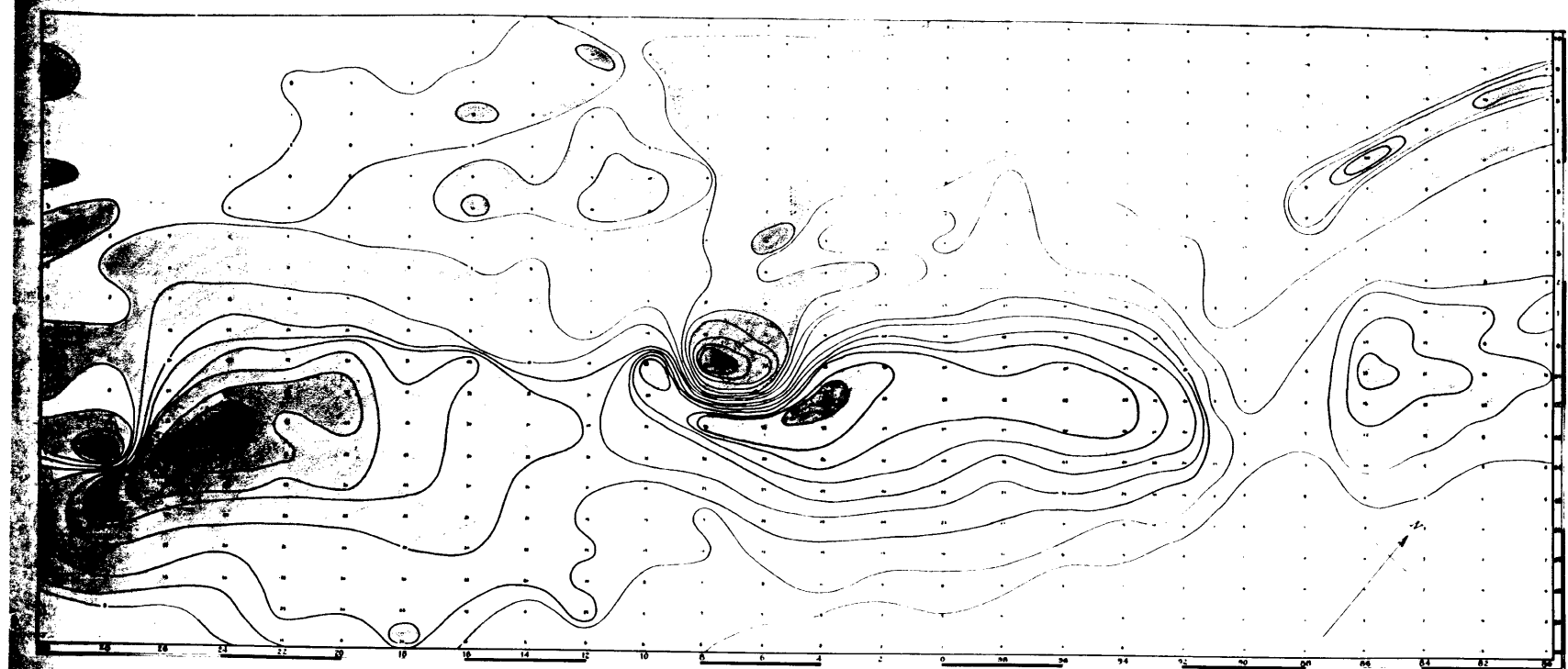
**GENERAL PLAN AND SECTION OF
RINGWOOD MINE AREA**

DATE: _____
DWG. NO.: _____
TR'CD: _____
CK'D: _____
APPROVED: _____
CH. ENG.

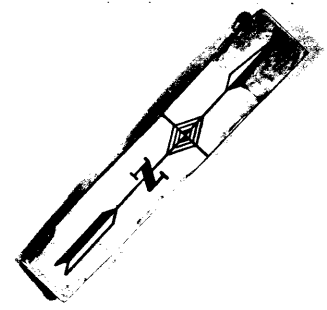
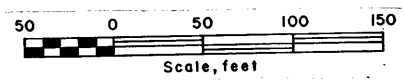
SCALE: APPROX. 500' = 1 Inch
NUMBER: 1

NOTE: THIS DRAWING IS LOANED AND REMAINS THE PROPERTY OF THE COMPANY, AND CANNOT BE REPRODUCED OR USED IN WHOLE OR PART EXCEPT BY ITS PERMISSION.

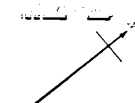
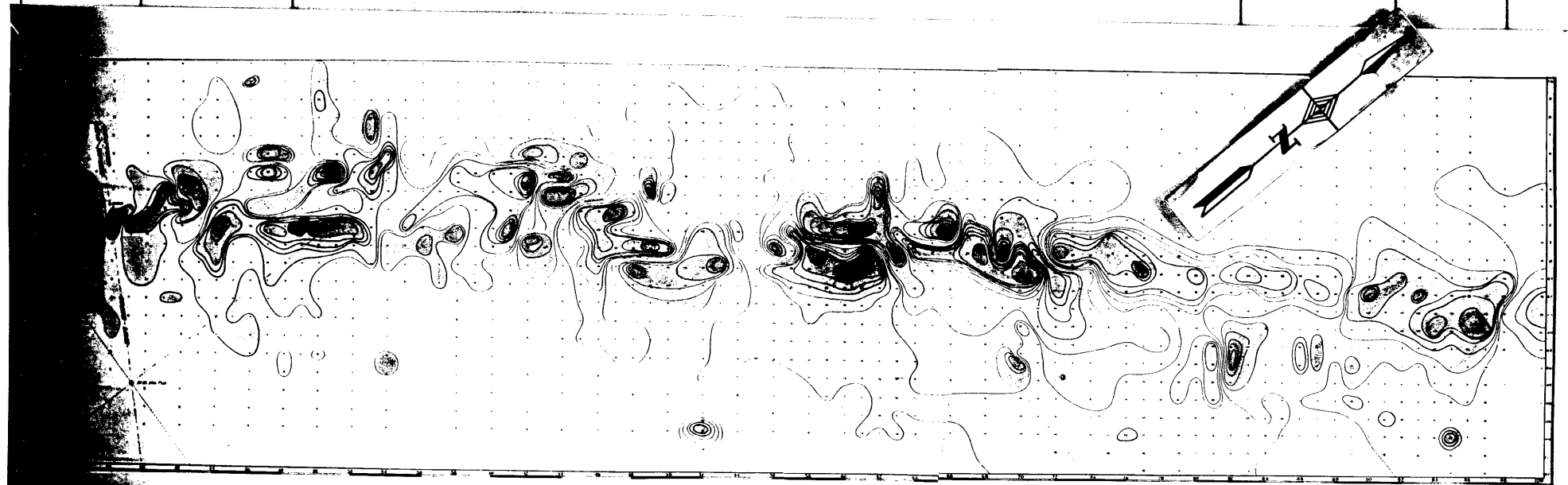
NJGS 03145 156 17X 354159



*Magnetic Reconnaissance
 Millertown Mines
 Ringwood, N.J.*
 by G. H. Hamilton, Geophysicist Aug 1917
 Hamilton and Harwood, Engineers
 110 Madison Place, New York



NJGS 03145 51 16X 354155



Magnetic Reconnaissance
Snyder Mine
Orange County, New York
Fingwood Co.
S. J. Fingwood, Geophysicist, Syracuse, N.Y.
1944

NJGS

03145

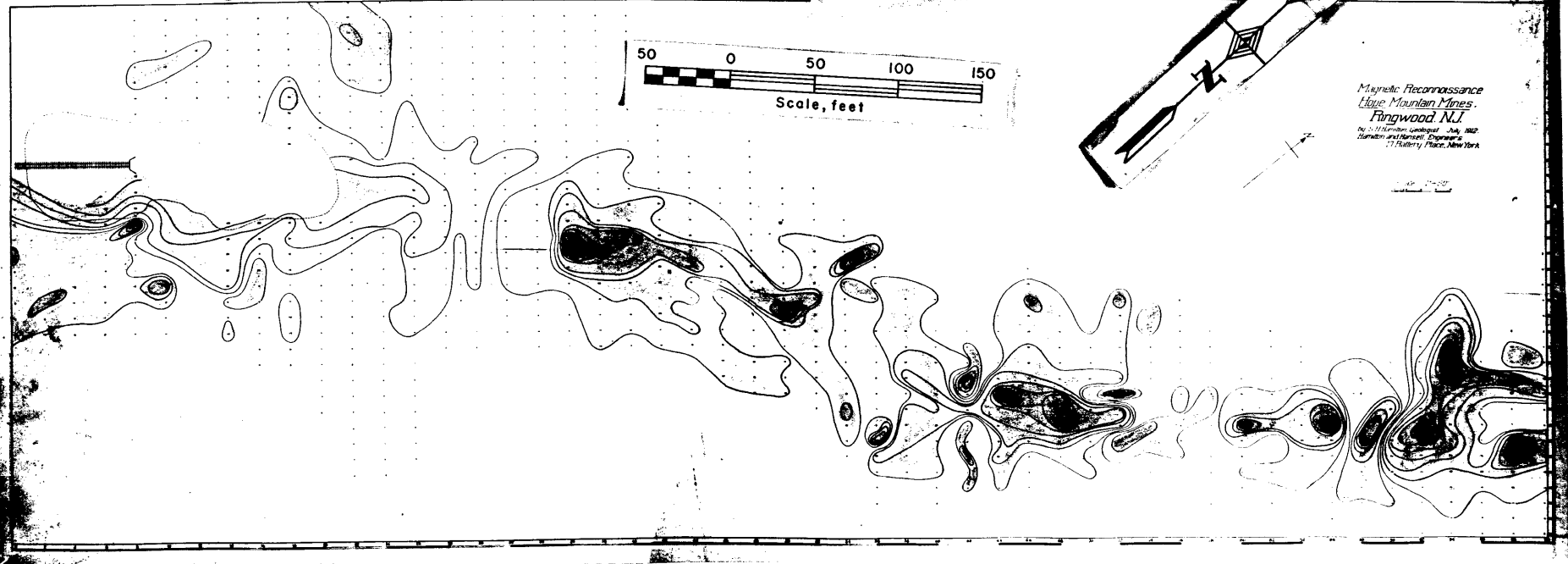
45

14.5X

354149

30
30

22
22



NJGS

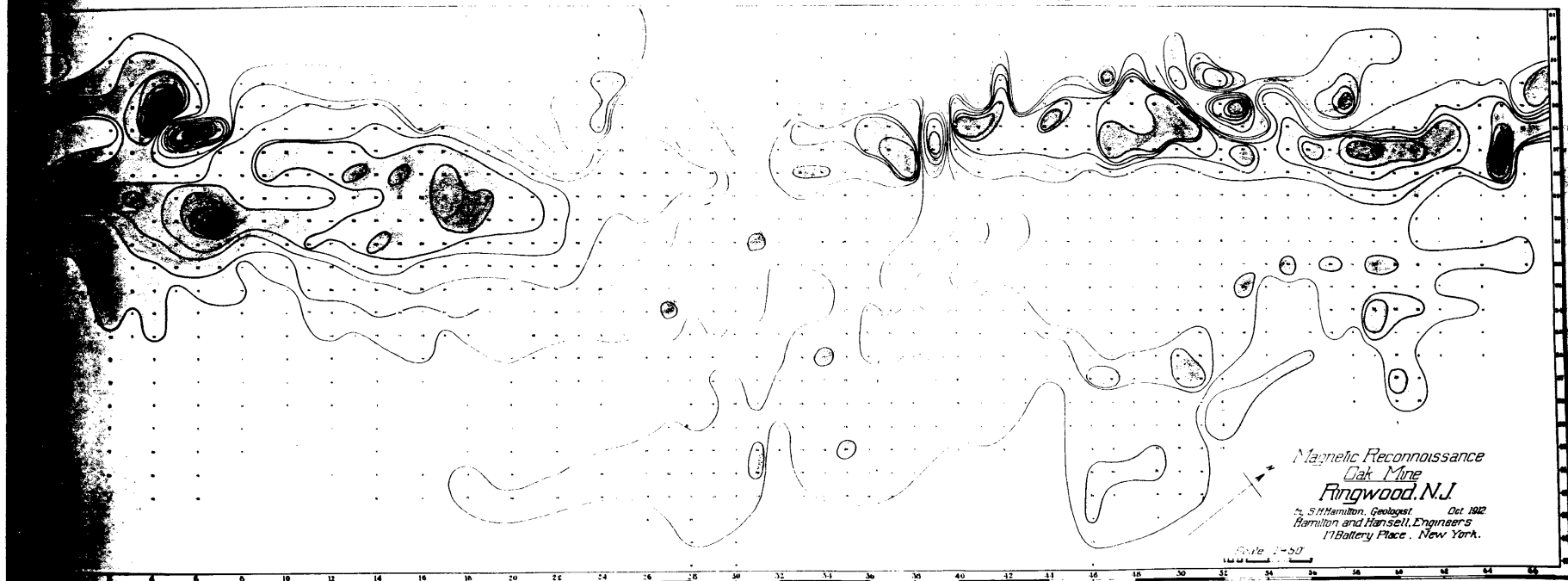
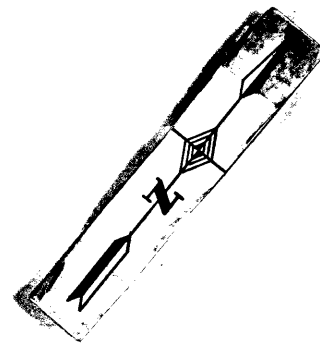
03145

50

14.5X

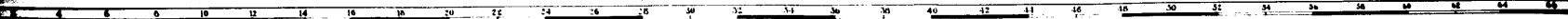
354154

77
22



*Magnetic Reconnaissance
Oak Mine
Ringwood, N.J.
By S.H. Hamilton, Geologist Oct. 1922
Hamilton and Hansell, Engineers
11 Battery Place, New York.*

Scale 1-50



NJGS

03145

46

14.5X

354150