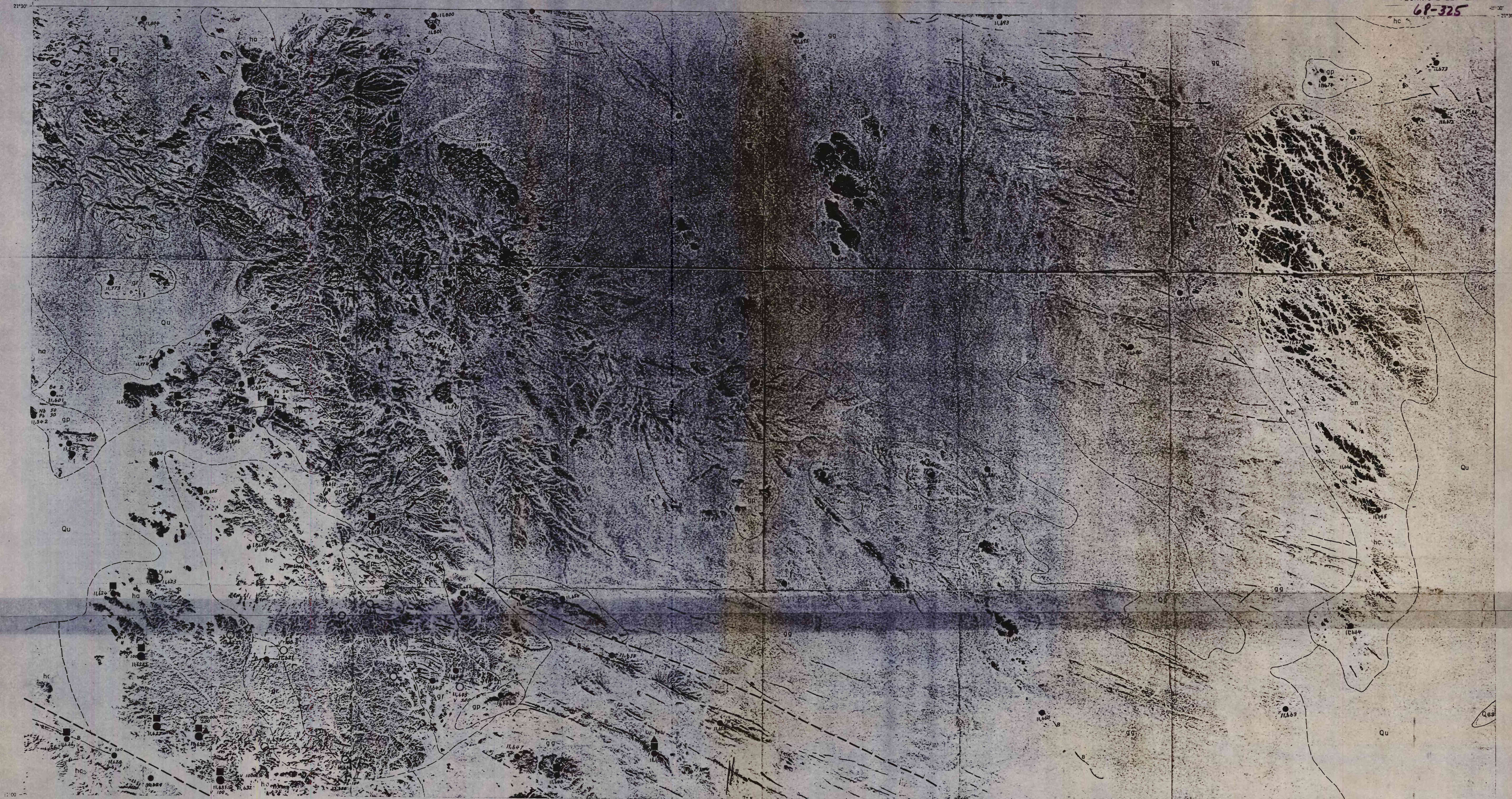
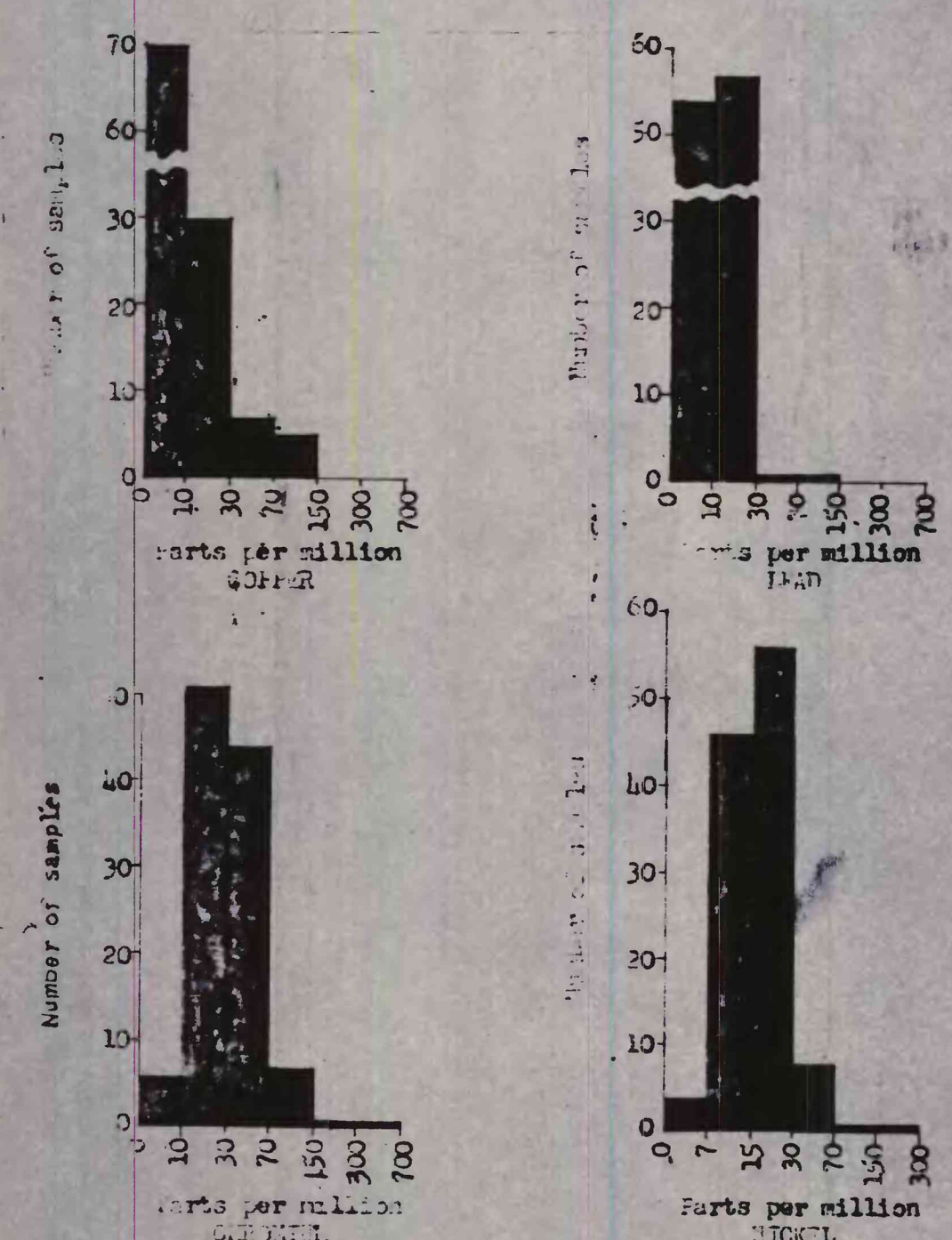


6P-325



AERIAL PHOTOGRAPHY 1955 AND CONTROLLED MOSAIC 1955  
1:250,000 SERVICE C-200 PHOTOGRAMMETRIC ENGINEERS  
WASHINGTON 25, PENNSYLVANIA U.S.A.

PROJECT  
ORIGINAL BY: ROY O. JACKSON, RICHARD G.  
KURT, GLEN F. EHRMAN, AND RUEL D.  
STERNBERG, U.S. GEOLOGICAL SURVEY, 1963  
ADAPTED BY: JESSE W. WHITLOW, U.S.  
GEOLOGICAL SURVEY, 1966



Interpretation of the histograms: The histograms show the distribution of sample concentrations for various elements. The x-axis represents the concentration in parts per million (ppm), and the y-axis represents the number of samples. The elements shown are: 1. Copper (Cu), 2. Silver (Ag), 3. Zinc (Zn), and 4. Molybdenum (Mo). The distributions show that most samples have concentrations below 100 ppm for all elements, with a few higher values for copper and zinc.

### EXPLANATION

**gp/qu**  
Silt and gravel  
Sheet-like lay gravel deposits of quartz and other pebbles from the basement complex; darker rocks predominate, gp. Unconsolidated surficial deposits of silt, sand and gravel; may include unrecognized equivalents of other units of Quaternary age, Qu

**gp**  
Alkalic and peralkalic granite  
Red and pink unmetamorphosed alkalic and peralkalic granite, generally in circular plugs and stocks. Age 500-550 million years from Rb/Sr isotope ratios

**an**  
Amphibolite  
Medium gray plagioclase feldspar possibly of andesite grade; ranges from nearly pure feldspar to about 90 per cent feldspar and 10 per cent combined amphibole and ilmenite

**hc**  
Hornblende formation  
Andesite, typically felsitic, agglomerate, conglomerate, quartzite, rhyolite; locally interbedded marble and rhyolite; sheared and folded, hc. Discordant andesite, minor acidic extrusives, epidiorite, diorite, diabase, gabbro and serpentinite, ha

**gr**  
Granite  
Gray and pink calc-alkalic hornblende granite; generally massive, weathers to boulders. Includes some quartz diorite, diorite, and epidiorite. Age 735 million years from Rb/Sr ratios

**qg**  
Granite and granodiorite  
Gray, generally felsitic, sheared granite; includes intrusions of younger granite dikes and plugs; micritic xenoliths, usually amphibolized, of older rocks are common. Age one billion years from Rb/Sr isotope ratios

**Lithology of this rock units**  
Letters indicate lithology of dikes: A - andesite, B - breccia, generally a broken siliceous rock healed by quartz, O - granite, R - rhyolite, N - limestone or marble

**Trend lines**  
Shows an alignment that is visible on aerial photographs; bedding, joints, or other planar feature forming lineament

**Contact**  
Dashed where approximately located

**Fault**  
Dashed where approximately located

**Mine or prospect**

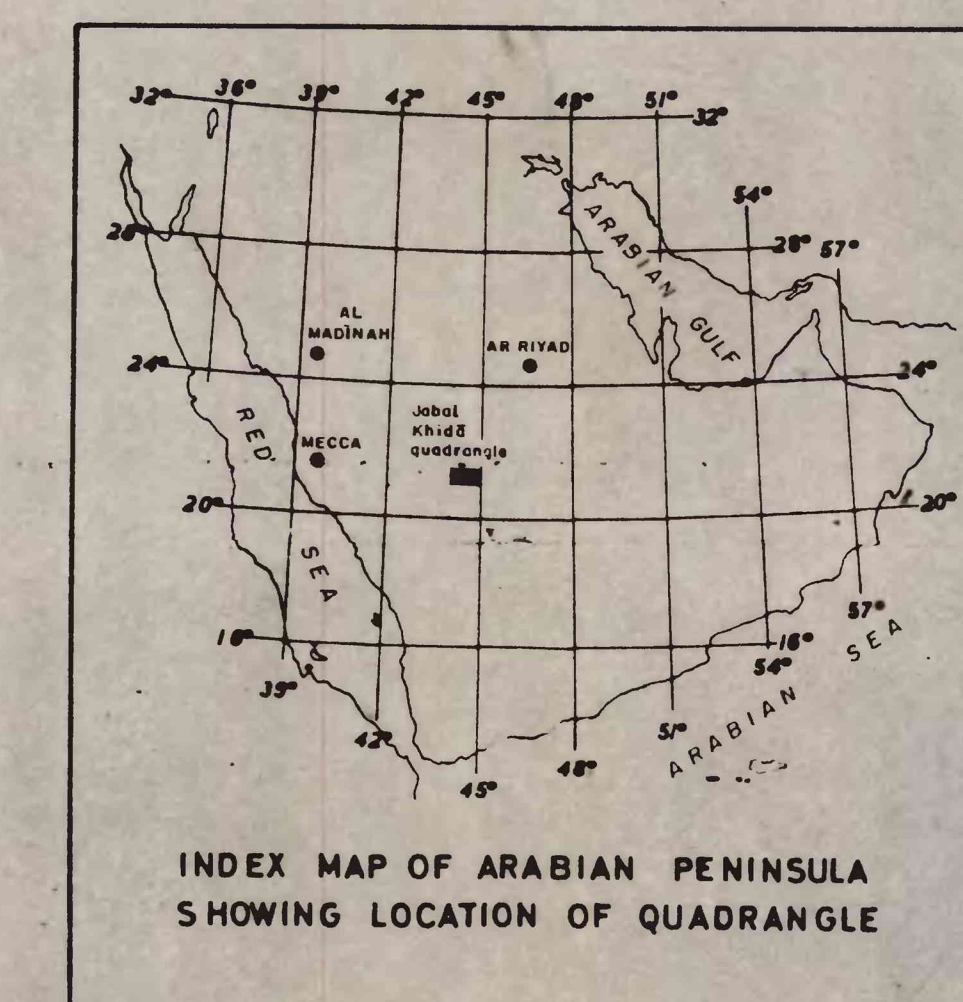
**20 or less**  
30, 50, or 70  
100, 150 or 200  
COPPER

**2 or less**  
3, 5, or 7  
10, 15, or 20  
ZINC

**100 or less**  
150, 200 or 300  
MOLYBDENUM

**Ag 30**  
**Sn 150**  
Anomalous elements in samples and content of -30 mesh material in parts per million  
Ag - silver, Be - beryllium, Co - cobalt, Cr - chromium, Ni - nickel, Pb - lead, Sn - tin, Ti - titanium, V - vanadium, W - niobium

**Sample station and number**  
Copper symbol used except where copper was not detected and either zinc or molybdenum was detected  
S - indicates that scheelite and/or powellite was found in the sample/or in the area



INDEX MAP OF ARABIAN PENINSULA  
SHOWING LOCATION OF QUADRANGLE

SCALE 1:100,000

## GEOLOGIC MAP SHOWING SAMPLE LOCATIONS FOR A MINERAL SURVEY OF THE JABAL KHIDA QUADRANGLE, SAUDI ARABIA

by  
JESSE W. WHITLOW  
1966