

19th ANNUAL

# *Franklin - Sterling*

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October 11th & 12th, 1975



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### THE ZINC MINER

Dedicated to the memory of the men who worked in the world famous Franklin and Sterling mines. Dedicated May 7, 1972.

This statue, mounted on a concrete base that was used for a hoist that drew crude ore from the Parker Shaft, was the work of Sculptor Jarvis Boone. It depicts the miner of early days, wearing a checked flannel shirt, heavy underwear to combat the coldness of the mine, he wears boots because of the constant presence of water in the mines. On his head he wears the original "hard hat" with a candle for illumination. In his right hand he carries a sledge hammer and drill bit. In his left hand is his lunch bucket which sustained him for the day's work in the mine.

The statue, paid for by public contributions, stands on the lawn outside the Franklin Mineral Museum, facing the visitors as they walk to the museum entrance. He also faces the setting sun, symbolical of the end of the day and the end of mining in Franklin.



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## MINING AT FRANKLIN — SYNOPSIS

By CLARENCE HAIGHT, former Mine Superintendent at Franklin

A mine is mysterious to many people because it cannot be seen in its entirety. If the Franklin mine was inverted and placed on the surface, it would have required a building about a mile long, five hundred feet wide and one thousand feet at its peak to enclose it.

The "floors" were known as levels, and they were fifty or one hundred feet apart rather than the eight-ten feet of office buildings. There were eighteen levels at Franklin and these levels were connected by shafts containing the mining version of elevators for men and materials as well as water and air pipes, and phone and electric cables.

The hallways from the elevators to the working areas were tunnels, called drifts. Tram cars were frequently operated in the drifts to haul materials and men. The drifts were occasionally intersected by cross-cuts, which were tunnels extending from the footwall to the hanging wall to provide access, remove broken ore, etc. If drifts were the avenues, cross-cuts were the streets.

Ore bodies do not occur in rectangular blocks as buildings do. The outer-limits of the ore bodies are usually at an angle with the horizontal. Standing within the ore body, the outer side of the body which would be above your head (has an acute angle with the horizontal) is the hanging wall; that which would be beneath your feet (forms an obtuse angle with the horizontal) is the footwall.

When the ore is thick, as it was at Franklin, it is usually mined by transverse stopes. Franklin was first mined by tunnels at fifty foot levels. After consolidation of the various mining companies, engineering studies led to mining by transverse stopes. In essence, this comprised removing ore in sections seventeen feet wide running from the foot wall to the hanging wall. Between each stope, a pillar was left. Each pillar was about thirty feet wide and ran from footwall to hanging wall (as much as 300 feet) and to the top of the mine (up to one thousand feet high).

When all the ore was removed except for the pillars, a system of top slicing was introduced to utilize the ore in the pillars. This comprised taking ten foot deep slices from the pillar, starting at the top of the pillar, across from footwall to hanging wall. In essence, a narrow opening of full height was first cut through the center of the drift to the hanging wall. The opening was then opened to full (thirty feet) width from the far end and worked back to the original opening. As the load on the supports became too heavy, (at about ten foot intervals), the supports for the cleared area were blasted and the load above caved to minimize the load on the working area.

Franklin ore averaged about a ton for each seven cubic feet. Some twenty million tons of ore were removed at Franklin. The ore averaged 20% zinc.

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## MINERAL SPECIES FOUND AT FRANKLIN/OGDENSBURG, N.J.

Edited by John L. Baum, Curator of The Franklin Mineral Museum, From Lists Prepared by Clifford Frondel, Frank Edwards, David Cook, Ewald Gerstmann, George Pigeon and John Baum. September 1975.

Acanthite	Bannisterite	Descloizite
Adamite	Barite	Devilline
Allactite	Barylite	Djurleite
Allanite	Barysilite	Dolomite
Alleghanyite	Baumite	Epidote
Almandine	Bementite	Epsomite
Amphibole	Berthierite	Erythrite
Actinolite	Bianchite	Esperite
Anthophyllite	Biotite	Epsomite
Barkevikite	Birnessite	Ettringite
Byssolite	Bixbyite	Eveite
Cummingtonite	Bornite	Feitknechtite
Edenite	Brandtite	Ferroschallerite
Fluorendenite	Brochantite	Flinkite
Enstatite	Brookite	Fluoborite
Hastingsite	Bustamite	Fluorite
Magnesioriebeckite	Cahnite	Franklinite
Pargasite	Calcite	Friedelite
Riebeckite	Carminite	Gageite
Tremolite	Celestite	Gahnite
Asbestos	Celsian	Galena
Analcime	Cerussite	Ganophyllite
Anatase	Chabazite	Gersdorffite
Andradite	Chalcocite	Glaucochroite
Anglesite	Chalcophanite	Chloanthite
Anhydrite	Chalcopyrite	Smaltite
Annabergite	Chloropal	Goethite
Anorthoclase	Chlorophoenicite	Gold
Barian Anorthoclase	Chondrodite	Graphite
Antimonian Groutite	Chrysocolla	Greenockite
Apatite	Clinochlore	Grimaldite
Fluorapatite	Clinochrysolite	Grossular
Hydroxyapatite	Clinohedrite	Groutite
Apophyllite	Conichalcite	Gypsum
Aragonite	Copper	Hancockite
Arsenic	Corundum	Hardystonite
Arsenolite	Covellite	Hausmannite
Arsenopyrite	Cryptomelane	Hedyphane
Aurichalcite	Cuprite	Hematite
Axinite	Cuproadamite	Hemimorphite
Ferroan	Cuspidine	Hendricksite
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Hortonolite	Manganhedenbergite	Anorthite
Hyalophane	Manganite	Oligoclase
Hydroandradite	Manganosite	Pimelite
Hydrohausmannite	Manganpyrosmalite	Pitticite
Hydrohetaerolite	Marcasite	Powellite
Hydrozincite	Margarite	Prehnite
	Margarosanite	Psilomelane
Idocrase	Mcgovernite	Pyrite
Idocrase	Melanterite	Pyroaurite
Cyprine	Metastrengite	Pyrochroite
Illite	Microcline	Pyrolusite
Ilmenite	Barian Microcline	Pyromorphite
	Millerite	Pyrophyllite
Jacobsite	Mimetite	Pyroxene
	Molybdenite	Augite
Kaolinite	Mooreite	Diopside
Kentrolite	Muscovite	Schefferite
Koninckite	Muscovite	Enstatite
Kottigite	Fuchsite	Johannsenite
Kutnahorite		Pyrrhotite
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Larsenite	Natrolite	
Lead	Neotocite	Quartz
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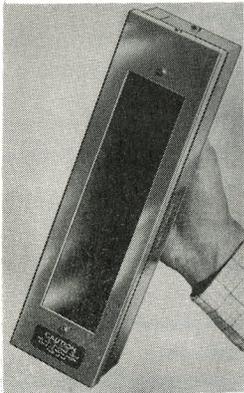


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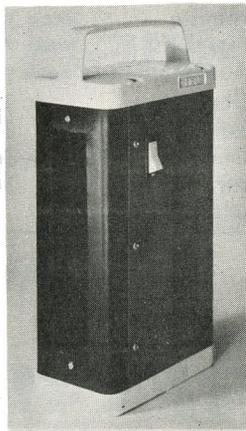
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| Barylite—Blue            | *Hodgkinsonite—Red       | Tremolite—Blue White,    |
| Calcite—                 | Hydrozincite—Blue-White  | Green                    |
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| Clinohedrite—Orange      | Microcline—Blue-White    | Xonotlite—Blue-White     |
| *Corundum—Red            | Norbergite—Yellow        | Zincite — Yellow, Green  |
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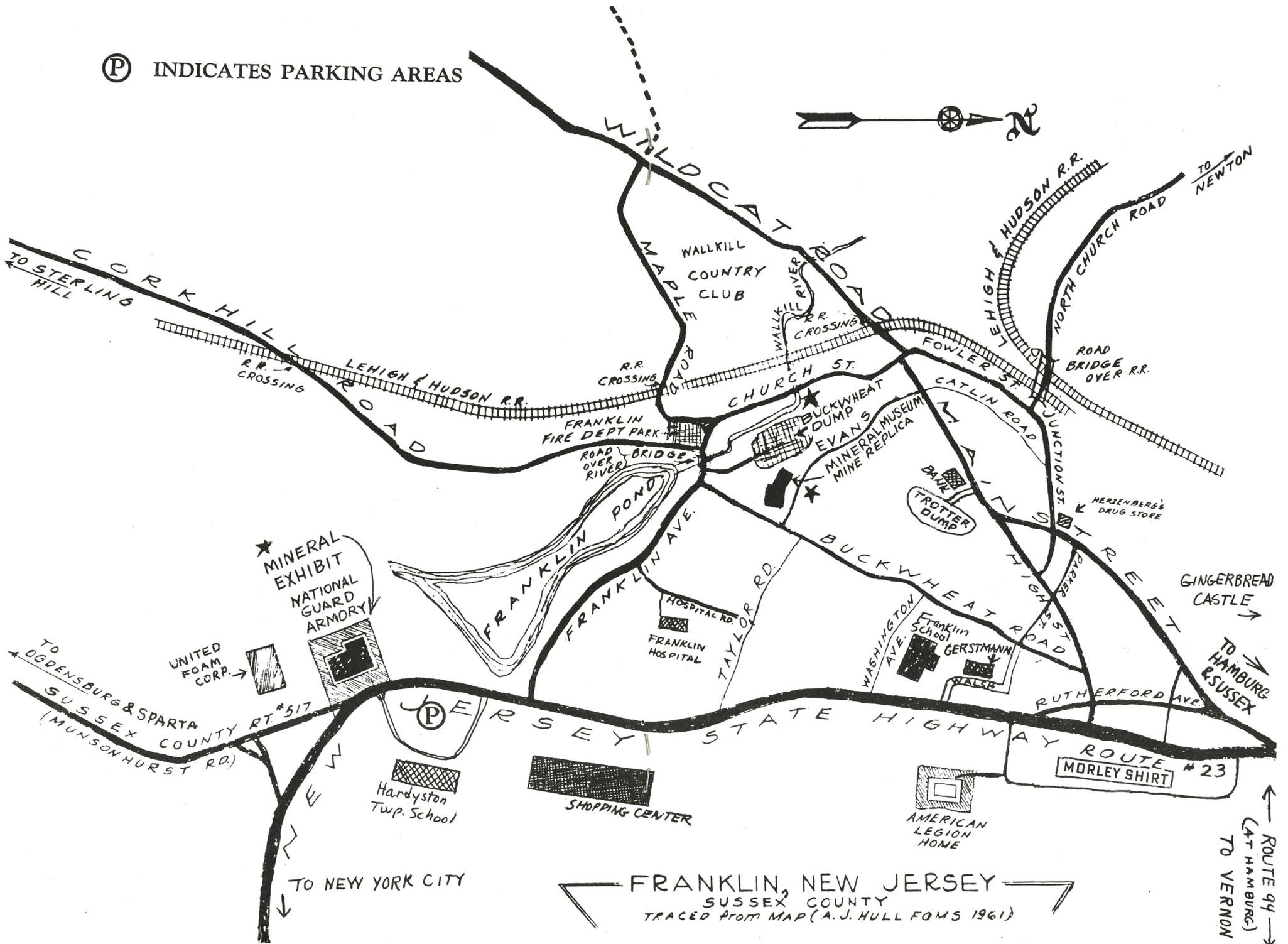
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Former Superintendent of Mines for the New Jersey Zinc Co., member of the Franklin-Ogdensburg Mineralogical Society and benefactor to the Franklin Mineral Museum.

CLARENCE M. HAIGHT CONTRIBUTED MANY ARTICLES AND DIAGRAMS RELATING TO THE HISTORY AND TECHNICAL ASPECTS OF THE ORE BODY OF FRANKLIN THAT HAS APPEARED IN OUR ANNUAL MINERAL BOOK. (SEE PAGE 1 AND INSIDE OF BACK COVER) WE FEEL FORTUNATE THAT HIS PERSONAL KNOWLEDGE OF THE FRANKLIN OPERATION HAS BEEN RECORDED FOR POSTERITY.

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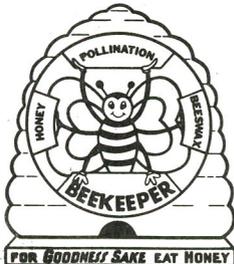
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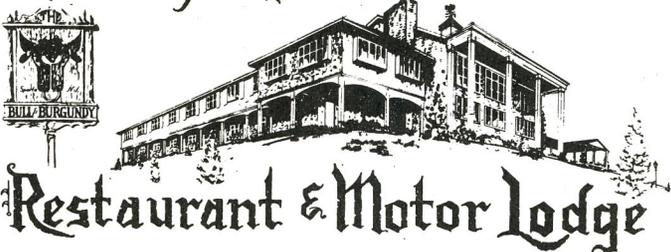
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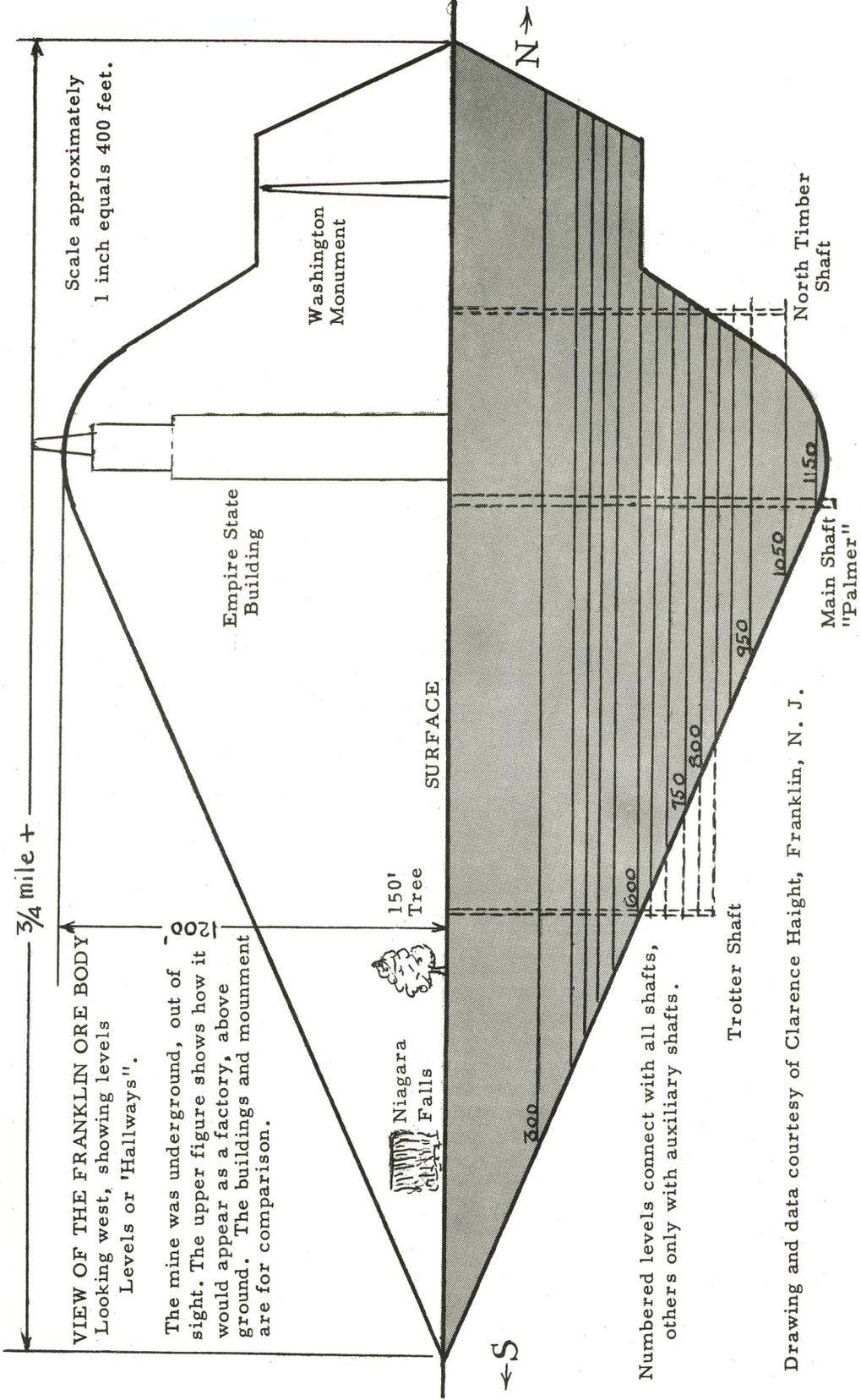


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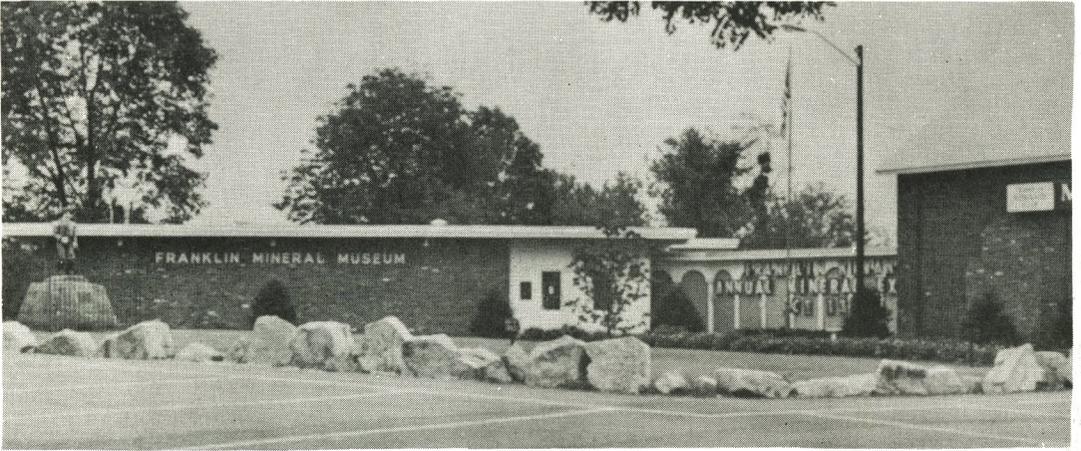


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