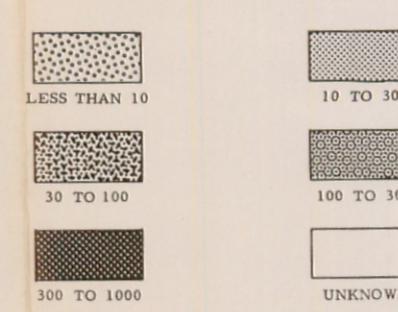


EXPLANATION

COBALT CONTENT OF SPHALERITE
(PARTS PER MILLION)

LEGEND

MINING DISTRICT AVERAGE COBALT CONTENT (PPM)

UNITED STATES	AVERAGE COBALT CONTENT (PPM)
1 WALLAPI (CHLORIDE, MINERAL PARK)	7
2 CEDAR VALLEY -	5
3 CEDAR (BAGDAD) -	30
4 VERDE (JEROME) -	20
5 PECK -	200
6 BRADSHAW -	400
12 HAZARD -	40
13 PIONEER (SUPERIOR) -	8
14 COPPER MOUNTAIN (MORENCI) -	30
19 MAMAKATIGAN (SAN MANUEL) -	30
20 CALIFORNIA (TWIN BUTTES) -	400
25 DRAGOON -	200
26 CALIFORNIA (PARADISE, CHIRICAHUA)	10
27 FOMBONA (MINERAL HILL, TWIN BUTTES)	100
29 COEUR D'ALENE (TWIN BUTTES)	80
30 TYNDALL (AZTEC) -	300
31 HARSHAW -	40
32 ORO BLANCO -	5
33 WARREN (BISBEE) -	30
34 HEREFORD -	30
35 PATAGONIA, DUQUESNE	100

CALIFORNIA	AVERAGE COBALT CONTENT (PPM)
39 WARD (AUBURN)	7
42 GERRIT GORDO -	-
43 DARWIN -	8
46 SARATOGA (TECOPA MOUNTAIN)	20
49 ORO GRANDE -	20
51 CRESTMORE -	-

COLORADO	AVERAGE COBALT CONTENT (PPM)
54 WARD -	-
55 KREMMLING -	-
57 IDAHO SPRINGS -	4
58 GRIFFITH (GEORGE) -	50
59 MONTEZUMA (SNAKE RIVER) -	10
60 CALIF (BATTLE MOUNTAIN, GILMAN) -	-
61 TERNMILE (KOKOMO, ROBINSON) -	-
63 LEADVILLE (CALIFORNIA) -	10
64 LEADS (ALMA) -	30
66 ELK SPRINGS -	200
68 KERRER CREEK (BONANZA) -	-
69 UNCOMPAGHIE (OURAY) -	5
70 SNEFFELS (IMOGENE BASIN) -	100
71 EUDORA (OPHIR) -	6
72 LION SPRINGS (OPHIR) -	90
73 GREEDIE (SUNNYSIDE) -	60
74 ANIMAS (SILVERTON) -	60
75 PIONEER (RICO) -	-

NEW MEXICO	AVERAGE COBALT CONTENT (PPM)
76 WILLIAM GREEK (PECOS)	9
77 CEDAR LOGS -	20
79 MAGDALENA (KELLY) -	40
80 NOGAL (SIERRA BLanca) -	30
81 MCCOLLOR (COONEY) -	100
82 HIBERNOS (ALOMAS) -	100
83 HIBERN-HANOVER -	100
84 STEEPLE ROCK -	80
85 SANTA RITA -	30
86 BURRO MOUNTAINS (TYRONE) -	60
87 GOODPEAK (PEAK) -	200
89 ORGAN -	200
90 LONSDORF (VIRGINIA) -	50

NEVADA	AVERAGE COBALT CONTENT (PPM)
91 DONNELLY (GERLACH) -	8
96 SIERRA (DUN GLEN, ORO FINO) -	-
97 IMLAY (HUMBOLDT, ELDORADO) -	90
98 SAVAGE (PALISADE) -	-
100 LEWIS (DEAN, MUD SPRINGS) -	-
101 KENNEDY -	3
102 BULLION (CAMPBELL, LANDER, TENABO) -	2
104 MOUNTAIN HILL -	-
105 PYRAMID -	-
106 ROBERTS (ROBERTS GREEK) -	-
107 CHERRY CREEK (EGAN CANYON) -	40
108 WEDENKIN -	-
109 TONOPAH (RENO, CRYSTAL HILL) -	9
111 EUREKA (PINTO, PROSPECT) -	6
114 ANTELope (ROBERTS) -	90
117 GARDNERVILLE (EAGLE) -	100
118 DAVIS -	-
119 GARFIELD -	6
121 CEDAR MOUNTAIN (BELL, OMCO, SIMON) -	200
122 BELMONT (PHILADELPHIA) -	-
124 TONOPAH (CREEK) -	-
127 PEGOUE (ELV) -	2
128 GOLDFIELD -	-
129 TEMPIUTE -	20
132 YELLOW PINE (GOODSPRINGS) -	2

UTAH	AVERAGE COBALT CONTENT (PPM)
134 BIG COTTONWOOD -	-
135 UTAH (PARK CITY) -	1
136 BINGHAM (WEST MOUNTAIN) -	2
138 OPHIR -	20
140 TINTIC -	4
142 FRISCO -	50

MEXICO	AVERAGE COBALT CONTENT (PPM)
144 BAJA CALIFORNIA	-
144 EL TRUNFO, SAN ANTONIO -	-
CHIHUAHUA	-
147 SAN DIEGO, ITURBIDE -	20
148 SANTA EULALIA, ITURBIDE -	5
149 GUERRERO, JUAREZ -	100
150 MORELOS (GUADALUPE), CAMARGO -	-
151 NAICA, CAMARGO -	60
152 LOS REYES, JIMENEZ -	30
153 EL PARRAL, HIDALGO -	100
155 SANTA BARBARA, HIDALGO -	100
DURANGO	-
156 PENCILES, MAPIMI -	-
157 LAS VACAS, NOMBRÉ DE DIOS -	5
158 TENERAS, CUENCAME -	10
159 REINA DE COBRE, CUENCAME -	600
160 SAN LUCAS, SAN JUAN DEL RIO -	-
161 PANUCO DE CORONADO, SAN JUAN DEL RIO -	90
SAN LUIS POTOSI	-
164 CHARCAS, VENADO -	-
SONORA	-
165 CANANEA, ARISPE -	300
166 NACOZARI, ARISPE -	2
ZACATECAS	-
171 SAINT ALTO, SOMBRERETE -	-
171 SOMBRERETE, SOMBRERETE -	3

A SHORT DASH (-) INDICATES THAT COBALT WAS NOT DETECTED IN ANY OF THE SPHALERITE SAMPLES FROM THE DISTRICT.

COBALT CONTENT
OF
SPHALERITESCALE
0 50 100 150 200
MILESPREPARED BY C. W. BURNHAM
OCTOBER 1954