



State of New Jersey
Department of Environmental Protection
Geological Survey

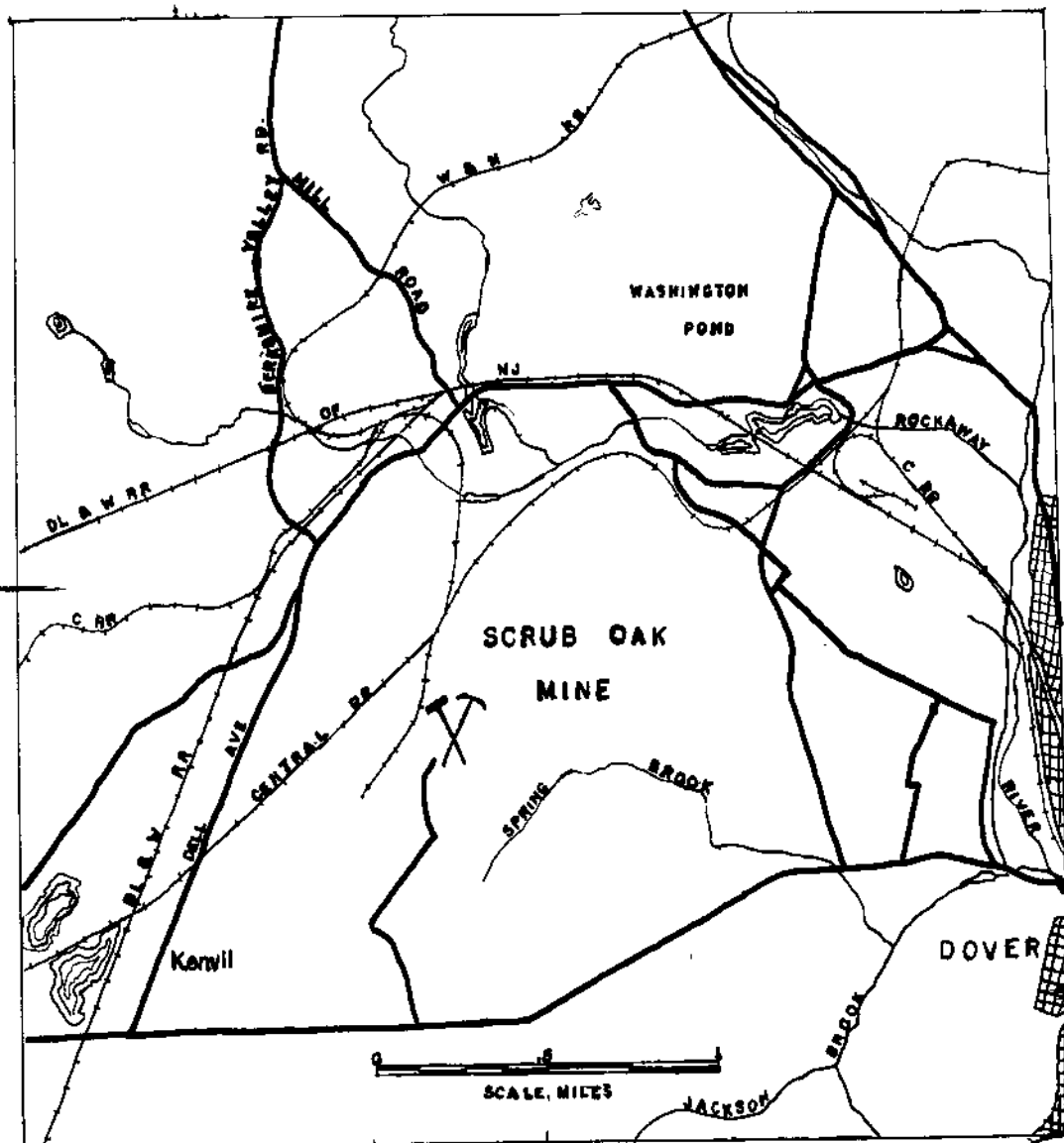


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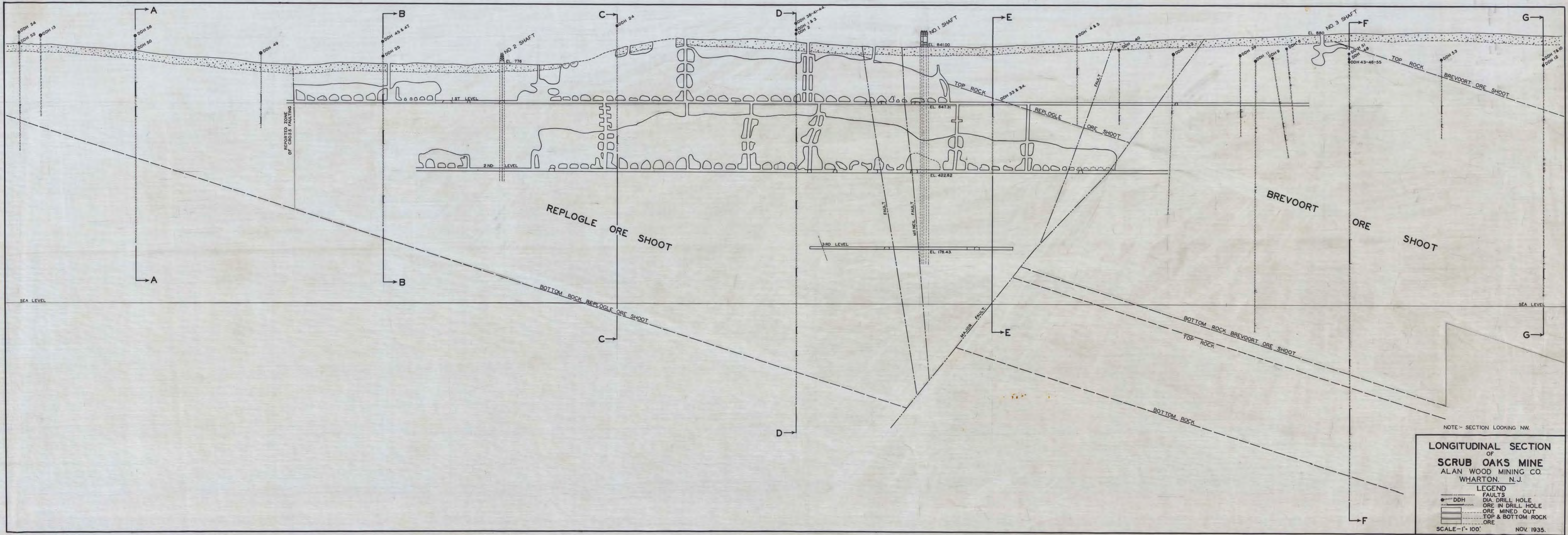
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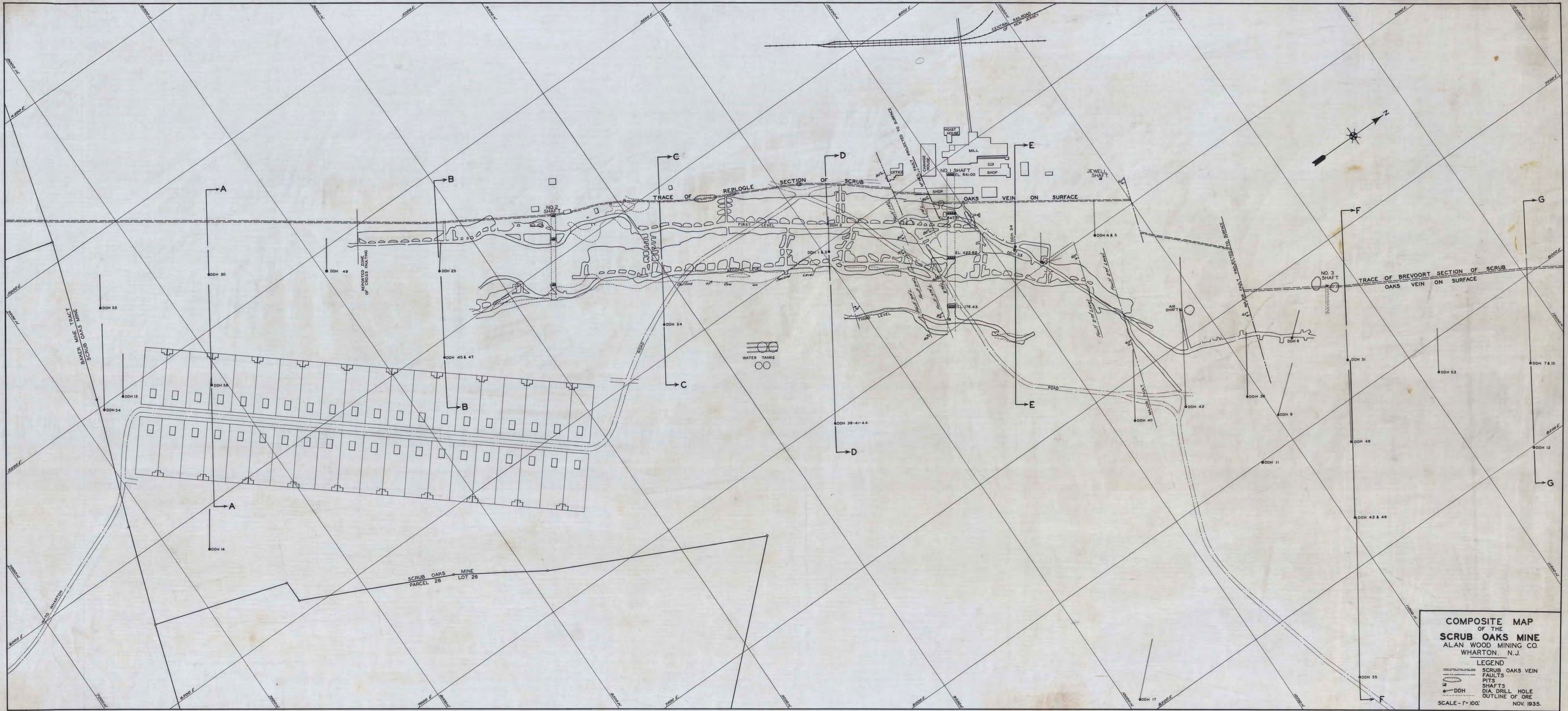
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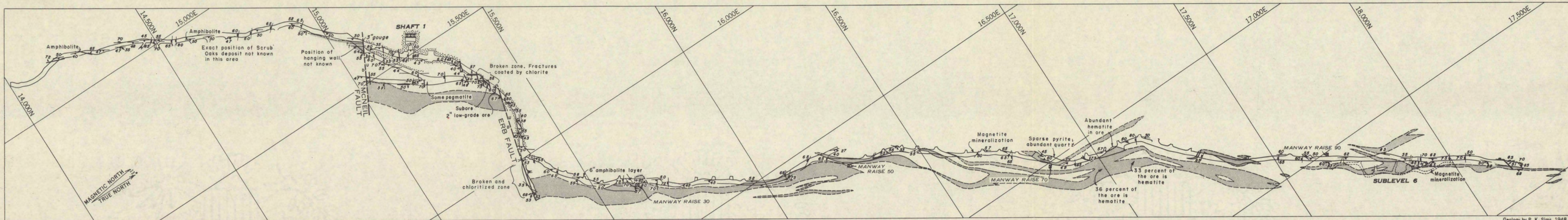
300109





COMPOSITE MAP
OF THE
SCRUB OAKS MINE
ALAN WOOD MINING CO.
WHARTON, N.J.

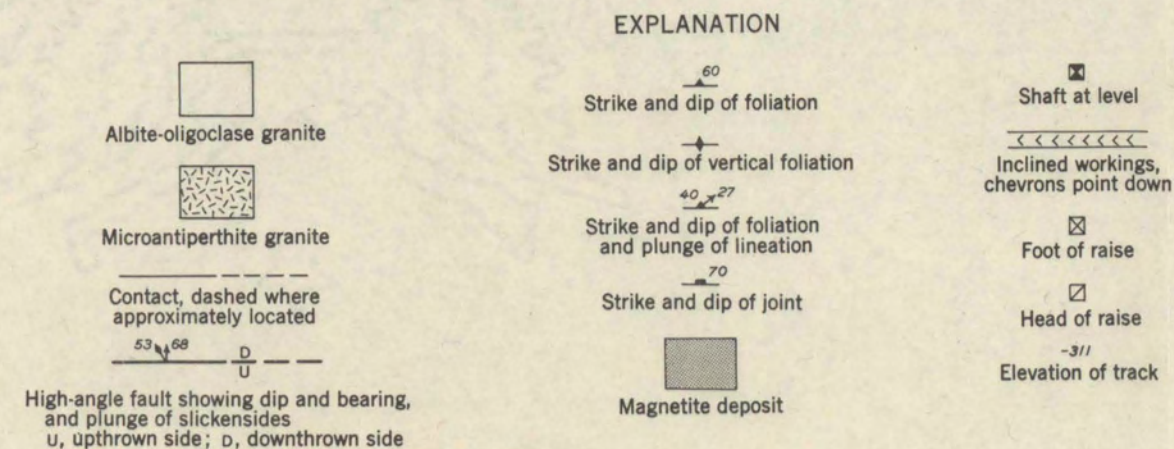
LEGEND
SCRUB OAKS VEIN
FAULTS
PITS
SHAFTS
DIA. DRILL HOLE
OUTLINE OF ORE
SCALE - 1" = 100'
NOV. 1935.



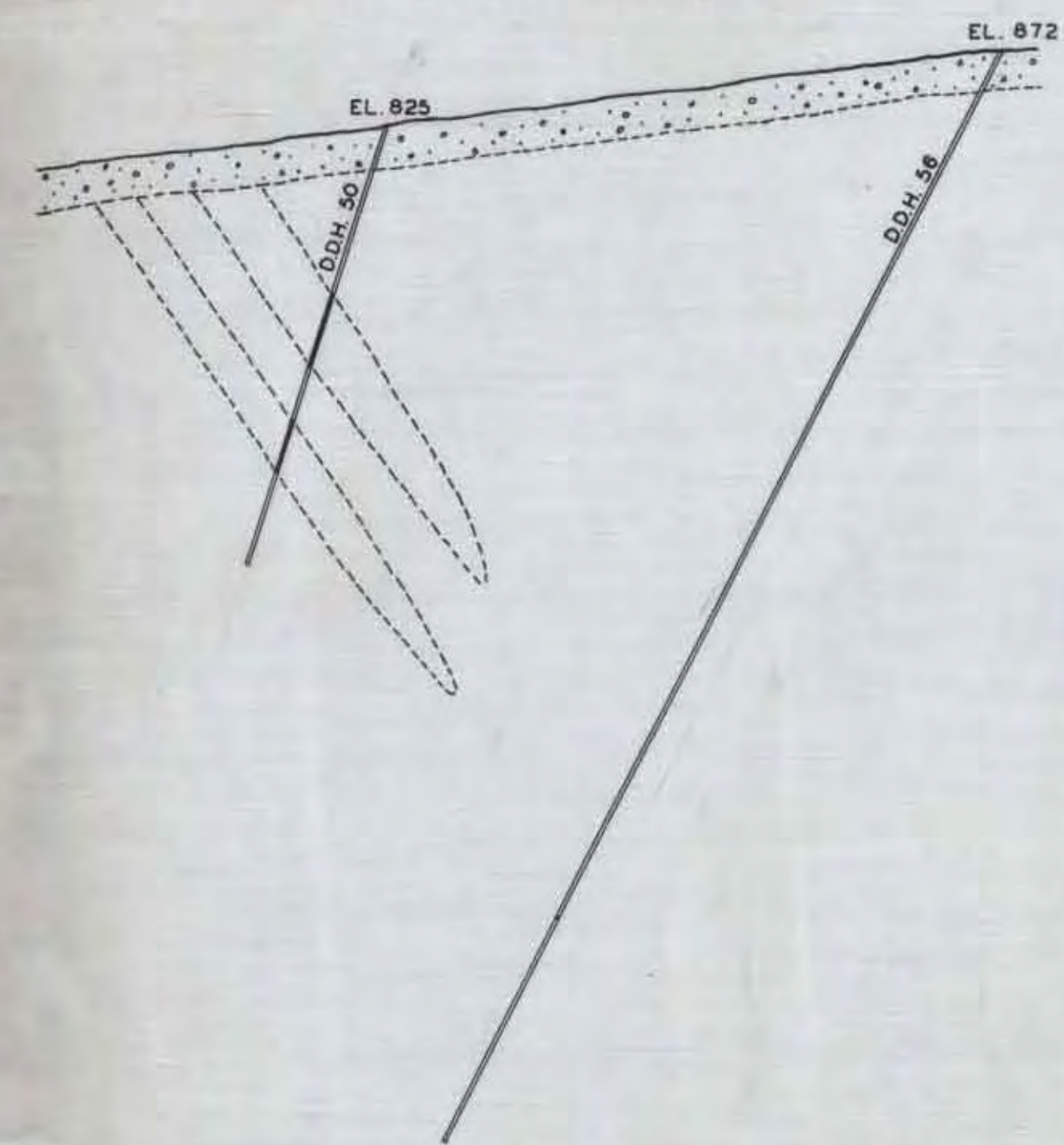
Base by Alan Wood Steel Co.

GEOLOGIC MAP OF LEVEL 5, SCRUB OAKS MINE, MORRIS COUNTY, NEW JERSEY

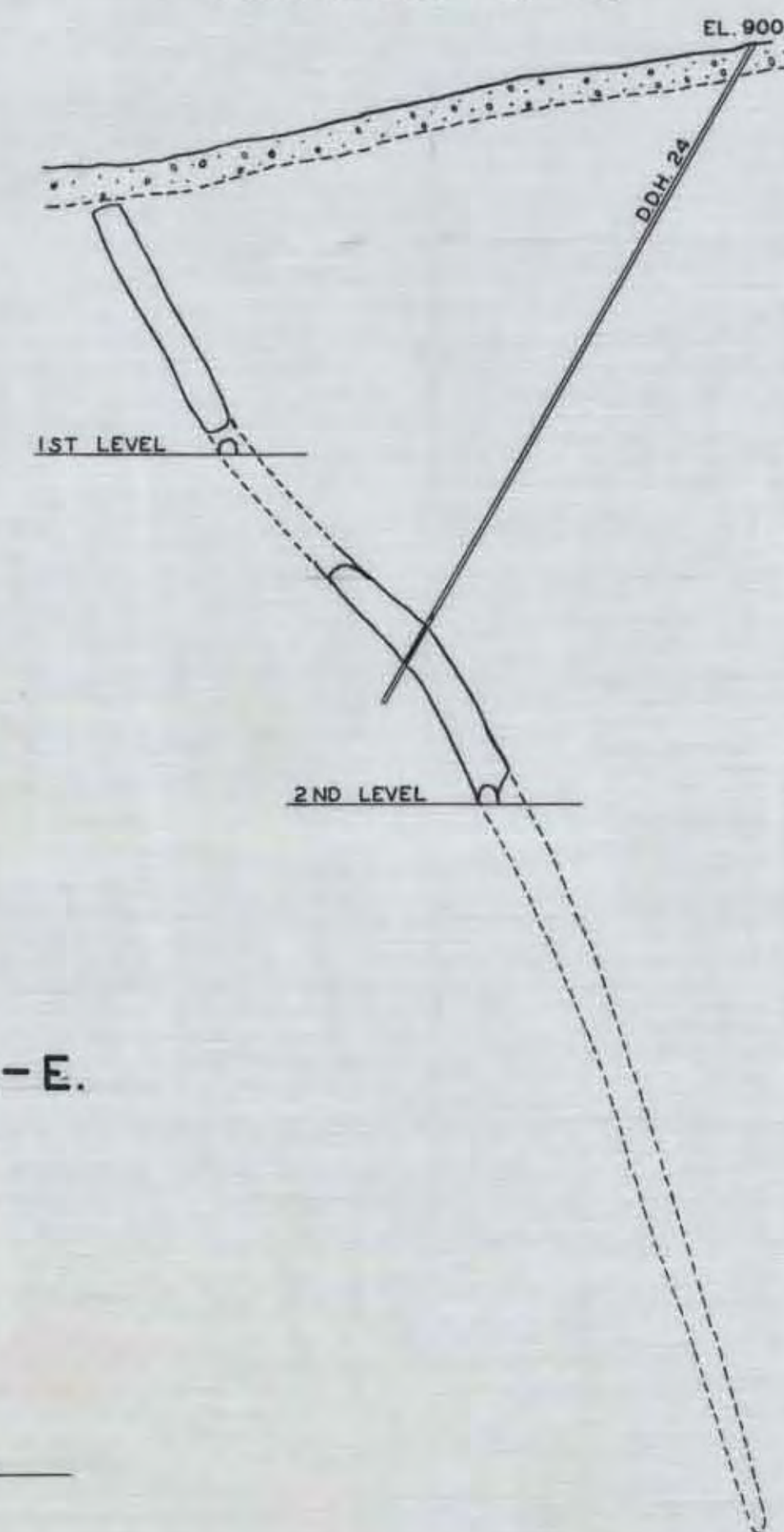
Geology by P. K. Sims, 1948



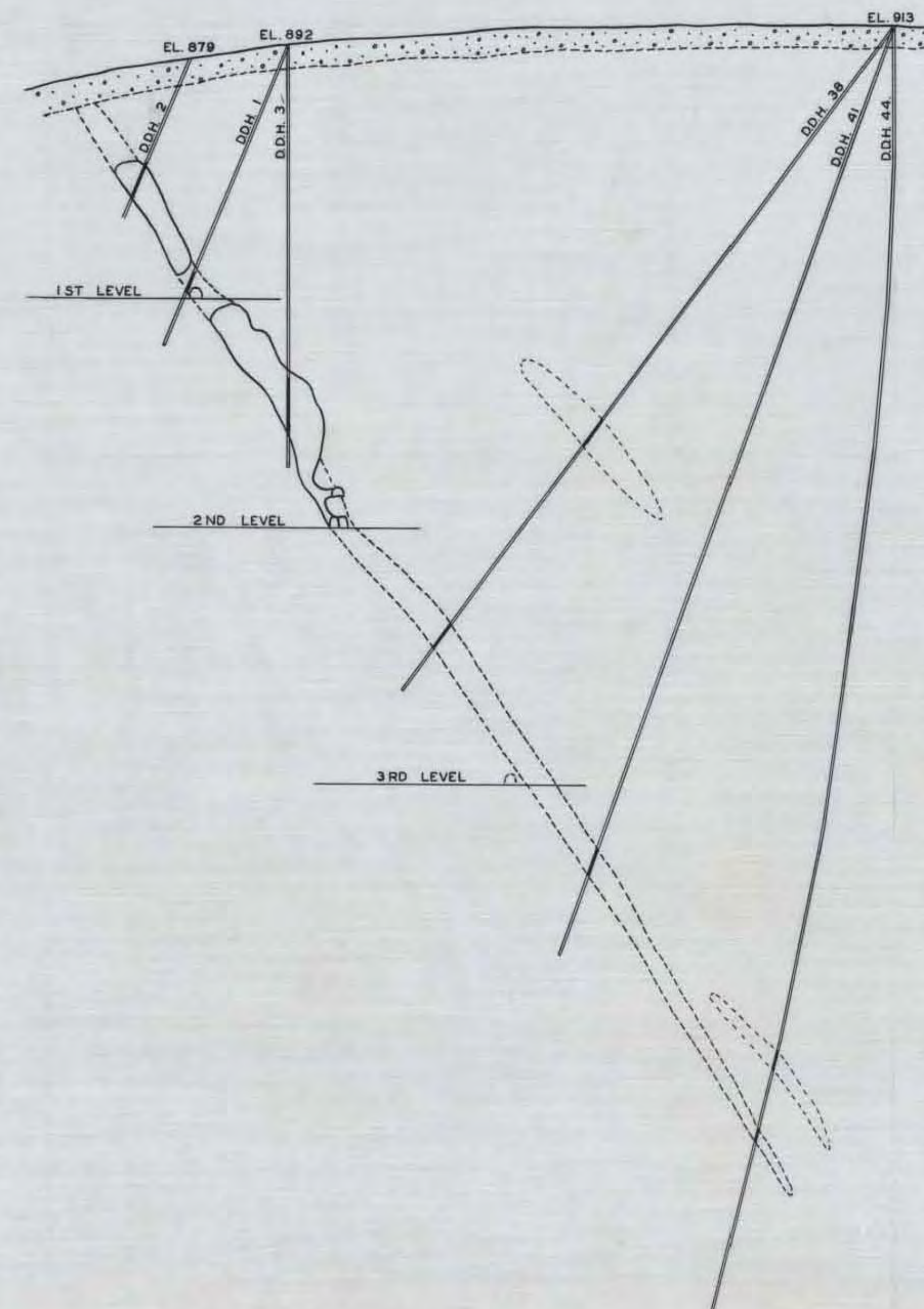
SECTION A-A.



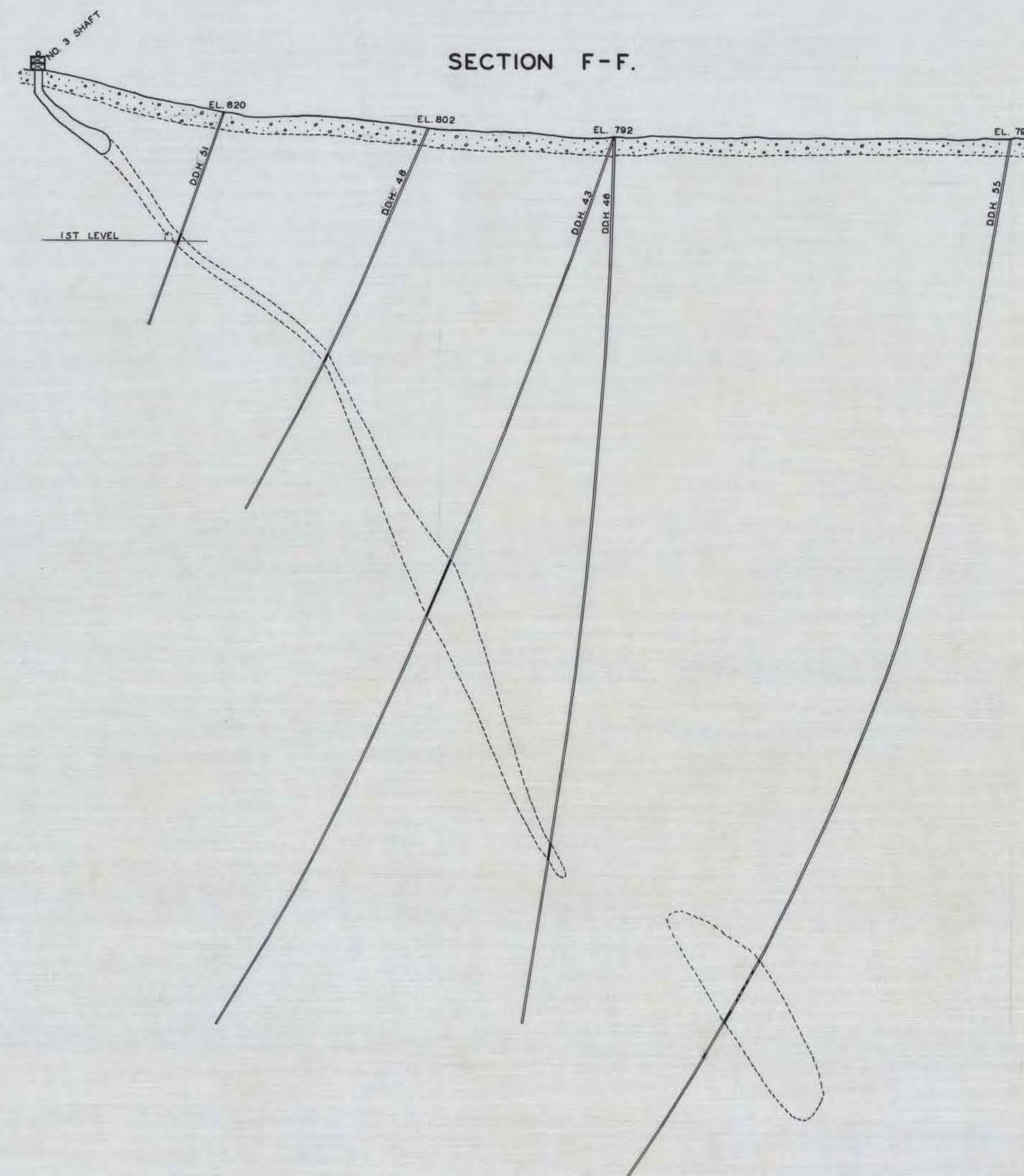
SECTION C-C.



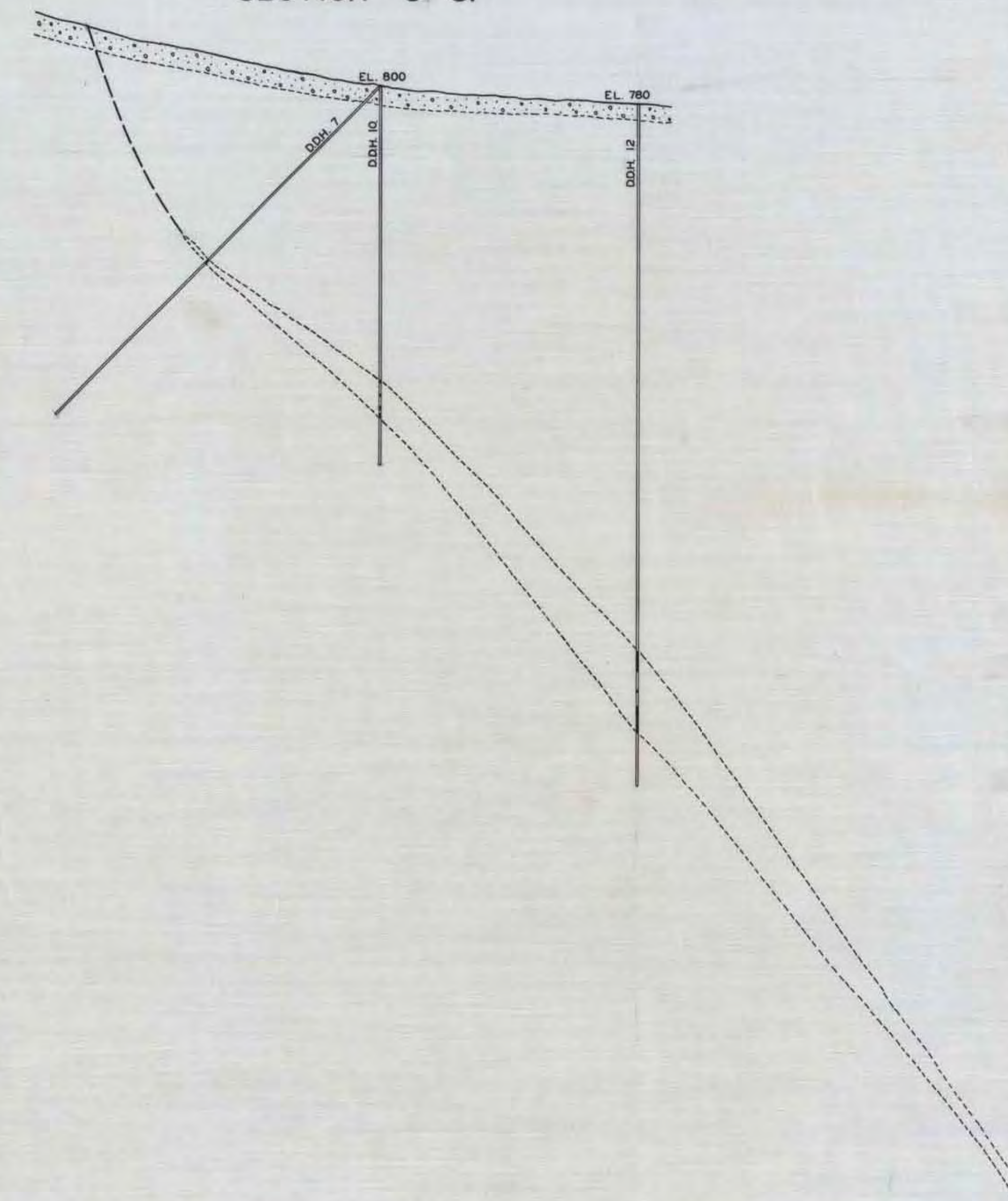
SECTION D-D.



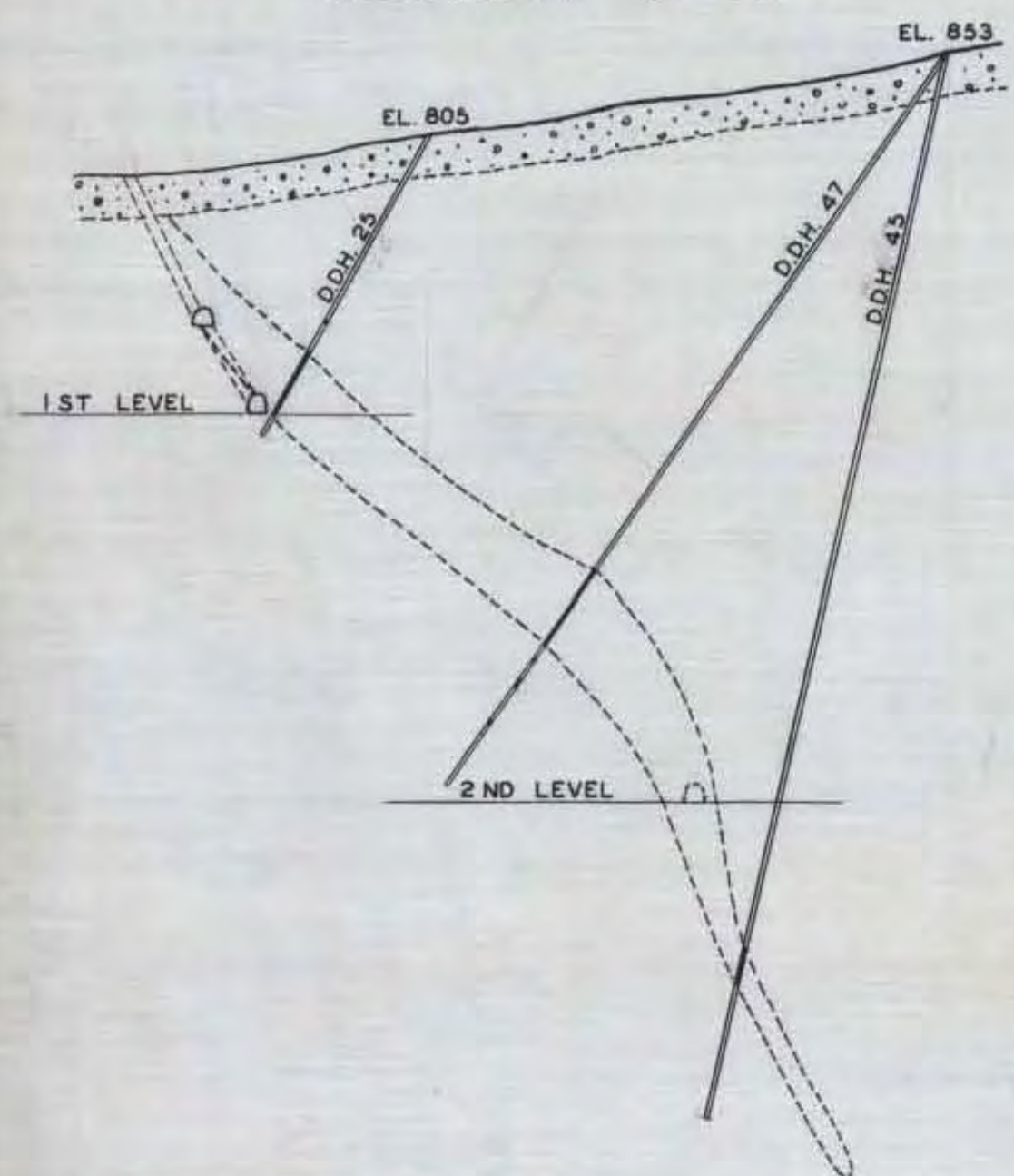
SECTION F-F.



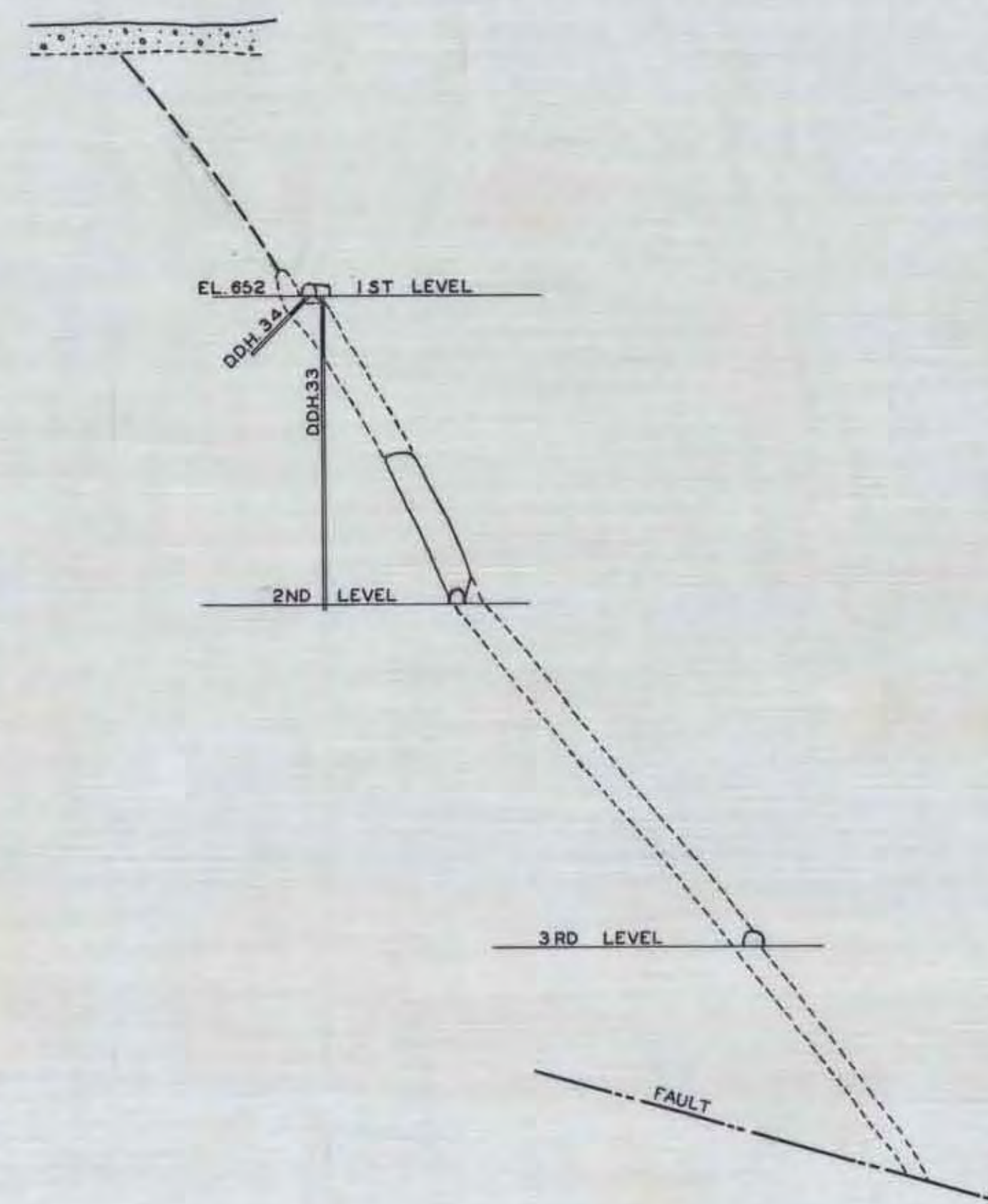
SECTION G-G.



SECTION B-B.



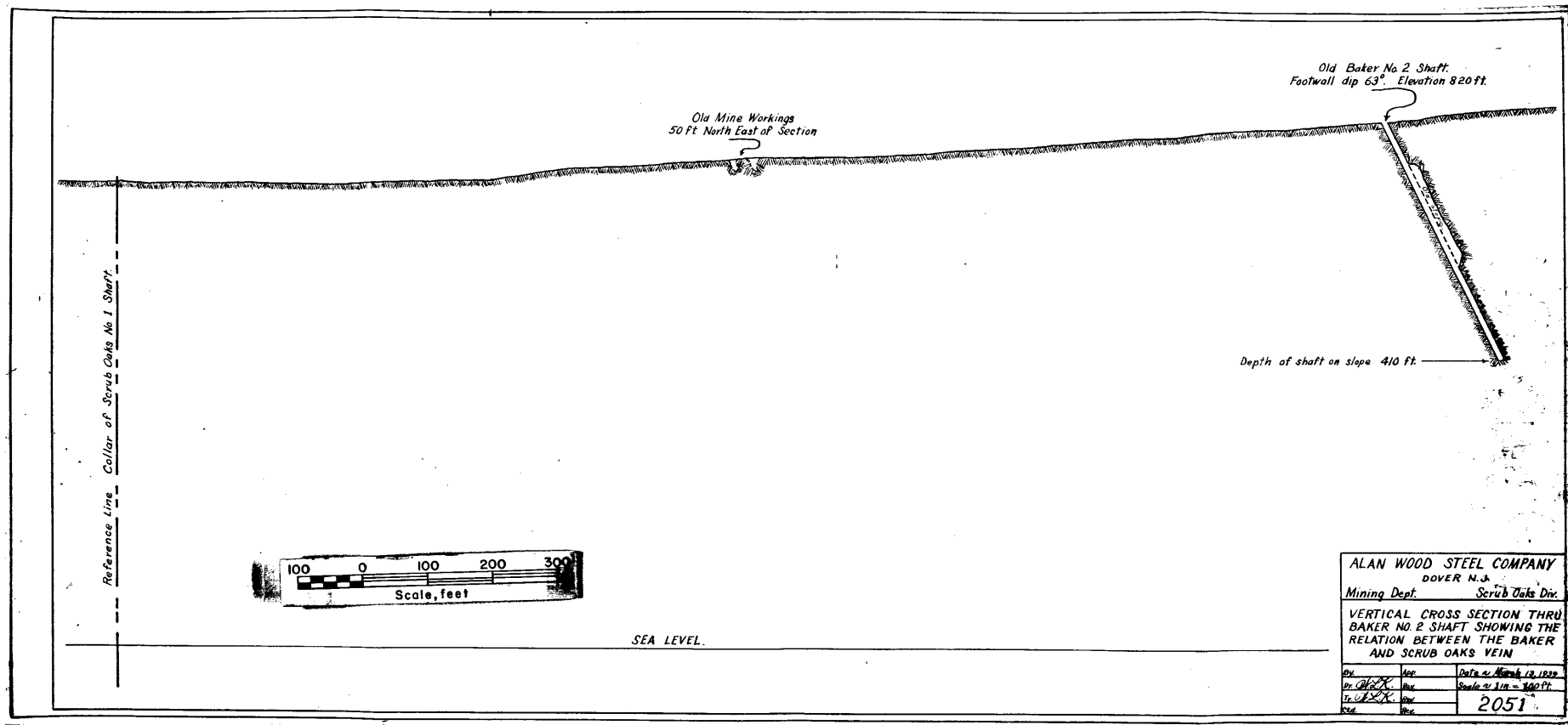
SECTION E-E.



CROSS SECTIONS
OF
SCRUB OAKS MINE
ALAN WOOD MINING CO
WHARTON, N.J.

LEGEND
 - - - - - FAULTS
 DIA. DRILL HOLE
 ORE IN DRILL HOLE
 ORE MINED OUT
 ORE
 ROCK

SCALE - 1" = 100' NOV. 1935.



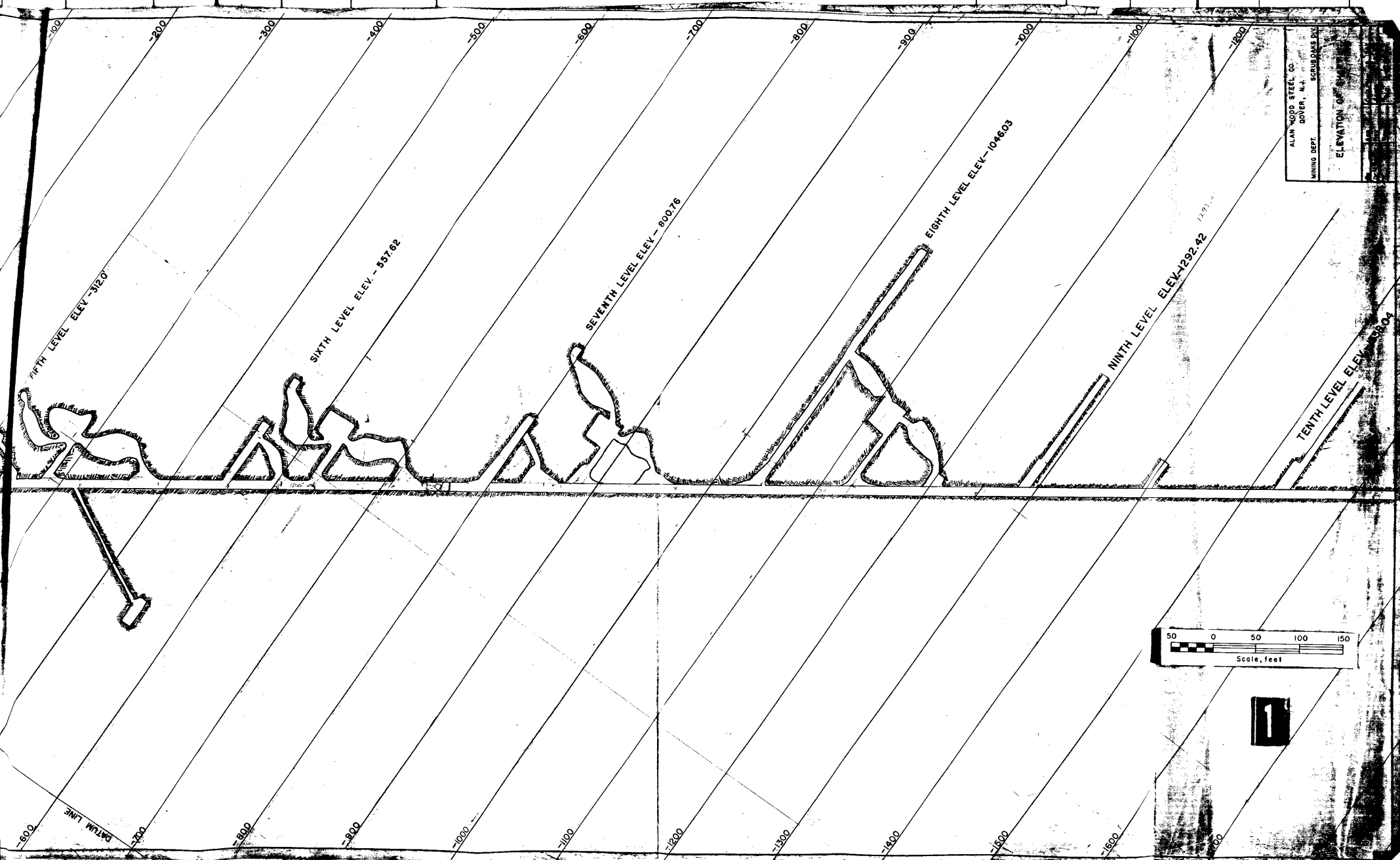
NJGS

03145

21

19X

354131



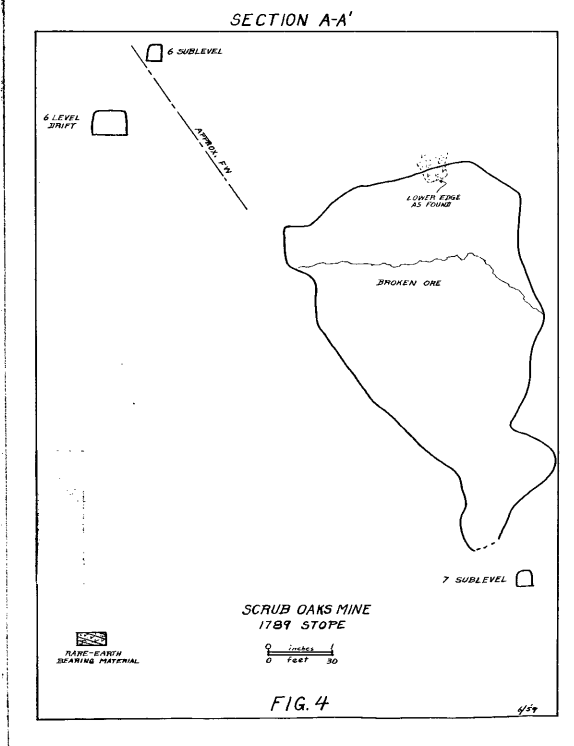
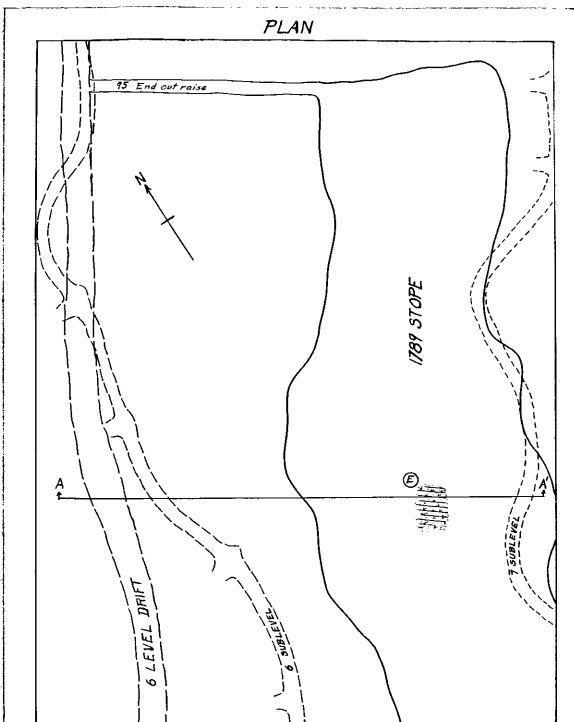
NJGS

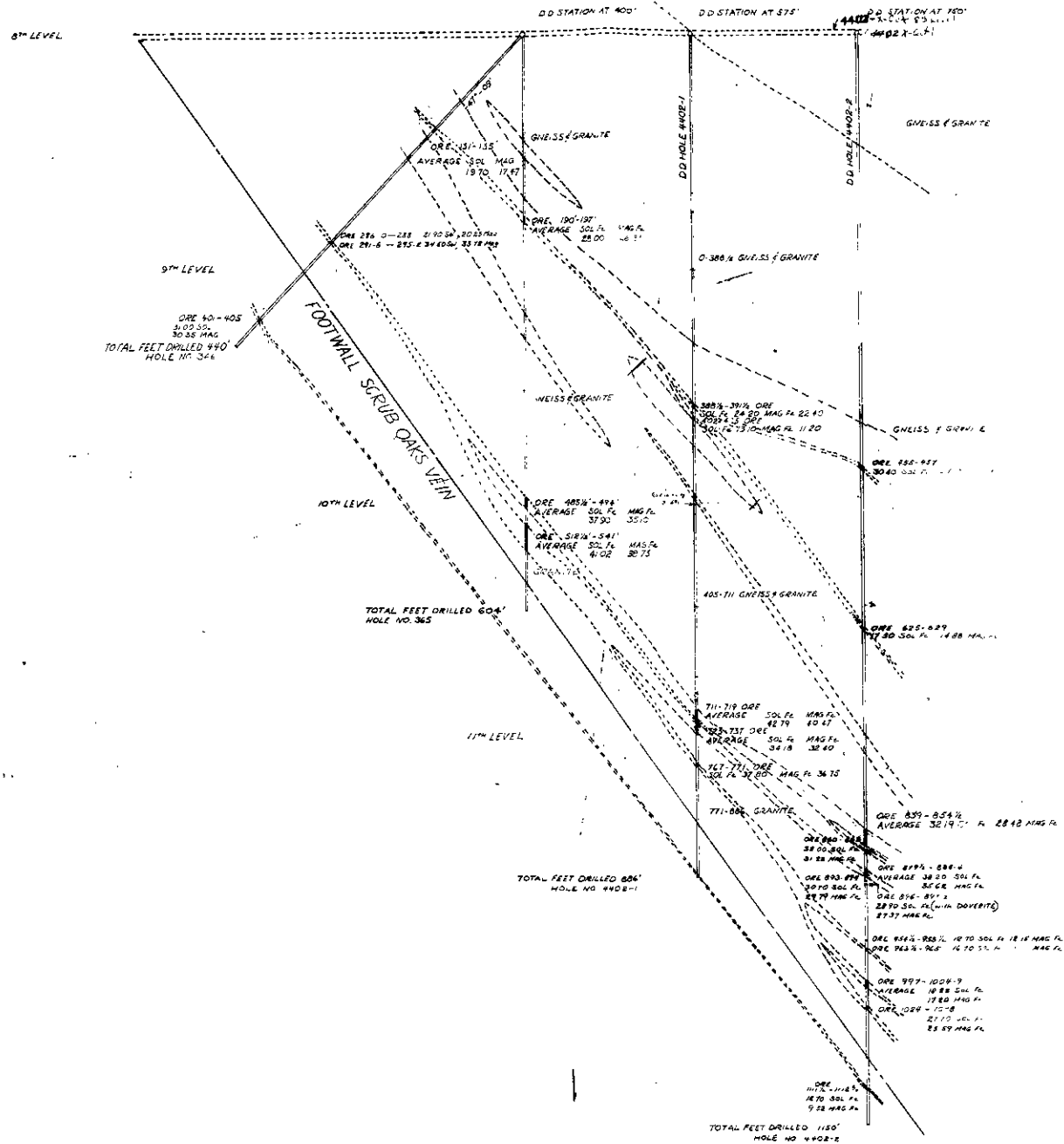
03145

31

21X

354139





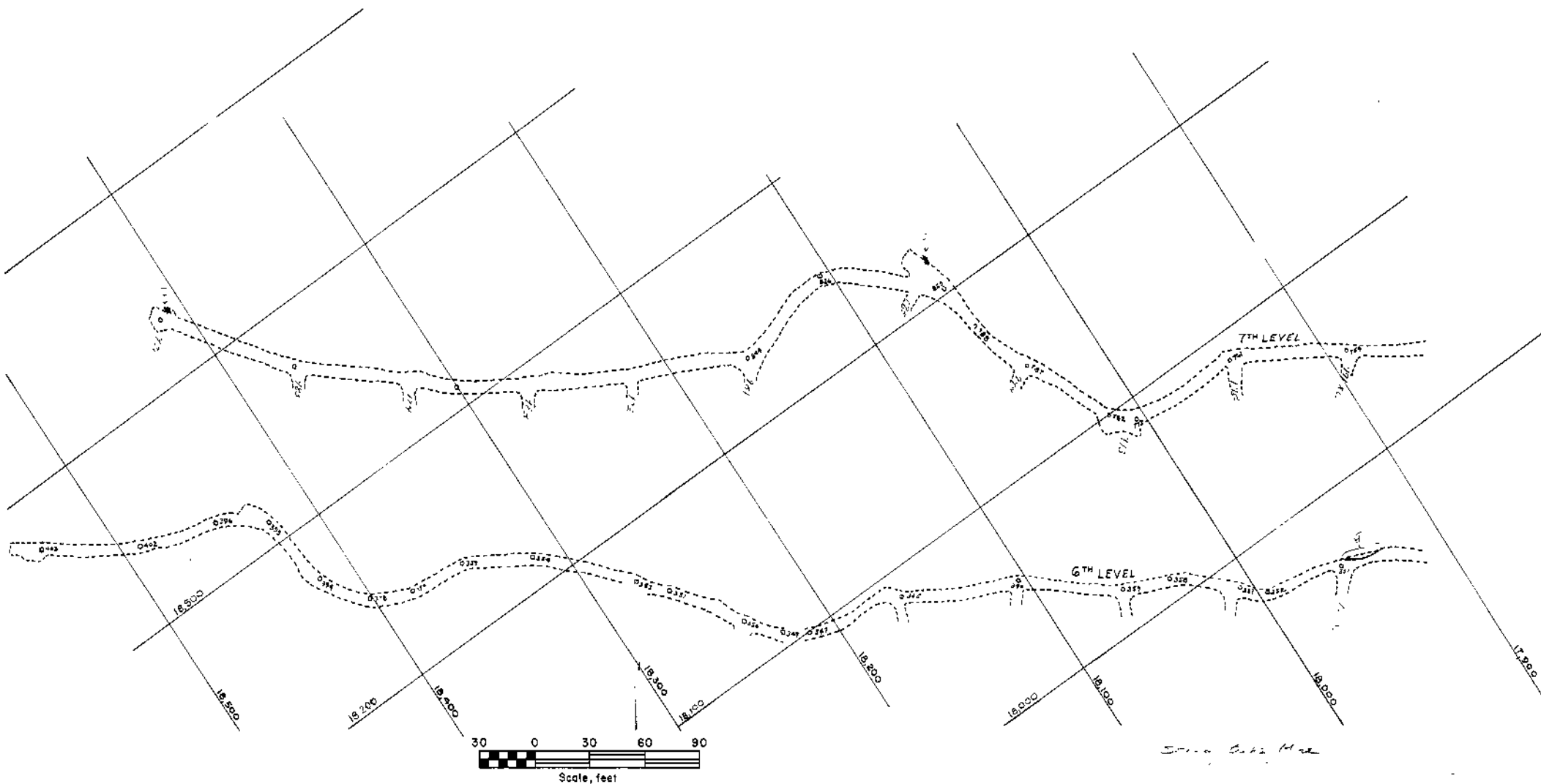
CROSS SECTION ON SCRUB OAKS VEIN
AT 4500' NORTH OF SHAFT SHOWING
CROSS CUTS AND DIAMOND DRILL
HOLES
DATE 10-3-59
SCALE 1"=50'

LEGEND

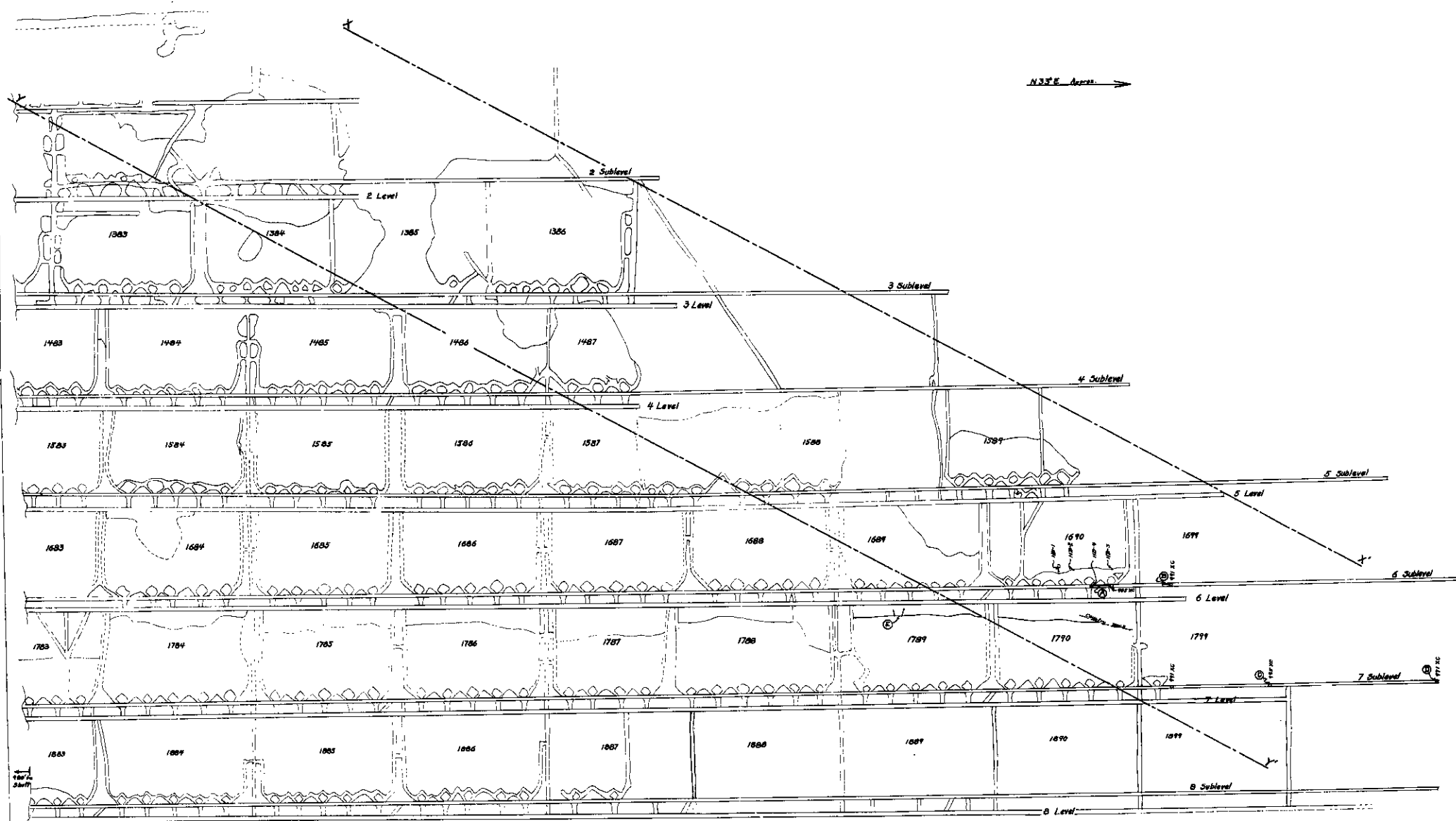
ORE

GRANITE: Plagioclase - Quartz

GNEISS: Plagioclase - Quartz - Biotite



300112



EXPLANATION

- HB-1 Sample rare earth material
- Additional known occurrence
- Area of possible rare earth occurrence
- 1386 Slope No.

SCRUB OAKS MINE

MORRIS COUNTY, NEW JERSEY

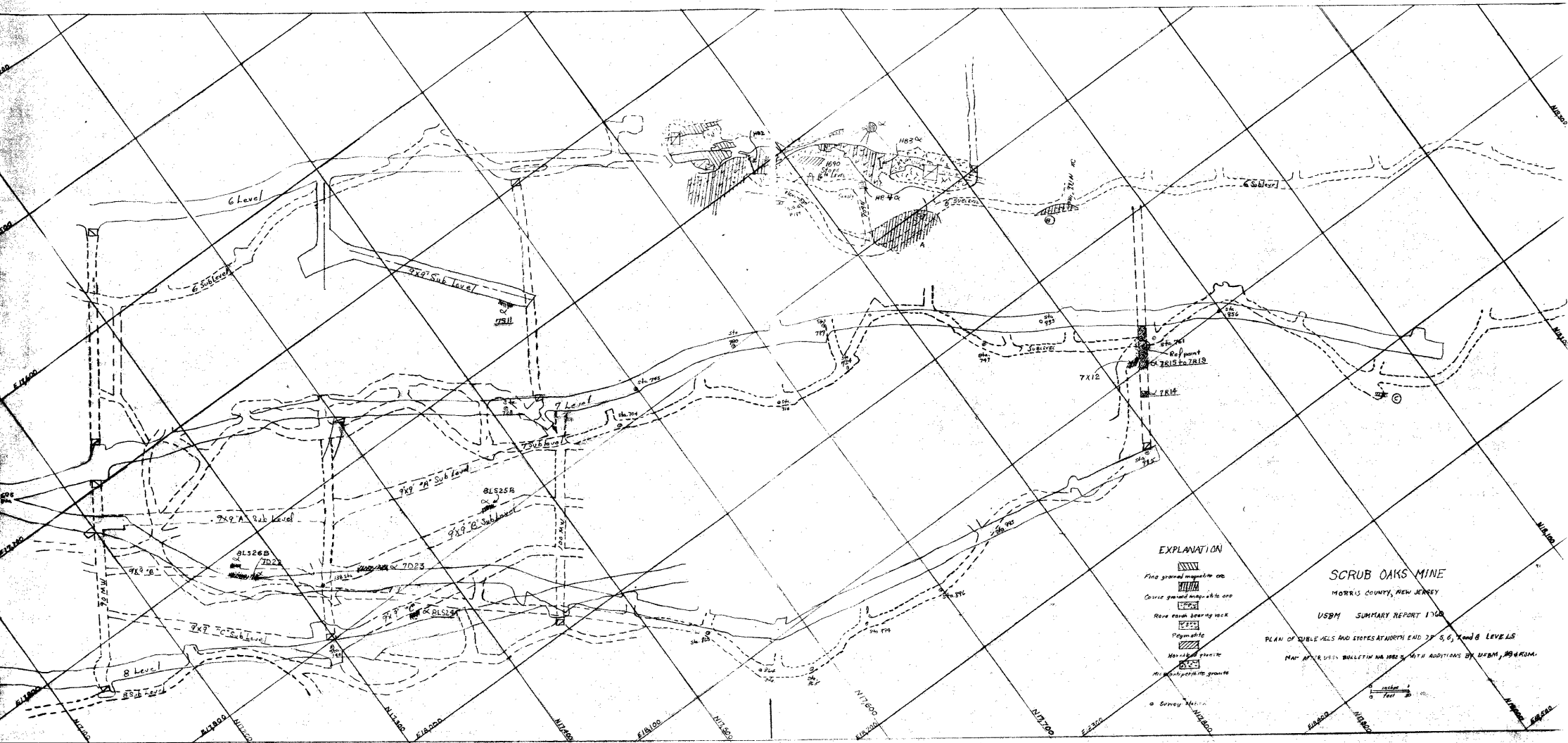
USM SUMMARY REPORT - 1959

VERTICAL LONGITUDINAL SECTION OF NORTHEAST END OF MINE

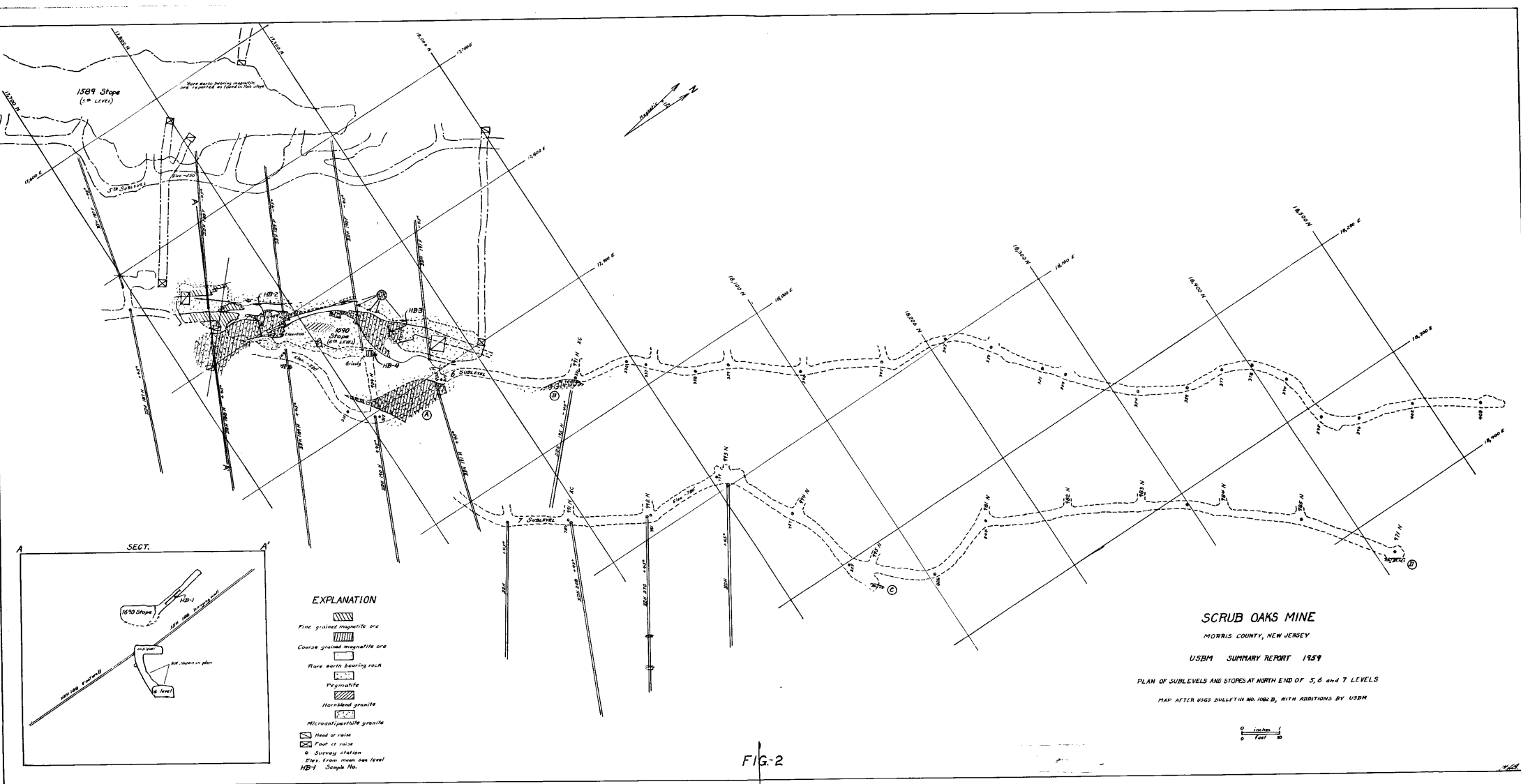
AFTER COMPANY SECTION

0 Inches /
0 Feet 100

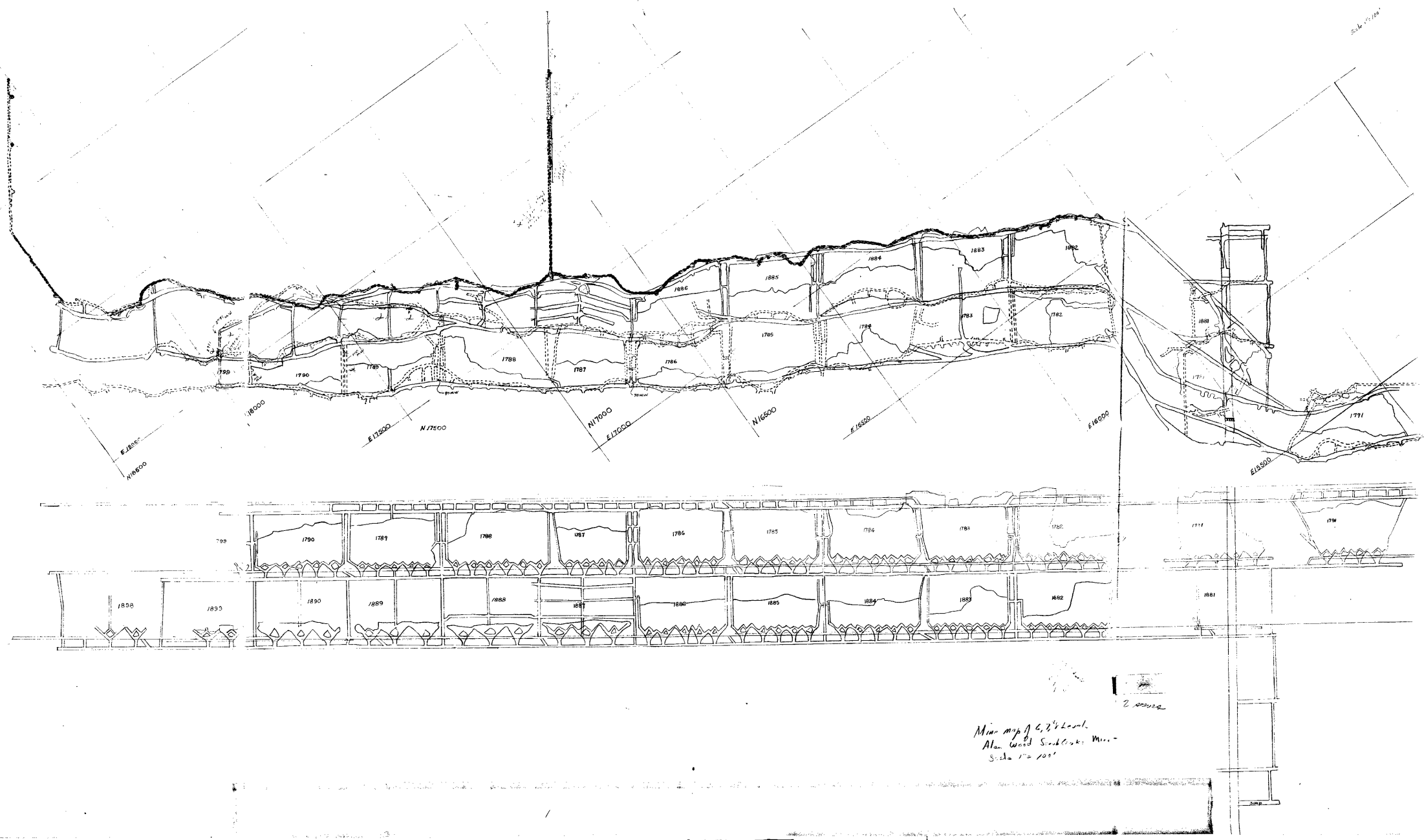
FIG-3



300115

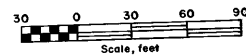
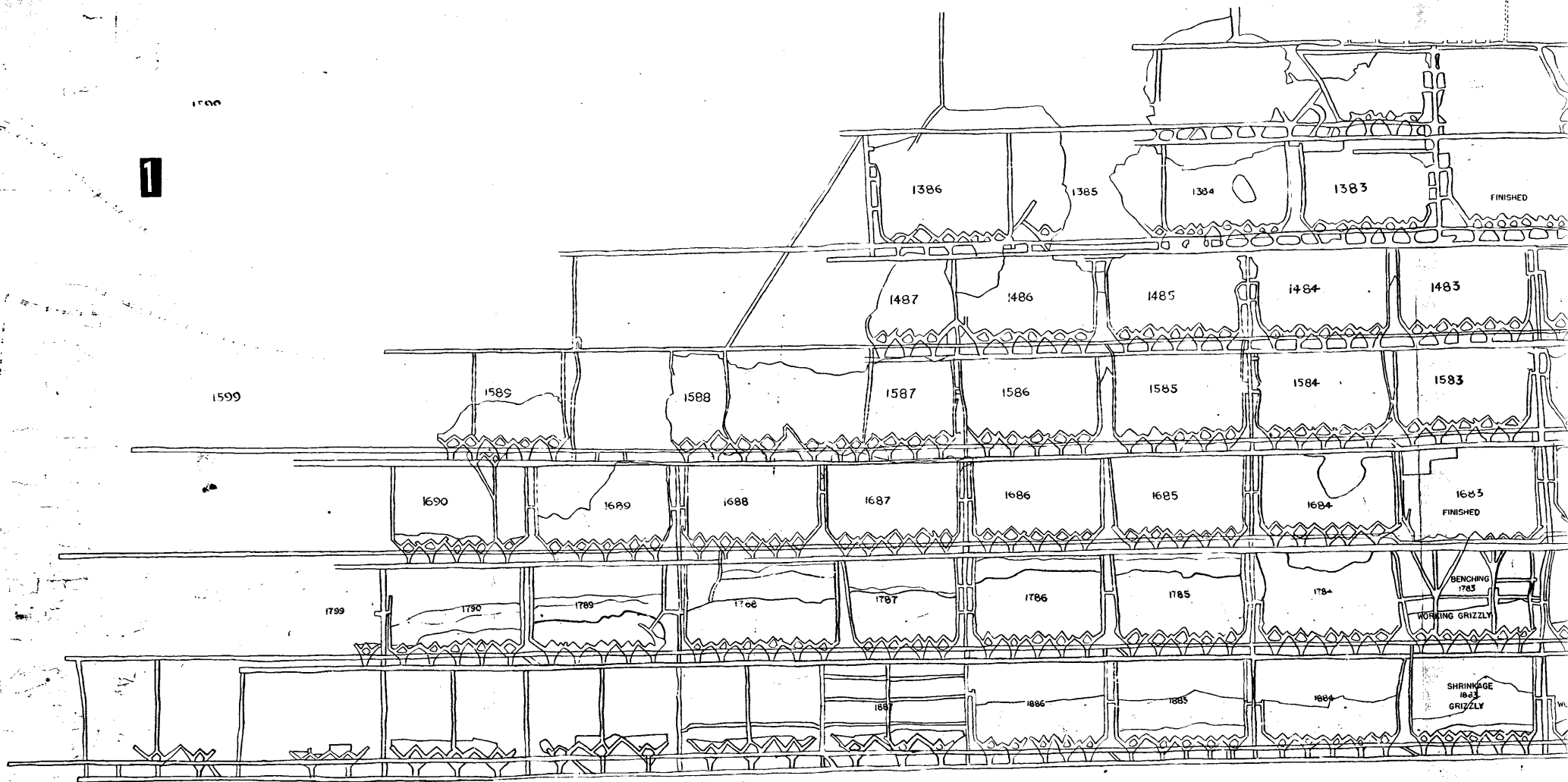


300116

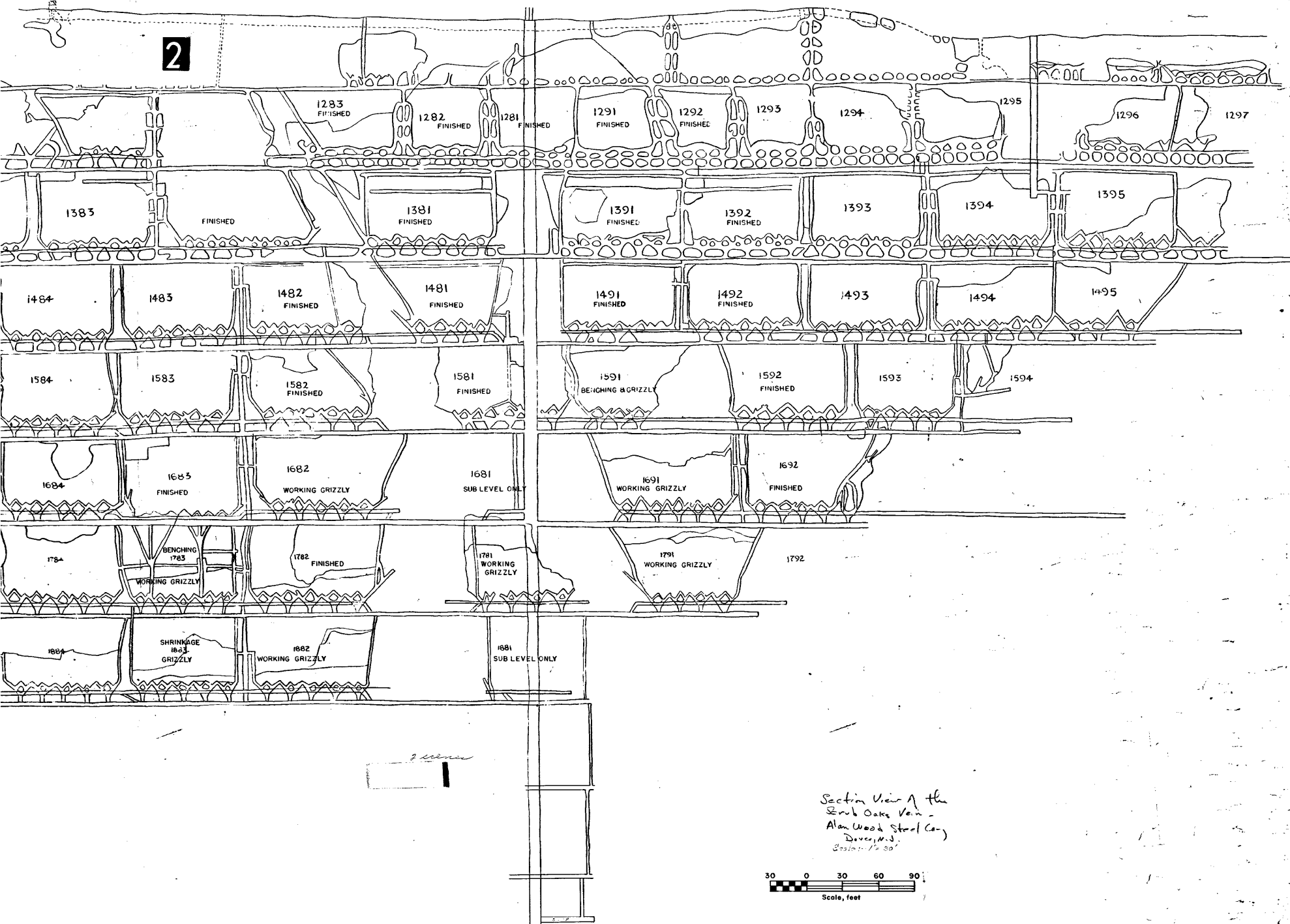


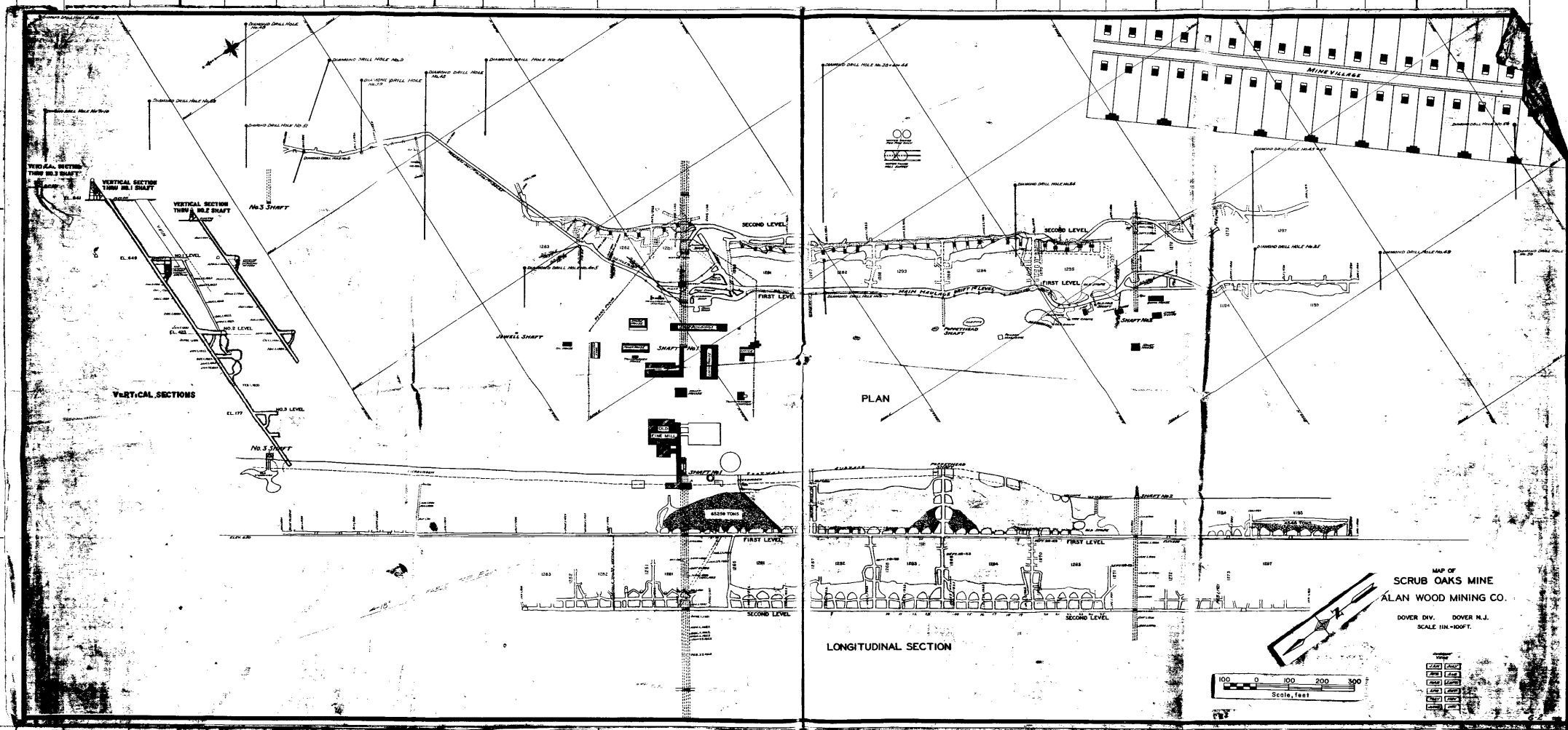
Min. map of C. 2 1/2' level.
 Alan Wood Sand Creek Mine -
 S. 1/4 1/2 100'

1

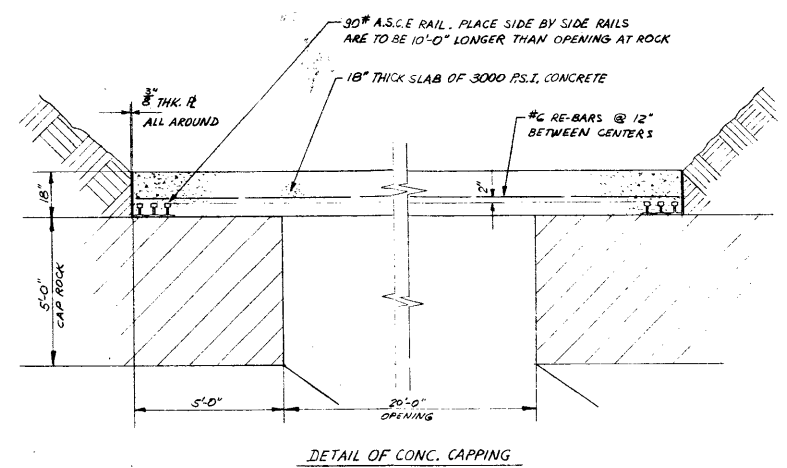
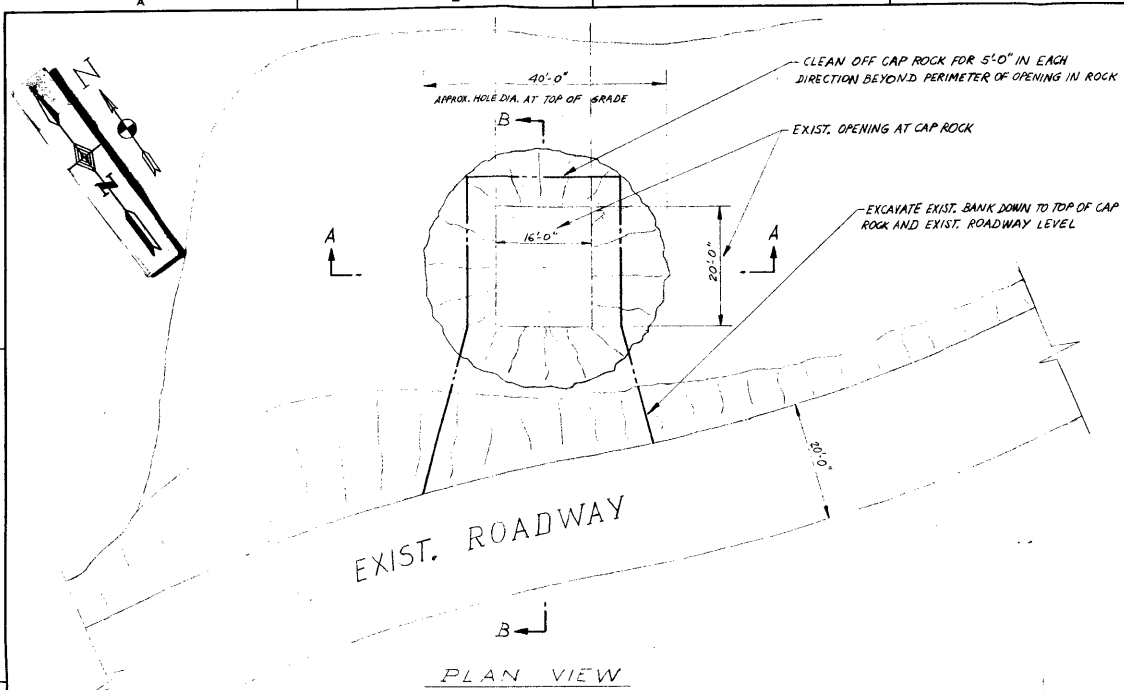


2



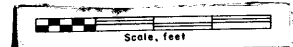
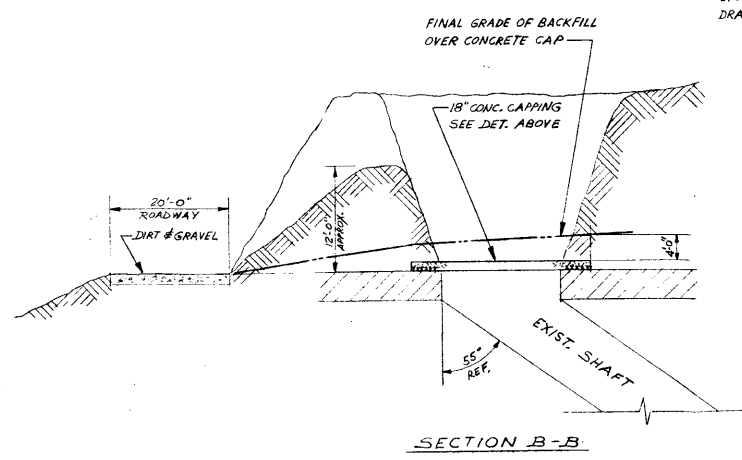
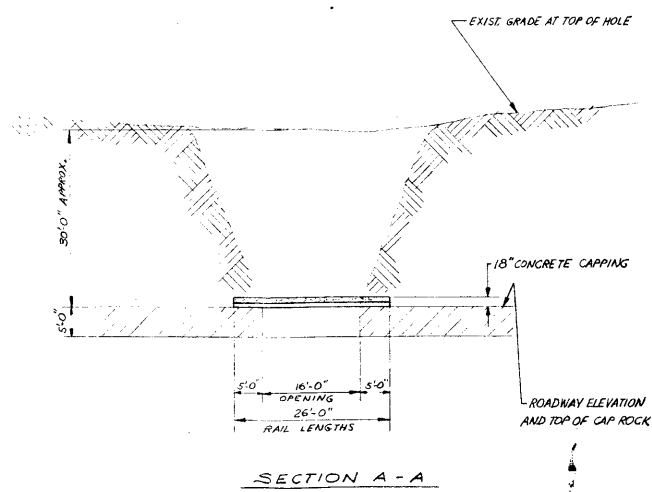


NJGS 03145 30 32X 354138



GEN. NOTES:

- 1.- CONTRACTOR SHALL CLEAN OFF CAP ROCK FOR 5'-0" AROUND PERIMETER OF HOLE IN ROCK
- 2.- CONTRACTOR SHALL INSTALL 3/8" A.S.C.E. RAIL SIDE BY SIDE TO CREATE A BOTTOM FORM FOR THE CONCRETE. ALL RAILS ARE TO EXTEND 5'-0" BEYOND THE PERIMETER OF THE HOLE AND TO BE INSTALLED LEVEL
- 3.- CONTRACTOR SHALL WELD 3/8" x 18" PLATES AROUND PERIMETER OF RAILS TO CREATE A FORM FOR CONCRETE. EARTH IS TO BE BACKFILLED AGAINST PLATES FOR SUPPORT
- 4.- AFTER CONCRETE IS CURED FOR (7) DAYS CONTRACTOR SHALL PLACE EARTH BACKFILL OVER CONCRETE CAP MAX. DEPTH OF 4'-0" EARTH SHALL BE GRADED TOWARDS ROADWAY TO PERMIT PROPER DRAINAGE AWAY FROM CONCRETE CAP



REV	DATE	BY	CHK	DESCRIPTION	DATE	REMARKS
1				18" CONC. CAPPING		

REFERENCE DRAWINGS

NO.	DATE	DESCRIPTION	BR.	OK	CHK	DATE	APPROVED	DATE
1								

ALL FIELD CHANGES TO BE REPORTED TO ENGINEERING DEPT.

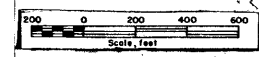
ALAN WOOD STEEL COMPANY
COMBIOCHOCKEN, PENNA. 19428

REAL ESTATE
SCRUB OAKS MINES
MINE RAISE
CONCRETE CAPPING

NO. 104-10
1/2" x 1/2" x 1/2"

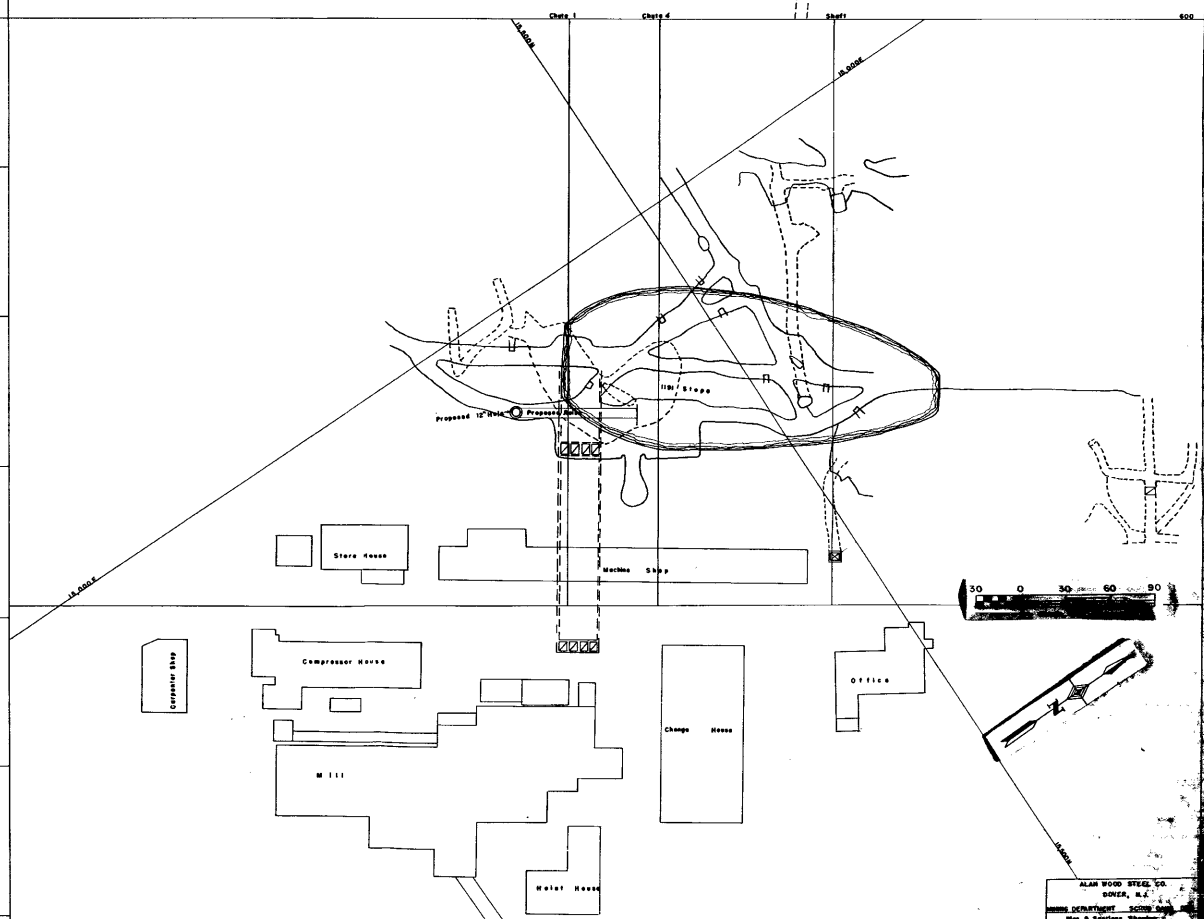
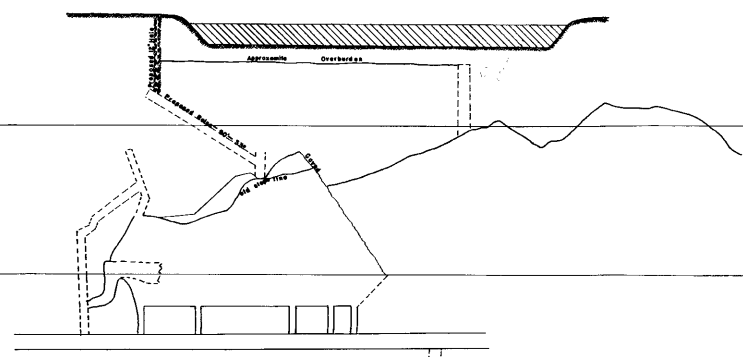
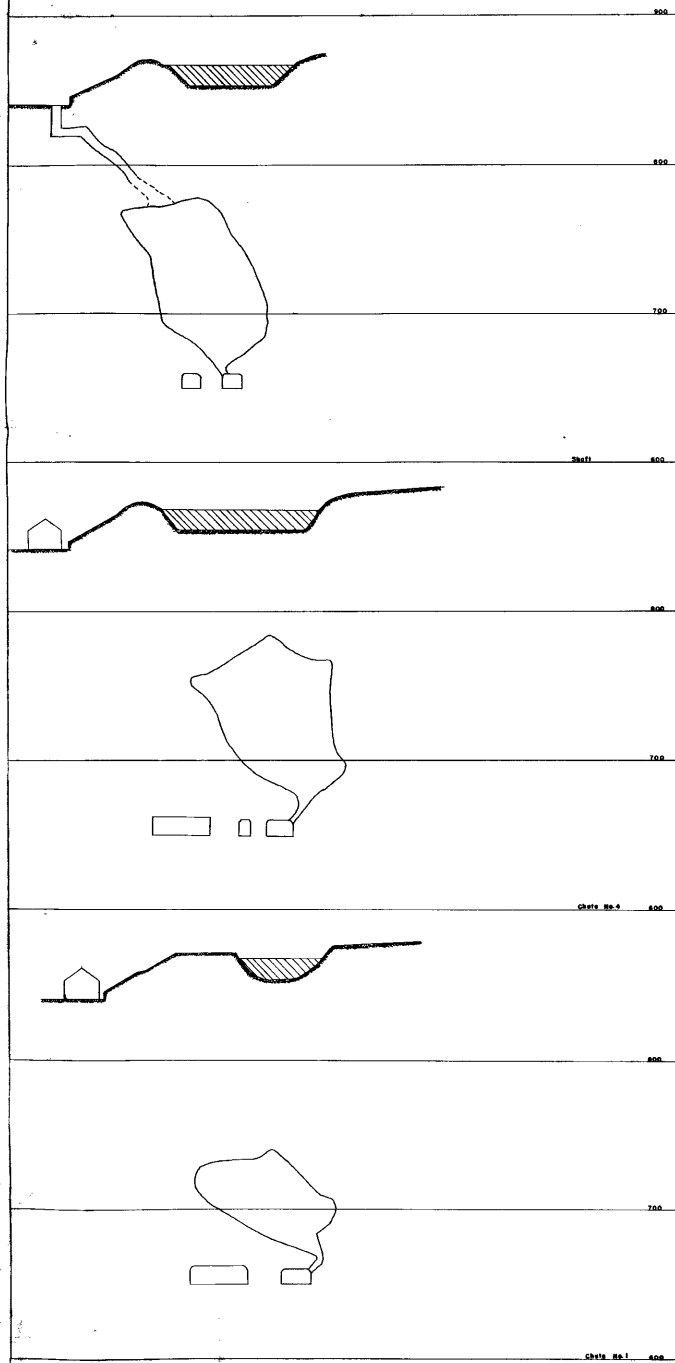
1/4" x 1/4" x 1/4"

NO. SK-3686



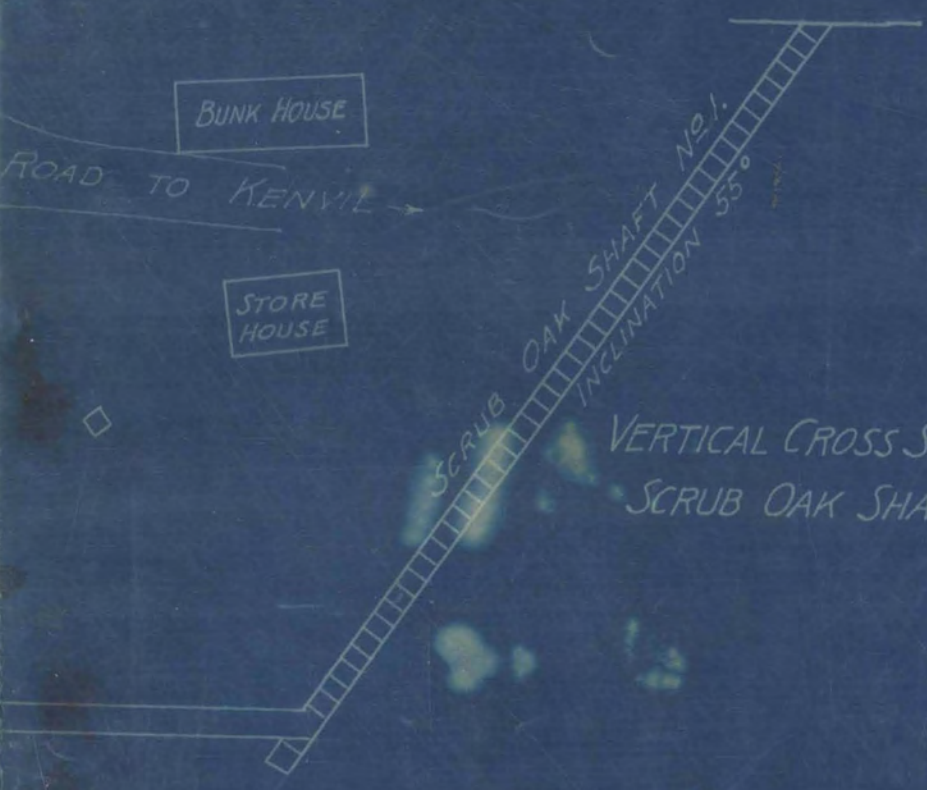
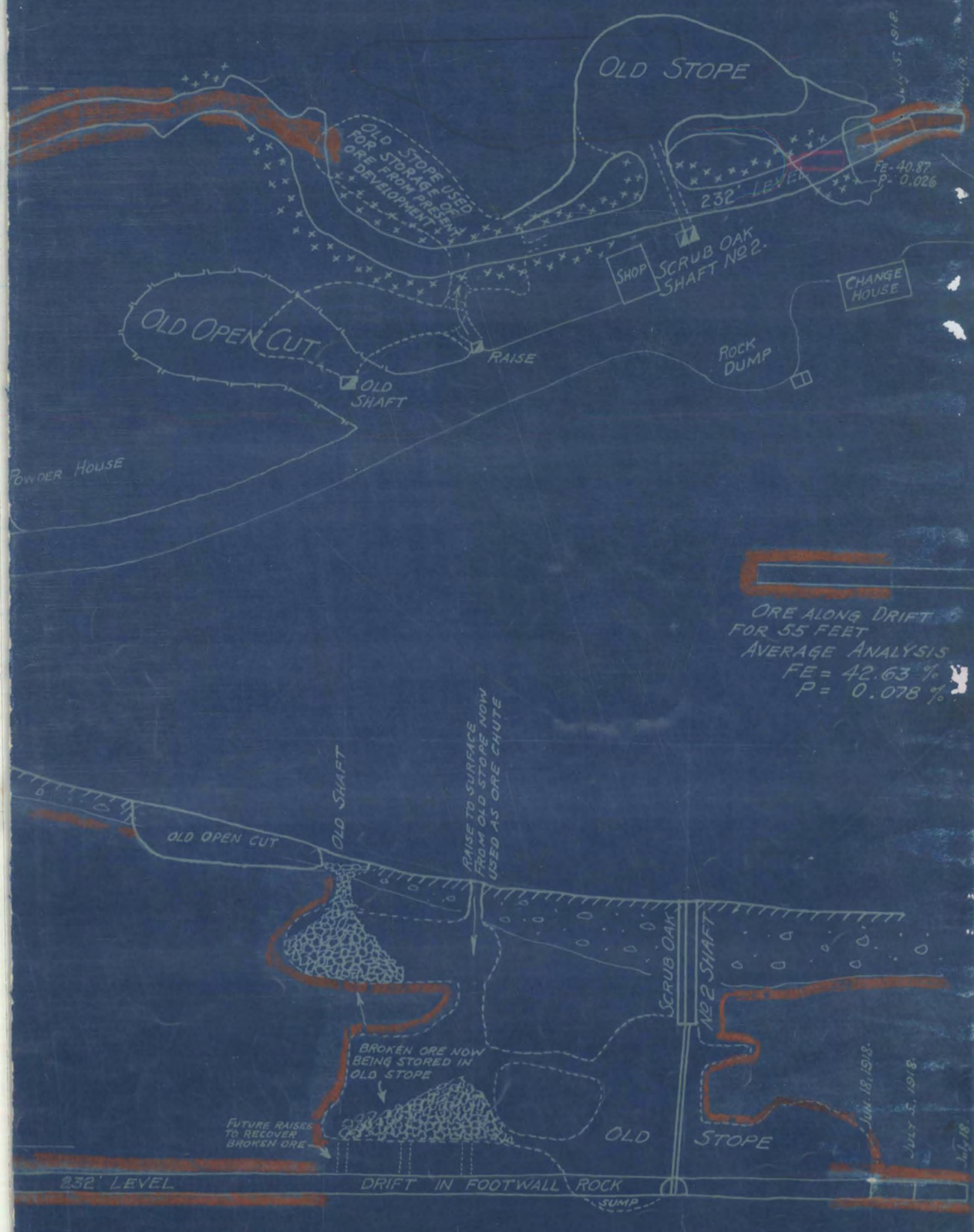
ALAN WOOD STEEL CO
DOVER, N.J.
SCRUB OAK MINE MINE HILL TWP.
PROPERTY MAP
SCRUB OAK MINE
SOUTH EAST SECTION
BY J.A. APP. DEC 20, 1988
DR. J.B. HAY. SCALE 1" = 400'
TR. F.S. HAY. FILE B10400
C.D. HAY.





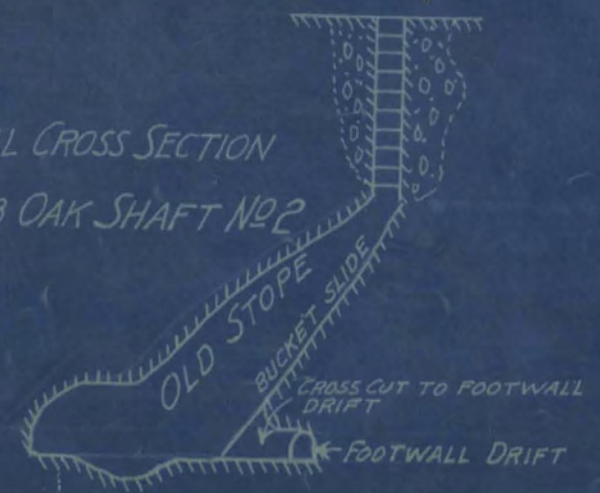
ALAN WOOD STEEL CO.
 DORIS, N.D.
 MINING DEPARTMENT SCHEMATIC
 Plan & Sections Showing
 Relation of Mill Sluice
 to Mill
 Section and Elevation
 100'

PLANS AND SECTIONS OF
 SCRUB OAK MINE
 SHOWING PROGRESS TO JULY 25, 1918.
 SCALE 1"=50' DRN BY J.C.S.



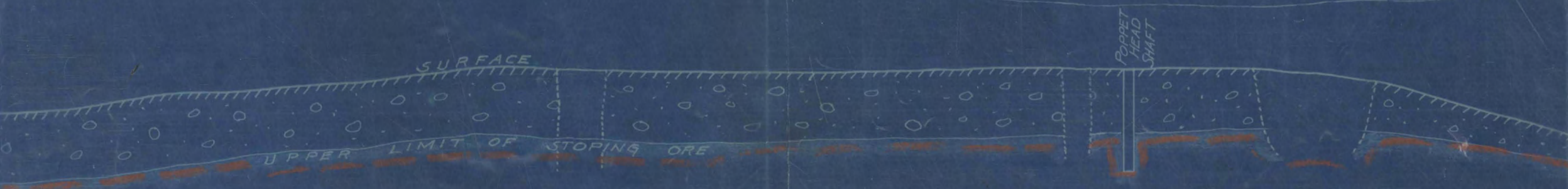
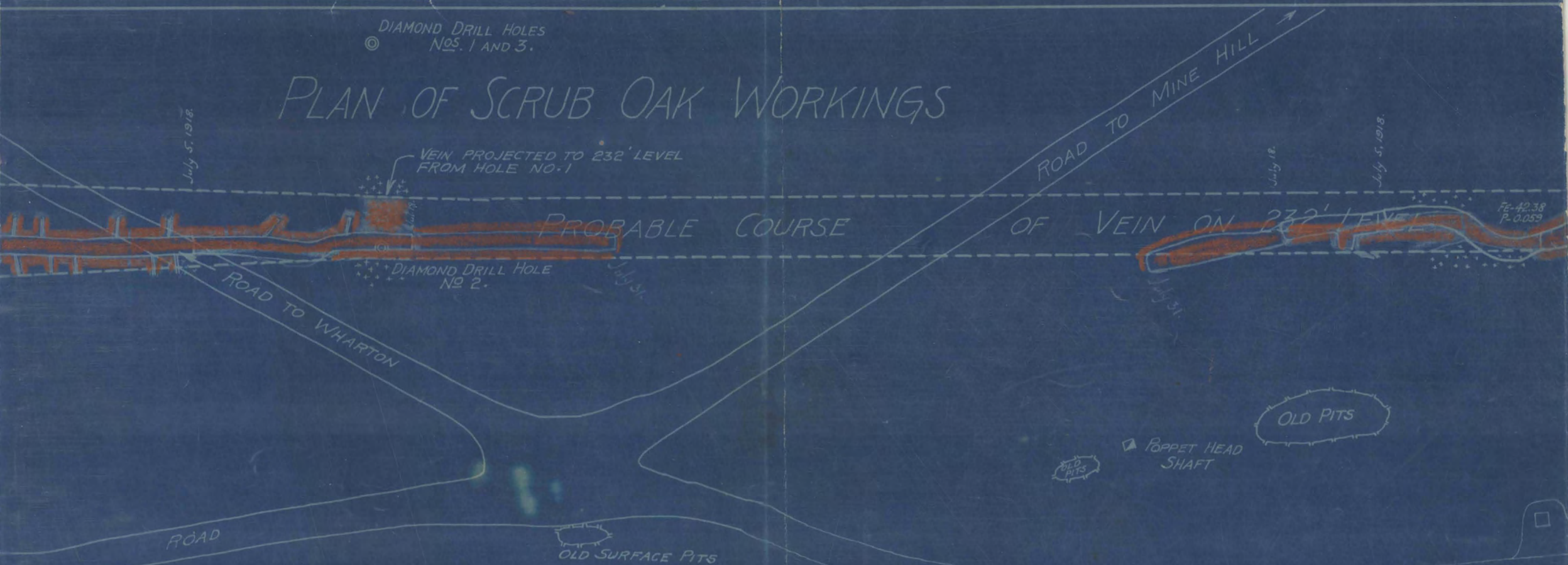
VERTICAL CROSS SECTION "A-A"
 SCRUB OAK SHAFT NO. 1.

VERTICAL CROSS SECTION
 THROUGH SCRUB OAK SHAFT NO. 2

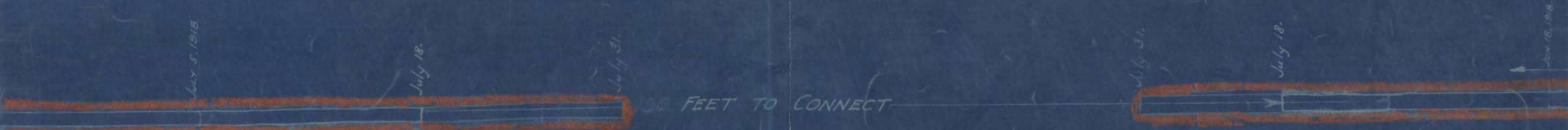


DIAMOND DRILL HOLES
Nos. 1 and 3.

PLAN OF SCRUB OAK WORKINGS



VERTICAL LONGITUDINAL SECTION THROUGH SCRUB OAK VEIN



DIAMOND DRILL
HOLES NOS 4 AND 5.

PROBABLE COURSE OF VEIN NORTH OF SHAFT

ORE TO 169.5'
CORE ANALYSIS
Fe-39.95%
P-0.055%

ORE 73'

HORIZONTAL DRILL

232' LEVEL

FAULT N°2

Fe-44.34%
P-0.035%

STOCK HOUSE

SHOP BUILDINGS

POWER HOUSE

SCRUB OAK SHAFT No. 1.

OFFICE

APPROXIMATE LIMIT OF SURFACE WASH

SCRUB OAK N°1 SHAFT

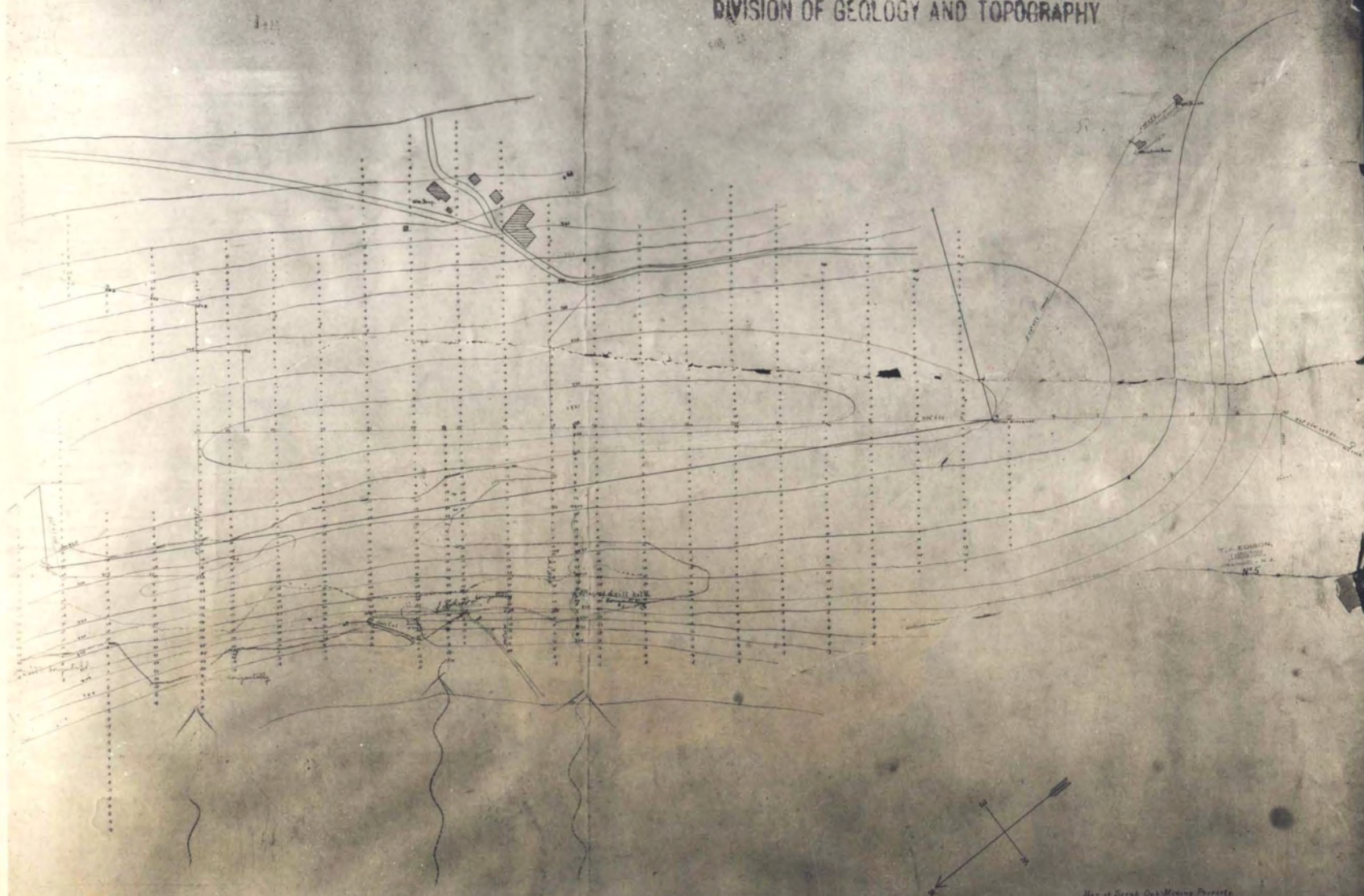
232' LEVEL

DEPT. OF CONSERVATION AND DEVELOPMENT
DIVISION OF GEOLOGY AND TOPOGRAPHY

MAGNETIC SURVEY
SCRUB OAK MINE AREA

E219 5
A

DEPT. OF CONSERVATION AND DEVELOPMENT
DIVISION OF GEOLOGY AND TOPOGRAPHY

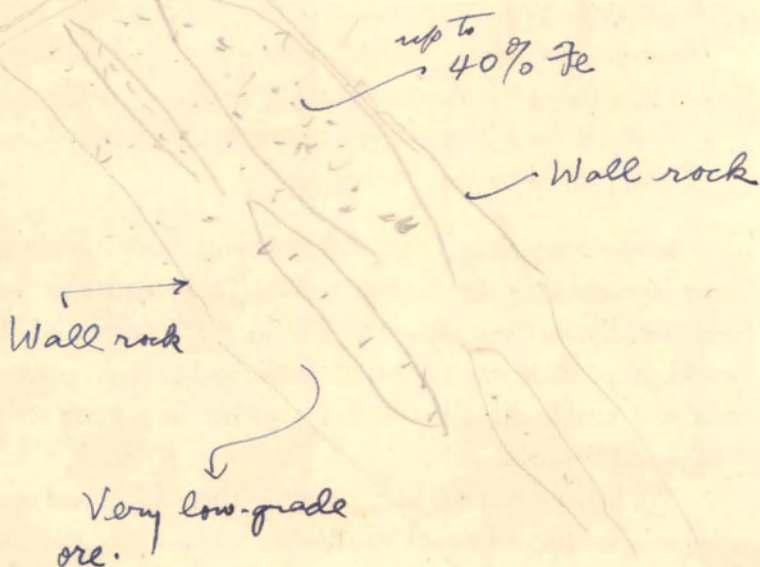


Map of Sears Oak Mining Property,
Harris County, Texas
Scale in feet or miles
D. F. Marshall July 1910

E219 5
B

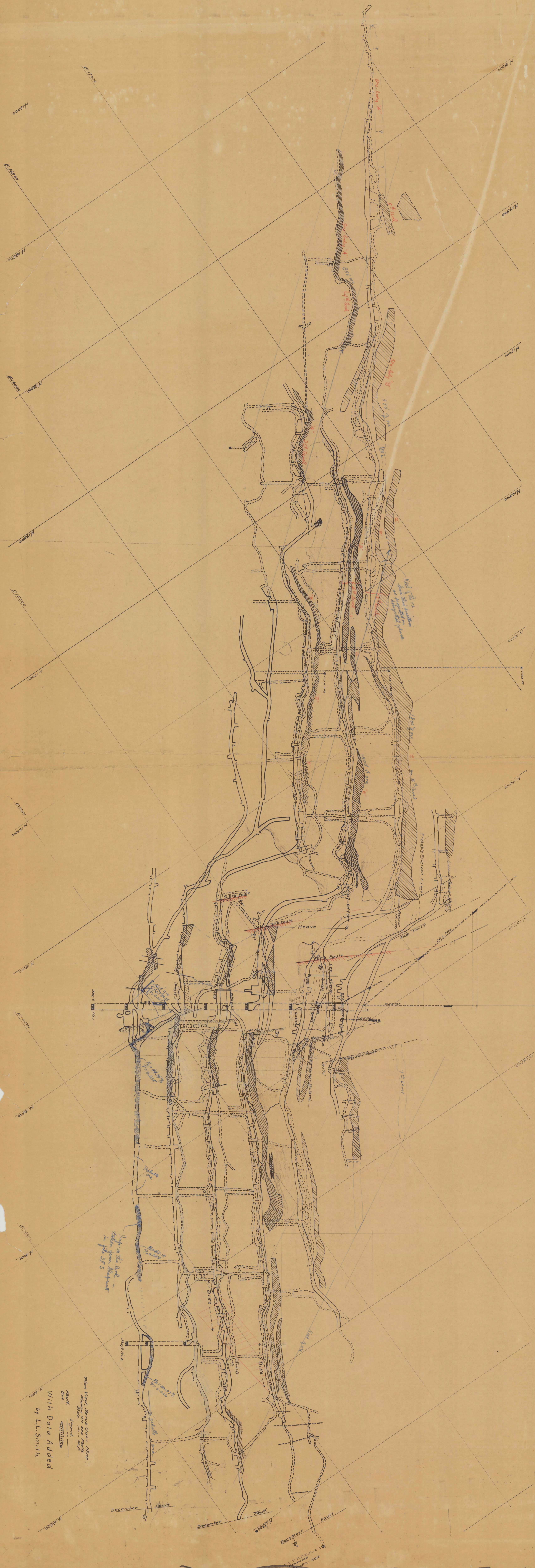
71-10

5 sketch made by Lawrence L. Smith
to show his conception of ore occurrence in
Scrub Oak mine



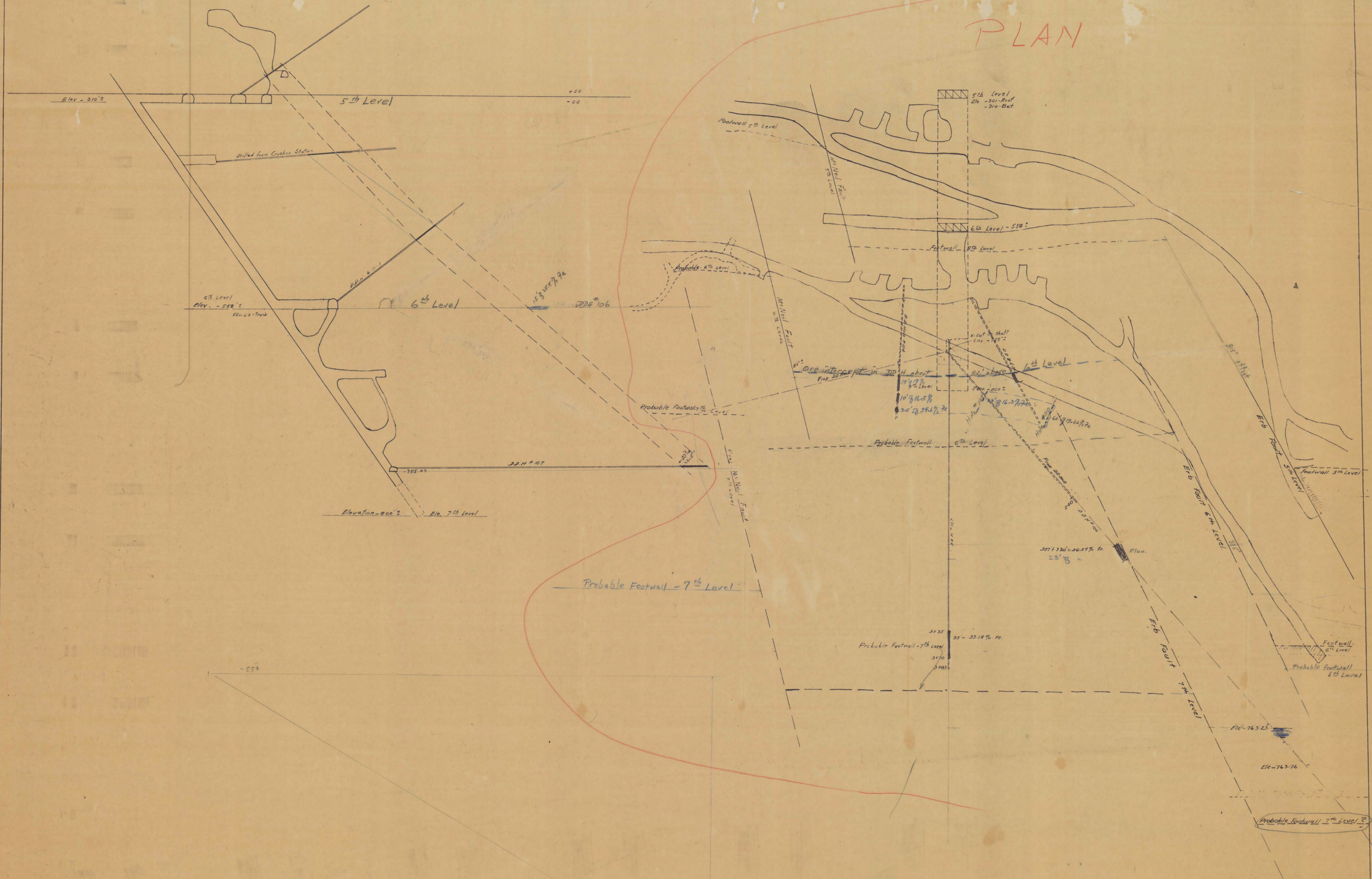
He has suggested to Alan Wood Steel Co.
that it mine only the shoots instead of
taking everything between hanging wall
and footwall.

Oct. 1944

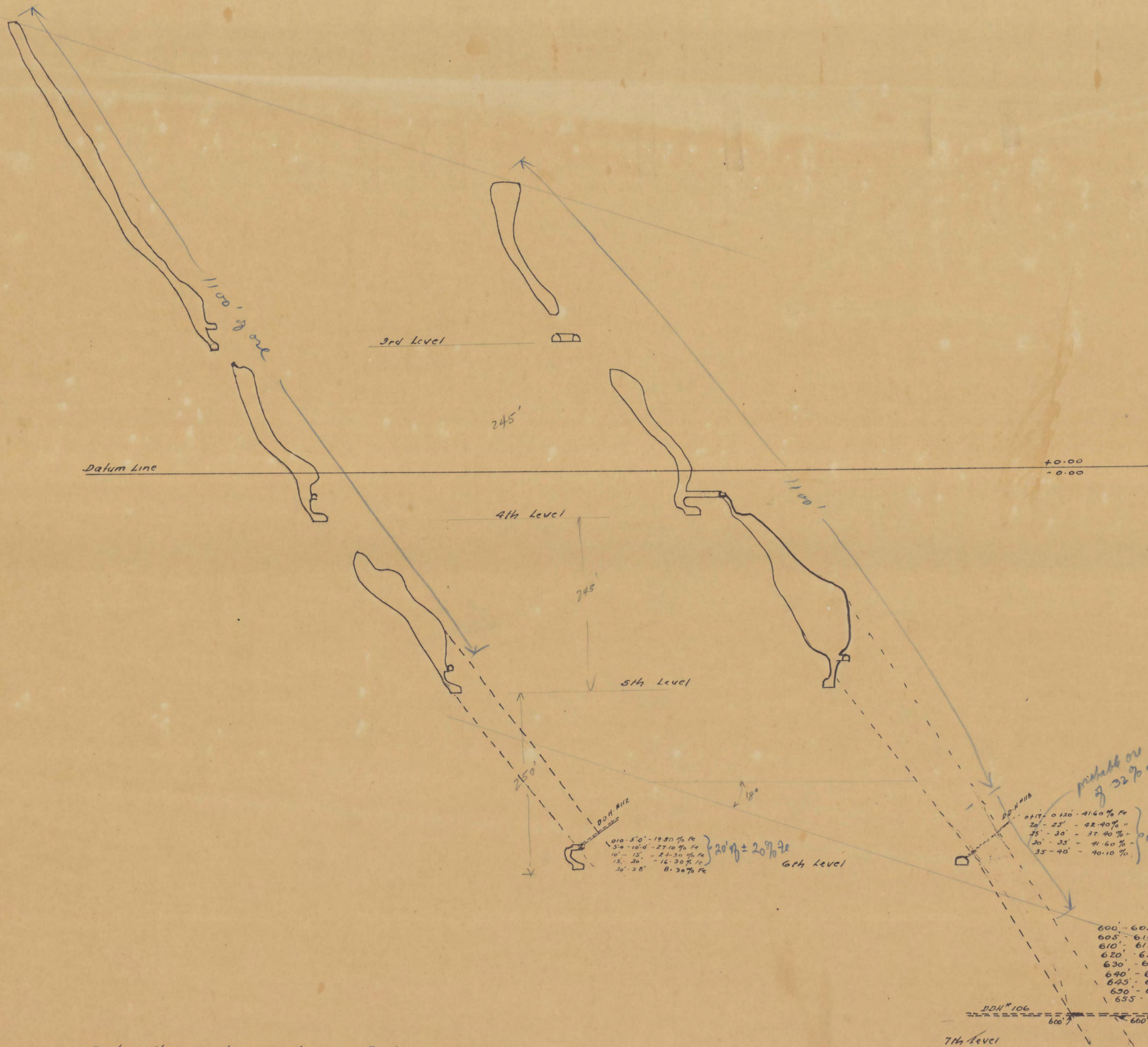


SECTION

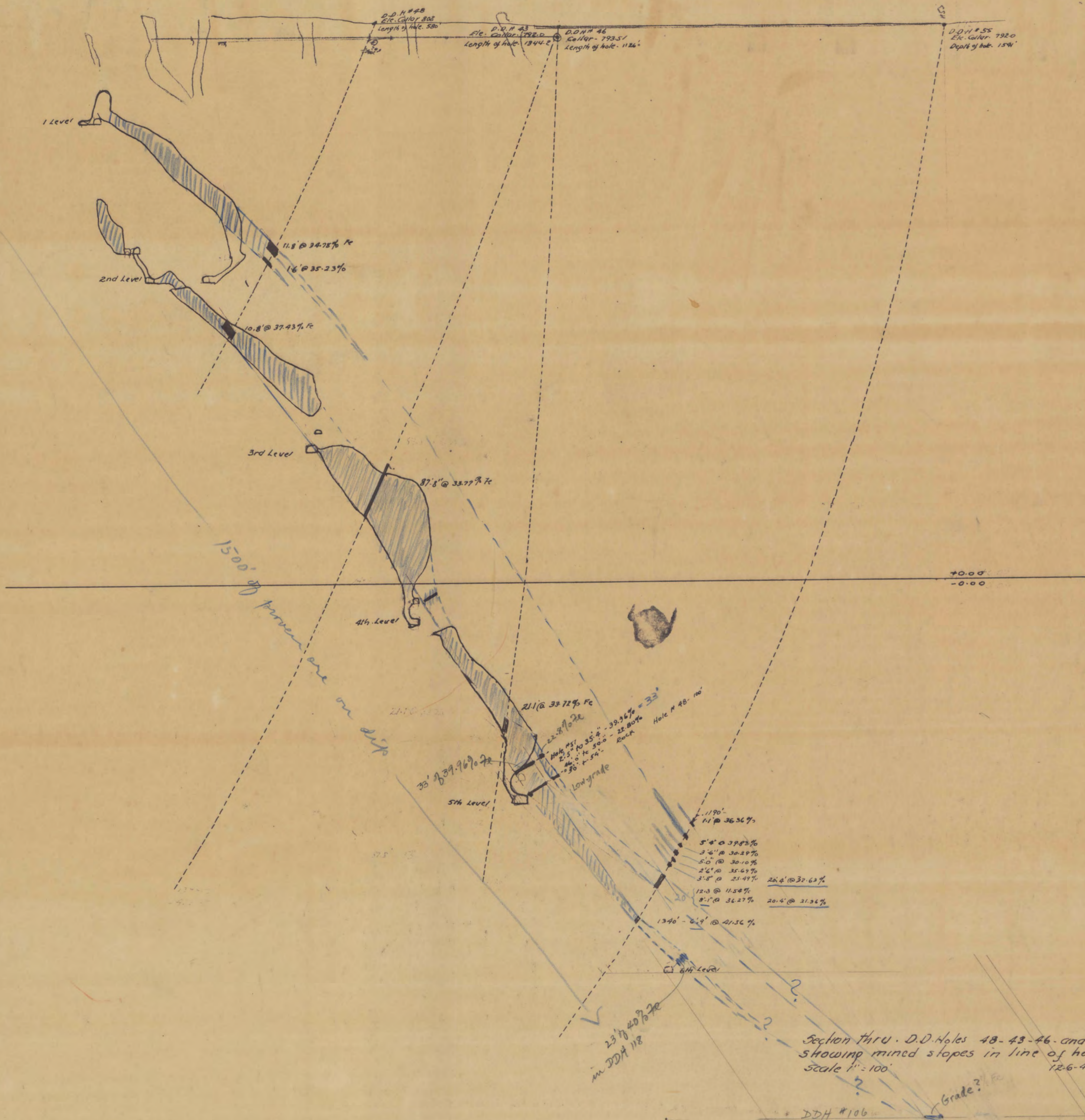
PLAN



Alan Wood Steel Co.
Dover, N.J.
Mining Dept. Scrub Oaks Div.
Map showing Drill holes
to prove orebody on 7th Level.
By WJK
Scale 1" = 30'
Est. 7-40
6044



3177.4
25.8



5th Level

Ave. grade of 15' ore
= 25.6% Fe

10' of 22.8% Fe

9' of 25.35% Fe

010 to 015 Rock
Avg. Gr. 13.66%

194-203' lean - 12.30%
191 to 194' lean - 9.20%
187 to 191' ore - 25.20%
168' to 187' lean - 4.62%
148' to 168' Rock - 16.30%
135 to 148' ore - 20.10%
135 to 148' Avg. Grade 16.30%

0137 - 0185 lean ore - Avg. Gr. 8.78%
010 - 0127 Rock

144.5 to 148 ore 39.60%
170 to 180 lean ore - 16.55%
165 to 170' ore. 7.50%
150 to 155' ore. 15.62%
145 to 150' ore - 23.50%
140 to 145' ore. 13.30%

Ore on 6th level
Ave. gr. = 17.5% Fe

24' 0" to 24' 9" lean ore 21.80%
19' 6" - 24' 0" ore. 40.70%
010 - 19' 4" Rock
Avg. Grade 25.61%

89.0 to 89.0' Rock
80.0 to 89.0' ore - 21.42%
79.0 to 80.0' Rock
78.5 to 79.0' ore - 12.36%
78.5 to 79.0' ore - 33.55%
010 to 68.5' Rock
Avg. Grade 22.82%

103.6 to 126' Rock
98.6 to 103.6' ore 26.50%
96.6 to 98.6' lean - 8.05%
94.6 to 96.6' lean 18.80%
91.6 to 94.6' ore - 26.90%
010 - 87' 6" Rock
Avg. grade 25.35%

109-110' ore 44%
110-112' Rock
112-114' ore 39%
114-121' lean ore 10%
121-129' " 22%
126-131' ore 41%
134-139' Rock
Avg. Grade - 16.84%

32.8 to 39.1' ore 34.00%
30.6 to 32.8' ore 10.10%
40.0 to 50.6' ore 40.50%
010 to 0140' Rock
Avg. Grade 33.09%

85.6' ore 25.30%
89.4' ore 35.80%
77.0 to 85.6' ore 21.80%
71.9 to 77.9' ore 43.00%
69.4' to 71.9' ore 43.00%
010 to 69.4' Rock
Avg. Grade 31.90%

6th Level

Ore on 5th level

6th Level

McNeil fault

McNeil fault

5th Level

Scale 1" = 50'