

Appendix O  
Mine Workings and  
Sanborn Fire Insurance Maps

# Appendix O

## Mine Workings and Sanborn Fire Insurance Maps

This appendix includes supplemental information to support the site history and site feature descriptions, including plates of the Iron King Mine workings and Sanborn Fire Insurance Maps.

### Contents

#### Mine Working Plates

The following two plates showing the Iron King Mine workings are included in Appendix O courtesy of the U.S. Geological Society (USGS). These plates are associated with the 1958 Professional Paper 308 titled "Geology and Ore Deposits of the Jerome Area, Yavapai County, AZ" (USGS, 1958). The full publication is available online at <https://pubs.er.usgs.gov/publication/pp308>.

- Plate 11: Geological Map of Surface of Iron King Mine, Yavapai County, Arizona
- Plate 12: Map of some of the Underground Workings and Sections, Iron King Mine, Yavapai County, Arizona

#### Sanborn Fire Insurance Maps

The following Sanborn Fire Insurance Maps are included in Appendix O and were obtained from the U.S. Environmental Protection Agency. Sanborn Fire Insurance Maps are also embedded in the Archaeological Consulting Services (ACS) *Cultural Resource and Historic Building Survey* (ACS, 2008) included in Appendix B of the Remedial Investigation (RI) Report.

- Sanborn Fire Insurance Map (undated) titled "Map of Arizona Smelting Company Plant" and showing the "Agua Fria Mill Site"
- Sanborn Fire Insurance Map from 1917 of Humboldt, Arizona depicting the Consolidated Arizona Smelting Company industrial area (also included as Figure 25 in ACS, 2008)
- Sanborn Fire Insurance Map from 1931 of Humboldt, Arizona

### Works Cited

Archaeological Consulting Services (ACS), LTD. 2008. *A Cultural Resource and Historic Building Survey for a Remedial Investigation/Feasibility Study at the Iron King Mine-Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona*. November 10.

U.S. Geological Survey (USGS). C.A. Anderson and S.C. Creasey. 1958. "Geology and Ore Deposits of the Jerome Area, Yavapai County, AZ." Professional Paper 308. US Government Printing Office.



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9B



- EXPLANATION**
- Th  
Hickey formation
  - rd  
Rhyolite dike
  - qd  
Foliated quartz diorite
  - ika  
Iron King volcanics  
Amygdaloidal basaltic flows
  - smr  
Spud Mountain volcanics  
Rhyolitic tuffaceous unit, smr; conglomeratic unit, smcg; andesitic tuffaceous unit, smt
  - smcg
  - smt
  - qv  
Quartz or jasper vein
  - Vein  
Contains gossan after sulfide minerals
  - Zone of veins  
Consists of two or more veins separated by altered andesite tuff. Veins contain gossan after sulfide minerals
  - a<sub>1</sub>  
Most intense hydrothermal alteration; introduced quartz, pyrite, ankerite, and sericite
  - a<sub>2</sub>  
Moderately intense hydrothermal alteration; introduced quartz, pyrite, ankerite, and sericite
  - a<sub>3</sub>  
Least intense hydrothermal alteration; introduced sericite most pronounced; some introduced quartz and ankerite
  - Contact, dashed where approximately located
  - Fault, approximately located
  - 75  
Strike and dip of beds
  - 80 70  
Strike and dip of foliation and plunge of lineation
  - 80  
Strike of vertical foliation
  - 65  
Strike and dip of fracture cleavage
  - Shaft
  - Opencut
  - Dump

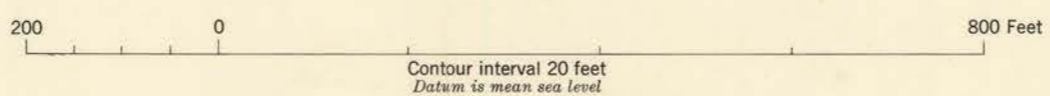
AGE TERTIARY  
UNKNOWN  
OLDER PRECAMBRIAN

Topography modified from map by Charles S. Bacon Jr.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. 20549

Geology by S. C. Creasey

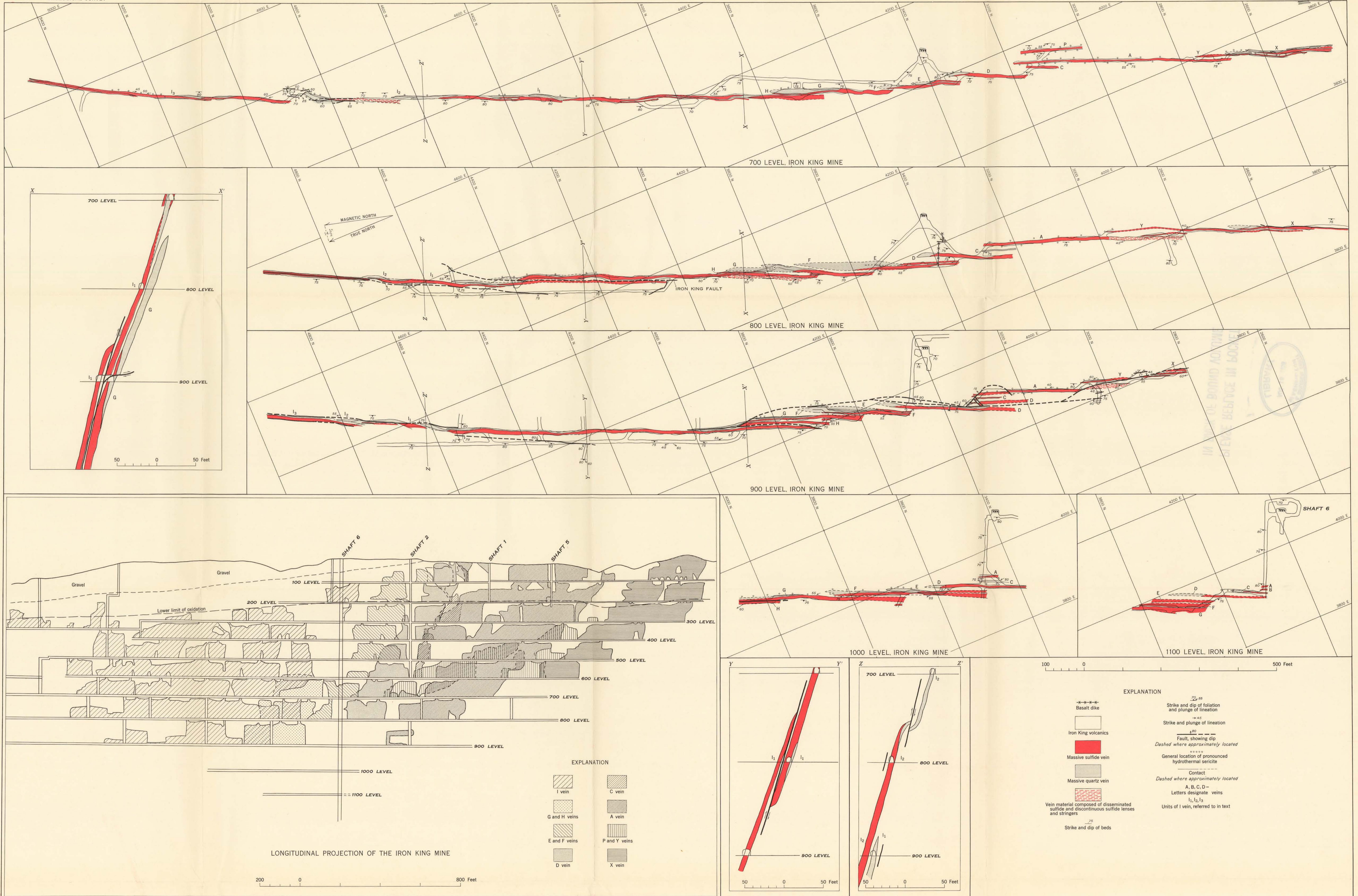
GEOLOGIC MAP OF SURFACE OF IRON KING MINE, YAVAPAI COUNTY, ARIZONA



U. S. GEOLOGICAL SURVEY  
LIBRARY  
AUG 18 1958  
WASHINGTON, D. C.

PLEASE REPLACE IN POCKET  
IN BACK OF BOUND VOLUME





Compiled from data furnished by Shattuck Denn Mining Co

MAP OF SOME OF THE UNDERGROUND WORKINGS AND SECTIONS, IRON KING MINE, YAVAPAI COUNTY, ARIZONA















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ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ  
DUE TO THE QUALITY OF THE ORIGINAL



