

CHEMICAL ANALYSES

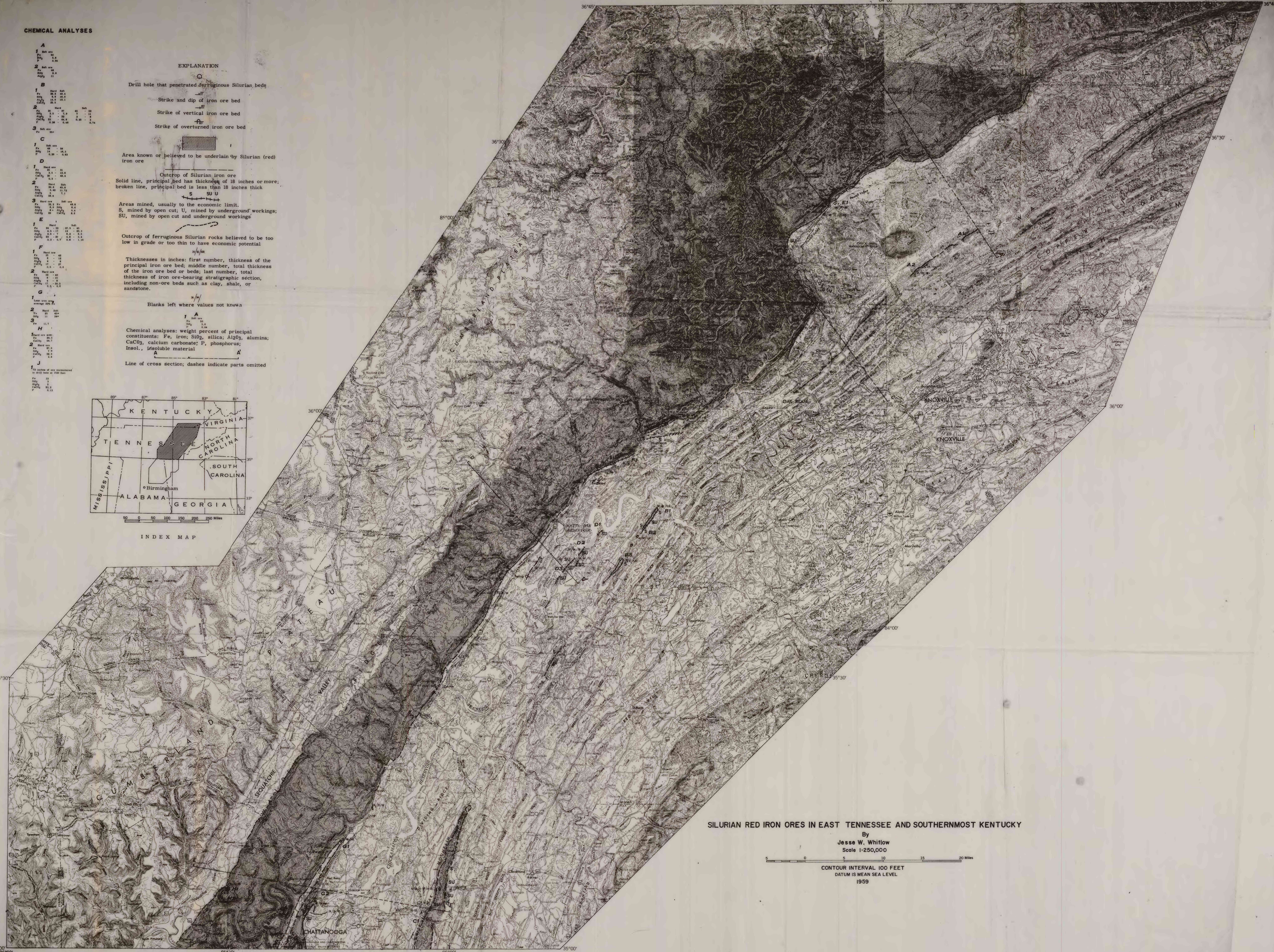
A	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
B	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
C	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
D	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
E	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
F	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
G	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
H	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
I	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0
J	
1	Fe 56.0 SiO <sub>2</sub> 38.0 Al <sub>2</sub> O <sub>3</sub> 4.0 CaCO <sub>3</sub> 2.0

EXPLANATION

- Drill hole that penetrated ferruginous Silurian beds
- Strike and dip of iron ore bed
- Strike of vertical iron ore bed
- Strike of overturned iron ore bed
- Area known or believed to be underlain by Silurian (red) iron ore
- Outcrop of Silurian iron ore  
Solid line, principal bed has thickness of 18 inches or more; broken line, principal bed is less than 18 inches thick
- S SU U Areas mined, usually to the economic limit.  
S, mined by open cut; U, mined by underground workings; SU, mined by open cut and underground workings
- Outcrop of ferruginous Silurian rocks believed to be too low in grade or too thin to have economic potential
- Thicknesses in inches: first number, thickness of the principal iron ore bed; middle number, total thickness of the iron ore bed or beds; last number, total thickness of iron ore-bearing stratigraphic section, including non-ore beds such as clay, shale, or sandstone.
- Blanks left where values not known
- Chemical analyses: weight percent of principal constituents: Fe, iron; SiO<sub>2</sub>, silica; Al<sub>2</sub>O<sub>3</sub>, alumina; CaCO<sub>3</sub>, calcium carbonate; P, phosphorus; insol., insoluble material
- Line of cross section; dashes indicate parts omitted



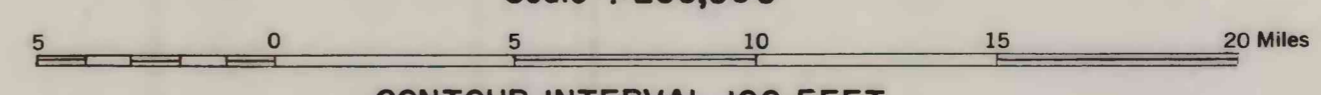
INDEX MAP



SILURIAN RED IRON ORES IN EAST TENNESSEE AND SOUTHERNMOST KENTUCKY

By  
Jesse W. Whitlow

Scale 1:250,000



CONTOUR INTERVAL 100 FEET  
DATUM IS MEAN SEA LEVEL  
1959