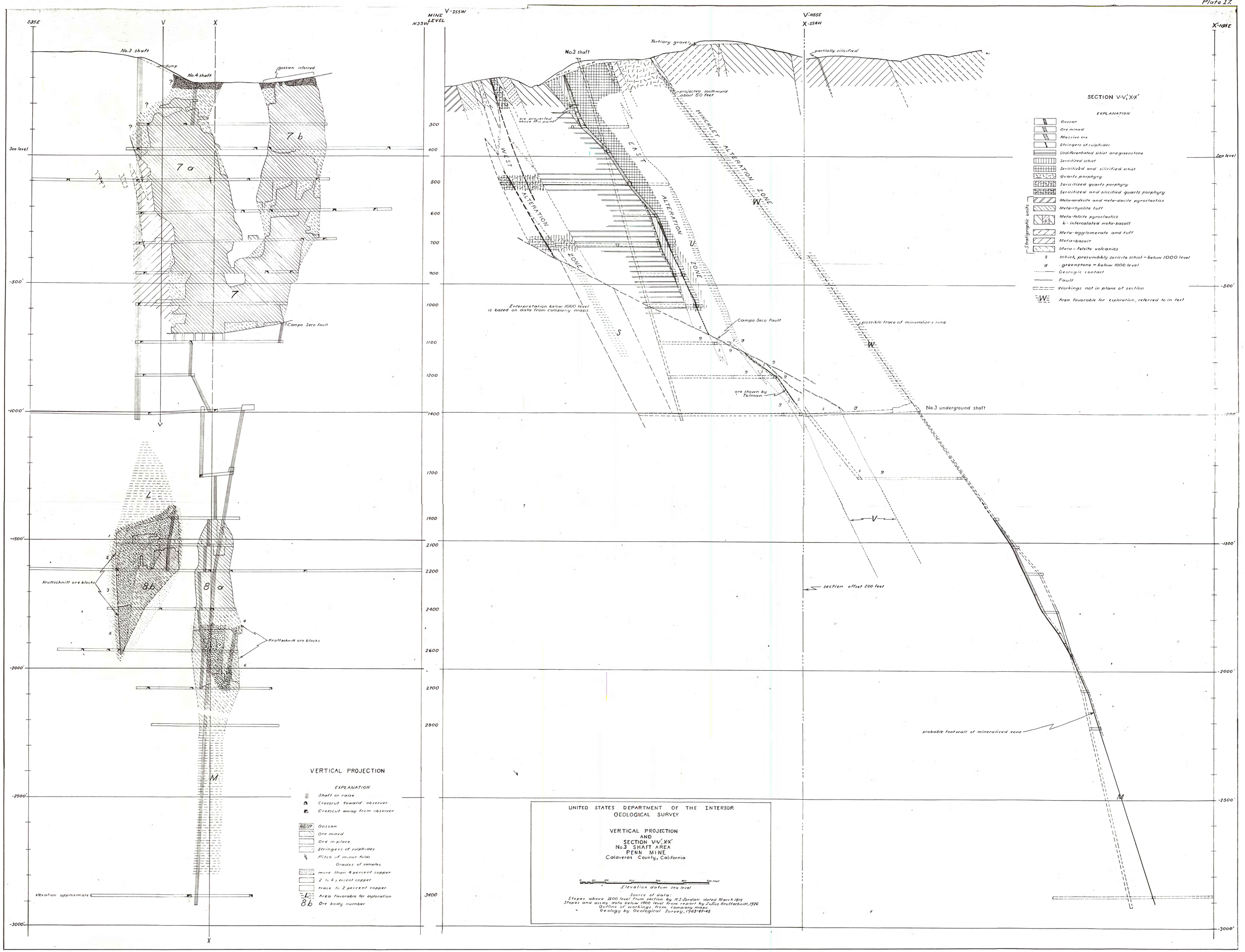
S35E
V
X
MINE LEVEL
N35W
V-S55W
V'-N55E
X-S54W
X'-N54E
No.3 shaft
dump
No.4 shaft
gossan inferred
7 a
7 b
7
Campo Seco fault
Sea level
-500'
-1000'
-1500'
-2000'
-2500'
-3000'
300
400
500
600
700
900
1000
1100
1200
1400
1700
1900
2100
2200
2400
2600
2700
2800
3400
L
8 b
8 a
Kruttschnitt ore blocks
M
elevation approximate
Tertiary gravel
partially silicified
projected southward about 50 feet
ore projected above this point
WEST ALTERATION ZONE
EAST ALTERATION ZONE
HINCKLEY ALTERATION ZONE
Interpretation below 1000 level is based on data from company maps.
Campo Seco fault
possible trace of mineralized zone
ore shown by Tolman
No.3 underground shaft
section offset 200 feet
probable footwall of mineralized zone
SECTION V-V', X-X'
EXPLANATION
Gossan
Ore mined
Massive ore
Stringers of sulphides
Undifferentiated schist and greenstone
Sericitized schist
Sericitized and silicified schist
Quartz porphyry
Sericitized quartz porphyry
Sericitized and silicified quartz porphyry
Stratigraphic units
Meta-andesite and meta-dacite pyroclastics
Meta-rhyolite tuff
Meta-felsite pyroclastics
b - intercalated meta-basalt
Meta-agglomerate and tuff
Meta-basalt
Meta-felsite volcanics
s schist, presumably sericite schist - below 1000 level
g greenstone - below 1000 level
Geologic contact
Fault
Workings not in plane of section
W Area favorable for exploration, referred to in text
VERTICAL PROJECTION
EXPLANATION
Shaft or raise
Crosscut toward observer
Crosscut away from observer
Gossan
Ore mined
Ore in place
Stringers of sulphides
Pitch of minor folds
Grades of samples
more than 4 percent copper
2 to 4 percent copper
trace to 2 percent copper
L Area favorable for exploration
8b Ore body number
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
VERTICAL PROJECTION
AND
SECTION V-V', X-X'
No.3 SHAFT AREA
PENN MINE
Calaveras County, California
0 50 100 200 300 400 500 feet
Elevation datum sea level
Source of data:
Stopes above 1100 level from section by H.S. Jordan dated March 1919
Stopes and assay data below 1900 level from report by Julius Kruttschnitt, 1926
Outline of workings from company maps
Geology by Geological Survey, 1943-44-45