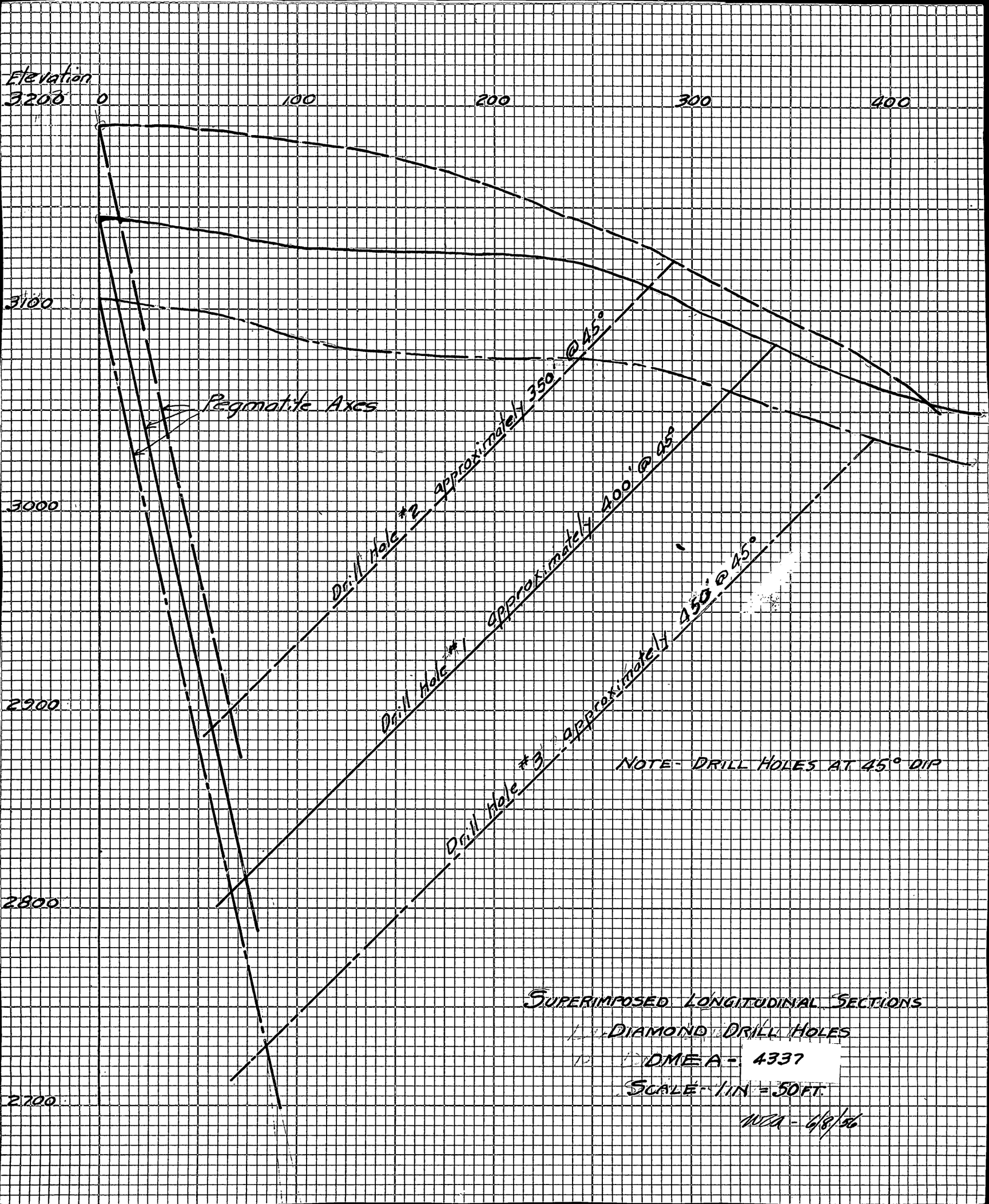
Elevation
3200
3100
3000
2900
2800
2700
0
100
200
300
400
Pegmatite Axes
Drill Hole #2 approximately 350' @ 45°
Drill Hole #1 approximately 400' @ 45°
Drill Hole #3 approximately 450' @ 45°
NOTE- DRILL HOLES AT 45° DIP
SUPERIMPOSED LONGITUDINAL SECTIONS
DIAMOND DRILL HOLES
DME A- 4337
SCALE- 1/IN = 50 FT.
WJA - 6/8/56

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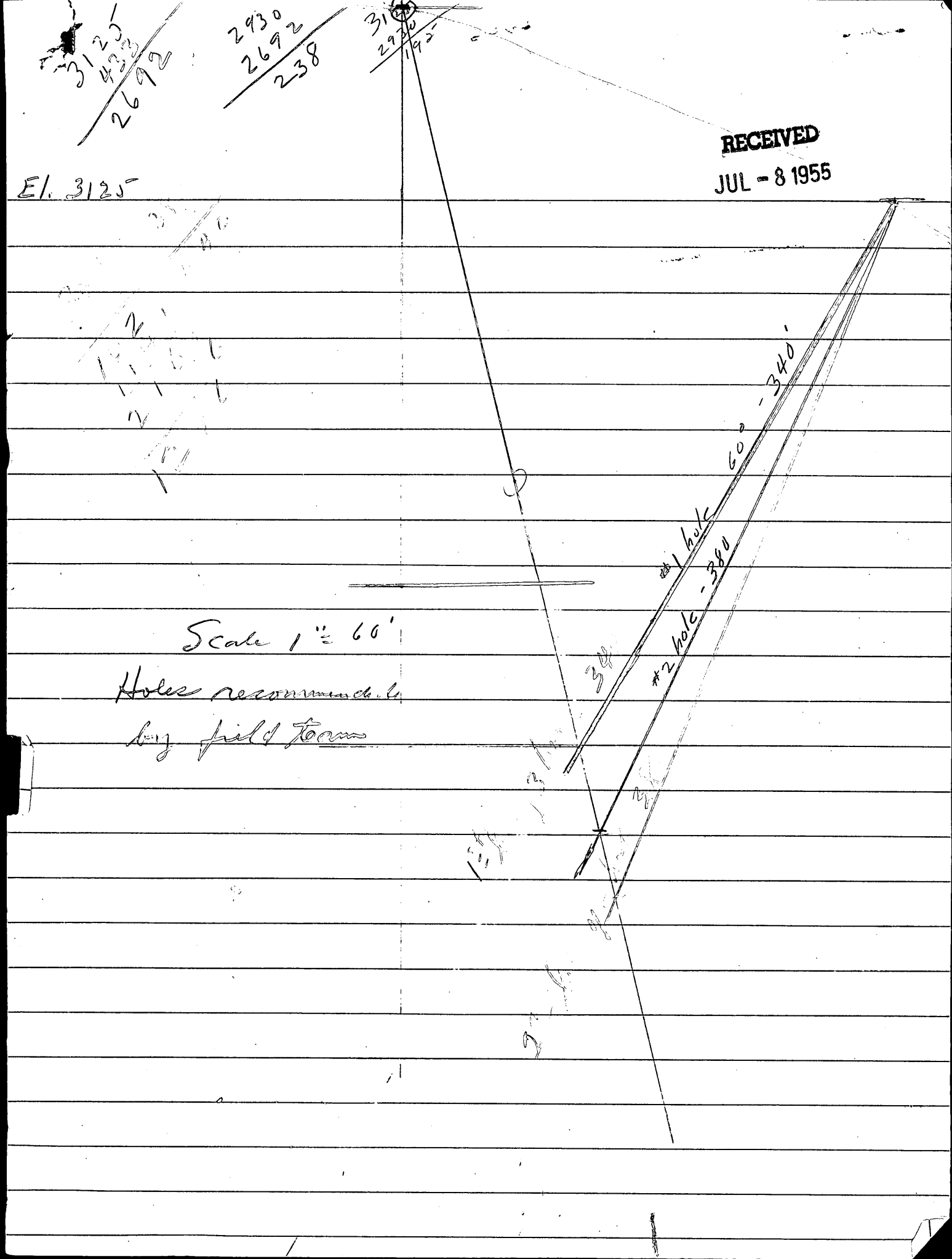
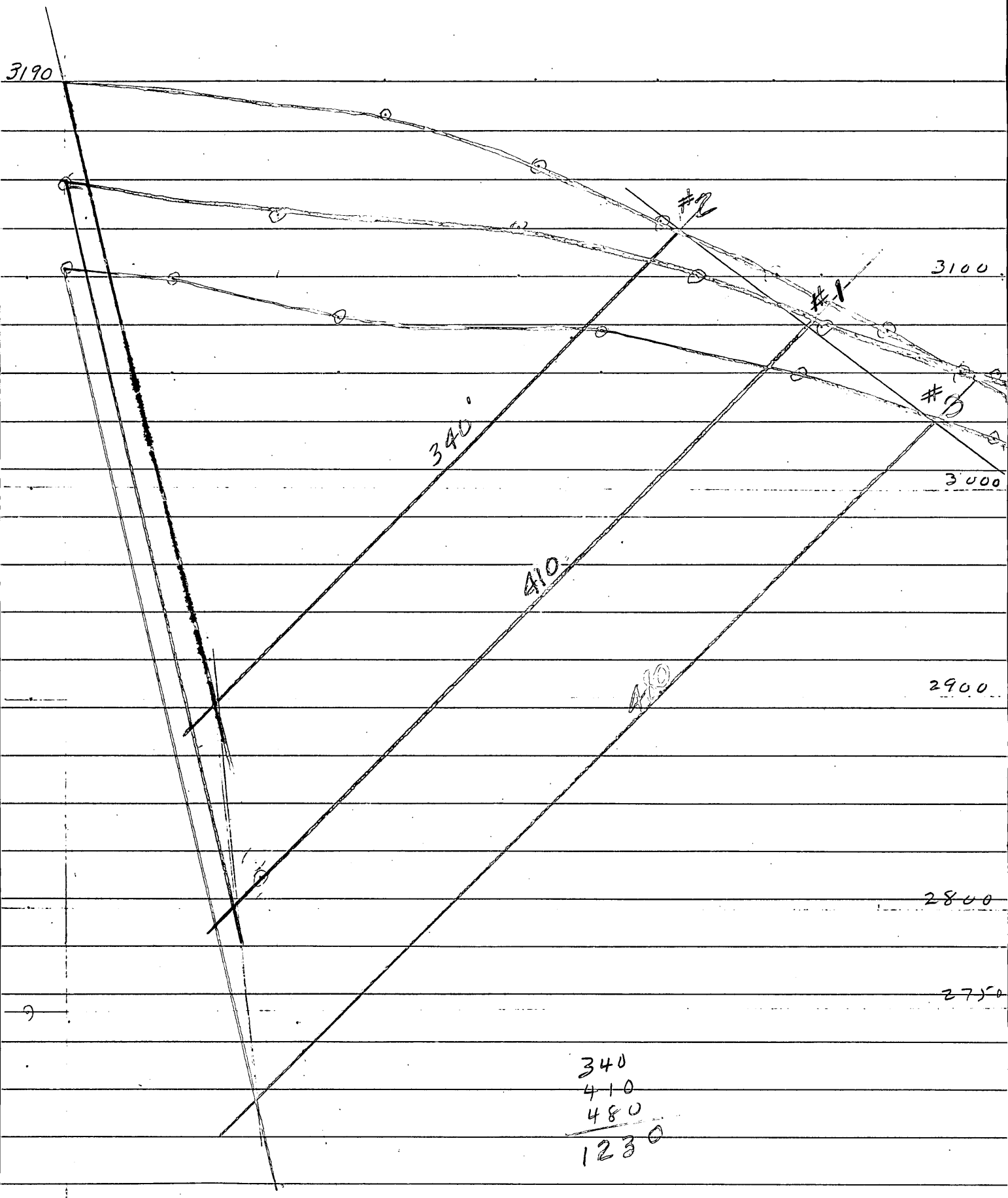
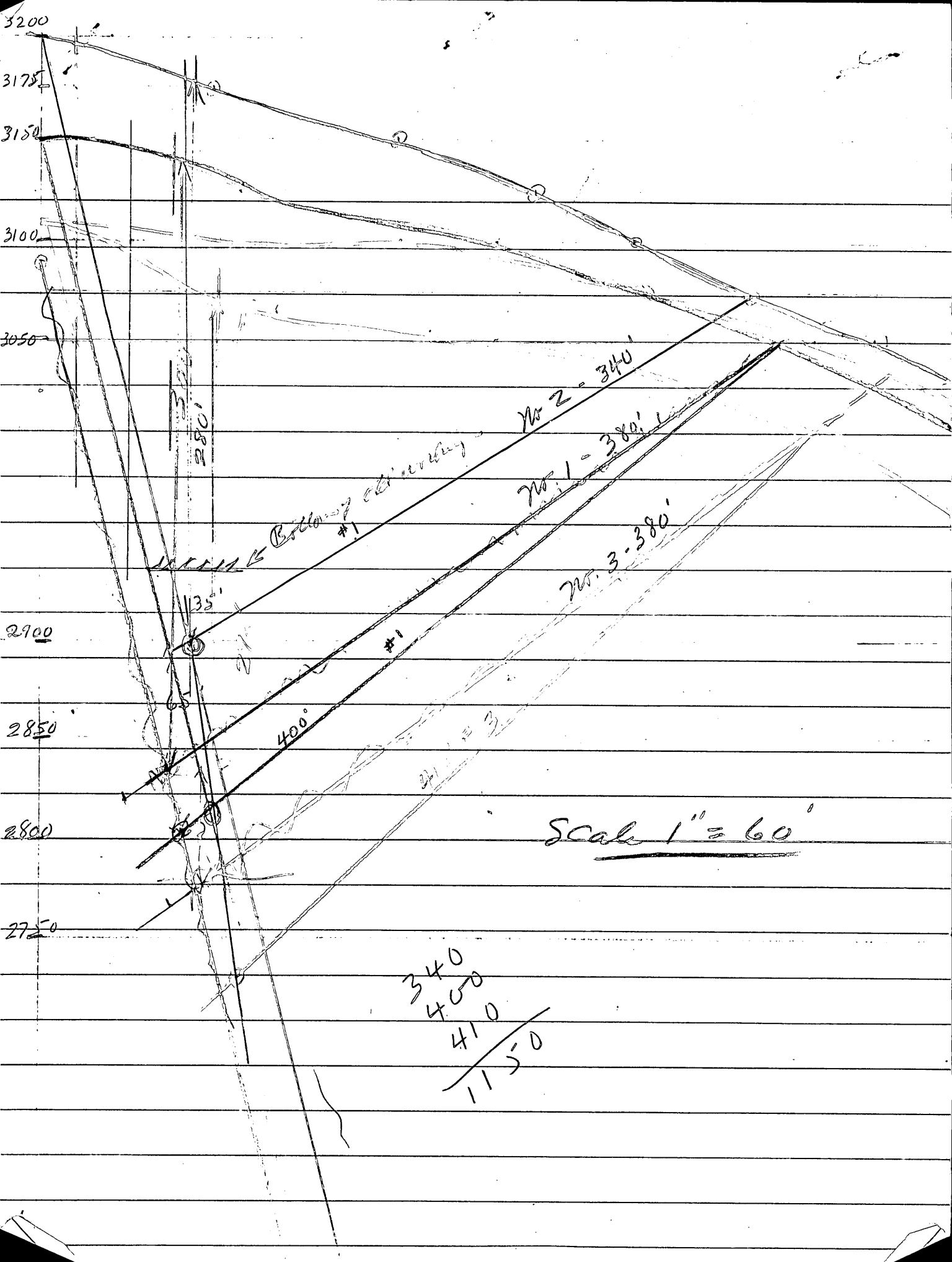
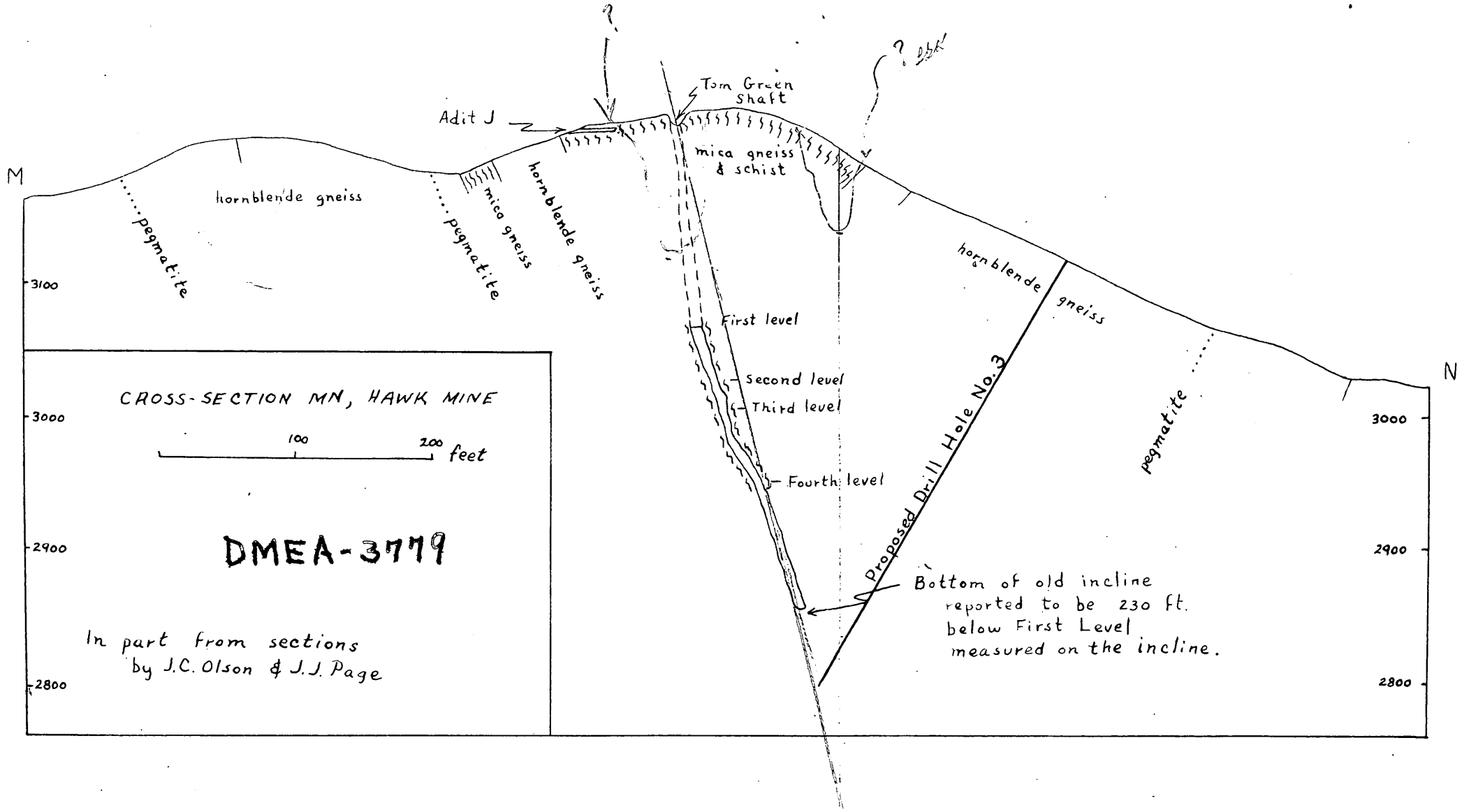
JUL - 8 1955





340
410
480
1230


3200
3175
3150
3100
3050
2900
2850
2800
2750
280'
135'
65'
400'
#1
#1
No 2 - 340'
No 1 - 380'
No 3 - 380'
Scale 1" = 60'
340
400
410
1150


CROSS-SECTION MN, HAWK MINE
100
200
feet
DMEA-3779
In part from sections
by J.C. Olson & J.J. Page
M
N
3100
3000
2900
2800
Adit J
Tom Green
Shaft
mica gneiss
& schist
hornblende gneiss
pegmatite
mica gneiss
hornblende gneiss
pegmatite
hornblende
gneiss
pegmatite
First level
Second level
Third level
Fourth level
Proposed Drill Hole No. 3
Bottom of old incline
reported to be 230 ft.
below First Level
measured on the incline.

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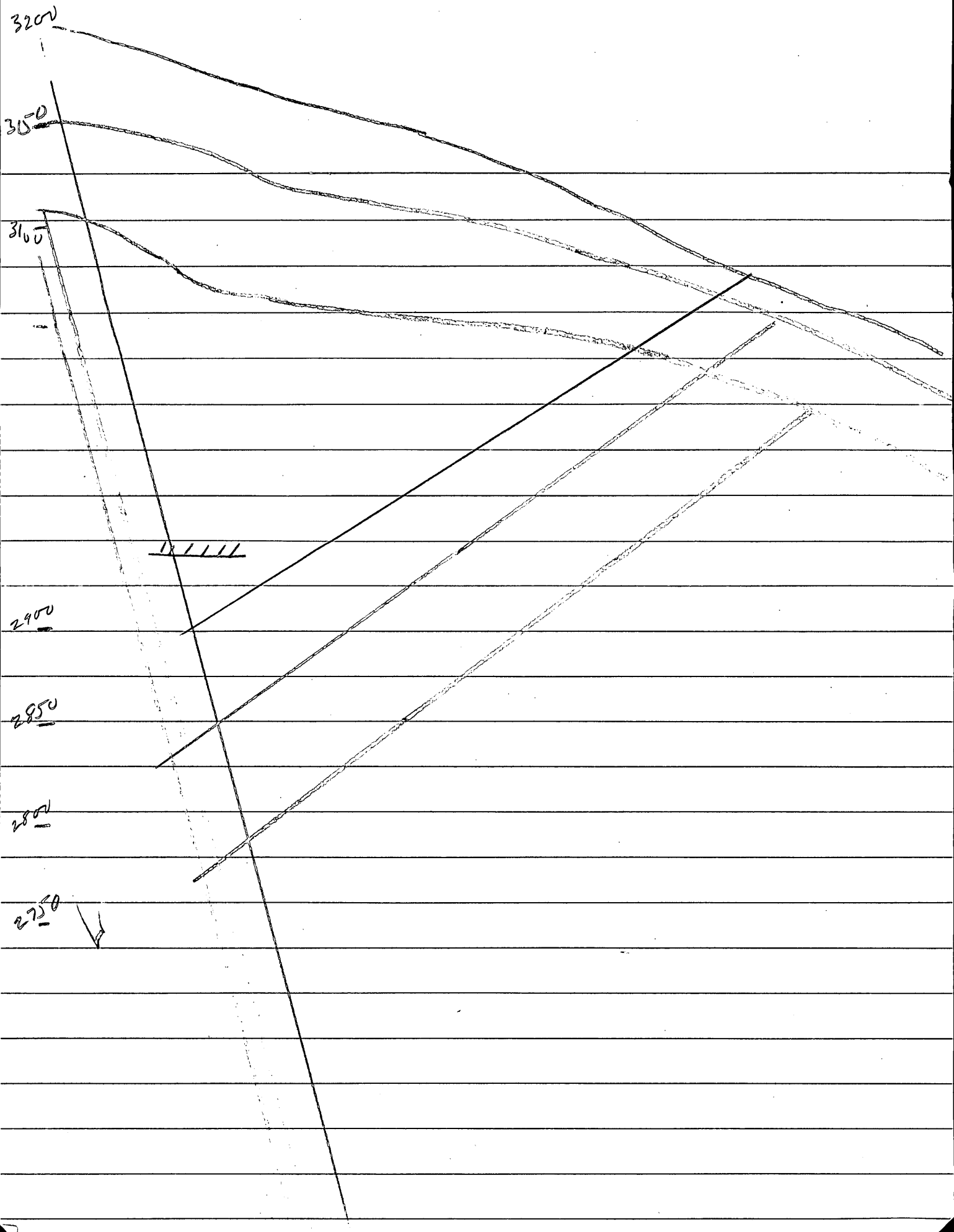
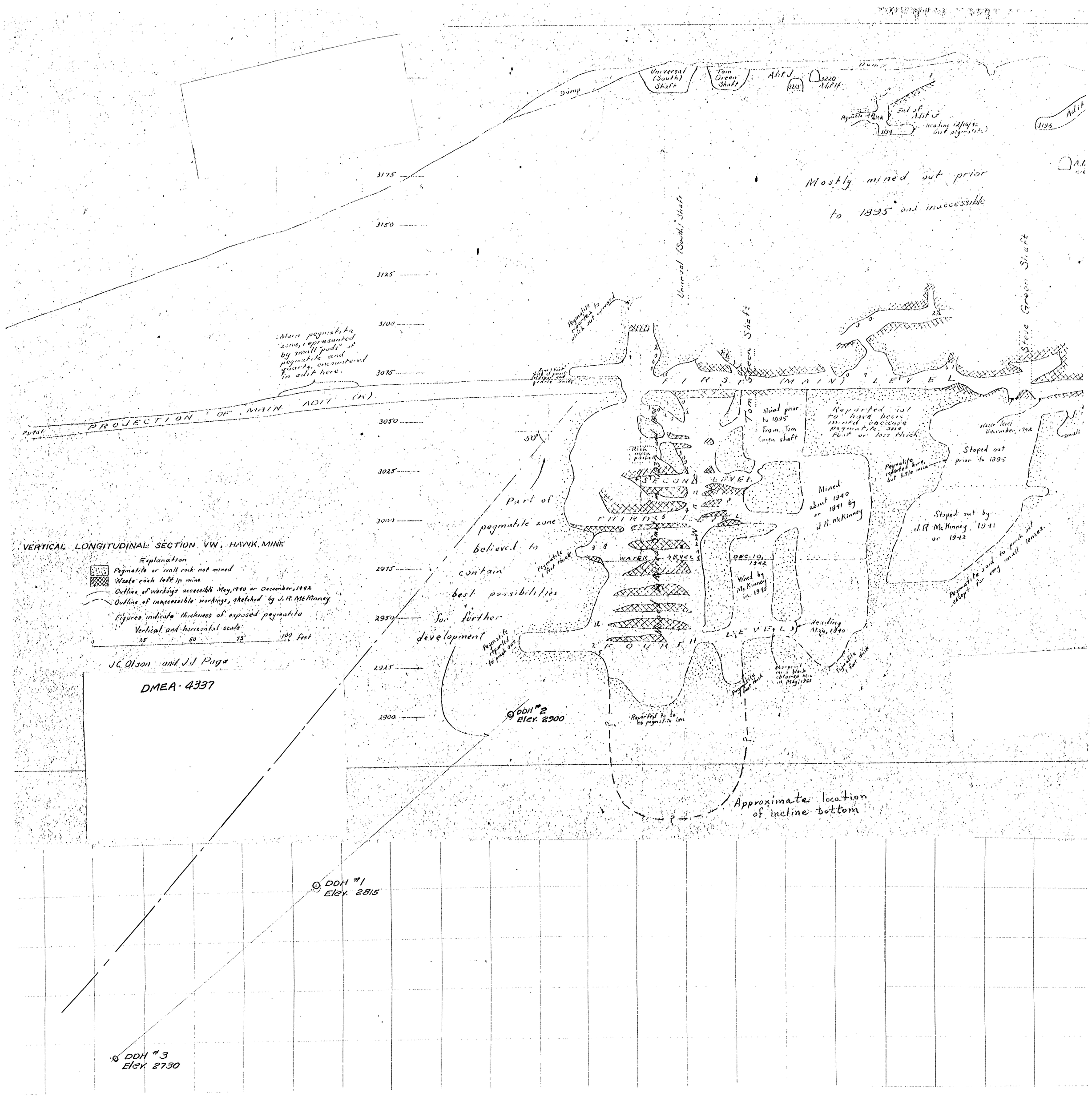
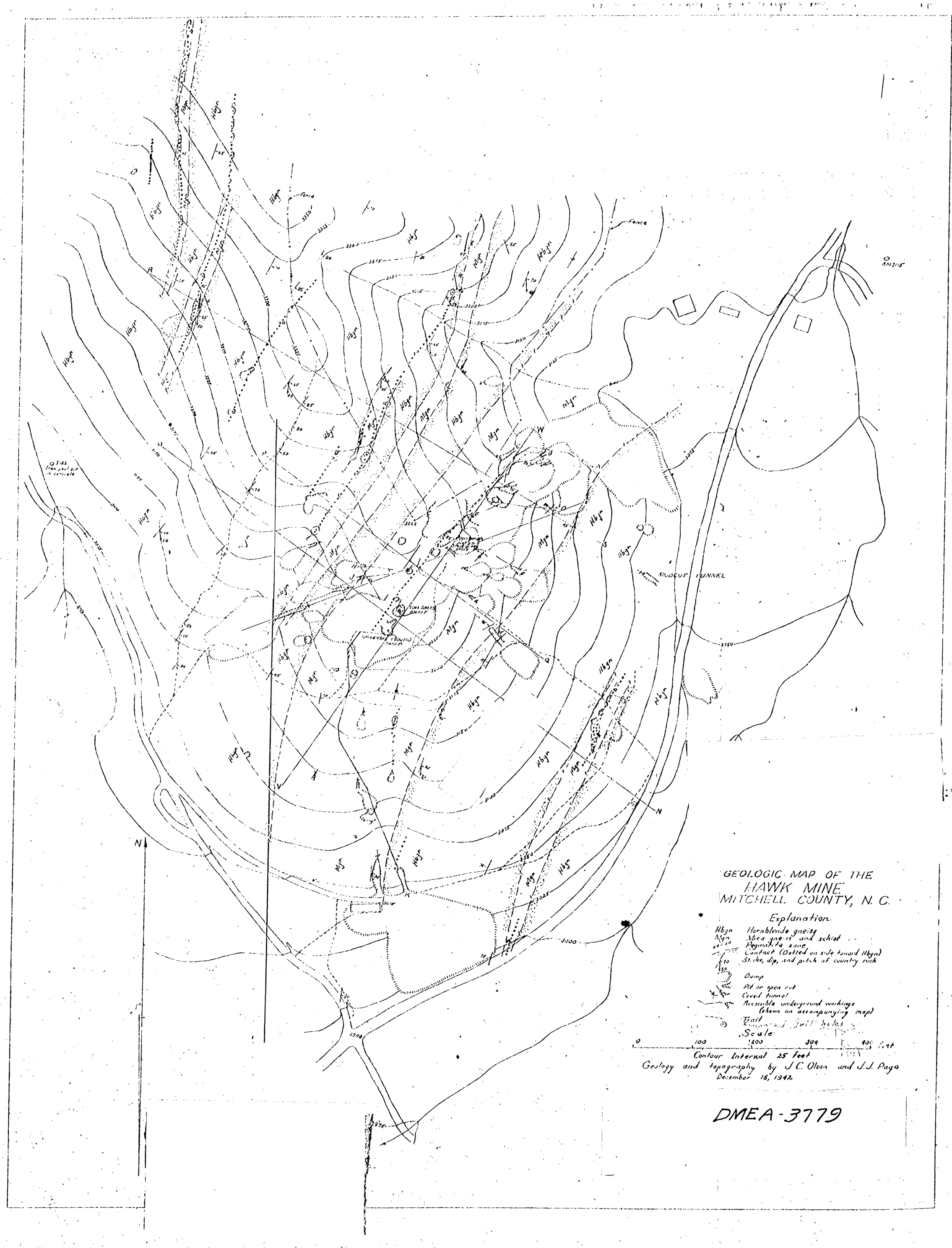
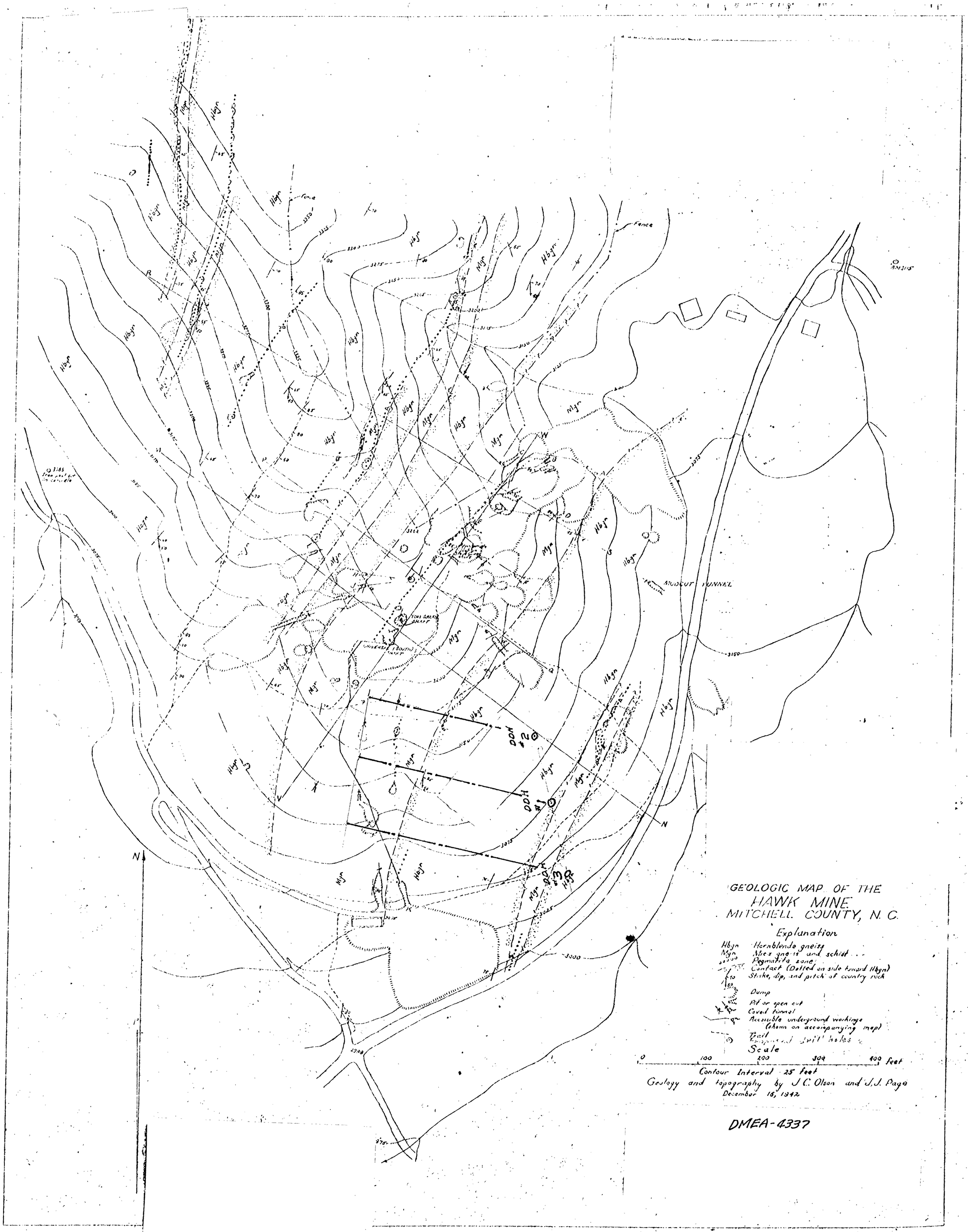
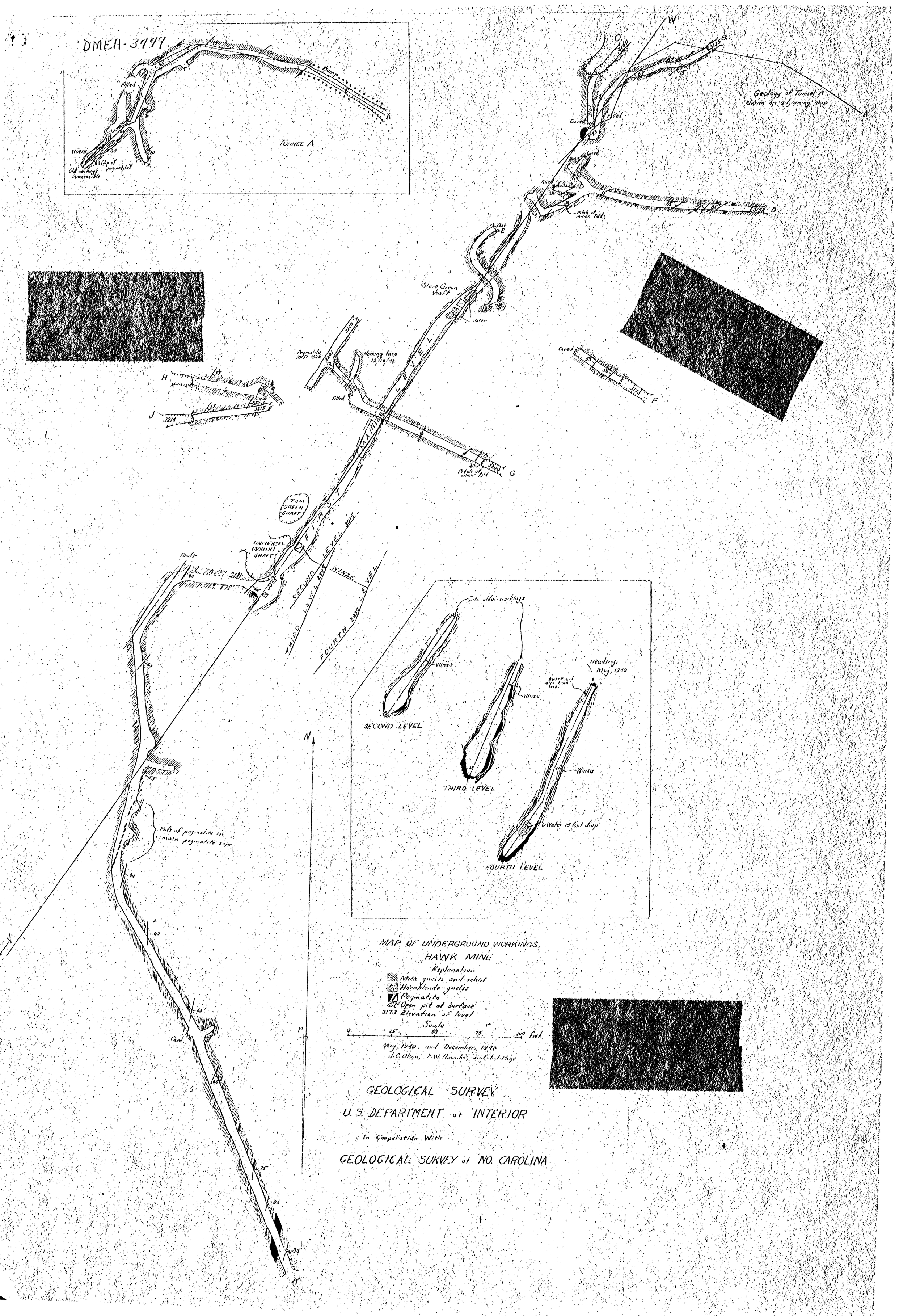
JUN 1 0 1955


3200
3050
3100
2900
2850
2800
2750


VERTICAL LONGITUDINAL SECTION VW, HAWK MINE
Explanation
Pegmatite or wall rock not mined
Waste rock left in mine
Outline of workings accessible May, 1940 or December, 1942
Outline of inaccessible workings, sketched by J. R. McKinney
Figures indicate thickness of exposed pegmatite
Vertical and horizontal scale
0 25 50 75 100 feet
J.C. Olson and J.J. Page
DMEA-4337
Universal (South) Shaft
Tom Green Shaft
Steve Green Shaft
Dump
Adit J
3220 Adit K
End of Adit J
Heading 12/19/42 (not pegmatite)
Adit
Mostly mined out prior to 1895 and inaccessible
Main pegmatite zone, represented by small "pods" of pegmatite and quartz encountered in adit here.
PROJECTION OF MAIN ADIT (K)
Portal
Pegmatite reported to pinch out upward
FIRST (MAIN) LEVEL
Mined prior to 1895 from Tom Green shaft
Reported not to have been mined because pegmatite was four or less thick
Water level December, 1942
Stoped out prior to 1895
Pegmatite reported here but little mica
Rich mica pocket
SECOND LEVEL
THIRD LEVEL
Mined about 1940 or 1941 by J.R. McKinney
Stoped out by J.R. McKinney, 1941 or 1942
Part of pegmatite zone believed to contain best possibilities for further development
Pegmatite 1 foot thick
WATER LEVEL
DEC. 10, 1942
Mined by Mr. Kinney in 1940
Pegmatite seen to pinch out except for very small lenses.
Heading May, 1940
FOURTH LEVEL
Pegmatite reported to pinch out
Pegmatite 1 foot thick
Gas-point mark black observed here in May, 1940
Pegmatite 1 foot thick
Pegmatite 1 foot thick
Reported to be no pegmatite here
DDH #2 Elev. 2900
DDH #1 Elev. 2815
DDH #3 Elev. 2730
Approximate location of incline bottom
3175
3150
3125
3100
3075
3050
3025
3000
2975
2950
2925
2900
50°


GEOLOGIC MAP OF THE
HAWK MINE
MITCHELL COUNTY, N. C.
Explanation.
Hbgn Hornblende gneiss
Mgn Mica gneiss and schist
Pegmatite zone
Contact (Dotted on side toward Hbgn)
Strike, dip, and pitch of country rock
Dump
Pit or open cut
Caved tunnel
Accessible underground workings (shown on accompanying map)
Trail
Scale
0 100 200 300 400 Feet
Contour Interval 25 feet
Geology and topography by J.C. Olson and J.J. Page
December 16, 1942
MUDCUT TUNNEL
Fence
N
DMEA-3779


GEOLOGIC MAP OF THE
HAWK MINE
MITCHELL COUNTY, N. C.
Explanation
Hbgn Hornblende gneiss
Mgn Mica gneiss and schist
Pegmatite zone
Contact (Dotted on side toward Hbgn)
Strike, dip, and pitch of country rock
Dump
Pit or open cut
Caved tunnel
Accessible underground workings (shown on accompanying map)
Trail
Proposed drill holes
Scale
0 100 200 300 400 feet
Contour Interval 25 feet
Geology and topography by J.C. Olson and J.J. Page
December 16, 1942
DMEA-4337
Fence
MUDCUT TUNNEL
DDH #2
DDH #1
DDH #3
N


DMEA-3779
TUNNEL A
Dump
Filled
Caved
Geology of Tunnel A shown on adjoining map
Pitch of minor fold
Steve Green shaft
Water
Pegmatite 10 ft thick
Working face 12/16/42
LEVEL
MAIN
Patch of minor fold
TOM GREEN SHAFT
UNIVERSAL (SOUTH) SHAFT
Fault
FIRST LEVEL 3015
SECOND LEVEL 2975
WINZE
THIRD LEVEL 2939
FOURTH LEVEL
Pods of pegmatite in main pegmatite zone
Pits of old workings
Winze
Headings May, 1940
SECOND LEVEL
THIRD LEVEL
FOURTH LEVEL
Water 19 feet deep
MAP OF UNDERGROUND WORKINGS,
HAWK MINE
Explanation
Mica gneiss and schist
Hornblende gneiss
Pegmatite
Open pit at surface
3173 Elevation of level
Scale
0 25 50 75 100 feet
May, 1940, and December, 1941
J.C. Olson, F.W. Hinrichs, and H.J. Page
GEOLOGICAL SURVEY
U.S. DEPARTMENT of INTERIOR
In Cooperation With
GEOLOGICAL SURVEY of NO. CAROLINA

DMEA-3779

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U. S. GEOL. SURVEY

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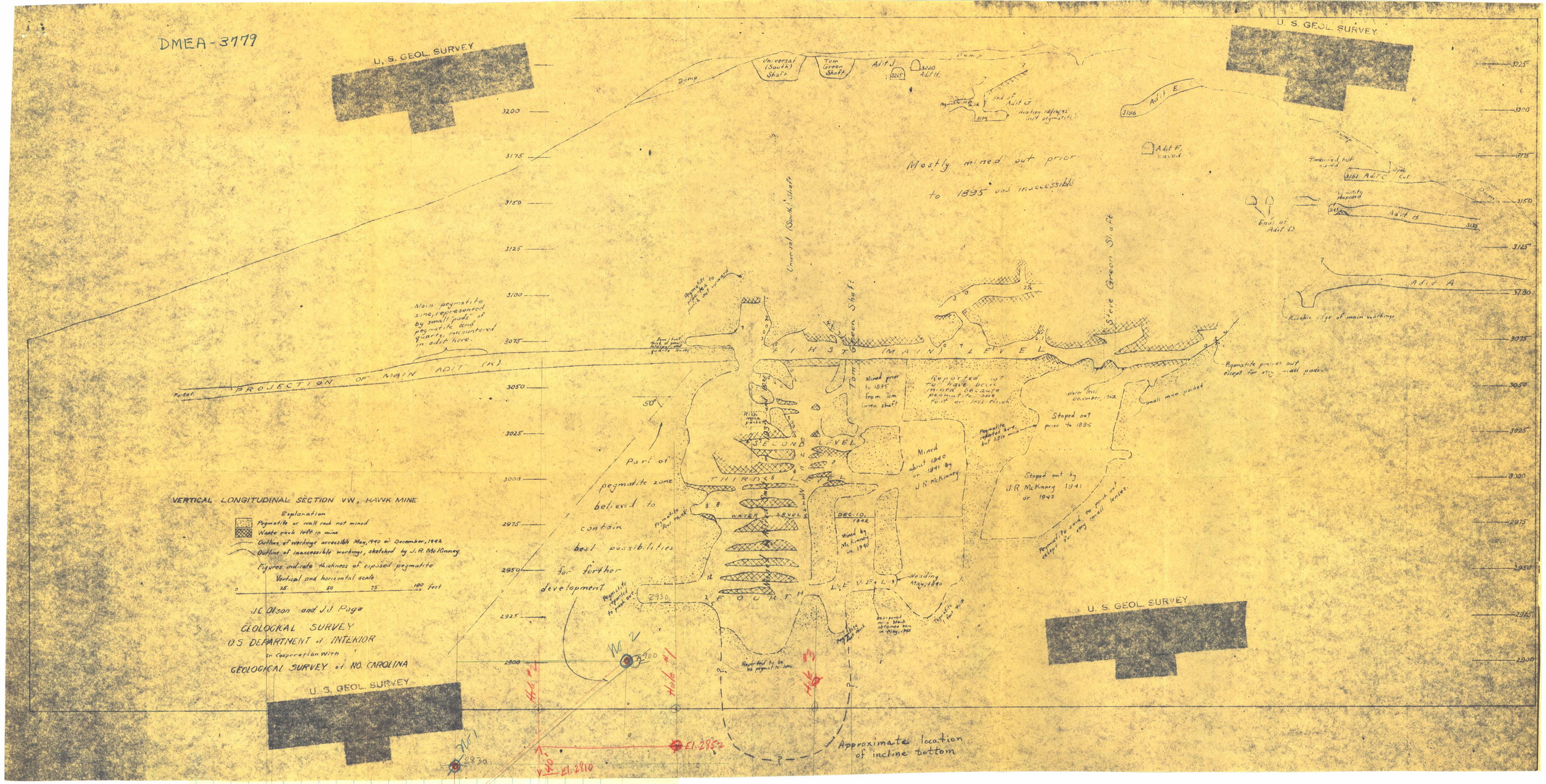
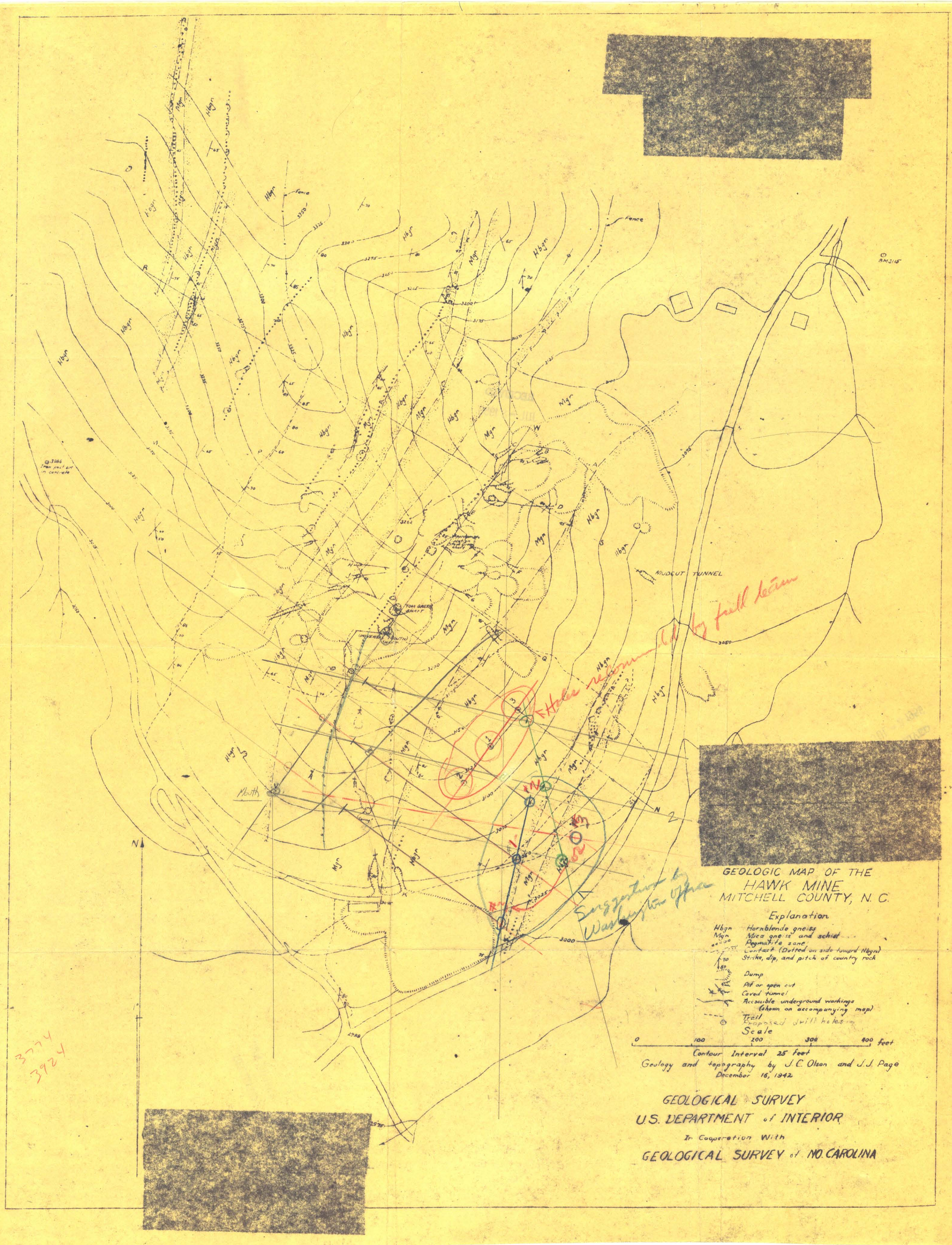
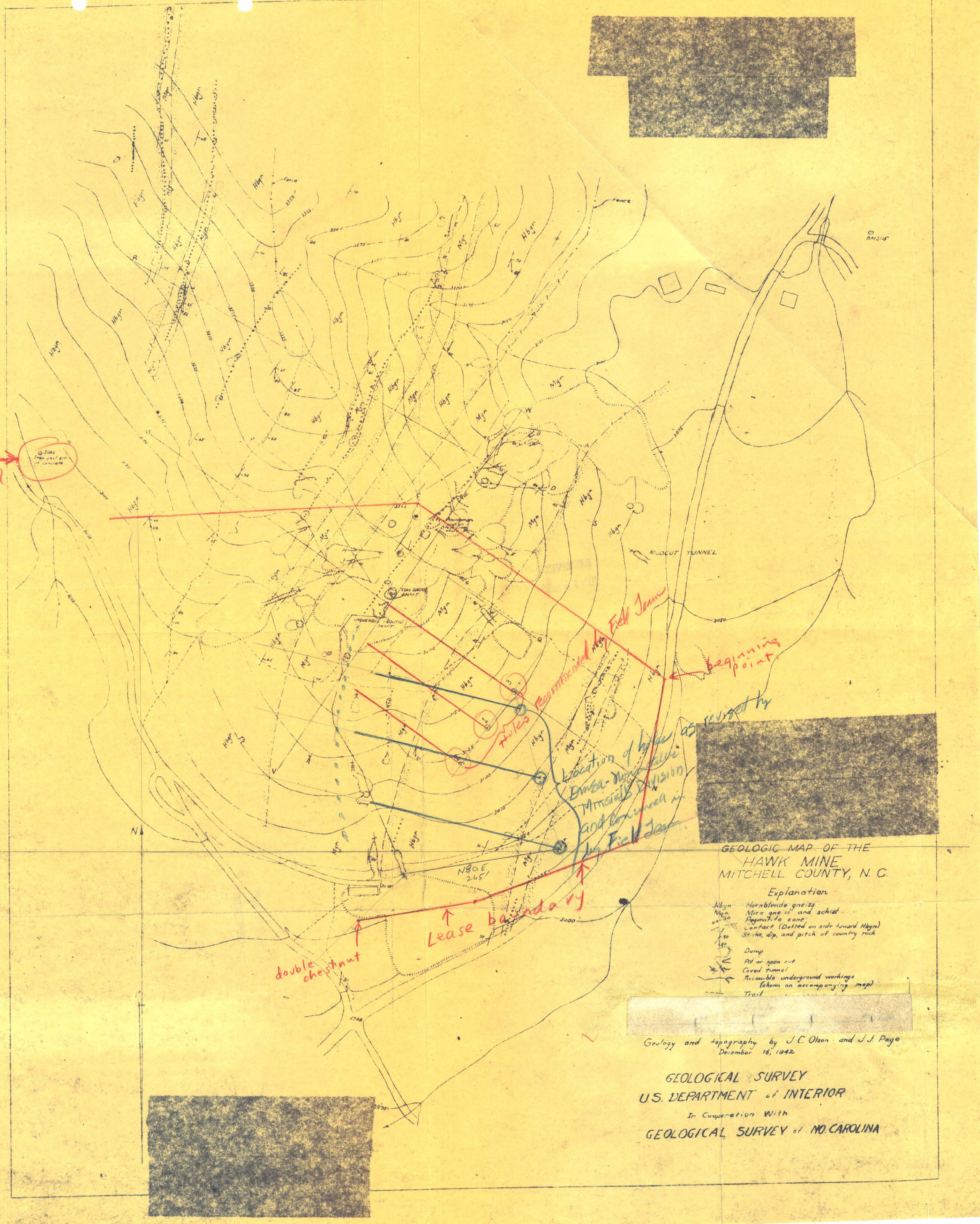
U. S. GEOL. SURVEY

U. S. GEOL. SURVEY




GEOLOGIC MAP OF THE
HAWK MINE
MITCHELL COUNTY, N. C.
Explanation
Hbgn Hornblende gneiss
Mgn Mica gneiss and schist
Pegmatite zone
Contact (Dotted on side toward Hbgn)
Strike, dip, and pitch of country rock
Dump
Pit or open cut
Caved tunnel
Accessible underground workings (shown on accompanying map)
Trail
Proposed drill holes
Scale
0 100 200 300 400 feet
Contour Interval 25 feet
Geology and topography by J.C. Olson and J.J. Page
December 16, 1942
GEOLOGICAL SURVEY
U.S. DEPARTMENT of INTERIOR
In Cooperation With
GEOLOGICAL SURVEY of NO. CAROLINA
MUDCUT TUNNEL
TOM GREEN SHAFT
Fence
BM3115
Holes recommended by field locum
Suggestion by Washington office
3774
3924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Trail
Geology and topography by J.C. Olson and J.J. Page
December 16, 1942
GEOLOGICAL SURVEY
U.S. DEPARTMENT of INTERIOR
In Cooperation With
GEOLOGICAL SURVEY of NO. CAROLINA
MUDCUT TUNNEL
TOM GREEN SHAFT
UNIVERSAL (SOUTH) SHAFT
BM3115
N80E 2651
N
corner of lease ?
double chestnut
Lease boundary
beginning point
Holes recommended by Field Team
Location of holes as revised by Bureau-Mineral Division and concurred in by Field Team.