

open file 78-152

1
2
3
4
5-
6
7
8
9
10-
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25

Gold, base-metal, and related deposits
of North Carolina

by

Gwendolyn W. Luttrell

U.S. Geological Survey Open-File Report

1978

**U. S. Geological Survey
OPEN FILE REPORT**
This report is preliminary and has
not been edited or reviewed for
conformity with Geological Survey
standards or nomenclature.

1 Gold, base-metal, and related deposits

2 of North Carolina

3 Abstract

4 Gold, silver, copper, lead, zinc, pyrite, tin, cobalt,
5- molybdenum, tungsten, barite, and rare-earths have been mined in
6 North Carolina. Gold, with by-product silver, occurs in veins and
7 mineralized shear zones in metamorphic rocks of the Piedmont province
8 and in placers derived from these deposits. Copper occurs with
9 complex sulfide ores in quartz veins in the metamorphic rocks of the
10- Piedmont province and in massive pyrrhotite-pyrite deposits in
11 crystalline rocks west of the Blue Ridge. Lead and zinc occur in
12 complex ores of gold, copper, lead, zinc, and silver in veins and
13 replacements in metamorphic rocks. Pyrite occurs in crystalline
14 metamorphic rocks. Tin occurs in pegmatite and placer deposits in
15- crystalline rocks near Kings Mountain. Cobalt minerals with ores of
16 iron or gold have been reported in a few areas in the Piedmont.
17 Molybdenum occurs along the borders of a granite body in Halifax
18 County. Tungsten minerals occur with copper sulfide ores in Cabarrus
19 and Vance Counties. Barite occurs in quartz veins and associated with
20- sulfide minerals in Orange, Madison, Cleveland, and Gaston Counties.
21 Rare-earths occur with sulfides in vein deposits in Cabarrus County.
22
23
24
25-

Introduction

This report is a compilation of published and unpublished information on deposits of gold, silver, copper, lead, zinc, pyrite, tin, cobalt, molybdenum, and tungsten, barite, and rare-earths deposits associated with sulfide mineralization in North Carolina.

An attempt has been made not to overlook any of the more than 800 mines and prospects which have been described in the literature of the past 150 years in order to bring together as complete a record as possible of precious - and base-metal mines of the State. It is hoped that this collection of descriptions of and references to the mines will facilitate the work of others who may wish to make detailed studies of the mines and their geological relationships.

The gold and base-metal deposits of North Carolina occur in two of the three physiographic provinces of the State, whose geographic limits are defined by topographic relief, northeastward trending structures, and weathering characteristics of the rocks. The provinces are, from east to west, the Coastal Plain, in which no metallic mineral deposits are found, the Piedmont province, a mature plateau of well-rounded hills and long rolling ridges dissected by older streams which have developed its topography, and the Appalachian Mountains, a highly dissected mountain plateau bounded on the east by the Blue Ridge Mountains which rise as a precipitous escarpment 1,500 to 2,000 feet above the Piedmont, and on the west by the Unaka and Great Smoky Mountains.

1 The rocks of the Piedmont province are divided into igneous
2 and metamorphic, metavolcanic, metasedimentary, and sedimentary
3 groups. Gneisses and schists, granites, and mafic igneous rocks
4 occur throughout the Piedmont, vary greatly in age, and appear to
5- be largely of igneous origin. The metavolcanic rocks occur in the
6 Carolina Slate Belt, which actually consists of two parallel north-
7 east-southwest trending belts, one lying across the central part of
8 the State and the other along the eastern edge of the Piedmont.
9 The metavolcanics of the Carolina Slate Belt are divided into three
10- units: felsic volcanics including rhyolite-and dacite tuffs and
11 breccias, mafic volcanics including andesite to basalt flows and
12 fragmentals, and volcanic slates and bedded argillites. It is in
13 the rocks of the Carolina Slate Belt that the quartz veins containing
14 important deposits of gold and base metals are found. Metavolcanic
15- rocks occur also in the Grandfather Mountain Window area, which lies
16 partly in the Piedmont and partly in the Blue Ridge. Here the rocks
17 are metadiabase, schist, and metarhyolite. The metasedimentary rocks
18 of the Piedmont are the Kings Mountain and Stokes Belt, consisting
19 of two groups, one of highly siliceous slates, phyllites, and sericite
20- schist, and one of highly calcareous crystalline limestones, dolomites,
21 and metashales. Two belts of sedimentary rocks of Triassic age occur
22 in the Piedmont province.
23
24
25-

1 In the Blue Ridge and Appalachian Mountains the rocks are
2 granites, granite gneisses, and ^{f c}maⁱ igneous rocks of the igneous
3 and metamorphic group, metavolcanic rocks of the Mt. Rogers ^ggroup,
4 metasedimentary rocks of the Brevard Belt and Murphy Belt, and
5- sedimentary rocks of the Ocoee Series of upper Precambrian age, and
6 of Cambrian age in the Hot Springs and Grandfather Mountain windows.

7 The ¹⁰⁴¹~~mines~~ and prospects here described are divided into
8 groups based on mineral assemblages. These groups are: gold-quartz
9 veins, gold placers, shear zones mineralized with gold and/or
10- base metals, copper-bearing quartz veins, massive pyrite and
11 pyrrhotite=pyrite with base metals, and barite veins. There are
12 also minor deposits of tin, cobalt, molybdenum, tungsten, and
13 rare-earths. In general these groups of deposits are ^{not}clear-cut, and
14 gradations are found from one type to another.

15-

16

17

18

19

20-

21

22

23

24

25-

1 Gold occurs in veins and mineralized shear zones and in placers
2 derived from these deposits. Most of the gold mines and
3 prospects occur in six main belts, which are from east to west:

4 1. the Eastern Carolina Belt, including Franklin, Halifax, Nash, and

5- Warren Counties; where gold deposits occur in quartz veins in saprolite,

6 2. The Carolina Slate Belt, including parts of Person, Granville,

7 Vance, Union, Anson, Alamance, Orange, Davidson, Rowan, Cabarrus,

8 Randolph, Lee, Chatham, Moore, and Montgomery Counties. The gold

9 deposits in this belt occur in veins and placers in altered volcanic

10- rocks, 3. Carolina Igneous Belt, including parts of Guilford, Davie,

11 Davidson, Rowan, Cabarrus, and Mecklenburg Counties. Here the deposits

12 are veins and mineralized zones in granite and igneous rocks and

13 placers derived from these. 4. Kings Mountain Belt, including parts

14 of Cleveland, Gaston, Lincoln, and Catawba Counties. Here the country

15- rock is crystalline gneiss and schist with lenticular bodies of

16 siliceous dolomitic limestone and quartzite. 5. South Mountain Belt,

17 including parts of Burke, McDowell, and Rutherford Counties. Quartz

18 veins occur in an area of metamorphic gneisses and schists intruded

19 by acid igneous rocks. 6 Western Belt, west of the Blue Ridge

20- Mountains including parts of Ashe, Watauga, Henderson, Transylvania,

21 Jackson, Clay, and Cherokee Counties, where gold veins and placers

22 occur in gneisses and schists.

23 Silver occurs in small amounts in native gold and in the complex
24 gold-base metal sulfide ores.

25-

1 Copper deposits occur in three northeast-southwest trending zones.

2 1. The Western Zone, west of the Blue Ridge, including Ashe, Jackson,
3 Haywood, Clay, Macon, and Swain Counties, contains massive sulfide
4 bodies and fissure veins in crystalline schists and gneisses of the
5- metamorphic group. Most of these deposits were formed by hydrothermal
6 solutions during several stages and were replaced and recrystallized
7 during later metamorphism. 2. Central Zone, in the Central Piedmont,
8 including Guilford, Cabarrus, and Mecklenburg Counties, where mixed
9 sulfide veins in acid crystalline and related granitic rocks of the
10- Carolina Igneous Belt contain copper and gold. 3. Eastern zone,
11 including parts of Cabarrus, Rowan, Stanley, Davidson, Chatham,
12 Granville, and Person Counties, in the Carolina Slate Belt. Included
13 are the copper-gold deposits of the Gold Hill, Cid, and Virgilina
14 districts.

15- Lead and zinc sulfide ores and their alteration products occur
16 associated with pyrite, copper sulfides, and gold, throughout the
17 State.

18 Pyrite occurs in a belt of metamorphic rocks extending from New
19 Hampshire to Alabama in which pyrite and related minerals occur in
20- lenticular deposits. This belt passes through Gaston County.

21 Tin veins in pegmatite and placer deposits derived therefrom
22 occur in the Kings Mountain Belt of Gaston and Cleveland Counties.

23 Cobalt occurs as asbolite, a cobalt-manganese oxide, in several
24 localities in Wake, Gaston, and Lincoln Counties.

25-

1 Molybdenite occurs with pyrite and chalcopyrite in quartz veins
2 and disseminated in granite in Halifax County.

3 Tungsten occurs in North Carolina in two principal localities,
4 in Cabarrus County associated with copper-gold mineralization, and in
5- Vance County in mineralized quartz veins.

6 Rare-earths occur in a complex gold-copper sulfide deposit in
7 Cabarrus County.

8 The descriptions of individual deposits were compiled from in-
9 formation in the literature and from unpublished data. The locations
10- of some deposits are not given exactly in the literature, and in a
11 few instances conflicting locations had to be reconciled. Many of the
12 deposits have had several names in their history, and all of the names ~~are~~
13 are given. Little information is available on many mines beyond^d
14 their location and principal minerals, but these deposits have been
15- included both to make the record of mining as complete as possible, and
16 to aid in showing the distribution pattern for different types of
17 metallization. In some deposits for which only the location and
18 principal product are given in the literature, the host rock and type
19 of deposit have been deduced from other information available, such
20- as geologic maps or information on nearby deposits. Only general
21 descriptions of ores, rocks, and structures are given. The absence
22 of production data does not necessarily imply that a mine did not
23 produce, but only that there is no record of production. Mines and
24 prospects are arranged in the text alphabetically by name; in Appendix
25- I they are listed alphabetically by county. A list of the mines and
prospects in order of location number is printed on Plate I.

Aberdeen (Horney Ridge) mine

Type: Gold, copper

Location: Guilford County, at Jamestown, =>

This is the most northerly of a southwest-northeast trending group of mines opened on a 3 mile long quartz vein in granite near its eastern contact with schists.

References: C. B. Brown, 1934, written communication;
Nitze and Hanna, 1896, p. 115;
Pardee and Park, 1948, p. 76.

Abernathy mine

Type: Gold

Location: Catawba County, 6 miles east of Maiden.

Reference: Nitze and Hanna, 1896, p. 151.

Abernathy, Clem, mine

Type: Gold

Location: Mecklenburg County, 8 miles northwest of Charlotte.

References: Nitze and Hanna, 1896, p. 132;
Pardee and Park, 1948, p. 63.

1 Abrams, Pattie, mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4

5- Gold placers.

6

7 Reference: Nitz and Hanna, 1896, p. 174.

~

1 Adams mine

2 Type: Gold

3 Location: Polk County.

4

5- Reference: Pardee and Park, 1948, p. 64.

14

1 Adams mine

2 see Hazel Creek mine, Swain County.

18

1 Alden and Merrill mine

2 Type: Gold

3 Location: Moore County,

4

5- Gold was produced here in 1903.

6

7 Reference: Pratt, 1904, p. 11.

1 Alexander (Chapman) mine

2 Type: Gold

3 Location: Mecklenburg County, 8 miles northwest of Charlotte, and
4 3/4 mile east of Derita, on the south side of the road. —

5—
6 A quartz vein carrying sulfides and carbonates occurs in sheared
7 granite. The length of the vein is 900 feet, and it has been worked
8 to a depth of 110 feet. In 1934 many pits and shafts were seen
9 scattered over an area 1/4 mile in diameter.

10—
11 References: Bryson, 1936, p. 122-123;

12 J. V. Lewis, 1934, written communication;

13 Kerr and Hanna, 1888, p. 298;

14 Nitze and Hanna, 1896, p. 139-140;

15— Pardee and Park, 1948, p. 63.

1 Alexander, Amos, mine

2 Type: Gold

3 Location: Mecklenburg County, northwest of the Ferris mine, about
4 6 miles north of Charlotte. —

5—
6 The ore contained gold and pyrite.

7
8 References: Genth and Kerr, 1881, p. 111;

9 Nitze and Hanna, 1896, p. 143;

10— Pardee and Park, 1948, p. 63.

1 Alexander, Martin, mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles northeast of Charlotte and 1.4
4 miles southeast of Derita. —

5—
6 One of a group of 4 shafts, 50 to 60 feet deep, was reopened
7 about 1934.

8
9 References: J.V. Lewis, 1934, written communication;
10— Pardee and Park, 1948, p. 63.

11
1 Alexander, Moorehead, mine

2 Type: Gold

3 Location: Mecklenburg County, 9 miles northeast of Charlotte. —
4

5— Reference: Pardee and Park, 1948, p. 63.

18
1 Allen mine

2 See Lalor mine, Davidson County —
3
22
23
24
25—

1 Allen mine

2 Type: Gold

3 Location: Moore County, 1,050 feet northeast of the Burns mine, and
4 500 feet southwest of the Red Hill mine.

5-
6 The ore body is a silicified zone about 35 feet wide striking
7 N.25°E. and apparently an extension of the Red Hill vein. The mine
8 was developed by a 40-foot shaft with drifts driven along the strike.

9
10- Reference: Conley, 1962a, p. 25.

1 Allen and Baldwin prospects

2 Type: Tin

3 Location: Gaston County, about 1 mile southwest of the Metcalf
4 prospect and 1/3 mile northwest of the Hastings prospect, on
5- opposite sides of the public road, the Baldwin on the southwest
6 side and the Allen on the northeast side.

7
8 Cassiterite occurs in greisen gangue in lenticular shaped bodies
9 of pegmatite muscovite schist and gneiss and hornblende gneiss country
10- rock. A 45-foot shaft was sunk at the Baldwin prospect, and two pits were
11 made at the Allen prospect.

12
13 References: Keith and Sterrett, 1918, p. 145-146;

14 Kesler, 1942, table 18.

1 Allen-Boger mine

2 Type: Gold

3 Location: Cabarrus County, 4 miles north of Cabarrus Station and 2
4 miles south of Rocky River; where the Concord Road crosses the
5- Mount Pleasant road, about 8 miles from Concord.

6
7 Coarse grained diorite containing hornblende needles 1/2 inch
8 long, epidote, chalcopryrite, and quartz was seen on the dumps in 1934.
9 Tetradymite and azurite were reported in 1881. Pits and trenches
10- extended for a distance of 375 feet in a N. 25° E. direction.

11
12 References: Emmons, 1856, p. 202-20³₅;
13 Genth and Kerr, 1881, p. 95;
14 Pardee and Park, 1948, p. 70.

1 Prospect 2,225 ft. N. 70° W. from Allen prospect,

2 Type: Tin

3 Location: Gaston County

4
5- Two bodies, 175 feet apart, contain cassiterite in greisen gangue
6 enclosed in hornblende gneiss wallrock.

7
8 Reference: Kessler, 1942, table 18.

1
2
3
4
5-
6
7
8
9
10-
11
1
2
3
15-
16
17
18
19
20-
21
22
23
24
25-

Allison mine

Type: Gold

Location: Cabarrus County, at the southwestern city limits of Concord

In 1934 shallow pits in biotite granite and diorite were seen.

References: C. B. Brown, 1934, written communication;

Pardee and Park, 1948, p. 62.

Allison prospect

see Brinkley prospect, Jackson County

Allred (Burns, Overton, Randolph) mine

Type: Gold

Location: Randolph County, 10 miles northeast of Asheboro. —

The ore bodies are lenses of ferruginous quartz sericite schist in dark green andesitic tuff country rock of the volcanic series. The lenses are arranged in 4 zones or "veins". The surface is covered by saprolite. The mine was worked before and after the Civil War. It was opened for a short time in 1906, and again in the 1920's, when a 10-stamp mill was erected. A number of open cuts extended for 1/4 mile along a northeast trending belt 400 feet wide. In 1934 Mr. A. J. Bowers tested and milled material from the saprolite layer. A channel sample across a width of 8.5 feet assayed 0.02 ounce of gold per ton, and a sample of limonite-pyrite material assayed 0.47 ounce per ton. Considerable trouble was encountered in trying to save the gold due to its fineness and to the nature of the clayey material in which the gold occurs.

0.47

References: C. B. Brown, 1934, written communication;
 Bryson, 1936, p. 71;
 Pardee and Park, 1948, p. 88;
 Pratt, 1907, p. 45.

Allred, Billy, mine

Type: Gold

Location: Davidson County, 3/4 mile northeast of Silver Hill.

A rusty quartz vein in acid sheared tuff was seen.

References: C. B. Brown, 1934, written communication;
Pardee and Park, 1948, p. 62.

Alred mine

See Burns mine, Moore County

Alston mine

Type: Gold

Location: Warren County, about 16 miles southeast of Warr^enton, on
the plantation of Edward Alston;

Gold occurs in quartz veins in sa^prolite derived from white
mica^ceous granite, and in placers resulting from the weathering of the
veins. Gold was first discovered here in 1847 through the finding of
a nugget in the road. An area of more than one acre had been worked
by 1907.

Reference: Cros^bky, 1907, p. 854-855.

1 Alta (Monarch, Idler, Carson, Glendale) mine

2 Type: Gold

3 Location: Rutherford County, about 5 miles north of Rutherfordton,
4 on the divide between Cathey's Creek and the Second Broad River.

5-
6 Veins of milky quartz carry free gold, pyrite, and chalcopyrite.
7 The ore contains from 1 to 20 percent of sulfides, and from \$10 to
8 \$30 per ton of gold. The four larger veins, known as the Monarch,
9 Carson, Alta, and Glendale, were worked from 1845 to about 1894 by
10- shallow open cuts, pits, and shafts. A shaft on the Alta vein was
11 105 feet deep. There was a 5-stamp mill on the property in 1894.
12

13 References: Bryson, 1936, p. 141-142;

14 Nitze and Hanna, 1896, p. 169-170.
15-

1 Ammons Branch (Horse cove) placer

2 Type: Gold

3 Location: Macon County, on Ammons Branch,
4

5- Gold placers.

6 Reference: Pardee and Park, 1948, p. 63.
23
24
25-

1 Annie Maud prospect

2 Type: Copper

3 Location: Granville County, about one-half mile south of the old
4 Blue Wing Post Office.

5-
6 A narrow quartz vein in Virgilina Greenstone contains chalcite
7 in a gangue of epidote with some quartz. A shallow pit was put down
8 on this persistent quartz vein which extends both to the northeast
9 and southwest. It was part of the William M. Pannebaker estate in
10- 1917.

11
12 Reference: Laney, 1917, p. 156.

13
1 Anthony mine

2 Type: Gold

3 Location: Alamany^{ce} County,

4 Reference: Genthⁿ and Kerr, 1881, p. 91.

Appalachian (Coggins, Rich Cog) mine

Type: Gold

Location: Montgomery County, 1½ miles north-northeast of Eldorado.

Mineralization occurs along shear zones in sericitized, chloritized, and silicified argillaceous^u slate. Sulfide minerals are disseminated throughout quartz veins and lenticular mineralized zones up to 50 or 60 feet long. Free gold is found in the upper weathered zone. The mine was discovered in 1882 and has been operated intermittently since that time. A 40-stamp mill was built in 1887, and by 1890 the mine was 200 feet deep. In 1896 the mill was moved to the Jones mine in Randolph County. In 1911 the Whitney Company operated the mine as the Coggins mine and treated the ore in a 40-ton ^{Lane} ~~lave~~ mill. In that year the mine was one of the principal gold producers in North Carolina; but the mill burned in 1912, stopping production. Between 1913 and 1916 the mine was operated as the Rich Cog mine and the ore was treated in a 10-stamp mill. In 1919 the mine had reached a depth of 550 feet. It is estimated that more than 65,000 tons of ore worth \$5 to \$7 per ton, and 3,000 tons of ore worth \$9 per ton were extracted between 1922 and 1925 and treated in a 50-stamp mill. The mine was closed in 1926, but was unwatered, mapped, and sampled in 1934. It is estimated that the total yield of the mine was at least \$100,000 (5,000 ounces of gold).

1 References: Bryson, 1936, p. 73-74;
 2 Conl^ey, 1958, p. 60; 1962, p. 17;
 3 Drane and Stuckey, 1925, p. 29;
 4 Kerr and Hanna, 1888, p. 252;
 5- Nitze and Hanna, 1896, p. 76;
 6 Nitze and Wilkens, 1897, p. 53;
 7 Pardee and Park, 1948, p. 81-82;
 8 Pratt, 1914, p. 22, 49-61.
 9

1 Arey mine

2 Type: Gold

3 Location: Cabarrus County, 6 miles southeast of Concord, and 3 1/4 miles
 4 southwest of Mount Pleasant.

5- A 6-inch thick quartz vein carrying limonite, pyrite, and
 6 bornite was being explored by a 36-foot shaft in 1934 by Mr. W. M.
 7 Arey.
 8

9
 10- Reference: Pardee and Park, 1948, p. 70.
 20-

1 Argo mine

2 Type: Gold

3 Location: Nash County,

4
 5- Reference: Pardee and Park, 1948, p. 64.

1 Arlington mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles west of Charlotte.

4
5-
6 The outcrop was prominent and large, but of very poor quality
7 and the ore bodies in depth were not regarded as favorable. The mine
8 was worked to a depth of 100 feet in 1883.

9
10- References: Kerr and Hanna, 1888, p. 293-294;

11 Nitze and Hanna, 1896, p. 133;

12 Pardee and Park, 1948, p. 63.

1 Arms, Tom, mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4
5- Reference: Nitze and Hanna, 1896, p. 174.

1 Arringdale mine

2 Type: Copper

3 Location: Person County, 2½ miles northwest of the Durgy mine. —

4
5- A few prospect pits and shafts were sunk on quartz veins. The
6 work was soon abandoned because of the poor showings.

7
8 Reference: Laney, 1917, p. 158-159.

1 Arrington mine

2 Type: Gold

3 Location: Nash County, 1 mile southeast of the Portis mine. The tract
4 included 2,000 acres of land extending 2 or 3 miles down Fishing
5- Creek. (808) The exact locations of the Arrington and Mann-Arrington
6 mines in Nash County, and the Nick Arrington and Mann mines in Halifax
7 County are not known, but all are said to be near the portis mine. The
8 possibility is suggested that these names may refer to different parts
9 of the same tract or mine. This mine is believed to be in the same
10- belt with the Portis mine.

11
12 References: Bryson, 1936, p. 62;

13 Kerr and Hanna, 1888, p. 241;

14 Nitze and Hanna, 1896, p. 27;

15- Pardee and Park, 1948, p. 64.

16
17 Asheboro mine

1 See Jones mine, Randolph County ←
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

1 Atlas Mine

2 Type: Gold

3 Location: Rowan County, the southwestern continuation of the
4 Dutch Creek veins, 4 miles east of Rockwell. —

5—
6 Low-grade chalcopyrite - pyrite ore carrying gold
7 occurs in quartz veins in siliceous granite country
8 rock, which is sheared and converted to quartz-sericite
9 schist near the veins.

10—
11 References: Kerr and Hanna, 1888, p. 283;
12 Nitze and Hanna, 1896, p. 121;
13 Pardee and Park, 1948, p. 92.

1 Axel's Shaft on Marble Creek

2 Type: Gold

3 Location: Cherokee County, near Marble Creek, a tributary of Valley
4 River, 3½ miles northeast of Murphy.

5—
6 Gold associated with galena occurs in marble of the Ocoee series. //

7
8 Reference: Nitze and Hanna, 1896, p. 193.

22
1 Bailey mine

2 See Hamilton mine, Ansoⁿw County
23

1 Baker (Baker Hill) mine

2 Type: Gold, lead, silver

3 Location: Caldwell County, on the western slope of Davis Mountain,
4 near John's River, about 5 miles northwest of Hartland.

5-
6 Quartz veins in schistose country rock near a dike of diabase,
7 largely altered to serpentine, contain gold with argentiferous galena
8 and ferruginous matter. One vein was hard quartz, 18 inches wide and
9 coated with stolzite and pyromorphite. Another vein 2 to 4 feet wide
10- strikes N. ³5°-45° W. The saprolite on the surface and the nearby
11 stream gravels were rich in placer gold.

12 The mine was in full operation in 1857 and was described as a
13 silver-lead mine by Kerr and Hanna in 1887. The date of its opening is
14 not recorded. The four principal veins which were developed are the
15- Brasswell, Goley Ann, Shaft, and Cabin veins. In 1906 there was a
16 110-foot shaft, a 42-foot shaft, and 13 small shafts or pits, and a
17 210-foot cross-cut tunnel. The last record of work was in 1911.

18
19 References: Bryant and Reed, 1966, p. 7;

20- Bryson, 1936, p. 138;

21 Kerr and Hanna, 1888, p. 203-204;

22 Nitze and Hanna, 1896, p. 177;

23 Pardee and Park, 1948, p. 62;

24 Pratt, 1907, p. 36; 1914, p. 19.

1 Bald Knob mine

2 Type: Gold

3 Location: Caldwell County, about 1/2 mile south of the Barker mine,
4 at John's River.

5-
6 A ~~quartz~~ ^{was} vein 4 feet thick ₁ in schistose ^rcountry _λ rock.

7
8 References: Nitze and Hanna, 1896, p. 177;

9 Pardee and Park, 1948, p. 62.

1 Ball mine

2 Type: Gold

3 Location: Guilford County, near Jamestown,
4

5- References: Nitze and Hanna, 1896, p. 116;

6 Pardee and Park, 1948, p. 62.

1 Baltimore mine

2 Type: Gold

3 Location: Davidson County, 3 miles north of Silver Hill. —
4

5- The ore was oxidized to a depth of 60 feet. Below that level
6 pyrite, carrying chalcopryrite, galena, and gold occurs in a quartz
7 vein in chlorite and sericite schist derived from tuff. The mine was
8 prospected long before 1880. About 1880 it was cleaned out and the
9 shaft was retimbered. A few tons of ore were taken out.

10-
11 References: C. B. Brown, 1934, written communication;

12 Pogue, 1910, p. 108.

1 Baltimore and North Carolina mine

2 See Ray mine, Mecklenburg County.

1 Bane (Graf, Holshouser, ^{Jacob,} Holtshauser) Mine

2
3 Type: Gold

4 Location: Rowan County, southwestern continuation of the Dutch
5- Creek vein; 4 miles east of Rockwell,

6 The ore is low grade, in veins which strike
7 N. 35° - 40° E., and with nearly vertical dip. The
8 quartz veins carry chalcopyrite and pyrite with gold
9 in a country rock of siliceous granite. The mine,
10- which had been operated in the 1800's, was reopened in
11 1903 by the Salisbury Copper Company. There was a
12 shaft 40 feet deep.

13
14 References: Kerr and Hanna, 1888, p. 283;
15- Nitze and Hanna, 1896, p. 121;
Pratt, 1904, p. 20.

19
1 Bane mine

2 Type: Gold

3 Location: Mecklenburg County,

4
5- Gold and pyrite ^{were} ~~are~~ noted in the ore.

6
7 Reference: Genth and Kerr, 1881, p. 111.

1 Bangle mine

2 Type: Gold

3 Location: Cabarrus County,

4

5- Scheelite was found associated with pyrite and chalcopyrite in
6 a gold-carrying quartz vein.

7

8 Reference: Genth, 1859, p. 246-255.

9

1 Barber mine

2 Type: Gold

3 Location: Cabarrus County, 1 3/4 miles south of Georgeville.

4

5- Reference: Pardee and Park, 1948, p. 62.

15-

16

1 Barnes mine

2 Type: Gold

3 Location: Alexander County, 8 miles west of Taylorsville.

4

5- Reference: Kerr and Hanna, 1888, p. 308.

23

24

25-

1 Barnhardt mine

2 Type: Gold

3 Location: Cabarrus County, 6 miles southeast of Concord and $1\frac{1}{2}$ miles
4 east of the Faggart mine. —

5—
6 A 5-foot wide quartz vein in diorite or diabase carried galena,
7 chalcopyrite, pyrite, and barn^hhardtite. Barnhardtite, first found at
8 this locality, was described as a new mineral by F. A. Genth in 1855,
9 and was named for the Barnhardt mine. Barnhardtite has since been
10— shown to be chalcopyrite partly altered to chalcocite and covellite
11 (Palache, Berman, and Frondel, 1944, p. 223), but the name persists
12 in the literature. Coarse stream gold also has been found on the
13 property. In 1934 a 4-foot quartz vein was seen in one of two partly
14 filled shafts.

15—
16 References: Genth, 1855, p. 17-18;

17 Genth and Kerr, 1881, p. 93;

18 Nitze and Hanna, 1896, p. 123;

19 Nitze and Wilkens, 1897, p. 62;

20— Palache, Berman, and Frondel, 1944, p. 223;
Pardee and Park, 1948, p. 70.

1 Barnhardt mine

2 See Gold Hill mine, Rowan County.

24

25—

1 Barrier mine

2 Type: Gold

3 Location: Cabarrus County, 1 mile southwest of the Phoenix mine, on
4 the same property. Near Bost's Mill and 3/4 mile north of Rocky
5- River. —

6
7 Quartz veins in greenstone schist carry pyrite, chalcopryite, and
8 gold. The mine was worked before 1860 by Mr. Orchard who opened it to
9 a depth of 160 feet on two veins. In 1893 the mine was reopened and
10- a 5-stamp mill was built. Prospecting in 1935 uncovered a vein of
11 iron-stained quartz.

12
13 References: Emmons, 1856, p. 178;

14 Genth and Kerr, 1881, p. 96;

15- Nitze and Hanna, 1896, p. 122-12³₇;

16 Pardee and Park, 1948, p. 70-71.
17

1 Barringer mine

2 Type: Gold

3 Location: Mecklenburg County, 3 miles south of west of Charlotte.
4

5-
6 Reference: Pardee and Park, 1948, p. 63.
7-
25-

Barringer mine

Type: Gold

Location: Stanly County, $\frac{1}{2}$ mile southwest of Meisenheimer, 4 miles southeast of Gold Hill, on Long Creek.

Gold occurred in a quartz vein in slate country rock at the contact of a diabase dike. The gangue is said to have been largely calcite. The vein was very narrow and very rich, and much disturbed by faulting. Placer mining was done in the valley of Long Creek and its tributary. The Barringer mine was opened before 1824 and *was* probably the first gold mine in North Carolina to be opened upon a true gold-bearing vein. Placer gold had been mined for some time on a creek running through the Barringer farm. The vein was discovered by Mr. Barringer, who had observed that beyond a certain point on the creek no more placer gold was to be found, and who thought that perhaps the gold had come out of the hill. He dug into the hillside and discovered a quartz vein rich in free gold. The first day he picked out 1200 dwt. of gold. He mined the vein and later leased it to others. Little is known of the history of the mine during the ensuing 60 years. In 1892 it belonged to Theo. Klutz of Salisbury. In 1902 and for some years following the mine was developed and operated by the Whitney Company, which put down a 204-foot shaft with drifts at several levels. The mine map shows ore shoots adjoining a body of ^adibase ranging from 20 to 100 feet in aggregate length and extending from the surface to the lower levels. Recorded production

1 includes 1,600 to 2,000 ^{dwt.} [penny weights] of gold taken by Mr. Barringer
 2 from the vein; and a total of \$40,000 in gold up to 1892. In 1904
 3 10 bars of gold were shipped, one of which weighed 20 pounds.

4
 5- References: Bryson, 1936, p. 82;

6 Kerr and Hanna, 1888, p. 260;

7 Laney, 1910, p. 111-112; plan;

8 Nitze and Hanna, 1896, p. 85;

9 Nitze and Wilkens, 1897, p. 32; 56;

10- Pardee and Park, 1948, p. 92-93;

11 *Stucky, 1965, p. 303-304.*

12
 1 Baryte mines

2 Type: Barite

3 Location: Gaston County, along the east flank of the Kings Mountain
 4 range from Crowder's Mountain to Yorkville, S. C.

5-
 6 The barite ores carry sphalerite and galena with small quantities
 7 of gold and silver.

8
 9 Reference: Kerr and Hanna, 1888, p. 201.

Bat Roost Mine

1 Type: Gold

2 Location: Moore County, 1/2 to 3 miles northwest of the Brown mine.

3
4
5- The ore is similar to that at the Brown mine. Gold occurs in
6 chloritic schist containing quartz lenticles.

7
8 References: Bryson, 1936, p. 69;

9 Kerr and Hanna, 1888, p. 244;

10- Nitze and Wilkens, 1897, p. 57;

11 Pardee and Park, 1948, p. 64.

Bear Creek mine

1 Type: Copper

2 Location: Chatham County, east of the Phillips mine, 2.2 miles south
3 southeast from Harpers Crossroads on a paved road, then east on an
4 unpaved road for 0.6 miles. The deposit is north of the road,
5- between the road and Little Indian Creek.

6
7 Malachite and azurite were seen on the surface. Prospecting
8 was done in 1942 and 1943 by the Bear Creek Copper Mine Company of
9 Wilmington, and during 1944 seven tons of ore were shipped.

10-
11 References: Broadhurst, 1955, p. 17;

12 Conley, 1958, p. 20;

13 Murdock, 1950, p. 9.

1 Beard mine

2 Type: Gold

3 Location: Guilford County, 1 mile south of Jamestown,

4
5-
6 Quartz veins carrying^{ied} gold, chalcopyrite, and pyrite in syenitic
7 granite. Gold mining was abandoned when sulfides were encountered at
8 water level. Three caved shafts were seen in 1934.

9
10- References: C. B. Brown, 1934, written communication;

11 Emmons, 1856, p. 174;

12 Mining Magazine, 1861, 2d ser., v. 2,^{no. 1,} p. 29;

13 Nitze and Hanna, 1896, p. 116;

14 Pardee and Park, 1948, p. 62.

1 Beason mine

2 Type: Gold

3 Location: Guilford County, near Jamestown.

4
5- Quartz veins in syenitic granite carried gold, chalcopyrite,
6 and pyrite. The mine was worked for gold, but was abandoned when
7 sulfides were found at water level.

8
9 References: Emmons, 1856, p. 174;

10- Mining Magazine, 1861, 2d ser., v. 2,^{no. 1,} p. 28;

11 Nitze and Hanna, 1896, p. 116;

12 Pardee and Park, 1948, p. 62.

1 Beattie or Sam Beattie mine

2 Type: Gold

3 Location: Gaston County, 13 miles west of Charlotte and 3 miles
4 south of Mount Holly, just to the south of the Smith mine.

5-
6 References: Genth and Kerr, 1881, p. 103;

7 Kerr and Hanna, 1888, p. 304;

8 Pardee and Park, 1948, p. 62.
9
--

1 Beaver mine

2 Type: Gold

3 Location: Mecklenburg County, $\frac{1}{2}$ mile east of Mungo's store, 10-12
4 miles southeast of Charlotte.

5-
6 One of a group of northeast-southwest trending quartz veins
7 carrying gold.
8

9 References: Nitze and Hanna, 1896, p. 144;

10- Pardee and Park, 1948, p. 63.
21
22
23
24
25-

1 Beaver Dam Mine

2 **Type:** Gold

3 **Location:** Montgomery County, at Flaggtown Post Office, 2 miles
4 north to northeast of the junction of Beaver Dam
5- Creek and Yadkin River.

6
7 The country rock is decomposed silicified schist
8 cut by numerous seams of quartz. Overlying the schist
9 is a bed of gravel 2 to 4 feet thick which is in turn
10- overlain by 5 to 15 feet of alluvium. Placer ~~Mining~~
11 was attempted, but was hindered by the presence of a
12 tenacious clay saprolite which has a tendency to "ball"
13 and carry off the gold. Large and extensive bodies of
14 greenstone on the property contain pyrite and a little
15- gold and silver which assayed at \$2.37 per ton.

16 **References:** Bryson, 1936, p. 75;
17 Emmons, 1856, p. 140-141;
18 Kerr and Hanna, 1888, p. 252-253;
19 Nitze and Hanna, 1896, p. 78-79;
20- Pardee and Park, 1948, p. 63.

1 Beaverdam Bald prospect

2 Type: Copper

3 Location: Cherokee County, 1,000 feet northeast of the foresters'
4 station on Beaverdam Bald, in Cherokee National Forest

5- Thin seams and disseminations of iron sulfides occur
6 in black slates. Gossan was exposed at the surface.
7 No copper minerals were seen at the time of examination
8 by the U. S. Geological Survey and the Tennessee Valley
9 Authority in 1943.

10-
11 Reference: G. H. Espenshade, 1943, written communication.
12

1 Beck's, David, mine

2 Type: Gold

3 Location: Davidson County, 5 miles west of Silver Hill.
4

5- Tetradymite and montanite associated with gold in quartz were
6 noted in the ore.

7
8 References: Genth and Kerr, 1881, p. 17, 101;

9 Pardee and Park, 1948, p. 62.
23
24
25-

1 Beech Mountain mine

2 Type: Lead, silver

3 Location: ^{YA}Watauga County, along Buckeye Creek on the north slope of
4 Beech Mountain.

5-

6 Silver-bearing galena is found with pyrite and quartz in small
7 gash veins in greenish schist derived from a metamorphosed diabase
8 dike cutting granitic rocks. A small amount of ore was produced in the
9 early 1900's.

10-

11 Reference: Keith, 1903, p. 8.

1 Bee Mountain mine

2 Type: Gold

3 Location: Caldwell County, 4 miles N. 80° W. from ^ALenoir on the
4 north^east slope of Bee Mountain, and 4 miles north^east of the
5- ~~Barker~~ mine

6

7 Quartz veins carrying brown-stained ^ccellular quartz, gold, sphalerite,
8 ^vglena, and chalcopryrite are in garnetiferous mica gneiss and pegmatite
9 country rock. Two shallow prospect shafts and a tunnel were seen in
10- 1896. One shaft was 70 feet deep and filled with water, the other
11 was 30 feet deep.

12

13 References: Bryson, 1936, p. 138;

14 Nitze and Hanna, 1896, p. 178;

15- Nitze and Wilk^ens, 1897, p. 68;

16 Pardee and Park, 1948, p. 62.

Bell (Belle) mine

Type: ^Gold

Location: Moore County, 7 miles east of Carter; 8 miles north-north-west of Carthage; $\frac{1}{2}$ mile west of Putnam. This is one of the better known of a group of 9 or 10 mines in a northeast-southwest trending belt 6 miles long, and 2 miles wide.

The ore body is a 4-foot wide zone containing finely disseminated pyrite, intercalations^{cd} of siliceous^u seams from 1/8 to 4 inches thick, and small calcite seams in sericitized^z felsic tuff altered near the ore body to ^{garnetiferous chlorite schist.} the ore carried very little sulfide and the free gold was very "leafy", which caused great difficulty in working the ores by ordinary means of amalgamation. The ore averaged \$12.00 per ton in gold and \$.45 per ton in silver. The Bell mine was worked to a depth of 110 feet, and for a length of 800 feet by 4 shafts and numerous open cuts. It was abandoned in 1894.

References: Bryson, 1936, p. 67;
 Conley, 1962a, p. 26;
 Kerr and Hanna, 1888, p. 242-243;
 Nitze and Hanna, 1896, p. 54-55;
 Nitze and Wilkens, 1897, p. 56;
 Pardee and Park, 1948, p. 64.

1 Bennett mine

2 Type: Gold

3 Location: Mecklenburg County, west to northwest of Charlotte,

5-
6 References: Nitze and Hanna, 1896, p. 132;

7 Pardee and Park, 1948, p. 63.

8
1 Berry mine

2 See Eddleman mine, Gaston County.

1 Berry, E. A., prospect

2 Type: Tin

3 Location: Gaston County, about 3/4 mile west of the Ormond prospects.

4
5- ^{ss} Cassiterite occurs in greis~~st~~ in muscovite and hornblende schist
6 and gneiss.

7
8 Reference: Kesler, 1942, table 18.
20-

1 A.G.,
~~A. G.~~ Betts mine

2 Type: Barite

3 Location: Madison County, extending northward from the French Broad
 4 River for $\frac{1}{2}$ mile.

5-
 6 The barite vein in Max Patch Granite was tested by shafts, tunnels
 7 and trenches. Impurities include fluorite, pyrite, and galena.

8
 9 Reference: Hunter and Gildersleeve, 1946, p. 9-10.
 10-

1 Betts Gap mine

2 see Savannah mine, Jackson County

1 Big America (Royster) mine

2 Type: Copper

3 Location: Granville County, $\frac{1}{2}$ mile east of Blue Wing

4
 5- The ore is largely bornite in quartz veins in siliceous and
 6 chloritic schists. Pyrite and chalcopryrite are present in the merest
 7 specks in the ore. Two shafts, one 40 and the other 80 feet deep,
 8 were put down by the Big American Reduction Company in the 1880's.
 9 The shafts are but a few feet apart and are connected by a ^tslope in
 10- the vein.

11 Reference: Kerr and Hanna, 1888, p. 216-217.

1 Biggers mine

2 See Nugget mine, Cabarrus County.

3

1 Biggerstaff mine

2 Type: Gold

3 Location: Rutherford County, near Golden.

4

5- Gold was produced from placers in 1912 and 1913. In 1916-1917
6 the mine was owned by W. E. Sudlow and was one of the largest
7 producers of placer gold in those years.

8

9 References: Pardee and Park, 1948, p. 64;

10- Pratt and Berry, 1919, p. 25-26;

11 U. S. Geol. Survey Min. Res. U. S., 1912, p. 430.

15-

1 Biles mine

2 Type: Gold

3 see also: Freehold mine, Stanly County

4 Location: Stanly County, near Salisbury,

5

6 This was a placer mine. In 1887 it was operated with the
7 Parker, Johnny Parker, and Flint Springs mines as the Freehold ~~Gold~~ ~~Mine~~
8 ~~Mine~~, by the Stanly Freehold Gold Mines, Ltd.

9

25- Reference: Eng. and Mining Jour., 1887, v. 43, p. 444.

1 Black mine

2 Type: Gold

3 Location: Davidson County, adjacent to the Eureka mine. —

4
5- Quartz stringers occur in highly schistose rock.

6
7 References: C. B. Brown, 1934, written communication;

8 Nitze and Hanna, 1896, p. 117.

9
1 Black (Z. V. Teeter) mine

2 Type: Gold

3 Location: Mecklenburg County, 8 to 10 miles east of Charlotte,
4 0.3 mile south ^{or} ~~and~~ 0.2 mile northeast of Hickory Grove.

5-
6 A small but rich vein of oxidized brown ore was mined many
7 years ago. Many shallow pits and trenches were seen in 1934.

8
9 References: Kerr and Hanna, 1888, p. 302;

10- J.V. Lewis, 1934, written communication;

11 Nitze and Hanna, 1896, p. 144;

12 Pardee and Park, 1948, p. 63.
22
23
24
25-

1 Black mine

2 Type: Gold

3 Location: Union County, $\frac{1}{2}$ mile east of Indian Trail.

4
5- Two quartz veins carrying gold and silver with pyrite, galena,
6 chalcopyrite, sphalerite, and bornite occur in slate country rock.
7 In 1896 the workings consisted of a 60-foot shaft with drifts. In
8 1904 the shaft was 175 feet deep and there was a 10-stamp mill on the
9 property. A production of \$8,000 in gold was estimated for 1904.

10- The mine was closed in 1906.

11
12 References: Bryson, 1936, p. 94;

13 Nitze and Hanna, 1896, p. 99;

14 Pardee and Park, 1948, p. 103;

15- Pratt, 1907, p. 61.

1 Black Ankle mine

2 Type: Gold

3 Location: Montgomery County, 11-14 miles northeast of Troy. —

4
5— Finely divided gold and pyrite in ^{ub} ~~cores~~ are associated with
6 quartz stringers in a mineralized zone in sericite schist derived
7 from volcanic tuff. Saproelite, clay ^{ex} ~~like~~ decomposed tuff, covers the
8 surface. The deposit was discovered in 1928 and was operated
9 intermittently until 1935 by Edward Hedrick, who reported a production
10— of \$15,000 or about 750 ounces of gold. The workings consist of a
11 pit 225 feet long, 120 feet wide, [in saprolite] and 50 feet deep, and
12 a 112-foot shaft. The ore is of low grade though its gold content is
13 not accurately known. Considerable gold has been lost owing to its
14 extremely fine subdivision and the nature of the slime produced by
15— the saprolite when washed. Several gold recovery processes were
16 attempted but none proved successful.

17
18 References: Bryson, 1930, p. 14-15;

19 Bryson, 1936, p. 75-77;

20— Bryson, 1937, p. 24;

21 Pardee and Park, 1948, p. 80-81.
22
23
24
25—

1 Black Cat mine

2 Type: Gold

3 Location: Mecklenburg County, 12 miles east of Charlotte.

4

5- Reference: Pardee and Park, 1948, p. 63.

6

1 Blackwelder mine

2 Type: Gold

3 Location: Cabarrus County,

4

5- Gold ^{was} reported in the ore.
A

6

7 Reference: Genth and Kerr, 1881, p. 96.

1 Blair mine

2 See Ellington mine, Mecklenburg County.

17

1 Blake mine

2 Type: Gold

3 Location: Mecklenburg County, near Charlotte;

4

5- Gold and pyrite were noted.

6

7 References: Genth and Kerr, 1881, p. 111;

8 Nitze and Hanna, 1896, p. 125;

9 Pardee and Park, 1948, p. 63.

1 Blue Ridge Tin Corporation main works

2 Type: Tin

3 Location: Cleveland County, about $\frac{1}{2}$ mile southwest of the Ledoux
4 prospects, and 3,300 feet south of Park Yarn mill.

5-
6 Cassiterite occurs in greisen and feldspathic gangue in
7 spodumene-bearing pegmatite dikes in muscovite schist and gneiss
8 and hornblende gneiss. Five ore bodies are exposed, the largest of
9 which was 4 feet thick and had a strike length of 250 feet. The Blue
10- Ridge Tin Corporation prospected the mine about 1897. At the north-
11 east end of the property a shaft 80 feet deep (No. 4) was sunk, with
12 60 feet of drifts. About 200 yards southwest is shaft No. 5, 130
13 feet deep. Placer deposits were worked in the valley southwest and
14 south of the mine, for a length of over 200 yards.

15-
16 References: Keith and Sterrett, 1917, p. 141-142.

17 Kesler, 1942, table 18; plate 39.

18
1 Blue Ridge mine

2 ---see Nibelong mine, Caldwell County

22
23
24
25-

Blue Wing mine

1 Type: Copper

2 Location: Granville County, 1 1/4 miles south of Virgilina. —

3
4
5- A quartz fissure vein in andesitic tuff of the Virgilina Green-
6 stone carries bornite, chalcocite, malachite, azurite, and argentite(?)
7 in a gangue of quartz, calcite, chlorite, epidote, and hematite. Both
8 the footwall and the hanging wall are well defined, and the ore is
9 confined to the vein, which has been traced on the surface for nearly
10- half a mile. The vein is opened in 3 places, at the Blue Wing mine
11 proper, 1,000 feet south at the Spring shaft, and 1/4 mile south of
12 the Spring shaft at a pit 24 or 30 feet deep. The mine was ~~just~~ first
13 operated about 1886. In 1895 it was owned by the Boston and Carolina
14 Copper Company. It was last operated in 1909 by the Tennessee Copper
15- Company. In 1910 the workings consisted of one shaft 360 feet deep,
16 3 prospect shafts, and 1,700 feet of drifts. In 1942 the mine was
17 owned by ~~The~~ Virginia Rock and Minerals Company. In 1942 and 1943 the
18 U.S. Bureau of Mines investigated the mine by trenching, diamond
19 drilling, and geophysical survey. The production of this mine is
20- estimated at more than 50,000 tons of 4 percent copper ore.

21 References: Laney, 1917, p. 102-114; Newberry ^{and} others, 1948, p. 11-12;
22 Stucky, 1965, p. 288-289;
23 Weed, ^v1911, p. 84-87,
24 1900, p. 464-467;

1 Dan Boger mine

2 Type: Gold

3 Location: Cabarrus County, 4 miles west of Georgeville. —

4
5- Pre-Civil War pits were seen in granite country rock.

6
7 References: C. B. Brown, 1934, written communication;

8 Pardee and Park, 1948, p. 62.

9
1 Bolton prospect

2 Type: Gold

3 Location: Guilford County, 2 miles east of High Point.

4
5- Quartz vein in slate carries gold.

6
7 References: C. B. Brown, 1934, written communication;

8 Pardee and Park, 1948, p. 62.

1 Bonnie Belle (Washington) mine

2 Type: Gold

3 Location: Union County, $1\frac{1}{2}$ miles northwest of Mineral Springs and
4 1 mile east of the Howie mine; 8 miles west of Monroe. The
5- Penman mine is given this same location.

6
7 A silicified zone in argillaceous schist contains finely divided
8 sulfides, chiefly pyrite and chalcopyrite, and small specks of free
9 gold on the principal cleavage planes. The ore zone averages 14 feet
10- in width and extends for a distance of about $1/4$ mile along the strike.
11 In 1894 a 20-foot shaft exposed an ore body 5 to 8 feet wide, the
12 richest part of which was a 2-foot layer next to the hanging wall.
13 The ore was [being] treated in a combination Chilean and drag mill with
14 plates and a concentrating table. A sample of the mill heads assayed
15- 0.206 ounce of gold per ton and 1.42 ounces of silver per ton. Twenty
16 shafts and pits, inaccessible in 1934, are distributed along a north-
17 east-southwest course for a distance of 1,200 feet.,

18
19 References: Bryson, 1936, p. 97-99;

20- Kerr and Hanna, 1888, p. 262;

21 Nitze and Hanna, 1896, p. 104;

22 Nitze and Wilkens, 1897, p. 63;

23 Pardee and Park, 1948, p. 103.

1 Bonnie Doon mine

2 See Smart mine, Union County.

1 Bonnie Mill prospect

2 Type: Tin

3 Location: Cleveland County, 0.15 mile southeast of Bonnie Mill,
4 about $\frac{1}{2}$ mile south of the town of Kings Mountain.

5-
6 Cassiterite float was seen.

7
8 Reference: Kesler, 1942, table 18.
9

1 Boson mine

2 Type: Gold

3 Location: Randolph County,
4

5-
6 Reference: Pardee and Park, 1948, p. 64.
15-

1 Boss mine

2 Type: Gold

3 Location: Davidson County, *about 5 miles west of Silver Hill.*
4

5-
6 Coarse-grained galena was noted in the ore. Emmons reported
7 that handsome cabinet specimens of galena associated with chalcocite
8 were taken from a 4 to 6 foot quartz vein.

9 References: Emmons, 1856, p. 208-209;

10- Genth and Kerr, 1881, p. 101.

Charlie Bost mine

Type: Gold

Location: Cabarrus County, 6 miles southeast of Concord. —

Reference: Pardee and Park, 1948, p. 62.

Boswell, Ruben, prospect

See Strothers prospect, Union County.

Boyd mine

Type: Gold

Location: Alamance County.

was found
Gold in placers.

Reference: ⁿGeyth and Kerr, 1881, p. 91.

1 Boylston (Boilston) mine

2 Type: Gold

3 Location: Henderson County, on the southeastern slope of Forge
4 Mountain, along Boylston Creek, 22 miles south of Asheville and
5- 12 miles west of Hendersonville.

6
7 Four rusty, cellular quartz veins from 1 to $4\frac{1}{2}$ feet thick
8 carrying free gold in the ^ucopper levels and gold, pyrite, and galena
9 below water level occur in fine grained mica and hornblende schists
10- of the Ocoee Formation. The Boylston Mining Company was organized
11 in 1886 and operated the mine and a 10-stamp mill [^{off and on}sporadically] for
12 several years. The No. 2 vein was the best developed of the veins
13 and produced more than 1,000 tons of ore reported to carry \$4.00/ton
14 in gold. Openings have been made on this vein over a length of
15- 1,500 feet. Several attempts were made during the 1930's to reopen
16 the mine.

17
18 References: Bryson, 1936, p. 146-147;

19 Keer and Hanna, 1888, p. 316-317;

20- Nitze and Hanna, 1896, p. 181-191.

1 Brackettown mine

2 see Marion Bullion Company mine, McDowell County

3

1 Brafford mine

2 Type: Gold

3 Location: Mecklenburg County, east of Mungo's store, 10-12 miles
4 southeast of Charlotte.

5-
6 One of a group of northeast-southwest trending gold-bearing
7 quartz veins.

8
9 References: Nitze and Hanna, 1896, p. 144;
10- Pardee and Park, 1948, p. 63.
14

15-
1 Branson mine

2 Type: Gold

3 Location: Randolph County, 6 miles south of Asheboro.

4

5- Quartz stringers carrying gold fill sheared zones in andesitic
6 tuff. In 1934 the remnants of 4 shafts were seen. About 1/2 acre
7 of the surface had been stripped to a depth of 5 feet.

8
9 References: C. B. Brown, 1934, written communication;
25- Pardee and Park, 1948, p. 64.

1 Brawley mine

2 Type: Gold

3 Location: Mecklenburg County, 4 miles west of Charlotte or 5 to
4 10 miles northwest of Charlotte,

5-
6 Rich float quartz on the surface had been very productive of
7 gold before 1887. The surface appeared to be a network of quartz
8 seams for no vein was found.

9
10- References: Genth and Kerr, 1881, p. 111;
11 Kerr and Hanna, 1888, p. 293;
12 Nitze and Hanna, 1896, p. 132;
13 Pardee and Park, 1948, p. 63.
14

1 Brendle Knob mine

2 Type: Copper

3 Location: Jackson County.
4

5- The mine belonged to the Carolina Copper Company in 1911.
6

7 Reference: Weed, 1911, p. 136.
23
24
25-

Briggs mine

Type: Gold

Location: Davidson County, 2 1/2 miles north of Silver Hill. —

Quartz stringers up to 18 inches thick occur in highly sheared and weathered granite. Two shafts were sunk of 45 and 20 foot depths. The surface has been ^{can} ~~po~~tered for an acre around the shafts.

Reference: ^C O. B. Brown, 1934, written communication;
Pardee and Park, 1948, p. 62.

Briggs mine

See Kings Mountain mine, Gaston County.

Bright mine

Type: Gold

Location: Montgomery County, along the west flank of the ^{w r} Ucharie Mountains.

This was a placer mine in gravel underlying saprolite, which hindered the concentration of the gold.

References: Bryson, 1936, p. 78;
Kerr and Hanna, 1888, p. 248;
Nitze and Hanna, 1896, p. 80;
Nitze and Wilkens, 1897, p. 52;
Pardee and Park, 1948, p. 63.

1 Bright Light mine

2 See Crowell mine, Union County.

3

1 Bringle mine

2 Type: Gold

3 Location: Rowan County

4

5 Reference: Genth and Kerr, 1881, p. 116.

10-

1 Brinkley (Allison) prospect

2 Type: Copper

3 Location: Jackson County, on the north side of the Tuckasegee River
4 about $1\frac{1}{2}$ miles from the Woods farm.

5-

6 Very similar to Woods Farm prospect, no sulfides were seen, but
7 biotite gneiss cut by stringers of epidote and quartz is exposed in
8 three shallow pits. *The prospect was*

9 *Worked* prior to the Civil War.

10- References: G. H. Espenshade, 1944, written communication;
11 Hunter and Gildersleeve, 1946, p. 18.

23

24

25-

1
2
3
4
5-
6
7
8

1
2
3
4
5-
6
7

17
18
19
20-
21
22
23
24
25-

Brown mine

Type: Gold

Location: Davidson County, 1 mile north of Cid. —

Four prospects were discovered in bluish gray varved slate.

Reference: C. B. Brown, 1934, written communication.

Brown mine

Type: Gold

Location: Mecklenburg County, —

Gold was noted in the ore.

Reference: Genth and Kerr, 1881, p. 111.

Brown mine

Type: Gold

Location: Moore County, about 780 feet southwest of the Burns mine, in a sharp meander of Cabin Creek, on the road from Moffitt's to Richardson's mill.

Gold is disseminated through silicified ^{and} sericitized felsic tuff ^{county} rock. The dip of the ore body is very flat; the ore body is 3 feet thick, but the "pay seam" was a narrow seam of rich quartz. The mine was worked as an open cut 350 yards long. A few shallow shafts or prospect pits were dug. The mine was last operated in 1905.

References: Bryson, 1936, p. 68;

Conley, 1962 a, p. 25;

Kerr and Hanna, 1888, p. 244;

Nitze and Hanna, 1896, p. 56;

Nitze and Wilkens, 1897, p. 57;

Pardee and Park, 1948, p. 64.

Brown prospect

See Pardo mine, Henderson County

Brown Hill mine

See Delft mine, Randolph County

1 Brown Hill mine

2 Type: Gold

3 Location: Union County, 1 mile west of Stout and $3\frac{1}{2}$ miles south of
4 Indian Trail.

5-
6 A large quartz vein consisting of a series of connected lenses
7 crops out along a low ridge ^{and} varies from 3 to 20 feet in width.
8 Sulfide grains and rusty spots are distributed through the quartz.
9

10- Reference: Pardee and Park, 1948, p. 103.
11

1 Brown Mountain mine

2 Type: Gold

3 Location: Burke County, 13 miles north of Morganton on Caney Branch,
4 a tributary of Upper Creek.
5-

6 Quartz lenses and stringers interbedded with chloritic schists in
7 coarse grained granite assayed only a trace of gold and one ounce of
8 silver. Sulfides occurred sparingly.

9 In 1896 there were two shafts, 20 and 25 feet deep, and one small
10- open cut.
11

12 References: Bryson, 1936, p. 137;

13 Nitze and Hanna, 1896, p. 175;

14 Pardee and Park, 1948, p. 62.

1 Bryan's Gap (Trap Hill) mine

2 Type: Copper, gold

3 Location: Wilkes County, on the eastern face of the Blue Ridge at
4 Bryan's Gap, 3 miles north of Trap Hill.

5-
6 A quartz outcrop was traced for nearly 4 miles. Pyrrhotite, pyrite,
7 and chalcopryite, occasionally in large masses, were seen in the quartz
8 vein, which ranged from 3 to 20 feet in width and dipped easterly with
9 the enclosing schists. The ore was ^lgood and silver-bearing.

10-
11 References: Conley, 1958, p. 75;

12 Kerr and Hanna, 1888, p. 231;

13 Nitze and Hanna, 1896, p. 179.

1 Bryant Park mine ^{property}

2 See Griffith ^{property} mine, Mecklenburg County.

17
1 Buck Creek prospect

2 Type: Copper

3 Location: Macon County, 8 miles southeast of Franklin on Buck Creek.

4
5- Pyrrhotite and chalcopryite occur in a quartz vein in quartz
6 mica gneiss. ^{Two open cuts and a 15-foot shaft.} A small amount of
7 ore was shipped ^{from}

8 Reference: Tennessee Valley Authority, 1942, written communication.

Buckeye mine

Type: Copper

Location: Person County, several hundred yards west of the Poole mine, and one mile north of the Gillis mine. —

A quartz vein with ^copper staining was seen. It pinched out at depth.

Reference: Kerr and Hanna, 1888, p. 218.

Buck Knob prospect

Type: Copper

Location: Jackson County, in the same belt of copper localities with Shell Ridge, Wayehutta, and Hornbuckle.

References: Smith, 1875, p. 113;
Weed, 1911, p. 137.

1 Buck Mountain mine

2 Type: Gold

3 Location: Montgomery County, 7 miles west of Troy and 1/4 mile
4 from the ^w ^r Uharie River on the side of Buck or Gold Mountain.

5-
6 Two quartz veins // carrying free gold, 25 to 50 feet wide, were
7 well exposed in the side of the mountain. Below the outcrop of the
8 vein fragments of gold-bearing quartz were found. Rough gold was
9 panned from the surface mantle over an area of 50 acres below the
10- outcrops of the veins.

11
12 References: Pardee and Park, 1948, p. 85.

13
1 Buffalo mine

2 Type: Gold

3 Location: Cabarrus County, 1/2 mile west of Georgeville and one mile
4 northeast of the Rocky River mine.

5-
6 A mineralized zone 25 feet wide that contains quartz veins with
7 pyrite, galena, sphalerite, and chalcopryrite, and assays 0.17 ounce
8 of gold per ton is found in schist of the volcanic series.

9
10- References: Nitze and Hanna, 1896, p. 93;

11 Nitze and Wilkens, 1897, p. 61;

12 Pardee and Park, 1948, p. 71.

1 Bullion Mine

2 Type: Gold

3 Location: Rowan County, $\frac{1}{2}$ mile east of the Reimer Mine, and
4 $2\frac{1}{4}$ miles southeast of Granite Quarry. —
5—

6 A prominent quartz vein, probably the continuation
7 of the Reimer vein, contains limonite and pyrite in
8 granite country rock. Overgrown workings extending for
9 500 feet along the vein were seen in 1934. The vein
10— was never much worked; the last work was done in 1881.
11 The ore assayed from \$6.20 to \$15.51 gold per ton.

12 References: C. B. Brown, 1934, written communication;
13 Kerr and Hanna, 1887, p. 282;
14 Nitze and Hanna, 1896, p. 120;
15— Pardee and Park, 1948, p. 91.
16
17
18
19
20—
21
22
23
24
25—

1 Bunnell Mountain mine

2 Type: Gold

3 Location: Montgomery County, on the west flank of the ^W ^r
₁ ₁ Uharie
 4 Mountains.

5-
 6 This was a placer mine in gravel underlying saprolite. Mining
 7 was hindered by the scarcity ^{of} ~~to~~ water and the tenacious nature of
 8 the saprolite.

9
 10- References: Bryson, 1930, p. 78;

11 Kerr and Hanna, 1888, p. 248;

12 Nitze and Hanna, 1896, p. 80;

13 Nitze and Wilkens, 1897, p. 52;

14 Pardee and Park, 1948, p. 63.

15-
 1 Burnett mine

2 Type: Gold

3 Location: Mecklenburg County,
 4

5- Reference: Genth and Kerr, 1881, p. 111.
 22
 23
 24
 25-

1 References: Bryson, 1936, p. 67-68;
 2 Conley, 1962 a, p. 25;
 3 Kerr and Hanna, 1888, p. 245-246;
 4 Nitze and Hanna, 1896, p. 55-56;
 5- Nitze and Wilkens, 1897, p
 6 Pardee and Park, 1948, p. 64.
 7

Burns mine

See Allred mine, Randolph County

Burrell Wells (V. W. Smith) mine

Type: Gold

Location: Gaston County, 2 miles southwest of Mount Holly and 3½
 miles southeast of the Duffie mine; also 2 miles south of the
 Tuckasegee Ford on the ^C ~~Ratawba~~ Catawba River.

Gold with pyrite and chalcoppyrite occurs in quartz veins.

Six parallel veins had been prospected by 1896; the deepest workings were less than 50 feet deep.

11 References: Genth and Kerr, 1881, p. 103;
 12 Kerr and Hanna, 1888, p. 221, 304;
 13 Nitze and Hanna, 1896, p. 149;
 14 Pardee and Park, 1948, p. 62.

Catawba

Burns (Alred, Burns and Alred) mine

Type: Gold

Location: Moore County, 11 miles west-northwest of Carthage, on Cabin Creek, and 2 miles southwest of Hemp. It is 1050 feet southwest of the Allen mine. This is one of a group of mines in the northwestern part of Moore County and may be connected with the most eastern of the Montgomery County belts.

The country rock is chloritic schist, in places talcose, and in places pyrophyllitic and hydro-micaceous. The schist is filled with quartz stringers and lenticles and is everywhere auriferous, although not everywhere capable of being profitably worked. Iron sulfides also occur in the schist. The ore was said to yield \$2.50 to \$3 per ton in gold. Large open cuts 20 to 100 feet wide and 50 feet deep extend along the strike for a distance of about 1/5 mile on Moody Hill near the east boundary of the mine property. Some work was also done on Brown Hill near the western end of the property. The mine was opened in the 1830's and was operated for more than 50 years. In 1894 the ores were being treated in five Crawford mills by the Columbia Mining Company, but the operations apparently did not prove successful. In 1895 the Cabin Creek Mining Company built a 10-stamp mill and planned to introduce the cyanide process. The mine was operated briefly in 1906 and in 1915 and 1916.

1 Burton mine

2 Type: Gold

3 Location: Lincoln County, near Lincolnton.

4

5- The mine was worked extensively, probably in the middle 1880's.

6

7 Reference: Nitze and Hanna, 1896, p. 150.

8

1 Butler (County Line) mine

2 Type: Gold

3 Location: Davie County, 8 miles southwest of Mocksville.

4

5- A large, low grade body carrying gold in gneissic rocks was worked
6 before 1888.

7

8 References: Kerr and Hanna, 1888, p. 307;

9 Nitze and Hanna, 1896, p. 151.

10

19

20-

21

22

23

24

25-

1 Butterfield mine

2 Type: Gold

3 Location: Union County, $4\frac{1}{2}$ miles east of Indian Trail; 150 yards
4 northwest of the Crump mine and on a northward extension of the
5- mineralized belt developed at the Crump mine.

6
7 The country rock is dark bluish-gray slate impregnated with
8 pyrite in cubes. Quartz carries gold-bearing pyrite and chalcopyrite.
9 The mine was last worked in 1886, when there were 2 shafts, 30 and
10- 50 feet deep.

11
12 References: Brown, C. B., 1934, written communication;
13 Nitze and Hanna, 1896, p. 98;
14 Pardee and Park, 1948, p. 103.

15-
1 Cabarrus mine

2 Type: Copper, gold

3 Location: Cabarrus County,
4

5- A quartz vein 7-8 inches wide carried chalcopyrite, pyrite,
6 and gold. The mine was operated by the American Mining Company
7 in 1853. A series of pits was dug along the vein.

8
9 Reference: Mining Mag., 1854, ^{Vol. 2, no. 3,} p. 317.
10-

1
2
3
4
5-
1
2
3
4
5-
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25-

Cabe mine

see Otto mine, Macon County

Gady mine

Type: Gold

Location: Rowan County,

Reference: Genth and Kerr, 1881, p. 116.

Cagle (Laurel Hill, Hancock, Talc) mine

1 Type: Gold

2 Location: Moore County, 3/4 mile north of the Burns mine and 1500
3 feet southeast of the Clegg mine, on the east side of Cabin Creek,
4 1½ miles southwest of Hemp.

5
6 Pyrite and traces of chalcopyrite with gold are disseminated
7 through network^s of quartz veinlets in siliceous and talcose schist
8 country rock. The ore assayed from \$4.00 to \$7.54 per ton in gold and
9 \$0.13 to \$1.10 per ton in silver. The mine was operated at least as
10 early as 1865 and in 1888 there were two inclined shafts, with depths
11 of 171 and 180 feet. Unlike most of the mines of the area, the work
12 here (and a 20-stamp mill) was mostly underground. In 1906 an attempt
13 was made to dewater old workings. Open cuts extend for 300 feet
14 along the strike. As many as 30-stamps were in operation here at one
15 time.

16
17 References: Bryson, 1936, p. 68;

18 Conley, 1962 a, p. 25;

19 Kerr and Hanna, 1888, p. 245;

20 Nitze and Hanna, 1896, p. 56;

21 Nitze and Wilkens, 1897, p. 57;

22 Pardee and Park, 1948, p. 64.
23
24
25

1 Caldwell (Craig-Davidson) mine

2 Type: Gold

3 Location: Mecklenburg County, 3 miles northeast of Charlotte.

4
5- Gold and pyrite were noted in the ore.

6
7 References: Genth and Kerr, 1881, p. 111;

8 Nitze and Hanna, 1896, p. 143;

9 Pardee and Park, 1948, p. 63.

10
11 Caledonia mine

12 See Crowder's Mountain mine, Gaston County.

13
14 Calhoun Prospect

1 Type: Copper

2 Location: Swain County, on the east side of Bone Valley, about
3
4 $1\frac{1}{2}$ miles up the valley from Hazel Creek —

5-
6 Dissemminations and stringers of chalcopyrite were
7 found in a 3 to 4 foot wide zone of mica schist and
8 sheared siltstone. The chalcopyrite-rich rock assayed
9 2.66 percent copper and 0.47 percent zinc. The
10- mineralized zone was opened for 20 feet along its
11 strike in 1943; but trenching failed to reveal a con-
12 tinuation of the mineralization.

13 Reference: Espenshade, 1963, p. 35-36.
14

1 California mine

2 See Tucker mine, Cabarrus County. —

3
4 California mine

1 Type: Gold

2 Location: Moore County, in the extreme southwest end of the Standard
3 Mineral Company's pyrophyllite pit, 2½ miles southwest of
4 Robbins.

5—
6 A shaft was sunk here to a depth of 75 feet by Peter Shamburger
7 in about 1896. The ore was of low grade and the mine soon closed.

8
9 Reference: Conley, 1962a, p. 25-26.

10—
15—
16 Callahan Mountain mine

1 Type: Gold

2 Location: Davie County,

3
4
5— References: Kerr and Hanna, 1888, p. 307;
6 Nitze and Hanna, 1896, p. 151.

1 Cambridge mine

2 Type: Copper

3 Location: Guilford County,
45- Quartz veins carried pyrite, chalcopyrite, chalcocite,
6 barnhardtite, chrysocolla, and malachite. The mine was worked in
7 1861 and had a 150-foot shaft.
8

9 References: Genth and Kerr, 1881, p. 104;

10- Mining Magazine, 1861, [~~ser. 2~~^{2d ser.}], v. 2, no. 1, p. 113-114.
1112 Cambuco mine

13 Type: Copper

14 Location: Jackson County, on the Cullowhee vein,
15 (~~loc. 50-e~~⁵³)
1617 Reference: Weed, 1911, p. 137.
1819 Cameron [placer] mine

20 Type: Gold

21 Location: Moore County, 5 miles northwest of Carter.
2223 *This was a placer mine.*24 Reference: Pardee and Park, 1948, p. 64.
25

1 Cameron Mountain Mine

2 Type: Gold

3 Location: Randolph County, adjoins the southern Homestake Mine,
4 near Lytton, Tabernacle Township. —

5—
6 The ore is in a silicified zone in sheared
7 schistose tuff. The mine was opened to a depth of
8 125 feet in 1904. Most of the ore probably was taken
9 from a group of pits up the hill from the main shaft.
10— The last recorded work was a placer operation in 1923.

11 References: C. B. Brown, 1934, written communication;
12 Pardee and Park, 1948, p. 64;
13 Pratt, 1904, p. 13.

14
1 Campbell mine

2 Type: Gold

3 Location: Mecklenburg County, 5-10 miles northwest of Charlotte.
4

5—
6 Reference: Pardee and Park, 1948, p. 63.
20—

21
1 Camp Ridge mine

2 Type: Gold

3 Location: Rowan County, 4 miles east of Rockwell. —
4

5— Reference: Pardee and Park, 1948, p. 64.

1
2
3
4
16
17
18
8
1
2
3
4
5-
14
15-
10
17
1
2
3
4
5-
6
24
25-

Cane Creek placers

Type: Gold

Location: McDowell County and Rutherford County, placers along
^{An}
Cove Creek.

Reference: Nitzel and Hanna, 1896, p. 152 (map);
Conley, 1958, p. 65.

Cannon mine

Type: Gold

Location: Gaston County,

Reference: Genth and Kerr, 1881, p. 103.

Cansler and Shuford mine

Type: Gold

Location: Gaston County ^{or Lincoln County,}

References: Genth and Kerr, 1881, p. 103;
Wurtz, 1859, p. 25.

1 Cany Fork Bald prospect

2 Type: Copper

3 Location: Jackson County, on a ridge about 1 mile southwest of Cany
4 Fork Bald.

5- Quartz veins carrying limonite ^ocratings in quartz - mica schist
6 country rock. No sulfide minerals were seen. There were two shallow
7 prospect pits.
8

9 Reference: G. H. Espenshade, 1944, written communication.
10-
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25-

1 Capps (Capps Hill) mine

2 Type: Gold

3 Location: Mecklenburg County, 5 to 5½ miles northwest of Charlotte,
4 between the Rozzel's Ferry and Beattie's Ford roads, adjoining
5- the McGinn mine on the south.

6
7 The mine is located on two of a group of nearby convergent veins
8 in the granite belt, the Capps vein and the Jane vein. Near the
9 surface were brown oxidized ores which extended to a depth of 130
10- feet; below this depth were pyrite and chalcopyrite. The mine was
11 operated as early as 1826 and continued to operate for several years,
12 during which it had a large production. The mine was idle from 1840
13 until 1882, when it was reopened and worked for several years by
14 Capt. John Wilkes. The production for this period was about 6,000
15- tons of ore which yielded \$60,000 in gold. In 1934 the mine was taken
16 over and developed by Hugh Jardine of Toronto, Canada. Numerous
17 closely spaced surface workings and shafts extend for a length of more
18 than 2,000 feet on the main vein. The shafts are known as the Gooch,
19 70 feet deep, Bissell [shaft], 130 feet deep, Penman [shaft], 65 feet
20- deep, and Mauny shaft. Four large ore bodies were developed through
21 these shafts. The part of the Jane vein on the Capps property was
22 worked through the 160-foot Isabella shaft. The total production has
23 been estimated at over \$1,250,000.
24
25-

- 1 References: Bryson, 1936, p. 117-121;
- 2 Bryson, 1937, p. 16;
- 3 Kerr and Hanna, 1888, p. 294-297;
- 4 Nitze and Hanna, 1896, p. 133-137;
- 5- Nitze and Wilkens, 1897, p. 64-66;
- 6 Pardee and Park, 1948, p. 77.

1 Carolina Queen mine

2 Type: Copper, gold

3 Location: Burke County, on the northeast slope of White's Knob
 4 ~~or~~ Hill's Knob, on Hall's Creek.

5- Small parallel veins in gneiss carry saccharoidal, milky, and
 6 sulfide stained quartz. Below water level pyrite, galena, chalcopyrite,
 7 and sphalerite were reported. There was a stamp mill in 1896.

8 References: Kerr and Hanna, 1888, p. 312; Nitze and Hanna, 1896,
 9- p. 164; Pratt, 1914, p. 18 .

17

18

1 Carpenter mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4

5- Reference: Nitze and Hanna, 1896, p. 174.

24

25-

J.M.L.,

1 J. M. L. Carpenter-Paul Hastings prospect

2 Type: Tin

3 Location: Gaston County, about 1 mile southeast of the Metcalf prospect.

4

5- At the Carpenter prospect cassiterite occurs in a conformable ore
6 body in pegmatite in greisen gangue in muscovite schist and gneiss
7 wall rock.

8 In 1940 the 40-foot shaft of the Carpenter prospect was inaccessible.

9 An 18-foot pit was sunk in ore on the Hastings property in 1940. The

10- William Carpenter prospect described by Graton is in the same area as

11 the J. M. L. Carpenter prospect.

12

13 References: Graton, 1906, p. 51;

14 Kesler, 1942, table 18.

15-

S.T.,

1 S. T. Carpenter prospect

2 Type: Tin

3 Location: Lincoln County, about 2 miles southeast of Lincolnton.

4

5- Cassiterite occurs in a gangue of quartz-muscovite greisen, in a
6 country rock of muscovite schist and hornblende biotite gneiss.

7

8 Reference: Kesler, 1942, table 18.

25-

1 Carson mine

2 Type: Gold

3 Location: Mecklenburg County, in the Charlotte municipal golf^f course
4 near the intersection of W. Tremont Ave. and Barringer Dr., along
5- the bluff facing Irwin Creek.

6
7 Quartz, carbonate, and pyrite occur in a shear zone in granite.

8 In 1934 there was an open cut 200 feet long and 15 feet deep.

9
10- References: J. V. Lewis, 1934, written communication;
11 Pardee and Park, 1948, p. 63.

12
1 Carson mine

2 See Sumner mine, Mecklenburg County. (

16
1 Carson mine

2 See Alta mine, Rutherford County (

1 Carter Mine

2 Type: Gold

3 Location: Montgomery County, 3 miles east of Troy; 3 miles west
4 of Star. The Norfolk Southern Railroad passes through
5- the property. —

6
7 This is one of the older mines in North Carolina.
8 The ore zone is 1 to 2 feet wide and consists of quartz
9 stringers interlaminated with country rock which is an
10- altered andesite schist. The schist is chloritic
11 and sericitic and is charged with gold-bearing pyrite.
12 Emmons reported gold telluride occurring with lime
13 carbonate in the quartz veins. The mine was worked
14 in the 1850's by the Mauney Brothers, who reportedly
15- left when the vein pinched out. They produced between
16 \$100,000 - \$200,000. This work was done for a length of
17 150 feet along the vein at a depth of at least 65 feet.
18 In 1906 the mine was owned by Sam Smitherman of Troy,
19 N. C., who sank 2 shafts in an attempt to work the mine.
20- In 1910 or 1912 it was estimated that high-grade ore
21 could easily be developed on the 65-foot level. The
22 vein has been traced and prospected for $2\frac{1}{2}$ miles north-
23 east to the Reynolds mine. In the 1930's Mr. G. W.
24 LaPiere of Charleston, West Virginia, attempted placer
25-

1 mining of the stream gravels, but the venture was not
2 successful.

3 References: C. B. Brown, 1934, written communication;
4 Bryson, 1936, p. 78;
5- Bryson, 1937, p. 25;
6 Emmons, 1856, p. 169;
7 Kerr and Hanna, 1888, p. 247;
8 Nitze and Hanna, 1896, p. 80;
9 Nitze and Wilkens, 1897, p. 52;
10- Pardee and Park, 1948, p. 85;
11 Pratt, 1907, p. 55;
12 Pratt, 1914, p. 45-46.

13
14
1 Cary, southeast of, prospect

2 Type: Cobalt

3 Location: Wake County,
4

5- Asbolite, or cobaltian wad, was observed outcropping for a
6 distance of one-quarter mile.
7

8 Reference: Pratt, 1907, p. 17.
9
23
24
25-

1 Casher's Valley placer

2 Type: Gold

3 Location: Jackson county,

5- Placer gold, chalcopryrite, and pyrite were noted.

7 Reference: Genth and Kerr, 1881, p. 107.

1 ^{w/}
1 Catawba mine

2 See Kings Mountain mine, Gaston County

1 Cathey mine

2 Type: Gold, copper

3 Location: Mecklenburg County, 7 miles ^{west} north of Charlotte.

5- A large body of ^{of} Chalcopyrite ore carrying gold and pyrite
6 was worked at this mine. At a depth ^{of} 75 feet a body ^{of} "blue rock"
7 or blue granite was encountered and the work was suspended.

9 References: Genth and Kerr, 1881, p. 111;

10- Kerr and Hanna, 1888, p. 209;

11 Nitze and Hanna, 1896, p. 141;

12 Pardee and Park, 1948, p. 63.

1 Cathey, Green C., mine

2 Type: Gold, copper

3 Location: Mecklenburg County, 8 miles northwest of Charlotte;

4
5-
6 The ores carried gold, pyrite, and abundant chalcopyrite in
7 the upper parts of the vein. In the 1880's a copper ore body of
8 good grade was developed.

9
10- References: Genth and Kerr, 1881, p. 111;

11 Kerr and Hanna, 1888, p. 210;

12 Nitze and Hanna, 1896, p. 139;

13 Pardee and Park, 1948, p. 63.

1 Cedar Cove mine

2 See Dobson mine, McDowell County.

1 Champion (Zeb Teeter) mine

2 Type: Gold

3 Location: Mecklenburg County, 6½ miles east of Charlotte.

4
5- Reference: Pardee and Park, 1948, p. 63.

22
1 Chapman mine

2 See Alexander mine, Mecklenburg County.

1 Charlotte mine

2 Type: Gold

3 Location: Mecklenburg County,

5- Gold, pyrite, and chalcopyrite were noted in the ore.

7 Reference: Genth and Kerr, 1881, p. 111.

1 Charlotte mine

2 See St. Catherine mine, Mecklenburg County.

1 Chatham mine

2 Type: Gold

3 Location: Chatham County, 3 to 4 miles east of Oxford.

5- Reference: Pardee and Park, 1948, p. 62.

1 ~~R. N.~~ ^{R. N.,} Chatham mine

2 Type: Gold

3 Location: ^SCurry County, near Elkin, on R. N. Chatham property.

5- A gold-bearing vein was traced for 500 or 600 feet.

8 Reference: Pratt, 1905, p. 15.

1 Cheek mine

2 Type: Copper

3 Location: Moore County,

4
5- Minerals found here include chalcopryrite, malachite, azurite,
6 galena, red jasper, epidote, talc, calcite, and argentite.

7
8 Reference: Genth and Kerr, 1881, p. 113.

1 Cherry mine

2 Type: Gold

3 Location: Lincoln County, 4 miles south of Denver.

4
5- A vein of white quartz carrying sulfides and gold occurred in
6 granite gneiss country rock. A shaft said to be 100 feet deep was open
7 to a depth of 20 feet in 1935, and an abandoned mill nearly^b on the
8 property of Miss Lizzie Young was said to have been idle for 40 years.

9
10- Reference: Pardee and Park, 1948, p. 76.

19
1 Cherry Gap mine

2 Type: Copper

3 Location: Jackson County, on the Gallowhee vein,

4
5-
6 Reference: Weed, 1911, p. 137.

1 Chestnut Hill vein

2 See Horton, J. C., shaft, Gaston County.

3
1 Chick mine

2 Type: Gold, copper

3 Location: Chatham County, 1 mile north of Deep River. —

4
5- Blue and green copper carbonates resulting from the alteration
6 of chalcocite stain the surface at the outcrop, giving an unjustified
7 appearance of richness to the ore. The ore carries gold and silver.
8 The mine had been very little explored in 1887.

9
10 Reference: Kerr and Hanna, 1888, p. 214.

14
1 Chinguepin mine

2 Type: Gold

3 Location: Mecklenburg County, 1/4 mile northwest of Charlotte.

4
5- Reference: Pardee and Park, 1948, p. 63.

Cid mine

1 Type: Copper, gold, silver

2 Location: Davidson County 1 1/4 miles northeast of the Emmons mine,
3 6 miles east of Silver Hill. —
4

5- This mine is thought to be on the same lead as the Emmons. The
6 ore was rich copper ore, chalcopyrite and bornite, with black oxide
7 and other surface alterations. The surface ore carried from 5 to 15
8 ounces of silver with a little gold. The country rock is varied slate,
9 suggesting andesite or fragmental tuff. The mine was worked before
10- 1882.
11

12 References: C. B. Brown, 1934, written communication;

13 Kerr and Hanna, 1888, p. 213-214;

14 Nitze and Hanna, 1896, p. 60-61;

15- Pardee and Park, 1948, p. 62;

16 Pogue, 1910, p. 117;

17 Pratt, 1907, p. 40.
18
19
20-
21
22
23
24
25-

1 Clark mine

2 Type: Gold

3 Location: Mecklenburg County, 2 1/2 miles west of Charlotte.

4
5- Gold, pyrite, and chalcopyrite were noted in two vein systems. The
6 northeast-southwest vein system was worked to a depth of 70 feet and
7 for a distance of 1,200 feet along the strike. The east-west vein was
8 worked to a depth of 78 feet. The ores were oxidized and carried values
9 in gold and silver.

10-
11 References: Bryson, 1936, p. 117;

12 Genth and Kerr, 1881, p. 111;

13 Kerr and Hanna, 1888, p. 292;

14 Nitze and Hanna, 1896, p. 132;

15- Pardee and Park, 1948, p. 63.

16
17
1 Clark, Gus, prospect

2 See Mauny, Fred, prospect, Gaston County.

Clegg mine

1 Type: Copper

2 Location: Chatham County,

3
4 The vein is quartz with chalcopryite~~s~~ and calcite in curved
5- plates enclosing masses of bituminous coal, in argillaceous^u and
6 quartzitic schists. Fine specimens of azurite were found. Genth
7 reported galena, cuprite, bornite, chrysocolla, pseudomalachite,
8 cerussite, and malachite. In 1887 there was a 200-foot shaft.
9

10- References: Genth and Kerr, 1881, p. 98;

11 Kerr and Hanna, 1888, p. 212.
12
13

Clegg mine

1 Type: Copper

2 Location: Lee County, off U.S. Highway 1, 0.3 miles "behind" the
3 Flat Creek Church in the northern part of the county and near
4 the Chatham County line.
5-

6 The mine and its dumps contain chrysocolla, malachite, azurite,
7 chalcopryite, pyrite, and chalc^coite. There is a possibility that
8 this may be the Clegg copper mine referred to by Genth and Kerr, 1881,
9 and Kerr and Hanna, 1888, at an unspecified location in Chatham County.
10-

11 Reference: Conley, 1958, p. 44.
12

Clegg mine

Type: Gold

Location: Moore County, 1/4 mile northwest of the Cagle mine, on the opposite (west) side of Cabin Creek, and 1 1/2 miles west of Hemp.

The character of the ore is similar to that at the Cagle mine, but the ore body is larger and of relatively lower grade. Gold is disseminated through a 12-foot wide siliceous zone in felsic tuff and sericite schist. The ore-body contains networks of small veinlets of quartz and is cross-cut by barren quartz veins. This was originally an open-cut mine. Two shafts sunk some time after 1900 are the 128-foot deep Gerhardt shaft, and another ^{unnamed shaft} ~~of~~ over 110 feet deep.

- References: Bryson, 1936, p. 68;
- Conley, 1962 a, p. 24;
- Kerr and Hanna, 1888, p. 245;
- Nitze and Hanna 1896, p. 56;
- Nitze and Wilkens, 1897, p. 57;
- Pardee and Park, 1948, p. 64.

Clemmer mine

Type: Gold

Location: Gaston County, 2 miles south of Stanley.

Reference: Pardee and Park, 1948, p. 62.

1 Cline (Cruse) mine

2 Type: Gold, Copper

3 Location: Cabarrus County, 3-1/2 miles north of Mount Pleasant.

4
5 The ore forms lenses from one to 3 feet thick in a vein striking
6 N. 35° W. in greenstone schist country rock. Chalcopyrite and pyrite
7 with gold occur in a quartz-siderite gangue which contains some
8 specularite. Traces of scheelite were detected in some of the rocks.
9 Chalcopyrite impregnates the country rock in some places up to a
10 distance of 7 feet from the vein. The mine was first worked for gold
11 in 1895. In 1901-1902 the mine was worked as a copper mine, and
12 2 to 3 carloads of high-grade copper-gold ore were produced. At that
13 time there were three shafts of depths of 35, 40, and either 140 or
14 240 feet. In 1936 the deep shaft was unwatered. At that time gold
15 values of \$2 to \$105 per ton, with an average of \$38, and 7% copper
16 were reported. The mine was examined by the U.S. Bureau of Mines in
17 1944 and in 1946, when four diamond-drill holes were put down. Results
18 of this drilling showed the vein to pinch at depth and to carry no
19 mineralization of economic importance.

20 References: Beck, 1946, 4 p.;

21 Bryson, 1937, p. 17-18;

22 Hickman, 1948, 5 p.;

23 Laney, 1910, p. 113;

24 Pardee and Park, 1948, p. 71;

25 Pratt, 1902, p. 24-25.

1 Coates mine

2 Type: Gold

3 Location: Cabarrus County, 4 miles northeast of Mount Pleasant.

4

5- Copper minerals and gold were found in a quartz vein in quartz
6 sericite schist derived from a coarse acid tuff. The mine was worked
7 in about 1898, when there was a 75-foot shaft.

8

9 References: C. B. Brown, 1934, written communication;

10- Pardee and Park, 1948, p. 62.

11

1 Coburn mine

2 Type: Gold

3 Location: Randolph County, 7 miles southwest of Asheboro. —

4

5- Reference: Pardee and Park, 1948, p. 64.

17

1 Coffin mine

2 See Deep River mine, Guilford County.

21

1 Coggins mine

2 See Appalachian mine, Montgomery County.

24

25-

1 Coggins prospect

2 Type: Copper

3 Location: Jackson County, about $\frac{1}{2}$ mile up a tributary of Dodgen Creek

4
5- No sulfides were found in hornblende gneiss country rock. There
6 was a 25-foot shaft.

7 Reference: G. H. Espenshade, 1944, written communication.

8
9
10
11 Coggins, Sallie, mine

12 Type: Gold

13 Location: Montgomery County, west of the ^{Appalachian or} Coggins mine.

14
15- Strangers and lenses of rusty quartz carrying sphalerite,
16 galena, and pyrite, occur parallel to the schistosity of the country
17 rock. The main opening is an open cut in a hillside about 75 feet
18 long and 30 feet wide. At the bottom under 35 feet of water is
19 a 60-foot shaft. About 150 feet northwest is a ledge known as the
20 "West Lead". In 1896 and 1897 a hydraulic plant and a 10-stamp
21 mill were operated here. Between 1906 and 1916 about 123.5 ounces
22 of gold were produced.

23
24 Reference: Pardee and Park, 1948, p. 82.

1 Cole farm prospect

2 Type: Tin

3 Location: Gaston County, about 1/5 mile south of the Ormond-Carr
4 prospect.

5-
6 Cassiterite occurs in greisen gangue in muscovite schist and
7 gneiss and hornblende gneiss country rock.

8
9 Reference: Kesler, 1942, table 18.

1 College Mine

2
3 Type: Copper

4 Location: Randolph County, 13 miles southwest of Greensboro on
5 a small stream.

6 Chalcopyrite, pyrite, and calcite occur in white
7 quartz veins.

8
9 Reference: Mining Magazine, v. 2, No. 2, p. 173, 198, 1854,
19

1 Colossus mine

2 See Howie mine, Union County.

1 Compact school, prospect 1,675 feet S. 60° E.

2 Type: Tin

3 Location: Cleveland County

4
5- Cassiterite occurs in greisen gangue in muscovite schist and
6 gneiss country rocks.

7
8 Reference: Kesler, 1942, table 18, plate 39.

9
1 Compact School, prospect 3,000 feet S. 64° E.

2 Type: Tin

3 Location: Cleveland County

4
5- Float pegmatite and grains of cassiterite, columbite, and
6 andalusite were found in soil residual from ~~cr~~ crystalline limestone.

7
8 Reference: Kesler, 1942, table 18; plate 39.

12
1 Compact School, prospect 3,025 feet S. 3° E.

2 Type: Tin

3 Location: Cleveland County

4
5- Cassiterite occurs in greisen gangue in muscovite schist and
6 gneiss country rocks.

7
8 Reference: Kesler, 1942, table 18; plate 39.

1 Condon (Main) shaft mine

2 Type: Tin

3 Location: Lincoln County, now part of the Ka-Mi-Tin mine.

4
5- Eight thin lenticular ore bodies carrying cassiterite in muscovite
6 schist or gneiss. Ore in greisen gangue was also seen in an opening
7 0.3 mile south of the Condon shaft.

8 The Condon shaft and the Main shaft may be the two shafts, 102-
9 and 40-feet deep, of the Main shaft mine, which has 1,319 feet of
10- under ground workings.

11
12 References: Kessler, 1942, table 18;

13 Pratt, 1907, p. 20-22.
14
15-
16
17
18
19
20-
21
22
23
24
25-

Conrad Hill (Dodge Hill) mine

Type: Gold, copper

Location: Davidson County, 6 miles southeast of Lexington, lat. 35°
 47° ^{N.} long. 80° 10° ^{W.}

The ores are auriferous pyrite and chalcopyrite in a gangue of quartz, hematite, and siderite. The country rock is chiefly a sericite schist derived from tuffs of the volcanic series. As many as 6 veins were described, of which 3 strike northeast about parallel with the foliation, and the others intersect the foliation at various angles. From the surface to a depth of 50 feet the ore consisted of quartz with brown iron oxides and was valuable for gold only. Chalcopyrite appeared at 50 feet, and at 100 feet chalcopyrite and ankerite had completely displaced iron oxides. Between 1832 and 1835 the eastern tract of the mine was worked by Roswell King and produced 37,190 dwt. of gold and about 50,000 ^{pounds} ~~lbs.~~ of copper. An area west of this was mined by Governor Morehead who produced between 80,000 and 295,000 dwt. of gold. After 1858 the mine was closed until 1880. At that time extensive developments were begun by J. P. McKee, who deepened the workings, opening one shaft to 400; and extracted much ore which was ^treated in milling and smelting plants built on the property. Operations ceased in 1884. ~~After 1884~~ the western tract of the mine was operated ^{again} in 1902, and in 1912. The mine was unwatered and operated briefly in 1936 by George Wearing. In 1943-1944 the U.S. Bureau of Mines sampled and mapped the mine. Much of the deposit

Conrad Hill (Dodge Hill) mine (con't)

1 is not developed below the oxidized zone. In 1934 there were large
2 dumps and an extensive area of large pits and shafts.

3
4 References: Ballard and Clayton, 1948;

5- Emmons, 1856, p. 141-154;

6 Kerr and Hanna, 1888, p. 268-274;

7 Nitze and Hanna, 1896, p. 68-74;

8 Pardee and Park, 1948, p. 72;

9 Pogue, 1910, p. 108;

10- Weed, 1900, p. 479

1 Conroy mine

2 See Davis Mountain mine, Randolph County (

14 Conyers mine

1 Type: Gold

2 Location: Nash County, 7 miles from Whitakers on Fishing Creek. —

3
4 In 1896 a 30-foot shaft had been sunk on an 18-inch quartz vein
5- carrying brown hematite and sulfide ore. Considerable placer material
6 was also worked.

7
8 References: Bryson, 1936, p. 62;

9 Nitze and Hanna, 1896, p. 27;

10- Pardee and Park, 1948, p. 64. •

Cope mine

Type: Gold

Location: Rowan County,

Reference: Genth and Kerr, 1881, p. 116.

Copper King mine

Type: Copper

Location: Person County, 3½ miles southwest of Virgilina. —

There is apparently no well-defined vein, and the ore occurs in an epidotized portion of the country rock in which more or less quartz has been deposited in irregular areas or masses and in lenses and stringers. The ore minerals are bornite, chalcocite, klaprothite, malachite, azurite, and cuprite, and are intimately associated with the gangue minerals epidote, quartz, calcite, chlorite, plagioclase, and hematite. In 1917 the mine belonged to J. H. Morong; it was developed by a 100-foot prospect shaft, and there were a few thousand ^u pounds of high-grade ore on a platform at the collar of the shaft.

Reference: Laney, 1917, p. 157-158.

Copper Knob mine

--see Gap Creek mine, Ashe County

1 Copper World mine

2 Type: Copper

3 Location: Person County, 1-1/4 miles southwest of the Gillis mine.

4
5- The mine is on the strike of the Gillis vein and is in green-
6 stone schist country rock. The ore is an intimate mixture of
7 bornite and chalcoc^cite with oxidized copper minerals near the
8 surface in a gangue of quartz, epidote, calcite, and chlorite.
9 The mine was first opened in 1882. In 1888 there were 2 shafts,
10- the North Shaft, 100 feet deep, and a flooded South Shaft. Around
11 1900 a 60-foot shaft with drifts at 30 and 60 feet was sunk by
12 Colonel Stiff, who owned the mine at that time. He shipped 8 to 10
13 tons of high-grade ore.
14

15- References: Kerr and Hanna, 1888, p. 219;

16 Laney, 1917, p. 158;

17 Weed, 1900, p. 463;

18 Weed, 1911, p. 83.
19

20 Copple mine

21 See Spencer mine, Randolph County(
22
23
24
25-

(Eustis)

Cornfield Property

Type: Copper

Location: Granville County, in the southeastern part of the
 Virgilina town site. \leftarrow

Three prospect shafts belonging to the William M. Pannebaker estate were opened in the 1890's, but were soon abandoned and were not reopened until 1915. The Cornfield No. 1 shaft/about 55 feet deep in Virgilina greenstone. In this shaft [were] chalcocite and bornite were found graphically intergrown, in a gangue of quartz, calcite, epidote, and chlorite. The Cornfield No. 2 shaft is located 400 feet east of No. 1 in the same type of rock, but the ore contained unusually large amounts of chalcopyrite and pyrite in addition to chalcocite and bornite, and minor azurite, malachite, klaprothite(?), argentite, native copper, and cuprite. The "Native shaft", in the southern part of town, is in an epidotized and silicified belt of the Virgilina Greenstone, rather than in definite fissure veins in the greenstone. The deposit is similar to Weed's Catoctin type of copper deposits, and contains native copper, cuprite, malachite, and azurite in a gangue of quartz and epidote.

References: Laney, 1917, p. 78, 153-155;

Weed, 1900, p. 463.
 1

1 Corpening mine

2 Type: Gold

3 Location: Caldwell County, near the Baker mine on John's River.

4

5-

6 Some prospecting and development work was done in 1911 by J. A. Dula
7 of Lenoir.

8

9 References: Kerr and Hanna, 1888, p. 308;

10-

Pratt, 1914, p. 19.

11

1 Cosby mine

2 See Crosby mine, Cabarrus County.

14

15-

1 Cotton mine

1

2 See Donaldson mine, Moore County.

2

18

19

20-

21

22

23

24

25-

Cotton Patch mine

Type: Gold

Location: Stanly County, 2 miles east of New London,

The ore occurs as free gold in a quartz vein approximately 18 inches wide in andesitic tuff, country rock. The gold nuggets are coarse, usually crystalline, and range in size from 1/16 inch to over 1/4 inch across. Placer mining was done before 1865. In 1958 a trench was bulldozed but sufficient reserves were not discovered. In 1961 the mine was reopened to the public for mineral specimen collecting.

Reference: Conley, 1962, p. 18.

Cotts, J. H., Mine

Type: Gold

Location: Randolph County,

Gold occurs in pockets or quartz stringers in weathered ^spericitic schist of a deep brownish-red color. In 1934 a line of shallow pits not over 10 feet deep was being put down [extending up] ^{on} a ^{hillside.} [fill]. There was a 3-stamp mill.

Reference: C. B. Brown, 1934, written communication.

County Home mine

1 See Jones mine, Randolph County. —

County Line mine

1 See Butler mine, Davie County. /

Jesse Cox mine

1 Type: Gold

2 Location: Anson County, 2 miles southeast of Wadesboro.

3 Quartz veins in slate are similar to the Hamilton mine nearby.

4

5- References: Bryson, 1936, p. 102;

6 Kerr and Hanna, 1888, p. 275;

7 Nitze and Hanna, 1896, p. 106;

8 Nitze and Wilkens, 1897, p. 57;

Craig-Davidson mine

1 See Caldwell mine, Mecklenburg County.

1 Crawford (Ingram) mine

2 Type: Gold

3 Location: Stanley County, 4 miles northeast of Albe~~r~~marle, on a
4 branch of Mountain Creek.

5-
6 The placer deposit lies in a stream valley 100 to 400 feet wide
7 on slate bedrock. It is composed of angular fragments of quartz^Z and
8 slate in a clayey matrix cemented with iron oxides, and is locally
9 called "grit". The deposit is 1½ to 2 feet thick in the center of
10- the valley and is overlain by 2 to 4 feet of waste alluvium. On the
11 hillside west of the placer deposit are several quartz veins, mostly
12 barren, but small amounts of gold have been taken from them. The
13 gold in the placer is coarse, the smallest particles being as large
14 as pinheads, and large nuggets, up to 10 lbs. in weight have been
15- found. No coarse gold was found in the veins.

16 The placer was discovered in August, 1892 on the W. S. Ingram
17 farm and was worked by tributors for 2 years. In 1894 the property
18 was bought by the Crawford Mining Company of New York. The methods
19 employed by that company in treating the ore are described by Nitze
20- and Wilkens.

- 2 References: Bryson, 1936, p. 82-83;
3 Nitze and Hanna, 1896, p. 82-83;
4 Nitze and Wilkens, 1897, p. 91-95;
5- Pardee and Park, 1948, p. 93.
6

1 Crayton mine

2 Type: Gold

3 Location: Cabarrus County, $2\frac{1}{2}$ miles north of Georgeville.

4
5- Gold and pyrite occur in veins and stringers of quartz and
6 calcite in a slaty rock of the volcanic series. The ore-bearing
7 lode is 2 to 6 feet wide, follows a fracture zone in the slate, and
8 is cut by low-angle faults dipping westward, with reverse or over-
9 thrust movements. The lode was discovered in about 1932 and was
10- explored in 1932, 1933, and 1934 by three shafts, the deepest of
11 which was 88 feet deep, with short levels driven at 30 feet and at
12 the bottom.

13
14 References: C. B. Brown, 1934, written communication;

15- Pardee and Park, 1948, p. 66.

16
1 Crosby (Cosby, Poplan) mine

2 Type: Gold

3 Location: Cabarrus County, one mile east of Allen, near the Mecklenburg
4 County line. —

5-
6 In 1934 two old shafts were seen on a quartz vein in greenstone.

7
8 References: C. B. Brown, 1934, written communication;

9 Pardee and Park, 1948, p. 62.

10-

1 Crosby mine

2 Type: Gold

3 Location: Mecklenburg County,

4
5- Gold and pyrite were noted in ore.

6
7 Reference: Genth and Kerr, 1881, p. 111.

8
9
1 Crosby No. 2 mine

2 Type: Gold

3 Location: Cabarrus County, 1½ miles north of Georgeville.

4
5- Gold occurred in quartz veins associated with greenstone country
6 rock. The mine was worked about 1867.

7
8 References: C. B. Brown, 1934, written communication;

9 Pardee and Park, 1948, p. 62.

1 Cross mine

2 Type: Gold

3 Location: Davidson County, 1 1/4 miles southwest of the Peters mine.

4
5- Oxidized ores carrying free-milling gold extended to a depth of
6 70 feet. Siderite, chalcopryrite, and pyrite were seen in the ore.
7 The mine was discovered before 1860 and was prospected from 1860 to
8 1865. A shaft was sunk to a depth of 50 feet, and was deepened to
9 75 feet in 1904.

10-
11 References: C. B. Brown, 1934, written communication;

12 Pogue, 1910, p. 113-115

13
1 Cross (Peysour) (Pasour) Mountain

2 Type: Cobalt

3 Location: Gaston County, 1 mile northeast of the Long Creek mine, near
4 the summit and descending the west slope of Cross Mountain.

5-
6 A bank of rock, about 15 feet wide, contains veins and seams of
7 asbolite or cobaltian wad mixed with limonite and quartz in talcose
8 schist country rock. A number of openings were made on the cobalt
9 seams in the 1850's, and a specimen from the west side of Cross
10 Mountain assayed 13.26 percent nickel and cobalt.

11
12 References: Pratt, 1907, p. 18;

13 Stuckey, 1965, p. 278-279;

14 Wurtz, 1859, p. 27.

1 Cross-Cut mine

2 Type: Copper

3 Location: Person County, one mile southwest of the main shaft at the
4 Durgy mine. —

5—
6 This is the cross-cut vein described under the Durgy mine. This
7 vein trends N. 30° W. cutting the schistosity of the ~~country~~ country rock which
8 is about N. 30° E.; hence the name Cross-cut vein. The vein was small and the
9 opening, a shaft 70 or 80 feet deep, was in the bed of a small stream,
10— so that little could be seen except malachite stains. Quartz veins a
11 short distance to the southwest and northwest show copper staining,
12

13 Reference: Laney, 1917, p. 143-144.
14

1 Crouse mine

2 See Oliver mine, Gaston County.
3
18
19
20—
21
22
23
24
25—

1 Crowder's Mountain (Caledonia) mine

2 Type: Gold

3 Location: Gaston County, 2 miles S. 60° E. of The Pinnacle, and
4 about 4 miles south east of the Kings Mountain mine.

5-
6 A mineralized zone 8 to 10 feet wide in quartzite and sericite
7 chlorite schist country rocks carries gold, pyrite, chalcopyrite,
8 argentiferous galena, sphalerite, pyrophyllite, barite, hematite,
9 and limonite. The mine was opened just after 1865, when two shafts
10- about 500 feet apart were put down. One of the shafts was reopened
11 in 1934 by J. N. Smith. Shallow pits 1,000 feet to the southwest
12 are on a gold-bearing zone in quartzite.

13
14 References: Bryson, 1936, p. 128-129;

15- Genth and Kerr, 1881, p. 102;

16 Kerr and Hanna, 1888, p. 306;

17 Nitze and Hanna, 1896, p. 147;

18 Pardee and Park, 1948, p. 74.
19
20-
21
22
23
24
25-

Crowell mine

Type: Gold

Location: Stanly County, 1½ miles northeast of New London near Bethel Church, on a tract crossed by Mountain Creek.

This mine is near the Parker mine and is similar in geology. The country rock is silicified chlorite and sericite schist containing finely disseminated pyrite. The lode is 4 to 7 feet wide with a narrow streak of ore and differs little from the country rock, as both are auriferous. At the north end of the property quartz stringers 3 or 4 inches in width often show gold in considerable quantity.

The mine was first worked for placer gold. A lode is said to have been discovered about 1887 and worked for several years by Thomas Jefferson Crowell, the ore being treated in Chilean mills and, at one time, in a 5-stamp mill. It was worked to a depth of 125 feet, and surface openings extend in a northwest direction for 230 feet. In the 1930's the property was operated by Mr. Cassidy, of Charleston, W. Va., but the ore was of low grade and difficult to treat. The recovery plant was dismantled and taken to the Haile mine in South Carolina.

References: C. B. Brown, 1934, written communication;

Bryson, 1936, p. 81-82;

Bryson, 1937, p. 20;

Kerr and Hanna, 1888, p. 259;

Nitze and Hanna, 1896, p. 84-85;

Nitze and Wilkens, 1897, p. 56;

Pardee and Park, 1948, p. 97.

1 Crowell (Bright Light) mine

2 Type: Gold

3 Location: Union County, about 14 miles (air line) north of Monroe,
4 in the extreme northwestern corner of the county.

5-
6 Three veins of cellular quartz carry galena, pyrite, and a
7 trace of chalcopyrite with gold and silver in sericitic phyllite
8 country rock. The mine was opened in 1882 and developed to a depth
9 of 80 feet. Some ore was produced and was treated in a 15-stamp
10- mill. Assays of the ore range from 0.157 to 2.067 ounces of gold
11 and \$0.32 to \$10.21 in silver per ton.

12
13 References: Brown, C. B., 1934, written communication;
14 Bryson, 1936, p. 91-92;
15- Kerr and Hanna, 1888, p. 263;
16 Nitze and Hanna, 1896, p. 94-95;
17 Pardee and Park, 1948, p. 103
18

1 Crowell's mine

2 Type: Gold

3 Location: Cabarrus County,
4

5- Gold, pyrite, and galena are reported.
6

7 Reference: Genth and Kerr, 1881, p. 96.

1
2
3
4
5-
6
7
8
9
1
2
3
4
5-
15-
16
17
18
19
20-
21
22
23
24
25-

Crump mine

Type: Gold

Location: Mecklenburg County.

Gold and pyrite were noted in ore.

Reference: Genth and Kerr, 1881, p. 111.

Crump mine

Type: Gold

Location: Montgomery County, 4 miles south of west of Ophir.

Reference: Pardee and Park, 1948, p. 63.

1 Crump mine

2 Type: Gold

3 Location: Union County, 2 1/2 miles southeast of the Stewart mine, in
4 Vance Township.

5-
6 Veins of quartz with disseminated pyrite carrying gold and silver
7 are found in a dense ^{uff} ~~type~~ country rock. The mine is noted for its
8 remarkable pockets, and "splendid and peculiar ^u ~~net~~gets", in which
9 nearly all the gold occurs. The mine was last worked about 1890. The
10- workings reached a depth of 120 feet and included 3 shafts and several
11 pits distributed along two parallel lines about 150 feet apart.

12
13 References: Brown, C. B., 1934, written communication;
14 Bryson, 1936, p. 93;
15- Nitze and Hanna, 1896, p. 98;
16 Pardee and Park, 1948, p. 103.

1 Cruse mine

2 See Cline mine, Cabarrus County.

1 Cullen's mine

2 Type: Copper, gold

3 Location: Cabarrus County,
4

5- Tetradymite, cuprite cubes, pseudomalachite, scheelite, azurite,
6 and malachite were noted.

7
8 References: Genth, 1891, p. 80;
9 Genth and Kerr, 1881, p. 95.

1 Cullowhee mine

2 Type: Copper

3 Location: Jackson County, near the crest of Cullowhee Mountain, about
4 $1\frac{1}{2}$ miles west of the Tuckasegee River and nearly 2,000 feet
5- above the river.

6
7 Chalcopyrite and pyrrhotite massive sulfide ore occur disseminated
8 in an orebody 200 to 400 feet long in muscovite schist and amphibolite
9 or hornblende gneiss. ~~(near the contact of Carolina Gneiss and the~~
10- ~~Ream Gneiss.)~~ Secondary copper minerals and gossan were found over-
11 lying the primary ore. Other openings made along the Cullowhee ore
12 zone in the 1860's were known as the Cambuco, Wolf County, Cherry
13 Gap, and Loudermilk mines. Little is known of these. Mining for
14 secondary copper ore was carried on in the 1860's, and again during
15- 1900 to 1910 when a small smelter was also operated. During 1929 and
16 1930 the mine was operated by the Tennessee Copper Company, and
17 4,500 tons of ore averaging 4% copper was shipped to Ducktown. The
18 mine was opened by an adit and a 177-foot shaft with levels at 50,
19 100, and 150 feet.

20-
21 References: G. H. Espenshade, 1944, written communication;
22 Kendall, 1953, p. 112-123;
23 A. R. Kinkel, 1957, written communication;
24 Ross, 1935, p. 89-90;
Stucky, 1965, p. 286;
25- Wee, 1911, p. 138-140.

Culp mine

See Little Fritz mine, Stanly County'

Curry mine

Type: Gold

Location: Montgomery County, 2 miles west of Candor. (

Reference: Pardee and Park, 1948, p. 63.

Dameron mine

Type: Gold

Location: Gaston County, 7 miles southeast of Gastonia.

Reference: Pardee and Park, 1948, p. 62.

Danelly's Creek mine

Type: Gold

Location: Chatham County.

The ore carried gold, pyrite, and chlorite.

Reference: Genth and Kerr, 1881, p. 99.

1 Dark Springs mine

2 Type: Gold

3 Location: Montgomery County,

4
5 Quartz stringers with calcite and pyrite were seen in a hard
6 siliceous tuff and interbedded porphy^y. The mine was worked about
7 1915 and 1916.

8
9 Reference: C. B. Brown, 1934, written communication.

10
1 Davidson mine

2 See Emmons mine, Davidson County

13
1 Davidson mine

2 Type: Gold

3 Location: Mecklenburg County, 2 miles west of Charlotte on the south
4 end of Davidson Hill, a ridge 1/2 mile long.

5
6 Gold and pyrite were noted in the ore. A quartz vein 3 to 4 feet
7 wide was worked to a depth of 80 feet in the 1880's. The ore was reputed
8 to be good.

9
10 References: Genth and Kerr, 1881, p. 11;

11 Kerr and Hanna, 1888, p. 286;

12 Nitze and Hanna, 1896, p. 126;

13 Pardee and Park, 1948, p. 63.

Davidson and Wilson mine

Type: Gold

Location: Rowan County, 8 to 10 miles east of Salisbury.

Reference: Kerr and Hanna, 1888, p. 282.

Davies mine

Type: Copper

Location: Jackson County.

Reference: Weed, 1911, p. 137.

Davis mine

Type: Gold

Location: Halifax County, near the Portis mine.

References: Bryson, 1936, p. 63;
Kerr and Hanna, 1888, p. 241;
Nitze and Hanna, 1896, p. 27;
Nitze and Wilkens, 1897, p. 43.

Davis mine

See Morris Mountain mine, Montgomery County

Davis mine

See Ophir mine, Montgomery County

1 Davis mine

2 Type: Gold

3 Location: Polk County, at Sandy Plains.

5- Reference: Genth and Kerr, 1881, p. 115.

1 Davis mine

2 Type: Gold

3 Location: Union County, about 3,000 feet northwest of the Moore Hill
4 mine, and in the same group of mines.

5-
6 The ores are described under the Moore Hill mine. The Davis
7 mine was opened before the Civil War and has been worked for a
8 length of 900 feet. In 1893 the "Road" shaft had been drilled to
9 a depth of 150 feet. In 1906 to 1908 the mine was operated by the
10- Winona Mining Corp. under R. L. Welch. The mine was last worked
11 in 1919. At that time the various openings were known as the "New"
12 shaft, 195 feet deep; "Norcutt" shaft, 50 feet deep; "Old Dill" shaft,
13 66 feet deep; "Old Hickory" shaft; "New Hickory" shaft, 95 feet deep;
14 and "Paxton" shaft, 40 feet deep.

15-
16 References: Brown, C. B., 1934, written communication;

17 Bryson, 1936, p. 95-96;

18 Kerr and Hanna, 1888, p. 262-263;

19 Nitze and Hanna, 1896, p. 100-102;

20- Purdee and Park, 1943, p. 101-102.

Davis Mountain (Dorr's Hill, McAllister, Conroy) mine

Type: Gold

Location: Randolph County, 3½ to 4 miles west to southwest of
Asheboro.

The country rock is altered andesitic tuff intersected by auriferous quartz stringers and a mineralized shear zone. Saprolite covers much of the area. The Davis Hill and McAllister workings are at the base of the hill near the stream and consist of a shaft and tunnel. The main operations, the Davis Mountain or Conroy, consisted of hydraulic and sluicing operations on the hillside. Pits and trenches in saprolite extend for more than 1 mile.

References: C. B. Brown, 1934, written communication;

Nitze and Hanna, 1896, p. 59;

Nitze and Wilkens 1897, p. 47;

Pardee and Park, 1948, p. 64;

Pratt, 1907, p. 45

1 Deep Flat mine

2 Type: Gold

3 Location: Montgomery County, on the west flank of the ^{w r}Uharie
 4 Mountains.

5-
 6 This was a placer mine in gravel underlying saprolite. Mining
 7 was hindered by the scarcity of water and the tenacious nature of
 8 the saprolite.

9
 10- References: Bryson, 1936, p. 78;

11 Kerr and Hanna, 1888, p. 248;

12 Nitze and Hanna, 1896, p. 80;

13 Nitze and Wilkens, 1897, p. 52;

14 Pardee and Park, 1948, p. 63.

15-
 1 Deep Gap mine

2 --see Gap Creek mine, Ashe County

3
 19
 20-
 21
 22
 23
 24
 25-

Deep River, (Coffin) mine

Type: Gold, copper

Location: Guilford County, 2 miles south of the Lindsay mine, (4 miles northeast of High Point or) 2 miles east of High Point.

Micaceous
 A quartz vein carrying auriferous pyrite and chalcopyrite in micaceous schist or granite country rock varied in thickness from 18 inches to 12 feet. It yielded \$5 to \$6 per ton in gold and 2 to 3 percent copper. The mine was operated as the Coffin mine in 1853 by the Potomac Copper Company. Nothing is known of the mine until 1905, when it was abandoned by the Coronora Mining Company and bought at sheriff's sale by Johnson H. Redding of High Point. Mr. J. A. Allred was the foreman. The main shaft was 200 feet deep with considerable drifting, and ^{there were} 3 other shallow shafts.

References: C. B. Brown, 1934, written communication;

Kerr and Hanna, 1888, p. 278;

Mining Magazine, 1853, ^{1st ser.} v. 1, no. 4, p. 522;

Nitze and Hanna, 1896, p. 115;

Pardee and Park, 1948, p. 62;

Pratt, 1907, p. 37-38.

Defender

See Stackhouse mine, Madison County.

1 Delft (Delph, Delk, Lytton, Empire, Miller, Brown Hill) mine

2 Type: Gold

3 Location: Randolph County, 2-1/2 miles northwest of Jackson Creek,
4 near the Lafflin mine. Genth and Kerr locate the Delk mine across
5-- the line in Davidson County.

6
7 This mine is similar to the Lafflin and Jones-Keystone mines. Gold
8 occurs in decomposed iron-stained schist. Pyrite, hematite, and
9 limonite were also noted in the ore. The mine was operated in the
10-- 1850's and also in 1933-1934.

11
12 References: C. B. Brown, 1934, written communication;

13 Emmons, 1856, p. 132;

14 Genth and Kerr, 1881, p. 101;

15-- Kerr and Hanna, 1888, p. 254;

16 Nitze and Hanna, 1896, p. 59;

17 Nitze and Wilkens, 1897, p. 47;

18 Pardee and Park, 1948, p. 64.

19
20
21 Denton mine

22 Type: Gold

23 Location: Davidson County,

24
25 Exploration was done by Roland F. Beers in 1958 under a DMEA
26-- contract for copper, lead, and zinc.

27 Reference: Stucky^e and Conrad, 1961, p. 6, 7.
28

1 Derr mine

2 Type: Gold

3 Location: Gaston County, 17 miles west of Charlotte and 2 miles east
4 of Stanley.

5-
6 References: Nitze and Hanna, 1896, p. 148;
7 Nitze and Wilkens, 1897, p. 66;
8 Pardee and Park, 1948, p. 62.

9
1 Dixie Queen (Newell) mine

2 Type: Gold, copper

3 Location: Cabarrus County, 2 miles northeast of Pioneer Mills, and
4 3 miles south of Rocky River. —

5-
6 A two-foot quartz vein in a creek bottom in granite and chloritic
7 country rock carried gold, calcite, chalcopryrite, and pyrite. The
8 mine was first operated about 1895 to 1900, when 2 shafts were put
9 down. It was chiefly a copper mine, but produced a little gold. It
10- was operated in 1923 by a Mr. Chappell, who is reported to have taken
11 out two carloads of high-grade ore. The mine was again active during
12 World War II, and in 1943 Terry and Knowlton shipped one carload of
13 3% copper ore containing gold and silver.

14
15- References: C. B. Brown, 1934, written communication;
16 Murdock, 1950, p. 8;
17 Pardee and Park, 1948, p. 71.

1 Dixon mine

2 Type: Gold

3 Location: Yadkin County, 8 miles southeast of Yadkinville.

4
5-
6 Gold-bearing sugary quartz veins occur in mica schist intersected
7 in places by diabase dikes. The veins form lenticular bodies and
8 stringers and contain pyrite and chalcopyrite at depth.

9 The mine was discovered in 1894 or 1895 and was developed through
10 a 40-foot vertical shaft with 140 feet of drifts to the northeast and
11 southwest. Work was continued for a short time only, but 100 tons of
12 ore taken out had a reported value of \$5 per ton. The mine was reopened
13 in 1913-14, a stamp mill and cyanide plant were erected, and work was
14 continued for about two years, in conjunction with the neighboring

15- Gross mine.

16
17 References: Bryson, 1936, p. 131-132;

18 Nitze and Hanna, 1896, p. 151;

19 Nitze and Wilkens, 1897, p. 68;

20- Pardee and Park, 1948, p. 104.

1 Dixon's mine

2 Type: Gold

3 Location: Alamance County, on both sides of the Haw River.

4
5- was found
6 Gold in placers.

1 Dixon School prospect

2 Type: Tin

3 Location: Cleveland County, 3,550 feet from Highway 29 along Dixon
4 School road, and 215 feet to the west.

5-
6 Cassiterite occurs in greisen and feldspathic gangue in
7 spodumene pegmatite in muscovite schist and gneiss and hornblende
8 gneiss.

9
10- Reference: Kesler, 1942, table 18; plate 39.

11
1 Dobson (Dodson's, Cedar Cove) mine

2 Type: Lead

3 Location: McDowell County, at Cedar Cove,

4
5- Sphalerite, and calcite both granular and compact, were noted
6 in the ore.

7
8 References: Genth and Kerr, 1881, p. 110;

9 Kerr and Hanna, 1888, p. 202.

21
22
1 Dodge Hill mine

2 See Conrad Hill mine, Davidson County. —

1 Donaldson (Cotton) mine

2 Type: Gold

3 Location: Moore County, 4 miles northeast of Carter, and 0.4 mile
4 southeast of the Ritter mine.

5- Gold occurs in a quartz vein 8 inches wide and disseminated in
6 highly sheared felsic lithic-crystal tuff. The vein contains pink
7 orthoclase phenocrysts and azurite and malachite stains. This mine
8 was worked as a placer in the 1850's and early 1860's. Later a
9 60-foot shaft was put down.
10-

11 References: Conley, 1962 a, p. 26-27;

12 Pardee and Park, 1948, p. 64.
13
14

1 Donnell mine

2 See Heath mine, Guilford County.
3
18

1 Dorr's Hill mine

2 See Davis Mountain mine, Randolph County
21
22
23
24
25-

1 Double Branch mine

2 Type: Gold

3 Location: Polk County, 9 miles southeast of Landrom. South Mountain
4 area.

5
6 Narrow quartz veins carrying pyrite with gold and silver were
7 developed in 1910 by five shafts. One 10-stamp mill and one 3-stamp
8 mill were erected.

9
10 References: Bryson, 1936, p. 142-143;

11 Nitze and Hanna, 1896, p. 174;

12 Pratt and Berry, 1919, p. 25;

13 U.S.G.S. Mineral Resources, 1910, p. 686;
14

1 Dowd (Rush) mine

2 Type: Gold

3 Location: Randolph County, 8 miles southwest of Asheboro.

4
5 In 1934 white gritty saprolite carrying fine gold was seen
6 overlying porphyritic rhyolite, flow breccia, and tuff. No quartz
7 seams were noted. Numerous caved shafts and pits were seen
8 extending over a considerable area. The mine was worked around 1850,
9 and again around 1930.

10 References: C. B. Brown, 1934, written communication;

11 Pardee and Park, 1948, p. 64.
12

Drexler mine

See Tuxler mine, Rowan County ———— (

Dry Hollow mine

Type: Gold

Location: Montgomery County, on the western flank of the ^wU^rhar^rie
Mountains, 3 miles east of Troy, at the Carter mine. (

This was a placer mine which lay along the outcrop of the vein at the Carter mine. Small tracts were leased in the hollow to miners and a royalty paid on the gold won. Lack of water prevented ^{ys}systematic work. About \$250,000 ^{in gold} was produced.

References: C. B. Brown, 1934, written communication;
Bryson, 1936, p. 78;
Kerr and Hanna, 1888, p. 248;
Nitze and Hanna, 1896, p. 80;
Nitze and Wilkens, 1897, p. 52;
Pardee and Park, 1948, p. 63;
Pratt, 1914, p. 45.

Dry Hollow and Jenkins (Jenkins) mines

Type: Gold

Location: Moore County, 2 miles south of Hemp; 2 1/4 miles southwest of Robbins; 1,300 feet southwest of and along a small stream south of the Standard Mineral Company's pyrophyllite mine.

The Jenkins orebody is in silicified felsic tuff. It was first opened before 1865 and was worked intermittently until 1890. In 1912 an attempt was made by Charlie and Paul Gerhardt to reopen the mine. There were 2 shafts, one 85 feet deep.

Mr. Ashley Paris found a 3 ounce gold nugget in the stream some time before 1896. For some years afterward it was mined occasionally as the Dry Hollow placer mine. The mine site is now covered by pyrophyllite mine dumps.

References: Conley, 1962a, p. 26;
Pardee and Park, 1948, p. 64.

Dudley mine

Type: Gold

Location: Mecklenburg County, 7 1/2 miles west of Charlotte.

Reference: Pardee and Park, 1948, p. 63.

1 Duffie mine

2 Type: Gold

3 Location: Gaston County, 6 miles northeast of Gastonia and 16
4 miles west of Charlotte.

5-
6 Gold occurs with pyrite and chalcopyrite in a quartz vein 2 to
7 10 feet wide. At a depth of 110 feet a large body of low-grade
8 sulfide ore was found. The vein has been worked to a depth of 110
9 feet.

10-
11 References: Bryson, 1936, p. 129;
12 Genth and Kerr, 1881, p. 102;
13 Kerr and Hanna, 1888, p. 303-304;
14 Nitze and Hanna, 1896, p. 148;
15- Nitze and Wilkens, 1897, p. 66;
16 Pardee and Park, 1948, p. 62.
17
18
19
20-
21
22
23
24
25-

1 Duke (Tingen) mine

2 Type: Copper.

3 Location: Person County, the southernmost mine of the Virgilina
4 district, about 15 miles southwest of Virgilina. →

5--
6 At least two copper-bearing quartz veins which generally
7 follow the schistosity of the epidotized greenstone schist country
8 rock were discovered. They carried bornite, chalcocite, malachite,
9 azurite, with a little cuprite and chalcopyrite in a gangue of
10-- quartz, epidote, calcite, chlorite, and hematite. During the late
11 1890's these veins were explored by the Hicks shaft, about 280
12 feet deep, with drifts at the 100-foot and 267-foot levels, and
13 the No. 3 shaft, 225 feet deep with a level at 100 feet. In 1917
14 the property belonged to Mr. Brodie Duke, of Durham, N.C.

15--
16 Reference: Laney, 1917, p. 140-141.

1 Dulin mine

2 Type: Gold

3 Location: Union County, $3\frac{1}{2}$ miles northeast of Indian Trail.

4
5-- Reference: Pardee and Park, 1948, p. 65.

23
1 Dunlop (Mole Hill) mine

2 Type: Gold

3 Location: Mecklenburg County, 8 miles northwest of Charlotte. —

4
5-- Reference: Pardee and Park, 1948, p. 63.

1 Dunn mine

2 Type: Gold

3 Location: Mecklenburg County, 9 miles northwest of Charlotte, 2
4 miles northwest of the Alexander mine, toward Rozzel's Ferry,
5-- on the west side of Long Creek. —

6
7 Quartz veins carrying pyrite and auriferous chalcopyrite occur
8 in rocks of the slate belt. Above a depth of 20 feet the ore was
9 oxidized. The mine was noted for beautiful scales and plates of
10-- specular iron imbedded in masses of limonite. The Dunn mine was the
11 first mine discovered in Mecklenburg County, not long after the
12 finding of gold nuggets at the Reed mine in Cabarrus County in 1799.
13 The ore body was mined to a depth of 20 feet through the East vein
14 and the Main vein. The underground work consisted of a 60-foot and
15-- a 90-foot shaft connected at the 60-foot level and cutting 3 or 4, parallel
16 ore bodies. In the 1880's a 10-stamp mill was operated at the mine.
17 In the early years of its history the ore in the East vein was too
18 refractory to be treated by the methods then in use, and was considered
19 to be "no account" as a gold mine, although it was rich in copper.

20--
21 References: Bryson, 1936, p. 123-124; Emmons, 1856, p. 177;
22 Emmons, 1861, p. 31;
23 Kerr and Hanna, 1888, p. 210; 298-300;
24 Nitze and Hanna, 1896, p. 140-141;
25-- Pardee and Park, 1948, p. 63.

1 Dunns Mt. mine

2 Type: Gold

3 Location: Rowan County, 3-1/2 miles east of Salisbury, 1-1/2 miles
4 north of Granite Quarry, and 1/3 mile northwest of Dunns Mountain.)

5--
6 Dark gray pyrite-impregnated dioritic rock and pink gneissoid
7 granite were seen on the dump. The country rock is gneissoid granite,
8 cut by a diorite dike. Three quartz veins are heavily impregnated
9 with pyrite and chalcopyrite. There were two shafts, one 190 feet deep,
10 and the other, the Office vein, about 140 feet deep.

11
12 References: Brown, C. B., 1934, written communication;
13 Genth and Kerr, 1881, p. 116;
14 Kerr and Hanna, 1888, p. 281;
15 Nitze and Hanna, 1896, p. 117-118.

16
1 Dunn, W.L., mine

2 Type: Gold


3 Location: Mecklenburg County, 7 miles west of north of Charlotte. —

4
5-- A quartz vein 6 to 8 inches wide carrying limonite and manganese
6 ⁱⁿstems is in sheared granite country rock. The vein was mined in
7 1933 by the Stark Gold Mining Corp. ^{In 1934} The dump contained 3 to 4 tons
8 of ore said to assay \$15 per ton.

9
10-- References: Bryson, 1937, p. 16, 27;
11 J.T. Pardee, 1934, written communication;
12 Pardee and Park, 1948, p. 63.

1 Durgy (Person Consolidated, Yancey) mine

2 Type: Copper

3 Location: Person County, $7\frac{1}{2}$ miles southwest of Virgilina. The
4 mine can be reached by taking the paved road northeast from
5- Allensville crossroads for 0.3 mile. Turn north on a second-
6 dary road for approximately 1 mile. The mine lies west of
7 the road at this point, between the road and Maho Creek. 

8
9 Four or more veins, including the Durgy, Cross Cut, and Main
10- veins, outcrop in tu^ffaceous Virgilina greenstone and have been
11 traced by surface debris for nearly one mile. The main vein, on
12 which the only work of importance has been done, is 6 to 18 feet
13 wide; in it the ore occurs in definite ore shoots, but the vein is
14 never barren. The ore minerals are bornite, chalco^crite, malachite,
15- azurite, cuprite, argentite (?), chalcop^yrite, ~~laprothite~~, and
16 gold, in a gangue of quartz, epidote, chlorite, calcite, and hematite.
17 In the ore silver occurs in the proportion of 0.8 to 1 ounce to 2
18 percent of copper and is intimately associated with the copper-
19 bearing minerals.

1 Copper was discovered by Theron Yancey and was mined by him in 1892,
2 when the mine was known as the Yancey mine. In 1899 or 1900 it was
3 purchased by the Person Consolidated Copper and Gold Mines Company and
4 was operated until 1908. This company built a 100-ton concentrating
5-- plant which was not successful. In 1910 and 1911 the Tennessee Copper
6 Company operated the mine. It was opened again in 1916 or 1917. This
7 mine was more extensively developed underground than any other mine in
8 the Virgilina district, with 2 shafts, 410 feet and 160 feet deep, and
9 more than 4,000 feet of drifts. In 1942 the mine was owned by the
10-- Virginia Rock and Minerals Company. In 1942 and 1943 the U.S. Bureau
11 of Mines reopened the shaft and conducted a program of bulldozer
12 trenching, diamond drilling, and geophysical surveying of the mine. In
13 1953 and 1954, Nipissing Mines, Ltd., carried out an exploration program
14 for copper ore at this and other mines in the Virgilina district. A
15-- large tonnage of 2 percent copper ore in veins less than 4 feet wide
16 was indicated by exploratory drilling. The ore indicated was not con-
17 sidered commercial and no attempt was made to mine it. The production
18 of the Durgy mine has been approximately 70,000 tons of 2 percent
19 copper ore.

20 References: Conley, 1958, p. 62;
21 Kerr and Hanna, 1888, p. 219-221;
22 Laney, 1917, p. 130-139;
23 Newberry and others, 1948, p. 8-10;
24 Stuckey, 1965, p. 289;
25 Weed, 1900, p. 461-463; 1911, p. 81-82.

Durgy prospects

1
2
3
4
5-
6
7
8
9
10
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25-

Type: Gold

Location: Person County, 4 miles southwest of Virgilina. —

A gold prospect is shown on Laney's map.

Reference: Laney, 1917, map.

Durham mine

Type: Gold

Location: Cleveland County, 1-1/4 miles south of Stepps Gap..

Reference: Keith and Sterrett, 1931, p. 9.

1 Dutch Creek Mines

2 Type: Gold

3 Location: Rowan County, 10 miles southeast of Salisbury, and
4 just east of Dutch Second Creek. ← (

5-
6 The property contains a network of some 20 quartz
7 veins, among which the more prominent are the Katie,
8 Hill, Tip-top, and Spring. The veins carry gold,
9 pyrite, chalcopyrite, and ⁱsericite in a quartz gangue
10- in siliceous granite country rock, which is sheared
11 and converted to quartz-sericite schist near the
12 veins. Above water level the ores were oxidized, the
13 underlying primary sulfide ores were refractory and
14 had a gold content of \$10.00 per ton and upward.
15- The prospects belonged to Mr. A. H. Graf of Salisbury.
16 They were worked between 1883 and 1895. In about
17 1907 one old shaft was reopened by Mr. Gray^f. The
18 operations were confined largely to oxidized ore.
19

20- References: Kerr and Hanna, 1888, p. 283;
21 Laney, 1910, p. 113-114;
22 Nitze and Hanna, 1896, p. 120;
23 Nitze and Wilkens, 1897, p. 60;
24 Pardee and Park, 1948, p. 92.
25-

1 Dutchman's Creek mine

2 Type: Gold

3 Location: Montgomery County, on the west flank of the ^W ^r Ucharie
4 Mountains, along Dutchman's Creek, *about 1 mile east of the*
5 *Pee Dee River.*

6 This was a placer mine in gravel underlying saprolite. Mining
7 was hindered by the scarcity of water and the tenacious nature of
8 the saprolite.

- 9
- 10- References: Bryson, 1936, p. 78;
- 11 Conley, 1962, p. 18; *map*;
- 12 Kerr and Hanna, 1888, p. 248;
- 13 Nitze and Hanna, 1896, p. 80;
- 14 Nitze and Wilkens, 1897, p. 52;
- 15- Pardee and Park, 1948, p. 63.

16

17 Dutton mine

1 See Morris Mountain mine, Montgomery County

1 East Hill mine

2 Type: Gold

3 Location: Union County, about $4\frac{1}{2}$ miles southwest of Indian Trail and
4 northeast of the Lewis mine, in the Moore Hill group of mines.

5-
6 The ores are described under the Moore Hill mine. Sericitic
7 quartz schist is cut by poorly mineralized bull quartz seams. A deep,
8 narrow open cut is near the north end of East Hill.

9
10- References: Brown, C. B., 1934, written communication;
11 Nitze and Hanna, 1896, p. 103;
12 Pardee and Park, 1948, p. 101-102.

1 Eddleman (Berry, Holland) mine

2 Type: Gold

3 Location: Gaston County, $4\frac{1}{2}$ miles southeast of Gastonia.

4
5- Reference: Pardee and Park, 1948, p. 62.

19
1 Eldorado mine

2 Type: Copper, zinc

3 Location: Montgomery County, 1 1/2 miles south of the Coggins mine
4 and east of the village of Eldorado.

5-
6 The minerals azurite, malachite, hydrozincite, and sphalerite
7 were noted.

8 Reference: Conley, 1958, p. 60.

1 Elise (Elsie) mine

2 Type: Gold

3 Location: Moore County, near Hemp.

4
5- References: Bry^swon, 1930, p. 18;

6 Pardee and Park, 1948, p. 64.

7

8

9

10-

11

12

13

14

15-

16

17

18

19

20-

21

22

23

24

25-

1 Elk Knob mine

2 Type: Copper

3 Location: Wata^uuga County, on the north side of Elk Knob, above 1,500
4 feet below the summit, and on the west side of Elk Knob Branch.

5- Another opening on the south side of Elk Knob at 4,000 feet in the
6 bed of a stream tributary to Meat Camp Creek was also noted. A
7 prospect in a direct line with these at the southern base of Elk
8 Knob may be the Miller mine, and an unnamed prospect a little
9 farther south, with a 100-foot tunnel, is also in a direct line
10- with the other three.

11
12 The deposits occur in a shear zone 5 to 6 feet wide in hornblende
13 gneiss country rock, ~~of the Roan Formation~~. The ore consists of hard
14 altered greenstone interlayered with pyrite, pyrrhotite, chalcopyrite,
15- and a small amount of sphalerite. Gangue minerals are mainly hornblende,
16 anthophyllite, and actinolite.

17 The mine was opened about 1875 by Bock and Zeⁿ of Milwaukee, Wis.,
18 who worked the deposit for 4 or 5 years and shipped several carloads
19 of high grade copper ore carrying some gold. At that time the workings
20- consisted of 4 shafts, 45, 20, 24, and 175 feet deep, and 3 drifts, 100,
21 140, and 50 feet long. In 1939 the workings were cleaned out and 8 holes
22 were drilled by Wills (Wells) and Nave of the Carolina Copper Corp.,
23 Mountain City, Tenn. They worked the mine for about 6 months and shipped
24 one carload of ore which carried about 1.5 percent copper. The property
25- was owned by Virginia Rock and Minerals Corp. in 1942.

1
2
3
4
5-
6
7
1
2
3
4
5-
6
7
8
9
10-
18
19
20-
21
22
23
24
25-

References: G. H. Espenshade, 1943, written communication;
Keith, 1903, p. 8;
Kerr and Hanna, 1888, p. 224;
Ross, 1935, p. 87;
Stucky, 1965, p. 285-286;
Tennessee Valley Authority, 1942, written communication;
Weed, 1911, p. 134-136.

Ellington (Blair, Hard Hill) mine

Type: Gold

Location: Mecklenburg County, east of Mungo's store, 11 miles south
of east of Charlotte. The middle portion of the vein is known
as the Blair, and the southwestern portion as the Hard Hill vein.

One of a group of quartz veins, northeast-southwest trending.

References: Nitze and Hanna, 1896, p. 144; Pardee
and Park, 1948, p. 63.

1 Elliotte Brothers prospects.

2 Type: Gold

3 Location: Mecklenburg County, 5 miles south of Charlotte.

4
5-
6 Auriferous chalcopyrite ^{was} [has been] found in several veins on the
7 farm of the Elliotte brothers. Five of the veins are grouped in a
8 space of $\frac{1}{2}$ mile, and they range from 3 to 6 feet in thickness and
9 carry quartz, brown ore, and sulfides.

10-
11 References: Kerr and Hanna, 1888, p. 303;

12 Nitze and Hanna, 1896, p. 145.

13
1 Ellsworth mine

2 Type: Gold

3 Location: Cabarrus County, $1\frac{1}{2}$ miles north of Georgeville, and
4 continuous with the Crosby No. 2 mine.

5-
6 Gold occurs in ^a quartz vein. The vein was worked after the Civil
7 War by the Cabarrus Mining and Milling Co. Numerous prospect pits
8 and trenches were seen in 1934.

9
10- References: C. B. Brown, 1934, written communication;

11 Pardee and Park, 1948, p. 62.

1 Ellwood (Elwood) mine

2 Type: Gold

3 Location: Rutherford County, 3 miles N. 20°E. from Rutherfordton and
4 1½ miles southwest from the Alta mine, on the waters of Cathey
5- Creek.

6
7 Five parallel quartz veins, 10 to 15 inches thick and carrying
8 gold, pyrite, and chalcopryrite occur in gneissic country rock. The
9 ore ray^v from \$5 to \$7 per ton, and \$20 per ton for sulfide-bearing
10- ore. The mine was opened in 1842 and was last operated in 1983.

11
12 References: Bryson, 1936, p. 142;

13 Nitze and Hanna, 1896, p. 170.

14
15-
1 Elwood mine

2 See Orchard mine, Cabarrus County. —

3
1 Elwood mine

2 See Hunter, John P., mine, Mecklenburg County. —

3
22
23
24
25-

1 Emmons (Davidson, Hercules) mine

2 Type: Copper, gold

3 Location: Davidson County, 15 miles southeast of Lexington and
4 1 mile south of the Cid mine. (

5-
6 Chalcopyrite with galena, sphalerite, and auriferous pyrite occurs
7 in quartz gangue or in narrow stringers in chloritic schist^oase slate
8 country rock of the volcanic series. Other gangue minerals are
9 siderite, chlorite, calcite, and ankerite. Chlorite tends to ac-
10- company barren quartz. The mine was discovered before 1861 but was
11 closed during the Civil War. After the war the mine was reopened
12 and worked for several years by a Baltimore company which success-
13 fully treated the ore by the Hunt and Douglas process. The mine was
14 worked again in 1885-86 and 1902-04, and the workings consisted of
15- two shafts, the deeper of which was 416 feet deep on the incline with
16 levels at 200, 280, 350, and 410 feet. The ore is said to have
17 assayed ^{to} 3+4% percent copper. In 1934 it was estimated that there ^{were} ~~was~~ 6,400
18 tons of ore on the dumps containing about 150 tons of mineralized
19 rock. The production of the mine is said to have been over \$100,000,
20- chiefly in copper, with some gold and silver.

21
22 References: C. B. Brown, 1934, written communication;
23 Kerr and Hanna, 1888, p. 213;
24 Nitze and Hanna, 1896, p. 60;
Parde^e and Park, 1948, p. 73;
Pogue, 1910, p. 115-117;
25- Shuckey, 1965, p. 292-293.

1 Empire mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles east of Charlotte.

4
5- Reference: Pardee and Park, 1948, p. 63.

6
1 Empire mine

2 See Delft mine, Randolph County —

10-
1 England mine

2 Type: Gold

3 Location: Catawba County, east of Newton,

4
5- The mine was worked in 1895.

6
7 Reference: Nitze and Hanna, 1896, p. 150.

18
1 Engle prospect

2 Type: Copper

3 Location: Person County, one mile northeast of the Gillis mine. ✕

4
5- Copper-stained quartz, chalcocite, and bornite occur in a well-
6 defined, narrow quartz vein in Virgilina Greenstone. Shallow pits and
7 shafts did not develop anything of commercial value.

8
9 Reference: Laney, 1917, p. 156.

1 Eudy mine

2 Type: Gold

3 Location: Guilford County, near Jamestown;

4
5- References: Nitze and Hanna, 1896, p. 116;

6 Pardee and Park, 1948, p. 62.

7
1 Eudy mine

2 Type: Gold

3 Location: Stanly County, 8 miles west of Albemarle, 1½ mile north-
4 east of Lambert, and ½ mile west of Big Bear Creek.

5-
6 Two small quartz veins in slate carried gold but no sulfide
7 minerals. The mine was worked in a small way ^{from} about 1895 to 1905.
8 In 1932 some prospecting was done by Sidney Vaughn and K. W. Uhe.
9 The workings included shallow pits and cuts and shafts 30 and 35 feet
10- deep.

11
12 References: C. B. Brown, 1934, written communication;

13 Pardee and Park, 1948, p. 97.

Eureka mine

Type: Gold

Location: Davidson County, 1/2 mile west of the Lalor mine.

This mine is similar to the Lalor mine; the ore carried gold and silver. The mine was penetrated to a depth of 125 feet.

References: Kerr and Hanna, 1888, p. 279;

Nitze and Hanna, 1896, p. 117.

Eury (Wade) mine

Type: Gold

Location: Montgomery County, 4 miles north of Troy.

Gold was confined to a 2-inch streak on the hanging wall side of a 2-foot-wide quartz vein in siliceous⁷¹ slate. During the years 1929 to 1936 a 40-foot shaft was sunk at this mine.

Reference: Bryson, 1937, p. 24.

Eustis property

see Cornfield property, Granville County

Everett mine

See Hazel Creek mine, Swain County.

1 Faggart mine

2 Type: Gold

3 Location: Cabarrus County, 3 miles northeast of the Phoenix mine and
4 5 miles southeast of Concord. On the same mining track^t as the
5- Snyder mine. —

6
7 Pyrite and specular hematite were seen in 1934 in an 18 inch wide
8 auriferous quartz fissure vein in pink granite country rock. The
9 mine was opened by a shaft 100 feet deep with a 50-foot drift. In 1936
10- the shaft was cleaned out, and some ^ddrift work was done; ~~and~~ any ore
11 produced was to have been milled at a stamp mill erected at the
12 Snyder mine.

13
14 References: C. B. Brown, 1934, written communication;
15- Bryson, 1937, p. 17;
16 Nitze and Hanna, 1896, p. 123;
17 Nitze and Wilkens, 1897, p. 62;
18 Pardee and Park, 1948, p. 62.

19
20-
1 Fag Hill mine

2 See Fox Hill mine, Union County.

1 Faires mine

2 Type: Tin

3 Location: Cleveland County, 1/4 mile southwest of the Falls prospect,
4 about 1 mile southwest of the town of Kings Mountain.

5-
6 Cassiterite-bearing pegmatite dikes occur in hornblende schist
7 country rocks. Cassiterite is present in both greisen gangue and
8 feldspathic gangue. The Carolinas Tin and Development Company worked
9 the property in 1904, at which time there were a 40-foot shaft with
10- 200 feet of drifts and crosscuts, and numerous pits. In 1941-1942
11 the Atlas Collapsible Tube Company, of Chicago, drilled 2 holes and
12 sank 2 shafts, one 30 feet deep 125 feet northeast of the main shaft,
13 and one 125-foot deep 200-foot northwest of the main shaft. Samples
14 of cassiterite-bearing greisen taken from the latter shaft, called
15- the Atlas shaft, averaged less than 0.03 percent of metallic tin.

16 Float ore was seen 435 feet northeast and 1,825 feet southwest of the
17 main shaft.

18
19 References: Graton, 1906, p. 48-49;

20- Keith and Sterrett, 1917, p. 139;

21 Kesler, 1942, p. 264-266; table 18;

22 Pratt and Sterrett, 1904, p. 26;

23 Stuckey, 1965 p. 335.
24
25-

1 Faires mine

2 see Ferris mine, Mecklenburg County —

1 Fairfield Valley (Georgetown) placers

2 Type: Gold

3 Location: Jackson County, on the southern slopes of the Blue Ridge,
4 near Hogback and Chimney Top Mountains. The gold-bearing zone
5— extends through Casher's Valley and in Fairfield Valley along
6 Georgetown Creek, a tributary of the Toxaway River.

7 The location of Fairfield Valley is given by
8 Bryson as Transylvania County.

9
10— Placer gold deposits extend for several miles along the streams.
11 The source of the gold is veins in the mountains rising above the
12 valleys. A spring on Hogback Mountain is said to have produced daily
13 deposits of gold in sands over which the spring water ran. Jackson
14 County placers yielded between \$200,000 and \$300,000 before 1880.

15—
16 References: Bryson, 1936, p. 148;
17 Kerr and Hanna, 1888, p. 317;
18 Nitze and Hanna, 1896, p. 191-192;
19 Smith, 1875, p. 118-119.

25—

1 Falls prospect

2 Type: Tin

3 Location: Cleveland County, south of the town of Kings Mountain.

4
5- Cassiterite-bearing greisen occurs in a pegmatite dike enclosed
6 in muscovite schist and gneiss. A number of shafts were sunk and
7 trenches were cut on the property of Mrs. Lizzie Falls before 1904.

8
9 References: Keith and Sterrett, 1917, p. 138-139;

10- Kesler, 1942, table 18;

11 Pratt and Sterrett, 1904, p. 26.

12
1 Farrar mine

2 Type: Gold

3 Location: Gaston County, $\frac{1}{2}$ mile west of the Oliver mine, or about
4 $\frac{1}{4}$ mile east of Mountain Island.

5-
6 References: Nitze and Hanna, 1896, p. 149;

7 Pardee and Park, 1948, p. 62.

8
9
10
11
12
13
14
15
16
17
18
19
20-
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

1 J. B. Fawcett mine

2 Type: Barite

3 Location: Orange county, 4.1 miles south of Hillsboro on N.C.

4 Highway 86, and 1.4 miles west on a gravel road. (

5-
6 Reference: Conley, 1958, p. 61.

1
2
3
4
1
2
3
4
5-
6
7
8
9
14
15-
1
2
3
4
5-
6
7
8
9
10-
11

Fentress mine

See North Carolina mine, Guilford County

Ferguson mine

Type: Gold

Location: Gaston County,

Quartz veins carry pyrite, gold, and magnetite. The property was purchased by Mr. W. M. Fulton of Knoxville, Tenn., in about 1934.

References: Bryson, 1937, p. 16;
Genth and Kerr, 1881, p. 103;

Ferguson Hill mine

Type: Gold

Location: Mecklenburg County, 11 miles south of east of Charlotte, about 1/2 mile southwest of Mungo's store.

Gold occurs in one of a series of northwest-southeast trending veins.

References: Nitze and Hanna, 1896, p. 144;
Pardee and Park, 1948, p. 63.

1 Ferris (Faires, Garris) mine

2 Type: Gold

3 Location: Mecklenburg County, $5\frac{1}{2}$ to 6 miles northeast of Charlotte;
4 the southernmost vein, the Garris, is on the McCombs place,
5- about $\frac{1}{2}$ mile N. 15° E, from the McCombs mine. \approx

6
7 Three quartz veins in a sheared granite zone have been worked,
8 the "North" vein, the "South" vein, 300- to 400 feet southwest of
9 the "North" vein, and the Garris vein farther south, believed to
10- represent the union of the other two. The veins are composed of
11 milky quartz carrying gold, pyrite, and chalcopyrite in micaceous
12 schist country rock. The ores are oxidized to a depth of 90 feet.
13 The North vein has been worked most extensively, but in 1894 the Gar-
14 ris vein was being worked by two shafts, 90 and 120 feet deep.
15- The quartz contained nearly 25 percent sulfides and the concentrates
16 assayed \$45 to \$60 per ton. The ores were treated in a Chilean
17 mill of 3 tons capacity. In 1934, two groups of workings several
18 hundred feet apart were seen.

19
20- References: Bryson, 1936, p. 124-125;

21 Genth and Kerr, 1881, p. 111;

22 Kerr and Hanna, 1888, p. 300-301;

23 J.V. Lewis, 1934, written communication;

24 Nitze and Hanna, 1896, p. 142-143;

25- Nitze and Wilkens, 1897, p. 66;

Pardee and Park, 1948, p. 63.

1 Ferris, Tom, mine

2 Type: Gold

3 Location: Mecklenburg County, 1 mile west of Shopton.

5- Reference: Pardee and Park, 1948, p. 63.

1 Fesperman mine

2 Type: Gold

3 Location: Stanly County, 4 miles east of Albemarle.

4
5- This was a placer mine.

6
7 Reference: Pardee and Park, 1948, p. 65.

13
1 Fines Creek mine

2 see Redman mine, Haywood County

3
1 Fisher mine

2 Type: Gold

3 Location: Cabarrus County, near Concord,

4
5- Gold, pyrite, and chalcopryrite were noted in the ore.

6
7 Reference: Genth and Kerr, 1881, p. 96.

25-

Fisher Hill mine

1 Type: Gold

2 Location: Guilford County, 5 to 6 miles southwest of Greensboro, and
3 2 miles west of the Hodges Hill mine. Fisher Hill is the most
4 northerly of 3 mines on one 900 acre tract. To the south are the
5- Millis (Willis), Hill and Puckett mines. ←

6
7 The 3 mines are on two systems of flat-lying quartz veins, one
8 running north-south, and the other nearly northeast-southwest, in
9 granite country rock. The north-south veins were most extensively
10- worked, one was traced for nearly a mile, and contained ore bodies
11 4 inches to 10 feet thick. The veins carried gold, white pyrite,
12 chalcopyrite, magnetite, hematite, ilmenite, limonite, pseudomalachite,
13 and siderite. The quantity of copper in the ore increased to the
14 south. The Fisher Hill mine contained little chalcopyrite, the Millis
15- Hill a somewhat larger quantity, and the Puckett a considerable
16 amount, with much pyrite. Emmons in 1856 described the ore as
17 appearing poor, but it proved to average \$3.00 in gold per bushel
18 (100 lbs). The main vein was successfully operated at several points.
19 In 1886 and 1887 four levels, aggregating nearly 200 feet, had been
20- run from a 180-foot inclined shaft. The ore was milled in a 10-stamp
21 mill. In 1934 the remains of a Chilean mill and other equipment were
22 seen.
23
24
25-

1
2
3
4
5-
6
7
8
9
10-
1
2
3
4
5-
6
7
8
9
20-
21
22
23
24
25-

References: Bryson, 1936, p. 105;
 Conley, 1958, p. 34;
 Emmons, 1856, p. 172-173;
 Ge^vuth and Kerr, 1881, p. 109;
 Kerr and Hanna, 1888, p. 278-279;
 Nitze and Hanna, 1896, p. 110-111;
 Nitze and Wilkens, 1897, p. 45;
 Pardee and Park, 1948, p. 75.

Flemming (Fleming) mine

Type: Gold

Location: Caldwell County, near Lenoir.

In 1911 the mine was owned and developed by J. W. Fleming of Lenoir and was equipped with a stamp mill, boilers, pumps, etc.

References: Pardee and Park, 1948, p. 62;
 Pratt, 1944, p. 19.

1 Flint Knob mine

2 Type: Gold, lead

3 Location: Wilkes County, about 6 miles east of Deep Gap on a spur of
4 the Blue Ridge known as Laurel Spur and Flint Knob..

5-
6 Quartz veins in garnetiferous gneiss and mica schist carry argentiferous
7 galena, pyrite, and chalcopryrite. The ore is gold-bearing.

8 When visited in 1894, the property had been only superficially
9 explored.

10-
11 References: Kerr and Hanna, 1888, p. 202;

12 Nitze and Hanna, 1896, p. 178-179.

13
14
1 Flint Springs mine

2 Type: Gold

3 *See also Freehold mine, Stanley County (504)*

4 Location: Stanly County, 1 mile east of New London and $\frac{1}{2}$ mile north-
east of the Parker mine.

5-
6 This was a placer and was much like the adjoining Parker mine.
7 In 1887 it was incorporated with the Parker, Johnny Parker, and
8 Biles mines and was operated as the Freehold ^{gold} mine by a London
9 Company, the Stanly ^F ^S Freehold Gold Mines, Ltd., which had installed
10- a large and admirable plant.

11 References: Eng. and Mining Jour. 1887, v. 43, p. 444.

12 Kerr and Hanna, 1888, p. 259;

13 Pardee and Park, 1948, p. 65.

161

1 Flowe's mine

2 Type: Gold

3 Location: Cabarrus County,

4
5- Wolframite, scheelite, and barite were noted in the ore.

6
7 Reference: Genth and Kerr, 1881, p. 95.

8
9
1 Folger Hill mine

2 Type: Gold

3 Location: Union County, about $\frac{1}{2}$ mile northwest of the Davis mine,
4 and in the Moore Hill group of mines.

5-
6 The ores are described under the Moore Hill mine. In the 1880's
7 the mine was worked for a length of 300 to 400 feet, and to a depth
8 of 90 feet.

9
10- References: Brown, C. B., 1934, written communication;

11 Bryson, 1936, p. 95-96;

12 Kerr and Hanna, 1888, p. 263;

13 Nitze and Hanna, 1896, p. 100-102;

14 Pardee and Park, 1948, p. 101-102.

15
24

25-

1 Fontana mine

2 Type: Copper

3 Location: Swain County, along Eagle Creek about $2\frac{1}{2}$ miles north of
4 Fontana Village, in an area now inaccessible by road, as the
5- water level of the Fontana reservoir lies about 100 feet
6 vertically below level 1 of the mine.

7
8 The Fontana deposit is a single elongated lens following the
9 foliation of the feldspathic sandstone and phyllite wallrocks. The
10- ore minerals are pyrrhotite and chalcopyrite with smaller amounts of
11 sphalerite, magnetite, and galena. The proportion of chalcopyrite and
12 sphalerite increases and pyrrhotite decreases with depth; ore in the
13 upper levels of the mine is characteristically massive sulfide, and
14 ore from the lower levels is more schistose. Gangue minerals are
15- talc, chlorite, quartz, plagioclase, and ankerite. The deposit was
16 capped at the surface by 5 feet of heavy gossawⁿ overlying several feet
17 of supergene chalcocite, native copper, cuprite, covellite, pyrite,
18 and malac^phite. The average grade ^{of} gall ore shipped from 1931 to 1942
19 was 7.37 percent copper, 2.11 percent zinc, 0.0072 ounce^{of} gold per ton,
20- and 0.385 ounce^{of} silver per ton. The podlike shape of the deposit
21 suggests that the ore body is in a pipelike zone of deformation formed
22 by structures cutting across the foliation of the country rocks.

23 The Montvale Lumber Company prospected the ore body and shipped
24 2,000 tons of ore before selling the mine to the Fontana Mining Corp.
25- in 1926. This company operated the mine until 1931, when it was sold

1 to the North Carolina Exploration Co., which continued operation until
 2 1944, when the rising waters of the Fontana reservoir forced the mine
 3 to close. The deposit was opened by several adits and an inclined
 4 shaft from which 18 levels were driven, the deepest, at a vertical depth
 5- of more than 1,700 feet. The mine produced more than 83 million
 6 pounds of copper.

7
 8 References: ^S Espenshade, 1963, p. 23-30;
 9 Kendall, 1953, p. 112-123;
 10- Laney, 1907, p. 72-79;
 11 Stuckey, 1965, p. 284-285.

13
 1 Ford mine

2 Type: Gold

3 Location: Union County, 5 miles northeast of Indian Trail.

4
 5- Gold with sulfides occurs in a quartz vein in tuff ^{and} breccia
 6 country rock. A shaft and pits were put down before the Civil War,
 7 and a 23-foot shaft was put down in 1933.

8
 9 References: C. B. Brown, 1934, written communication;

10- Pardee and Park, 1948, p. 65.

Ford prospect

1 Type: Copper

2 Location: Granville County, 6 miles south of Virgilina.

3
4 A prospect shown on Laney's map.

5-
6 Reference: Laney, 1917, map.

Fourth of July mine

1 Type: Copper

2 Location: ^{Granville}~~Person~~ County, 2 miles south of Virgilina and 1/4 mile
3
4 northeast of the Annie Maud prospect. =

5-
6 The dump contained greenstone schist and copper-stained quartz,
7 but no signs of a vein. A prospect shaft had been put down.

8
9 Reference: Laney, 1917, p. 158.

Foust mine

1 Type: Copper

2 Location: Alamance County, at the south foot of Bass Mountain.

3
4 Copper and galena are found in a bluish-green chlorite vein
5- which has been worked to a depth of 78 feet.

6
7 Reference: Kerr and Hanna, 1888, p. 214.

1 Fox Hill (Fog Hill) mine

2 Type: Gold

3 Location: Union County, $3\frac{1}{2}$ miles northeast of Indian Trail; about
4 1 mile northeast of the Henry Phifer mine; and $3/4$ mile north-
5- east of the north fork of Crooked Creek.

6
7 A quartz vein carrying oxidized iron ore, pyrite, and gold, is
8 in sericite schist derived from ~~type~~^{uff} of the volcanic series. Pits
9 and shafts are scattered along a northeasterly course for a distance
10- of 1,500 feet. Some work was done in 1933.

11
12 References: Brown, C. B., 1934, written communication;
13 Bryson, 1936, p. 93;
14 Nitze and Hanna, 1896, p. 99;
15- Pardee and Park, 1948, p. 103.

16
1 Francis mine

2 Type: Gold

3 Location: Caldwell County, near the Baker mine, on the John's River.
4

5-
6 References: Nitze and Hanna, 1896, p. 177;
7 Pardee and Park, 1948, p. 62.
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25-

1 Frazer mine

2 Type: Gold

3 Location: Mecklenburg County, about 6 miles northwest of Charlotte
4 and 1 mile ⁿortheast of the Todd mine.

5-
6 Gold and pyrite were noted. A shaft was sunk to a depth of
7 about 100 feet on a vein 1 to 3 feet wide.

8
9 References: Genth and Kerr, 1881, p. 111;

10- Kerr and Hanna, 1888, p. 293;

11 Pardee and Park, 1948, p. 63.

12
13
14
15
16
17
18
19
20
21
22
23
24
25-
1 Frazier mine

2 Type: Copper

3 Location: Granville County.

4 The Frazier mine is like the "Native Shaft" at the Cornfield
5- property. It shows no defined vein, but quartz stringers and streaks
6 of bornite occur in cracks and fissure seams in massive epidote
7 rock.

8 Reference: Weed, 1900, p. 463.

1 Frederick mine

2 Type: Gold

3 Location: Mecklenburg County, 7 miles southeast of Charlotte, and
4 possibly the same as the Tredinick mine

5
6 Gold, pyrite, chalcopryrite, chrysocolla, and malachite were found
7 here.

8
9 References: Genth and Kerr, 1881, p. 111;

10 Pardee and Park, 1948, p. 63.
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(Biles, Flint Springs, Parker and Parker, Johnny)

Freehold, mine

Type: Gold

Location: Stanley County, from near Salisbury to near New London.

Between 1887 and 1896 the Stanley Freehold Gold Mines, Ltd., a London company, operated the Parker, Flint Springs, Biles, and Johnny Parker mines as the Freehold ~~Gold~~ Mines. They worked the placers and later did development work on some of the quartz veins. The company installed a pipeline $4\frac{1}{2}$ miles long to obtain water from the ^YMadkin River for hydraulic placer mining. Several large cuts were sluiced out and the value of the gravel worked is said to have ranged from 0.022 to 0.12 ounce ^{of gold} per cubic yard. The company made an unsuccessful attempt to work the unmodified saprolite, ^{carrying quartz veins} as distinguished from that which had been more or less concentrated by natural forces into placers. This material contained 0.025 ounce per ton of gold, half of which was lost because of extreme fineness.

In 1895 and 1896 two shafts were sunk to explore quartz veins. At a depth of 130 feet a quartz vein carrying iron and copper sulfides was opened in the Ross ^{ft} shaft. At the end of 1896 the property was reported to be in liquidation.

References: Engineering and Mining Journal, 1887, v. 43, p. 444;
 1890, v. 49, p. 714; 1890, v. 50, p. 278;
 1891, v. 52, p. 369, 513, 686; 1892, v. 53, p. 530;
 1895, v. 59, p. 422, 590; 1896, v. 61, p. 190, 287;
 1896, v. 62, p. 326, 615; 1899, v. 67, p. 125;
 1899, v. 68, p. 498; 1902, v. 74, p. 764;
 Pardee and Park, 1948, p. 93-94

1 Fritz-Honeycutt mine

Type. *Gold, silver.*

2 See ~~Whitney group, Cabarrus County~~

3 Location: Cabarrus county, several hundred yards S. 33° W. from the

4 Mauney mine.

One of the Whitney group of mines.

5-

6 The mine was worked to a small extent in the 1890's.

7

8 Reference: Nitze and Hanna, 1896, p. 91.

9

1 Fulwood mine

2 See Smart mine, Union County

3

13

14

15-

16

17

18

19

20-

21

22

23

24

25-

1 Furness (Furniss, Firness) mine

2 Type: Gold

3 Location: Cabarrus County, 6 miles southeast of concord, and adjoins the
4 phoenix mine on the northeast. The mine is located on the left
5- fork of a woods-farm road which enters a paved road 2.9 miles from
6 i its eastward intersection with U. S. Highway 601, 0. 6 miles
7 past its intersection ⁱwith N. C. Highway 49. —

8
9 Quartz veins along sheaf^r zones in diorite contain pyrite, chalcopyrite,
10- hematite, free gold, scheelite, malachite, barite, siderite, and epidote.

11 The mine was operated by Adolph Thies in the 1880's, and by the Miami
12 Mining Company in the period 1900-1906. During this time a shaft 176
13 feet deep with drifts at 90, 100, and 170 feet was put down. P. L.
14 Furr sank a 60 foot shaft in 1931, which is said to have opened a
15- 3-foot quartz vein containing 5% sulfides. The mine was explored in
16 1958 by the Carolina Tungsten Company.

17
18 References: Conley, 1958, p. 18;

19 Nitze and Hanna, 1896, p. 123;

20- Pardee and Park, 1948, p. 71.

1 Furniss Furr mine

2 Type: Gold

3 Location: Cabarrus County, 3 miles northwest of Georgeville, $\frac{1}{2}$ mile
4 southwest of the Barrier mine, near the northeast bank of Rocky River.

5—
6 Two quartz veins carrying gold cut greenstone schist. The
7 hanging-wall quartz, which is a foot or more thick, is flinty in
8 character and includes abundant pyrite. On the foot wall there is
9 about a foot of quartz, part of it cellular and iron-stained, and
10— associated with barite, and part of it enclosing bunches of pyrite.

11 The older workings at the mine include 2 or 3 shafts and several pits
12 and extend for 1,500 feet to the north. In 1934 the mine was operated,
13 and 15 tons of ore were treated by flotation at the White Star Mining
14 Co. plant at Smyrna, S. C. The mill heads assayed about 0.44 ounce
15— gold per ton, and the tailings assayed about 0.06 ounce gold per ton.

16
17 References: C. B. Brown, 1934, written communication;

18 Pardee and Park, 1948, p. 66-67.
19
20—
21
22
23
24
25—

1 Furr, Allen, (Eva Furr, Silver Valley, Midas) mine

2 Type: Gold

3 Location: Cabarrus County, 1/2 mile south of Georgeville and 11 miles
4 southeast of Concord, near Rocky River.

5- A tabular vein ranging from 6 inches to 5 feet or more in width
6 extends along a ¹⁴fault fracture in moderately schistose beds of tuff of
7 the volcanic series. The vein filling consists of quartz and sulfides,
8 chiefly pyrite, galena, and sphalerite. Samples of "run of ~~Mine~~" ore
9 taken in 1934 assayed 0.17 to 0.27 ounce of gold, 2 to 3 percent of
10- lead, 3 to 5 percent of zinc, and 2 ounces of silver per ton. All the
11 samples contained a little copper.

12 This mine was considered a promising source of lead in the 1880's
13 for large amounts of galena were occasionally found in the ore. The
14 mine lay idle for many years. In 1934 and 1935 development work was
15- done by the Midas Mining Company of Winston-Salem, N. C. The shaft
16 was sunk to a depth of 110 feet and 200 to 300 feet of drifting was
17 completed. In 1935 considerable ore was shipped to a flotation mill on
18 Rocky River.

19
20- References: Bryson, 1937, p. 16-17;

21 Kerr and Hanna, 1888, p. 191;

22 Nitze and Hanna, 1896, p. 93-94;

23 Pardee and Park, 1948, p. 65-66.
24
25-

1 Gahagan mine

2 Type: Barite

3 Location: Madison County, 1/4 mile north of Walnut Gap and about 500
4 feet east of the Asheville-Knoxville highway.

5-
6 Barite occurs in steeply-dipping ^{ses}lenses and ^{ur}fissures enclosed
7 on both sides by Max Patch Granite of Archean age. The vein is about 2
8 feet thick and has been worked to a depth of 200 feet. Two varieties of
9 ore occur in separate, but closely connected, lenses. One variety is
10- sugary white pure barite, and the other is pink, laminated barite containing
11 finely disseminated fluorite. Other impurities in the ore are pyrite
12 and galena. The mine was worked in 1900 and again in 1925. The total
13 production was about 30,000 tons.

14
15- Reference: Hunter and Gildersleeve, 1946, p. 9-10.

16
1 Gamble mine

2 Type: Gold

3 Location: Rutherford County, on the banks of the First Broad River,
4 south of Silver Creek Knob.

5-
6 This was a placer mine.

7
8 Reference: Kerr and Hanna, 1888, p. 312.

1 Gannon mine

2 Type: Gold

3 Location: Cabarrus county,

4
5- Reference: Pardee and Park, 1948, p. 63.

6
7
1 Gap mine

2 Type: Gold

3 Location: Gaston County, 3 miles northeast of Stanley.

4
5- Reference: Pardee and Park, 1948, p. 62.

13

14

15-

16

17

18

19

20-

21

22

23

24

25-

1 Gap Creek (Copper Knob, Deep Gap) mine

2 Type: Copper, gold

3 Location: Ashe County, on the south fork of the New River, 0.4 mile
4 northwest of the settlement of Gap Creek on the road to Idlewild,
5- which is 4 miles northeast of Gap Creek.

6
7 A quartz vein in a fault zone in hornblende gneiss ~~of the Ream~~
8 ~~Formation~~ carried chalcocite, bornite, and free gold with very little
9 chalcopyrite or pyrite. The vein was bordered by a selvage of iron
10- oxide carrying free gold. In the oxidized zone the copper minerals
11 were altered to malachite and chrysocolla. Native silver and "sulphuret
12 of silver" were reported to have been seen in the ore.

13 The mine was opened before 1856 as a gold mine. In 1880, 40,000
14 pounds of copper ore ^{were} (was) shipped. In 1885 the Copper Knob Mining
15- Company worked the mine and put down a shaft variously reported to be
16 140, 150, or 180 feet deep. During the 1880's the mine "became the
17 prey of a company of speculators, and was tossed about as a football,
18 on the floors of stock exchanges, and it suited the management to
19 conceal the real character of the lower levels". (Kerr and Hanna, 1888,
20- p. 225). In 1912 the Monation Mining Company shipped one carload of
21 ore that assayed \$20.00 in copper and \$8.00 in gold. In 1951 the Atoz
22 Corporation attempted unsuccessfully to reopen the mine.

23
24
25-

1 References: Bryson, 1936, p. 144-145;

2 G. H. Espenshade, 1943, written communication;

3 Kerr and Hanna, 1888, p. 188, 225-226;

4 Nitze and Hanna, 1896, p. 180-181;

5- K. H. Teague, 1951, written communication;

6 Tennessee Valley Authority, 1942, written communication;

7 Weed, 1911, p. 132-133.

8

9

10-

11

12

13

14

15-

16

17

18

19

20-

21

22

23

24

25-

9.1287

1 Gardner Hill Mine

2
3 Type: Gold, copper

4 Location: Guilford County, 8 miles southwest of Greensboro, and
5- 2 or 3 miles northeast of Jamestown. —(

6 A quartz vein 6 inches to 3 feet wide in syenitic
7 granite bounded by slate on either side, carries pyrite,
8 chalcopryite, and, above 110 feet, auriferous brown
9 iron oxide. This ore carried about 1 ounce of gold
10- per ton. The sulfide ore below the oxidized zone
11 yielded as much as 30 percent copper. Other minerals
12 found in the veins were native gold, bornite,
13 chrysocolla, and malachite.. There were said to be 3
14 veins on the property, the Main, Worth, and Goshen
15- veins. The mine was worked extensively long before
16 1861, and has been more or less idle since 1865, except
17 that at times since 1880 parts of the dumps were milled.
18 In 1856 Emmons estimated that the mine had produced
19 \$100,000 from lode and placer workings. The vein was
20- worked for a length of 5,000 feet and was opened by 6
21 shafts, from northeast to southwest, the Creek shaft,
22 110 feet deep, the Underlay shaft, 175 feet deep; the
23 Old Engine shaft, 175 feet deep; the New Engine shaft,
24 258 feet deep; the No. 2 shaft, 110 feet deep; and the
25- White Oak shaft, 150 feet deep. There were 4 levels at

1 60, 100, 150, and 228 feet averaging about 500 feet in
 2 length. In 1896 the mine was pretty well stor^ped out
 3 from the water level (60 feet) to the bottom of the
 4 respective shafts. It is stated that for "a long
 5- period" 40 tons of chalcopryrite ore averaging from 20 to
 6 25 percent copper were shipped weekly. In the summer of
 7 1934 the mine was unwatered under the direction of
 8 Haydn Gunter for the owner, J. E. Latham. A map showing
 9 workings accessible at that time, and shafts known as
 10- the ⁷⁴Endy, Gardner, and Stafford shafts was published in
 11 Pardee and Park (plate 23). Parts of the vein remaining
 12 in 1934 were from 1 to 7 feet in width and consisted
 13 chiefly of quartz with pyrite and chalcopryrite sparsely
 14 scattered through it.

- 15- References: Bryson, 1936, p. 106-107;
 16 Conley, 1958, p. 34;
 17 Emmons, 1856, p. 174-176;
 18 Genth and Kerr, 1881, p. 109;
 19 Kerr and Hanna, 1888, p. 206;
 20- Nitze and Hanna, 1896, p. 112-114;
 21 Nitze and Wilkens, 1897, p. 46;
 22 Pardee and Park, 1948, p. 75-76, pl. 23;
 23 Stuckey, 1965, p. 305;
 24 Weed, 1960, p. 480.

1 Garland Prichard Mine

2
3 Type: Gold

4 Location: Randolph County,

5- Surface material overlying rhyolite breccia
6 country rock and carrying very fine gold was worked
7 for a total of about 3 months in 1909-1910.

8
9 Reference: C. B. Brown, 1934, written communication.

1 Garman (Gorman) mine

2 Type: Gold

3 Location: Cabarrus County, 1 3/4 miles south of Georgeville.

4
5- Reference: Pardee and Park, 1948, p. 62.

1 Garris mine

2 See Ferris mine, Mecklenburg County. —

1 W.H.,
W. H. Garvey, prospect

2 Type: Copper

3 Location: Ashe County, about 4 miles south of west Jefferson and 8 miles
4 southwest of Ore Knob, on the eastern end of Mulatto Mountain.

5-
6 A vein of siliceous copper-bearing pyrite ore about 1 foot thick
7 was exposed. The vein dipped nearly vertically and widened to 4 feet
8 at depth. Gossan was exposed at the surface. An analysis of the gossan
9 gave 1.77 percent metallic copper.

10-
11 Reference: Nitze, 1893, p. 164.

^{J.E.,}
(J. E.) Gates, Shaft

Type: Tin

Location: Lincoln County, southwest of the Henry shaft, of the Ka-Mi-
 Tin mine.

Cassiterite was found in a well, in a nearby gully, and as float 250
 feet northwest of the well in muscovite schist or gneiss wall rock.

Reference: Kessler, 1942, table 18.

Georgetown placers

see Fairfield Valley placers, Jackson County

Gibb mine

Type: Gold

Location: Cabarrus County, adjoins the Phoenix mine on the west.

The wall rock and veins are similar to those at the Phoenix mine.
 High-grade sulfide ore was mined in the 1880's.

References: Nitze and Hanna, 1896, p. 123;

Pardee and Park, 1948, p. 62.

1 Gibson mine

2 Type: Gold

3 Location: Guilford County, near Gibsonville,

4

5- The mine was operated around 1930 by the Gibson Gold Mining
6 Company.

7

8 Reference: Bryson, 1937, p. 27.

9

10-

1 Gibson mine

2 Type: Gold

3 Location: Mecklenburg County, 9 miles west of Charlotte and ^(adjoining the Stephen) Wilson
4 mine.

5-
6 References: Nitze and Hanna, 1896, p. 132;

7 Pardee and Park, 1948, p. 63.

10

19

20-

21

22

23

24

25-

Gillis mine

Type: Copper

Location: Person County, 5 miles southwest of Virgilina. —

A quartz vein carrying calcite, epidote, chlorite, and hematite in Virgilina Greenstone, opened in 1852 or 1853, was examined by Ebenezer ^z Emmons in 1854, ^{This} ~~and~~ was one of the earliest worked copper mines in the United States. The ore minerals are bornite, chalcocite, malachite, azurite, chrysocolla, tenorite(?), and cuprite. In 1856 there were two shafts, the ~~s~~outh shaft was 130 feet deep and the North shaft was 90 feet deep.

References: Emmons, 1856, p. 344-346;

Kerr and Hanna, 1888, p. 218-219;

Laney, 1917, p. 157;

Stuckey, 1965, p 287-288.

Glen Alpine mine

Type: Gold

Location: Burke County, near the town of Glen Alpine.

This was a placer mine in gravel.

Reference: Kerr and Hanna, 1888, p. 312.

Glendale mine

See Alta mine, Rutherford County

Glyyas mine

Type: Gold

Location: Randolph County, *Southwest of the Dowd mine*

Gold was carried in small quartz stringers cutting andesitic and rhyolitic tuff. Old shafts were seen. Surface material was washed in 1913-1915.

Reference: C. B. Brown, 1934, written communication.

Golconda mine

Type: Gold

Location: Montgomery County, 1/2 mile northeast of the Iola mine, and adjoining the Montgomery mine on the north.

Quartz veins carrying gold and pyrite occur in a mashed andesitic tuff country rock. The rocks on the footwall side appeared to be mineralized for about 50 feet from the vein. Between 1904 and 1906 the mine was operated by the Carolina Mining Company. A 70-foot shaft, and 4 50-foot shafts had been put down and there was a small stamp mill. The main shaft was later deepened to 120 feet with levels at 50 and 100 feet. There are no records of operation after 1910.

References: C. B. Brown, 1934, written communication;

Bryson, 1937, p. 25;

Pardee and Park, 1948, p. 85;

Pratt, 1907, p. 53-54

1 Gold mine, name unknown

2 Type: Gold

3 Location: Montgomery County, east of the Pee Dee River, about 1 mile
4 northeast of Pee Dee.

5-
6 Reference: Conley, 1962, p. 18; map.
7

1 Gold prospect, name unknown

2 Type: Gold

3 Location: Montgomery County, 1 mile east of the Pee Dee River and
4 about 1 mile south of the Moratock mine. —

5-
6 Reference: Conley, 1962, map.

14
1 Gold Bowl (Pugh) mine

2 Type: Gold

3 Location: Randolph County, 6½ miles northeast of Asheboro. (

4
5- The country rock is ferruginous sericitic quartz schist with
6 sugary quartz stringers along the laminae of the schist. The Gold
7 Bowl Mining Company in 1934 had one 60-foot shaft, 2 drifts with
8 hoist, and a 1-stamp mill.

9
10- References: C. B. Brown, 1934, written communication;

11 Pardee and Park, 1948, p. 64.

1 Gold Coin mine

2 Type: Gold

3 Location: Rowan County, near Gold Hill.

4
5- Reference: Pardee and Park, 1948, p. 64.

6
1 Golden Valley placers

2 Type: Gold

3 Location: Rutherford County, $4\frac{1}{2}$ miles from Brindletown on the First
4 Broad River.

5-
6 An extensive alluvial flat. Over \$60,000 in gold was produced.
7 In 1934 hydraulicking operations were being carried out on the Rhyne
8 estate and on other tracts in the area.

9
10- References: Kerr and Hanna, 1888, p. 311;

11 Nitze and Hanna, 1896, map, p. 152;

12 Pardee and Park, 1948, p. 92.

19
1 Gold Hill mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles north of Charlotte. —

4
5- Reference: Pardee and Park, 1948, p. 63.

1 Gold Hill (Randolph, Miller, Barnhardt, North, WGN, Myers) Mine

2 Type: Gold, *Copper*

3 Location: Rowan County, in the village of Gold Hill and ^{*extending*} for a
4 distance of $1\frac{1}{2}$ miles along a northeast-southwest
5- trending ridge,
6

7 The country rock is a chlorite-sericite schist
8 belonging to the volcanic series. The mineralized belt
9 is part of a shear zone developed along a fault that
10- separates schist on the east from intrusive granitic
11 rocks on the west. Most of the lodes are in zones of
12 silicified schist, and trend northeastward with the
13 parting planes of the schist, but occasionally cut
14 across the planes. The principal ore minerals are
15- chalcopyrite, gold-bearing pyrite, native gold, small
16 amounts of galena and sphalerite, and silver. Usually
17 relatively high gold content goes with relatively low
18 copper content and vice versa. Bismuthinite in minute
19 particles is associated with gold and copper ores
20- in the Barnhardt vein. The Randolph, Barnhardt, Miller,
21 North, WGN, and Myers are veins or lodes of the Gold
22 Hill Mine. Altogether 11 mineralized zones or veins
23 have been discovered. The deposits were discovered
24 between 1842 and 1844 and, except during the Civil War,
25- they were mined until 1915. A 20-stamp mill was

1 erected in 1881; Mr. Richard Eames erected a 10-stamp
2 mill in 1893 and milled high-copper ores from the
3 Barnhardt vein. A shaft on the Randolph vein descends
4 to a depth of 800 feet and is the deepest in the Pied-
5- mont gold belt of North Carolina. Production records
6 of the mine for the last period of operation, 1914-15,
7 show a total of 7,250 tons of ore milled, from which
8 were recovered 3,877 ounces of gold (0.53 ounce per ton)
9 603 ounces of silver, and 23¹/₁₂ pounds of copper. The
10- total production of gold is estimated at \$2,505,000 [in
11 gold], re^{ck}toned at \$20.67 per ounce.

12 References: Emmons, 1856, p. 154-165;
13 Kerr and Hanna, 1887, p. 347;
14 Laney, 1910, p. 100;
15- Nitze and Hanna, 1896, p. 85-88;
16 Nitze and Wilkens, 1897, p. 57-60;
17 Pardee and Park, 1948, p. 88-91;
18 Stuckey, 1965, p. 291;
19 Weed, 1900, p. 471-479.
20-

1 Gold Knob Mine

2
3 Type: Gold

4 Location: Rowan County, 9 miles southeast of Salisbury, $3\frac{1}{2}$ to 4
5 miles northeast of Rockwell, and 1 mile west of Dutch
6 Second Creek. —

7 Three quartz veins, the Haynes, the Gold Knob,
8 and the Holtshouser, carry pyrite, and chalcopryrite,
9 and form a low ridge in the biotite granite country
10 rock. The mine was worked in the 1800's and the
11 Holtshouser vein was worked again in 1895. Eleven ore
12 leads were explored. A tunnel on one of the veins was
13 accessible in 1935.

14
15 References: C. B. Brown, 1934, written communication;
16 Kerr and Hanna, 1888, p. 282;
17 Laney, 1910, p. 113;
18 Nitze and Hanna, 1896, p. 120;
19 Nitze and Wilkens, 1897, p. 60;
20 Pardee and Park, 1948, p. 92.

1 Goliham (Goliharn), (Smith) mine

2 Type: Gold

3 Location: Randolph County, 7 miles east of south of Asheboro. —

4
5- The country rock is slate with interbedded tuff, carrying sparse
6 pyrite. The mine was worked in the 1890's and around 1905. In 1934,
7 L. A. Smith was working the property. The surface had been panned
8 for 1 mile in all directions.

9
10- References: C. B. Brown, 1934, written communication;
11 Pardee and Park, 1948, p. 64.

1 Goodman mine

2 Type: Gold

3 Location: Rowan County, southwest of Salisbury, east of the
4 Southern Railroad.

5-
6 Reference: Nitze and Hanna, 1896, p. 117.

18
19
20 Graf mine

21 See Bame mine, Rowan County. (

1 Gragg placers

2 Type: Gold

3 Location: Avery County, near Gragg on the south slope of Grandfather
4 Mountain and extending about 2 miles eastward.

5-
6 Gold-bearing gravels 3 to 15 feet thick on a pleateau of ^{to 2700}2650 feet
7 elevation were worked in the early 1900's.

8
9 References: Bryant and Reed, 1966, p. 7;
10- Keith, 1903, p. 8.

11
1 Graham mine

2 Type: Copper, gold.

3 Location: Lincoln County, on the farm of Maj. W. A. Graham, 4 miles
4 northeast of Iron Station.

5-
6 A quartz vein 30 to 42 inches thick carried gold and copper. In
7 the 1880's the vein had been prospected by pits along nearly 100 feet
8 of the outcrop. The mine was active in 1896 and 1897. In 1935 a new
9 shaft had been sunk to a depth of 32 feet, but the lode had not yet
10- been exposed.

11
12 References: Kerr and Hanna, 1888, p. 221;
13 Nitze and Hanna, 1896, p. 150;
14 Pardee and Park, 1948, p. 76.

1. Grampusville (Grampus) mine

2 Type: Gold

3 Location: Moore County, 3 miles southwest of the Bell mine; 4½ miles
4 southeast of Carter, south of the Sewell property.

5-
6 References: Bryson, 1936, p. 69;

7 Kerr and Hanna, 1888, p. 243;

8 Nitze and Wilkens, 1897, p. 56;

9 Pardee and Park, 1948, p. 64.

1 Grandfather Mountain mine, north side

2 Type: Gold

3 Location: ^WWatanga County, on the north side of Grandfather Mountain.

4
5- Considerable ore was produced from quartz veins carrying gold and
6 pyrite in black slate of the Hampton Formation. The main vein was 8 feet
7 thick.

8
9 Reference: Keith, 1903, p. 8.

10
1 Grandfather Mountain prospects, east side

2 Type: Gold

3 Location: Caldwell County, on the east and southeast slopes of
4 Grandfather Mountain

5-
6 Placers and quartz veins carrying gold are in sericitic phyllite and
7 phyllitic siltstone country rock.

8
9 References: Bryant and Reed, 1966, p. 7;

Grandman mine

Type: Gold

Location: ~~Montgomery~~ County, 4 miles southwest of Ophir.

Rusty ~~blended~~ ore in varved slate carrying chalcop^yrite and chalco^crite was seen in 1934. Several shafts and a tunnel were seen in 1934. There ~~once~~ had been a 10-stamp mill.

Reference^s: C. B. Brown, 1934, written communication;
Pardee and Park, 1948, p. 63.

Grand Union Gold Mine

Type: Gold

Location: Union County. The Grand Union Gold mine ^{is} was a union of the Wyatt, Howle, Bonnie Belle, and Peyⁿman mines. The ores are described under these headings.

Granville mine

See Marion Bullion Company mine, McDowell County

Gray mine

Type: Gold

Location: Davie County, near Statesville,

Reference^s: Pardee and Park, 1948, p. 62.

1
2
3
4
5-
6
7
8
9
10-
11
1
2
3
4
5-
6
7
8
9
21
1
2
24
25-

Gray mine

Type: Gold

Location: Randolph County, 2 miles west of Asheboro. ←

The country rock is sheared acid tuff. The mine was last worked before the Civil War, as indicated by the presence of poplar trees 26 inches in diameter growing in an open pit.

References: C. B. Brown, 1934, written communication;
Pardee and Park, 1948, p. 64.

Grayson mine

Type: Gold

Location: Rutherford County, south of Silver Creek Knob, near First Broad River.

Both placer deposits and auriferous quartz veins were mined before 1888.

Reference: Kerr and Hanna, 1888, p. 312.

Grier mine

See Woolworth mine, Mecklenburg County. (=

1 Griffin mine

2 Type: Gold

3 Location: Montgomery County, 1 1/2 miles northeast of the Russell
4 mine, and may be the same as the Griffin mine in Randolph
5 County.

6 This was a ^pglacer mine.

7
8 References: Kerr and Hanna, 1888, p. 253;

9 Pardee and Park, 1948, p. 63.
10-

1 Griffin mine

2 Type: Gold

3 Location: Randolph County, in the southwest corner of the county,

4 1 1/2 miles northeast of the Russell mine in Montgomery County. ^t
5 *This may be the same as the Griffin mine in Montgomery
6 County*

6 Gold is scattered through a schistose shear zone in sheared
7 silicified tuff. A large open cut was seen in 1934. At that time
8 the mine was owned by Arthur Ross.

9 References: C. B. Brown, 1934, written communication;
10-

11 Kerr and Hanna, 1888, p. 253;

12 Pardee and Park, 1948, p. 64.
23
24
25-

1 Griffith (Bryant Park) property

2 Type: Gold

3 Location: Mecklenburg County, in the city of Charlotte, in Bryant
4 Park south of W. Morehead St.

5-
6 A quartz vein in a shear zone in granite was found to contain
7 little if any sulfide mineralization. A prospect pit about 25 feet
8 deep was seen in 1934.

9
10- Reference: J.V. Lewis, 1934, written communication.

11 Gross mine

12 Type: Gold

13 Location: Yadkin County, 7 miles southeast of Yadkinville and about
14 2 miles northeast of the Dixon mine.

15-
16 Quartz lenses and stringers from less than one inch to 8 feet in
17 width have formed along faults and rifts in schist, which is partly
18 silicified. The deposits are mineralized zones into which pyrite and
19 gold have been introduced.

20- During 1913 and 1914 two veins were explored by two shafts, 100
21 and 20 feet deep, a 600-foot long open cut, and pits. A stamp mill and
22 cyanide plant were erected at the neighboring Dixon mine to treat ores
23 from both mines.

24
25- Reference: Pardee and Park, 1948, p. 104-105.

1 Grupy mine

2 Type: Copper, gold

3 Location: Rowan County,

4
5 The ore carried chalcopyrite, pyrite, and chrysocolla.

6 Reference: Genth and Kerr, 1881, p. 116.

7
8 Gunstocker Prospect

9 Type: Copper

10 Location: Jackson County, on the south side of Cany Fork, about
11 1½ miles northeast of the Brinkley Farm, and near
12 Cowarts, about ½ mile from the railroad. —

13
14 Pyrrhotite with minor pyrite, chalcopyrite, and
15 sphalerite occurs in quartz-biotite gneiss country
16 rock. The deposit is overlain by gossan. The vein is
17 about 6 feet wide and can be traced for a distance of
18 1,000 feet or more. The prospect has been opened by
19 a tunnel and several pits.

20 Reference: Bryson, 1930, p. 25-26;
21 G. H. Espenshade, 1944, written communication.

22
23 Hagler mine

24 See Maxwell mine, Mecklenburg County. (

Haithcock mine

Type: Gold

Location: Stanley County, 2½ miles northwest of Albemarle between the Hearne mine to the southwest and the Lowder mine to the northeast

The country rock is a greenish chloritic schist derived from a basic volcanic rock, cut by quartz veins 2 to 6 feet thick which are conformable with the schist. The gold occurs as free gold in the quartz and at places could be seen by the naked eye. This mine was opened in the middle 1800's and has been worked occasionally through the years. In the 1930's Mr. Ed Snuggs had a shaft sunk on a 3 to 5 foot wide quartz vein which contained free gold, but the work was soon abandoned.

References: Bryson, 1936, p. 79;
Bryson, 1937, p. 20;
Kerr and Hanna, 1888, p. 258;
Nitze and Hanna, 1896, p. 82;
Nitze and Wilkens, 1897, p. 54;
Pardee and Park, 1948, p. 93.

1 Hamilton (Bailey) mine

2 Type: Gold

3 Location: Anson County, 2 miles southeast of Wadesboro.

4
5- Two quartz veins from 2½ to 4 feet wide in altered slate near
6 granite carried hard quartz and limonite. Assays showed values of
7 \$14 to \$30 per ton. The mine was opened before the Civil War and
8 was worked in 1875 and in 1886. One vein was worked to a depth of
9 100 feet during the 1800's. Exploration work in 1933 and 1934 did
10- not uncover anything of value.

11
12 References: C. B. Brown, 1934, written communication;

13 Bryson, 1936, p. 102;

14 Kerr and Hanna, 1888, p. 274;

15- Nitz and Hanna, 1896, p. 106;

16 Nitze and Wilkens, 1897, p. 57;

17 Pardee and Park, 1948, p. 62.

18
1 Hamilton mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4
5- Reference: Nitze and Hanna, 1896, p. 174.

1 Hamme mine

2 Type: Tungsten

3 Location: Vance County, 3 miles west of Townsville, between Big
4 Island Creek and Little Island Creek, about 1 mile south of their
5- confluence.

6 Quartz veins carrying huebnerite, small amounts of scheelite,
7 and minor fluorite, rhodochrosite, pyrite, galena, sphalerite,
8 chalcopryrite, and tetrahedrite, are in a northwestward trending
9 belt 8 miles long in an albite granodiorite pluton parallel to its
10- contact with schist. The deposit was discovered in 1942 by
11 Joseph and Richard Hamme. Haile Mines, Inc., acquired the property
12 in 1943, and a new company, Tungsten Mining Corp., was formed in
13 June, 1945, by Haile Mines, Inc. and the General Electric Company.

14 The mine was operated until August, 1954. At that time the
15- total production was 577,000 short tons of WO_3 .

16 References: Espenshade, 1947, p. 1-17;

17 Hidden, 1890, p. 45-78;

18 Parker, 1963, p. G1-G69;

19 Pratt, 1901, p. 32;

20- Stuckey, 1965, p. 344-345;

21 White, 1943, 9 p.;

22 White, 1945, p. 97.

1 Hancock mine

2 Type: Gold

3 Location: Burke County, at the foot of the northeast slope of Hall's
4 (Hill's) Knob.

5-
6 A placer gravel deposit 1 to 1½ feet thick overlain by a peaty
7 bed 25 feet thick was worked in the 1800's; and was being worked on
8 a small scale in 1895.

9
10- References: Kerr and Hanna, 1888, p. 312;
11 Nitze and Hanna, 1896, p. 164;
12 Pratt, 1914, p. 18.
13

14
1 Hancock mine

2 See Cagle mine, Moore County

3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20- H and G mine

21 See Jones mine, Randolph County
22
23
24
25-

1 H. and H. mine (House property)

2 Type: Gold, copper, lead, zinc.

3 Location: Halifax County, 1.7 miles west of Glenview, north of the
4 paved road between ^G Glenview and Ringwood.

5- Gold, copper, lead, and zinc ores were mined here by the H. and
6 H. Mining Company in 1954,¹⁹ 55,¹⁹ 56, and ¹⁹57. This was the only gold
7 mine in operation in the southeastern United States in 1957.
8

9 References: Broadhurst, 1955, p. 18, 21;
10-

11 Conrad, 1958, p. 35;

12 Stuckey and Conrad, 1961, p. 6-7;

13 Stuckey, 1965, p. 323-324.

1 Harbin mine

2 Type: Gold

3 Location: Montgomery County, 2 miles southeast of Moratock.
4

5- This was a placer mine in gravel underlying saprolite. Mining
6 was hindered by the scarcity of water and the tenacious nature of
7 the saprolite. Old workings disclose 2 to 6 feet of gold-bearing
8 stream alluvium in a small valley and on a low bordering terrace.
9

10- References: Bryson, 1936, p. 78;

11 Kerr and Hanna, 1888, p. 248;

12 Nitze and Hanna, 1896, p. 80;

13 Nitze and Wilkens, 1897, p. 52;

14 Pardee and Park, 1948, p. 85.

1 Hard Hill mine

2 See Ellington mine, Mecklenburg County.

1 Hardin's mine

2 Type: Gold

3 Location: ^uWatanga County, 1 mile north of Boone, possibly on Hardin
4 Creek

5-
6 Placer gold was mined.

7
8 Reference: Pardee and Park, 1948, p. 65.

1 Harkey "diggings"

2 Type: Gold

3 Location: Cabarrus County, near Five Pines

4
5- Unpromising prospect of the Virgilena type - chalcocite and bornite
6 in greenstone.

7
8 Reference: Laney, 1910, p. 113.

1 Harkey mine

2 Type: Gold

3 Location: Cabarrus County, 5 miles southwest of Mount Pleasant.

4
5- A quartz vein from 6 to 24 inches wide carrying chalcopyrite,
6 pyrite, and marcasite, in diorite country rock, was being explored by
7 a 61-foot shaft in 1935.

8
9 Reference: Bryson, 1936, p. 88.

1 Harkness mine

2 Type: Gold

3 Location: Union County, about 1½ miles northeast of the East Hill
4 mine, in the Moore Hill group of mines.

5-
6 The ores are described under Moore Hill mine. The ore is a
7 continuation of the heavy quartz ore of East Hill, containing coarse
8 gold. The mine was worked after the Civil War for a length of 300
9 feet and a depth of 120 feet.

10-
11 References: Bryson, 1936, p. 97;

12 Kerr and Hanna, 1888, p. 263;

13 Nitze and Hanna, 1896, p. 103.

14 Harlan (Harland) mine

1 Type: Gold, copper

2 Location: Guilford County, the southern extension of the Deep River
3 mine, about 2 miles southeast of High Point.

4
5- A quartz vein carrying gold, pyrite, and chalcopryrite in bands
6 occurs in muscovite granite. Two shallow shafts and a 10-stamp mill
7 were seen in 1934. The mine was abandoned when sulfides were found
8 at water level.

9
10- References: C. B. Brown, 1934, written communication;

11 Emmons, 1856, p. 174;

12 Kerr and Hanna, 1888, p. 278;

13 Mining Magazine, 1865, 2nd ser., ^{no. 1} 2, p. 28;

14 Pardee and Park, 1948, p. 62.

Harney mine

Type: Gold

Location: Randolph County, 7 miles southeast of Asheboro. —

Highly ferruginous quartz sericite schist country rock containing
 phyllosilicate was seen. The mine was worked around 1860. Shallow
 shafts and pits were seen.

References: C. B. Brown, 1934, written communication;

Pardee and Park, 1948, p. 64.

Harris mine

Type: Gold

Location: Cabarrus County, 2 miles east of Harrisburg. —

A two-foot quartz vein carrying gold and pyrite in diorite country
 rock/ ~~The mine~~ was worked in pre-Civil War days. One shaft, pits,
 and trenches were seen in 1934.

References: C. B. Brown, 1934, written communication;

Pardee and Park, 1948, p. 62.

Harris mine

Type: Gold

Location: Davidson County,

Gold, pyrite, and chalcopryrite were noted in the ore.

Reference: Genth and Kerr, 1881, p. 101.

1 Harris mine

2 See Surface Hill mine, Mecklenburg County.

1 ~~Harris~~ ^{H,} prospect

2 Type: Copper

3 Location: Alleghany County, at Roaring Gap.

5- Auriferous chalcopyrite and bornite are reported.

7 Reference: Genth and Kerr, 1881, p. 92.

Harrison Mine

3 Type: Gold

4 Location: Rowan County, southwest of Salisbury, east of the
5- Southern Railroad, and 4 miles southwest of
6 Granite Quarry. —

7 A small quartz vein in highly sheared and
8 weathered diorite was worked in 1895. Four pits were
9 seen in 1934.

10-
11 References: Brown, C. B., 1934, written communication;

12 Nitze and Hanna, 1896, p. 117.

1 Hartman mine

2 Type: Gold

3 Location: Rowan County, 2 miles southwest of Salisbury; east of the
4 Southern Railroad. —(

1 Hastings prospect

2 Type: Tin

3 Location: Gaston County, 2 miles S. 65° W. of Landers Chapel.

4

5- Cassiterite occurs in greisen gangue in an ore body conformable
6 with the muscovite gneiss wall rock. Cassiterite-bearing pegmatite was
7 found on the surface for a distance of 100 feet in a northerly direction.

8 The deposit was opened by a 14-foot shaft and a cross cut trench
9 which were inaccess^cible in 1940. The deposit is called the T. S. Hastings
10- prospect by Kes~~s~~ler, and the H. P. Hastings prospect by Keith and
11 Sterrett.

12

13 References: Keith and Sterrett, 1918, p. 145;

14 Kes~~s~~ler, 1942, table 18.

15

1 Hauss (House) mine

2 Type: Gold

3 Location: Lincoln County, 4 miles west of Lincolnton, on the farm of

4 C. M. Haefner.

5-

6 Two veins of white quartz each 2 to 3 feet thick and carrying
7 sulfides were seen in a granitic saprolite country rock. The ore was
8 assayed at 0.17 ounces of gold and a little silver per ton. The mine
9 was worked before the Civil War. A pit 5 feet deep was all that
10- could be seen in 1935.

11

12 Reference: Pardee and Park, 1948, p. 76-77.

Haw Branch Road mine

Type: Copper

Location: Moore County, 1.6 miles northeast of Glendon, taking the paved road from Glendon for 0.9 mile, turning east on Haw Branch Road for 1.3 miles, and taking a logging road which turns to the north and forks at a sawdust pile. The mine is 1,000 yards beyond the sawdust pile on the right fork of the road.

The ore body is highly silicified cherty rock brecciated and replaced by feldspar, quartz, and calcite. The ore body strikes N.30°E., dips 60°NW and is about 30 inches thick. The ore minerals are cuprite, bornite, azurite, and malachite in a gangue of calcite, chlorite, quartz, and orthoclase. Assays by the Tennessee Copper Company gave 0.85 percent copper, 0.02 ounce gold per ton, and 0.18 ounce silver per ton. Two shafts were seen, one 150 feet deep, the other caved. A 50-foot long trench runs between the shafts.

Reference^s: Conley, 1958, p. 61; 1962a. p. 27.

Hayes mine

Type: Gold

Location: Gaston County, northeast corner of the county.

Reference: Pardee and Park, 1948, p. 62.

1
2
3
4
5-
6
7
8
9
1
2
3
4
5-
6
7
8
9
20-
21
22
23
24
25-

Hayes mine

Type: Gold

Location: Mecklenburg County, 5 to 10 miles northwest of Charlotte,

Reference: Pardee and Park, 1948, p. 63.

Haynes mine

Type: Gold

Location: Rowan County, adjoining the Gold Knob mine, 40 rods to the southwest.

The ore carried sulfides.

References: Genth and Kerr, 1881, p. 116;

Kerr and Hanna, 1888, p. 282.

1 Hazel Creek (Adams, Everett) mine

2 Type: Copper

3 Location: Swain County, in a tributary valley of Sugar Fork, about
4 6 miles from the former settlement of Proctor.

5- The deposit is made up of a group of curving, lenticular veins
6 that overlap one another to form a pipelike orebody, parallel to the
7 foliation in schistose phyllite and feldspathic sandstone country
8 rock. The principal sulfide mineral is chalcopyrite, with sphalerite,
9 cubanite, galena, and pyrrhotite. Copper and zinc are present in
10- nearly equal proportions. The better ore is massive, and grades into
11 stringers of chalcopyrite and sphalerite in phyllite. The deposit was
12 capped by 5 feet of gossan overlying several feet of supergene
13 chalcocite, native copper, cuprite, covellite, and pyrite. The
14 massive hypogene ore contains 3-3.5 percent copper, 3-3.5 percent zinc,
15- and 0.5 percent lead. Lower grade sulfide stringers in phyllite con-
16 tain 1-1.7 percent combined copper and zinc. The supergene ore
17 contained 12.5 percent copper, 3.5 percent zinc, and 1.37 ounces
18 silver per ton.

19 The mine was first opened about 1900, but after a few years
20- operations ceased because the property became involved in litigation.
21 In 192⁹ and 1930 the Dicktown Chemical and Iron Co. explored the
22 property by means of diamond drilling. The mine was reopened late in
23 1942 by the North Carolina Mining Co. ^{of Proctor, N.C.,} and was operated until November
24 1944, when the property was acquired by the Tennessee Valley
25-

1 Authority and the mine closed. Nearly all the mine workings, adits,
 2 trenches, and opencuts, were opened ^{between 1900 and 1910-} [during the early 1900's.] A small
 3 concentrating mill was erected in 1944. Ore shipped in 1943 and 1944
 4 contained 415,722 pounds of copper. There is no record of ore ship-
 5- ments prior to 1943. Ore reserves were estimated at 17,000 short
 6 tons of high grade hypogene ore and 32,000 short tons of low grade
 7 ore above the 2,700 foot altitude prior to mining in 1943. About
 8 3,000 short tons of high grade ore were mined in 1943-1944.

9
 10- References: Espenshade, 1963, p. 23-34;

11 Hunter and Gildersleeve, 1946, p. 16;

12 Pratt, 1904, p. 21;

13 Stuckey, 1965, p. 285.

14
 1 Headrick mine

2 Type: Copper, gold

3 Location: Davidson County, near the Boss mine and near David Beck's
 4 mine, about 5 miles west of Silver Hill. —

5- Chalcopyrite and pyrite with gold occur in a quartz vein in
 6 dark blue chloritic slate country rock. The vein was traced for one
 7 mile along the surface. The vein material was worth \$1.00 per bushel,
 8 *in the 1850's.*
 9 At a depth of 20 feet the lode was 30 inches thick and carried 15
 10- percent copper. Bands of mineralized country rock, quartz carrying
 11 gold, and sulfide ores constitute the lode.

12
 13 Reference: Emmons, 1856, p. 186, 204-205.

Hearne (Herne) mine

1 Type: Gold

2 Location: Stanley County, about 2½ miles northwest of Albertmarle,
3 adjoining the Haithcock mine to the northeast.
4

5- The country rock is a greenish chloritic schist derived from a
6 basic^c volcanic rock. Two quartz veins about 500 feet apart that range
7 from 2 to 6 feet in width consist largely of milky white quartz with
8 carbonate and iron oxides and native gold, at places visible to the
9 naked eye. Most of the rock appeared^s to be barren; the rich ore
10- apparently occurs in scattered pockets. In 1856 Emmons reported^s the
11 mine working and that 8 quarts of selected ore yielded \$80 (4 ounces^s).
12 It was worked off and on through the years. In 1931 development work
13 was done by Mr. W. L. Cotton who erected a 5-stamp mill. He recovered
14 a small amount of gold in the mill, as well as a specimen of ore con-
15- taining \$600 in gold (30 ounces). The workings consist of trenches,
16 pits, and shafts, none apparently deeper than water level, distributed
17 along a northeasterly course for nearly a mile.
18

2 References: Bryson, 1936, p. 79;

3 Bryson, 1937, p. 20;

4 Emmons, 1856, p. 167;

5- Kerr and Hanna, 1888, p. 258;

6 Nitze and Hanna, 1896, p. 258;

7 Nitze and Wilkens, 1897, p. 54;

8 Pardee and Park, 1948, p. 93.

1 Heath (Donnell) mine

2 Type: Gold

3 Location: Guilford County, 6 miles southeast of Greensboro.

4

5- Quartz veins carrying oxidized ore with remnants of chalcopyrite
6 and pyrite were seen in muscovite granite country rock. Old pits
7 and shafts were seen. Work was being done in 1934 by Hartzell.

8

9 References: C. B. Brown, 1934, written communication;

10- Pardee and Park, 1948, p. 62.

11

12

1 Hedge mine

2 see Hodge mine, Burke County

16

17

18

19

20-

21

22

23

24

25-

1 Heglar prospect

2 Type: Rare-earths

3 Location: Cabarrus County, on a tributary of Hamby Branch, approxi-
4 mately 750 feet south of the road through Cold Springs, and
5- adjacent to the Faggart gold mine.

6 ^{is} ~~The deposit~~ is a replacement deposit in amphibolite at the
7 contact of metavolcanic and metasedimentary rocks and a ~~pink~~ⁿ
8 granite intrusive into gneissic granite rock. The deposit is
9 disseminated pyrite and andradite in a fine-grained siliceous matrix
10- containing opal and ch^laledony. Other minerals in the ore ^{are} chalcopy-
11 rite, sphalerite, galena, molybden^{ite}um, epidote, allanite, magnetite,
12 apatite, and noteworthy amounts (0.14-0.42%) of rare-earth elements of
13 the cerium group. The deposit is radioactive, probably due to the
14 residual weathering products of allanite, which contains 0.35-2.23%
15- thorium.. Nearby are gold-quartz vein deposits.

16 The deposit was discovered by airborne radioactivity survey,
17 and was examined by the U. S. Geological Survey in 1956. A shaft
18 was sunk on the radioactive anomaly in the mid-1950's by A.L. Nash.

19
20- Reference: Sundelius and Bell, 1964, p. 207-221.

21
22
1 Hegler mine

2 See Hepler, Claude, and Hepler mines, Davidson County.

1 Heilig mine

2 Type: Gold

3 Location: Cabarrus County, 4 1/2 miles east of Concord; 1/2 mile west of
4 Adams Creek. —

5-

6 Large specimens of quartz showing coarse gold were found in a trench
7 cut in diotite granite country rock. No definite vein was discovered.

8

9 Reference: Pardee and Park, 1948, p. 71.

10-

1 Helms, Mrs. John, mine

2 Type: Gold

3 Location: Mecklenburg County, 2 miles southwest of Griffith.

4

5- Reference: Pardee and Park, 1948, p. 63.

6

17

18

19

20-

21

22

23

24

25-

1 Hemby mine

2 Type: Gold

3 Location: Union County, 4 miles southwest of Indian Trail, north
4 and west of the Lewis-Phifer lead, in the Moore Hill group of
5- mines.

6
7 The ores are described under Moore Hill mine. Shallow workings
8 extend for a distance of 1,200 to 1,500 feet along the strike. Two
9 shafts, 150 and 190 feet deep, were sunk by John Vivian in about
10- 1889-1890. The ore carried relatively high amounts of galena and
11 silver, as well as glassy quartz and siderite.

12
13 References: Brown, C. B., 1934, written communication;
14 Bryson, 1936, p. 96-97;
15- Kerr and Hanna, 1888, p. 262-263;
16 Nitze and Hanna, 1896, p. 103;
17 Pardee and Park, 1948, 101-102.

1 Hemby, Thomas, mine

2 Type: Gold

3 Location: Union County, probably the northeasternmost of a series of
4 mines comprising also the Black, Smart, and Secrest mines, and
5- probably similar to these.

6
7 Reference: Nitze and Hanna, 1896, p. 98.

1 Henderson mine

2 Type: Gold

3 Location: Mecklenburg County, 5 to 7 miles northeast of Charlotte;
4 1.2 miles northeast of the Statesville road, and 1.13 miles
5- west of Derita. —

6
7 Gold, pyrite, and chalcopyrite were noted in the ore, which
8 also carried silver. The mine was worked before the Civil War and
9 again around 1887 to 1889, when a 100-foot shaft was sunk which
10- intersected 3 bodies of ore varying in size^z from 1½ to 4 feet in
11 thickness. At one time there was a 10-stamp mill on the property.

12
13 References: Bryson, 1936, p. 124;
14 Genth and Kerr, 1881, p. 111;
15- Kerr and Hanna, 1888, p. 300;
16 J.V. Lewis, 1934, written communication;
17 Nitze and Hanna, 1896, p. 141;
18 Pardee and Park, 1948, p. 63.
19
20-
21
22
23
24
25-

1 Henderson mine

2 Type: Gold, lead, zinc.

3 Location: Montgomery County, 100 yards northeast of the village
4 of Eldorado.

5
6 Galena, sphalerite, and pyrite ^{are} are found on the dumps. In 1887
7 there was a string of prospect pits. Later a shaft was put down,
8 which was dewatered in 1957, but mining was not resumed. The mine
9 was supposedly worked for lead, zinc, and gold.

10
11 References: Conley, 1962, p. 18;

12 Kerr and Hanna, 1888, p. 201, 248.

13
14 Henderson mine

15 Type: Gold

16 Location: Stanly County, near New London.

17 Reference: Pardee and Park, 1948, p. 65.
18
19
20
21
22
23
24
25

1 Henry Shaft

2 Type: Tin

3 Location: Lincoln County, 1 mile southwest of the Condon shaft, of the
4 Ka-Mi-Tin mine.

5-
6 Cassiterite was found in a 12-foot wide pegmatite dike near its
7 contact with muscovite and hornblende gneiss and schist wall rock. A
8 60-foot shaft with 30 feet of drifting was sunk in 1905.

9
10- References: Kesler, 1942, table 18;

11 Pratt, 1907, p. 21.

1 Henson, Pat, mine

2 Type: Gold

3 Location: Mecklenburg County, 9 miles east of Charlotte.

4
5- Reference: Pardee and Park, 1948, p. 63.

6
7
8
9
10
11 Hepler, Claude, (Hegler) and Helper mines

1 Type: Gold

2 Location: Davidson County, 2 miles northwest of Cid.

3
4
5- Quartz veins in rusty sericite schist carry gold. Below the
6 zone of oxidation the primary ^rore carried copper. The mine was
7 operated in the 1830's, but was abandoned when copper was encountered
8 below the gold ore. Several pits were seen in 1934.

9
10- References: C. B. Brown, 1934, written communication;

11 Mining Magazine, ^{1st ser,} V. 2, No. 2, p. 173, 198, 1854,

1 Hercules mine

2 Type: Gold

3 Location: Caldwell County, 12 miles north of Morganton, near Hartland.

4 Not located on map. This mine is also ^{reported} [reputed] to be in Burke
5- County.

6
7 Twenty quartz veins varying in width from a few inches up to 1
8 or 2 feet carry gold, chalcopryrite, galena, and pyrite. Mr. Robert Orr
9 sank many small shafts here, some [up to] 60 to 70 feet deep, in the early
10- 1900's. In 1930 a shaft was sunk to a depth of 110 feet, and a rich
11 pocket of high-grade ore was encountered which yielded \$1,500 in gold.
12 The property was idle in 1936, then was sold to Tennessee interests.

13
14 References: Bryson, 1936, p. 137-138;
15- Bryson, 1937, p. 15;
16 Pratt, 1907, p. 35.

1 Hercules mine

2 See Emmons mine, Davidson County.

19
20- Herring mine

1 See Lafflin mine, Randolph County
2
23
24
25-

1 High Point mine

2 Type: Gold

3 Location: Guilford County, 2 miles southwest of High Point.

4
5- A lenticular mass of bull quartz over 10 feet thick at the
6 center and dipping 45° carried chalcopyrite and limonite. Work done
7 in 1905 showed that the ore would not pay the bare milling expenses.

8
9 Reference: Pratt, 1907, p. 38.

10-
1 High Shoals mine

2 Type: Gold

3 Location: Gaston County,

4
5- Reference: Genth and Kerr, 1881, p. 103.

16
1 Hill mine

2 Type: Gold, copper

3 Location: Cabarrus County, about 8 miles from Concord and 1 mile
4 southwest of where the Concord road crossed the Mount Pleasant
5- road in 1856. —()

6
7 Chalcopyrite and iron carbonate were in a quartz vein about 18 inches
8 wide in syenite country rock.

9
10- References: Emmons, 1856, p. 202-203;

11 Kerr and Hanna, 1888, p. 208.

1 Hill (Talbert) mine

2 Type: Gold

3 Location: Randolph County, southwest corner of the county, 12 miles
4 southwest of Asheboro. — (

5—
6 Quartz veins in slate and acid tuff were seen. The mine was
7 worked in 1909 and in 1932, when ore was taken from one hole 15 feet
8 in diameter. The mine is said to have been salted.

9
10— References: C. B. Brown, 1934, written communication;
11 Pardee and Park, 1948, p. 64.

12
13
1 Hill mine

2 Type: Gold

3 Location: Rowan County, southwest of Salisbury, east of the Southern
4 Railroad.

5—
6 Reference: Nitze and Hanna, 1896, p. 117.
20—
21
22
23
24
25—

1 Hipps (Hipp) mine

2 Type: Gold

3 Location: Mecklenburg County, 7 miles northwest of Charlotte, 0.3 miles
4 south of Trinity Church on McIntyre Branch.

5-
6 A quartz vein one to two feet thick carrying gold, pyrite, and
7 chalcopryite occurs in soft ferruginous decomposed slate and syenitic
8 granite. Numerous shafts, pits, and open cuts were made in an east-
9 west direction along a ^lbeet nearly one-quarter mile long.

10-
11 References: Genth and Kerr, 1881, p. 111;

12 J. V. Lewis, 1934, written communication;

13 Mining Magazine, 1853, ^{1st ser.} v. 1, no. 6, p. 593;

14 Pardee and Park, 1948, p. 63.

15-
1 Hodge (Hedge) mine

2 Type: Gold

3 Location: Burke County, about 3 1/2 miles north of Pilot Mountain, on
4 Silver Creek.

5-
6 Placer deposits were mined along the creek bottoms. A number of
7 prospect pits were sunk in 1894 in garnetiferous sillimanite schist
8 containing secondary quartz which was mistaken for gold ore. It was
9 found to contain only traces of gold and not more than 1 ounce of
10- silver per ton.

11
12 References: Bryson, 1930, p. 17;

13 Nitze and Hanna, 1896, p. 165.

9. 1287

Hodges (Hodgins) Hill mine

1 Type: Gold

2 Location: Guilford County, 6 miles south of Greensboro and about
3 2 miles east of the Fisher Hill mine. —
4

5- Gold with chalcop^yrite occurred in a heavy flat lying quartz
6 vein from 6 inches to 12 feet in width in granite country rock. The
7 vein has furnished many fine quartz crystals. Other minerals in the
8 vein are pyrite, sider^rite, limonite, manganese oxides, malachite, and
9 red copper oxide. The mine has^d been abandoned for some time before
10- 1856. Pits were sunk along the outcrop for a distance of 800 to
11 900 feet.
12

13 References: Bryson, 1936, p. 105;

14 Emmons, 1856, p. 173;

15- Kerr and Hanna, 1888, p. 205-206, 278;

16 Nitze and Hanna, 1896, p. 110;

17 Nitze and Wilkens, 1897, p. 45;

18 Pardee and Park, 1948; p. 62.
19
20-
21
22
23
24
25-

1 Hoke mine

2 Type: Gold

3 Location: Lincoln County, 4 miles southeast of Lincolnton.
4

5 Before 1888 the mine had been opened to a depth of 110 feet and
6 drifts were run for some length.
7

8 References: Kerr and Hanna, 1888, p. 306;

9 Nitze and Hanna, 1896, p. 150.
10

11
1 Holland mine

2 See Eddleman mine, Gaston County.
3
4
5
6
7
8
9
10
11
12
13
14

1 Holland prospect

2 Type: Tin

3 Location: Gaston County, about 1 mile south of the Jones mine.
4

5 Cassiterite occurs in greisen gangue in muscovite schist and
6 gneiss.
7

8 Reference: Kesler, 1942, table 18.
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Holloway mine

Type: Copper

Location: Granville County, 3 miles south and 1 mile west of Virgilina; 1 mile east of Crooked Creek and approximately 2 miles west of Aaron's Creek.

Two veins were traced in schistose tuffaceous and porphyritic Virgilina greenstone. The principal vein trends N.15°W. and cuts the schistosity of the country rock at an angle of 45°. The richest ore occurred in 2 shoots which together were about 300 feet long, 5 to 100 feet wide, and which extended to a depth of at least 450 feet from the surface. The ore minerals were chalcocite intergrown with bornite, and malachite, azurite, argentite(?), cuprite, native copper, and native silver in a gangue of quartz, epidote, chlorite, hematite, and pink feldspar. Copper carbonate stains were discovered by William S. Holloway while plowing on his farm in 1880. He ^asunk a test pit to a depth of 15 or 20 feet, exposing promising rock. In 1884 the mine was sold to Judge A. W. Graham; in 1885 first to McPherson and Heitman and later to Ragan and Gaither, and in 1887 to William M. Pannebaker. He sold one-half interest to W.E.C. Eustis in 1897. It was at this time that the actual development of the mine began. Five shafts were sunk, one to a depth of 440 feet, and ore was shipped until March, 1903. In 1905 Philadelphia parties, backed by Harrisburg politicians, partially reopened the mine but trouble arose for the backers and the work was soon discontinued.

1 The dump was sold for use as macadam and railroad ballast in 1909.
 2 The production of the mine is estimated at approximately 45,000 tons
 3 of 6% copper ore.

4
 5- References: Kerr and Hanna, 1888, p. 217;

6 A. R. Kinkel, Jr., 1960, written communication;

7 Laney, 1917, p. 114-124;

8 Weed, ^{1900, p. 458-461;} 1911, p. 79-81.

9 { Stuckey, 1965, p. 288;

1 Holshouser (Holtshauser) mine

2 See Bame mine, Rowan County.

13 Holt mine

1 Type: Gold

2 Location: Alamance County,

3
 4 Reference: Genth and Kerr, 1881, p. 91.

1 Hood mine

2 Type: Gold

3 Location: Mecklenburg County; 2 miles southwest of Mint Hill.

4
 5- Reference: Pardee and Park, 1948, p. 63.

1 Hopper Branch prospect

2 Type: Copper

3 Location: Jackson County, about $\frac{1}{2}$ mile southwest of the Wayehutta
4 mine, near the head of a gully.

5-
6 Coarse, massive feldspar-garnet-biotite gneiss with disseminated
7 pyrrhotite was seen on the dump. No massive sulfides were observed.

8 An open cut or tunnel, 30 to 40 feet long, was dug many years ago.

9
10- Reference: G. H. Espenshade, 1944, written communication.

11 Hoover mine

1 Type: Lead

2 Location: ^D Davidson County, 2 miles south of the Boss mine. —

3
4 Coarse, crystalline galena was found in a quartz vein in
5- limestone which dwindled out at ^{a depth of} 10 feet. ~~depth~~

6
7 Reference: Emmons, 1856, p. 209.

8
20- Hoover mine

1 Type: Gold.

2 Location: Guilford County,

3
4
5- Reference: Pardee and Park, 1948, p. 63.

1 Hoover (Rhyne) mine

2 Type: Gold

3 Location: Mecklenburg County, $\frac{1}{2}$ mile southwest or 2 miles southeast
4 of Mt. Holly, at Paw Creek.

5-
6 *This mine was*
7 *known as Dr. Strong's old gold mine in a zone of diorite.*

8 Several shafts, pits, and open cuts expose rusty, cellular quartz
9 veins.

10- Reference: J.V. Lewis, 1934, written communication;
11 Pardee and Park, 1948, p. 63.

12
1 Hoover, Bob, mine

2 Type: Gold

3 Location: Mecklenburg County, 2 miles northwest of Pineville.
4

5- Reference: Pardee and Park, 1948, p. 63.

6
7
8
9
10-
1 Hoover, Jas. (McCall) mine

2 Type: Gold

3 Location: Mecklenburg County, $8\frac{1}{2}$ miles northwest of Charlotte.
4

5- Prospecting was done at this mine in the 1930's by the Stark
6 Gold Mining Corp.

7
8 References: Bryson, 1937, p. 16, 27;
9 Pardee and Park, 1948, p. 63.
10-

1 Hoover Hill mine

2 Type: Copper

3 Location: Randolph County, about 17 miles southeast of High Point on
 4 the east side of the ^wUharia^r ^eRiver, and 12 miles northwest of
 5- Asheboro. — (

6
 7 The country rock is dark-gray devitrified rhyolite of the
 8 volcanic series containing phenocrysts of glassy quartz and
 9 dull white feldspar. Pyrite is ^ocommon accessory mineral. Free-
 10- milling gold and sulfide minerals are contained in a multitude of
 11 quartz seams ramifying in all directions through sheared and
 12 brecciated zones in the rhyolite. The principal ore body is the
 13 Briols shoot, which was 70 feet long and 12 feet wide at a depth of
 14 350 feet, and assayed \$8 to \$10 per ton. Six other orebodies were
 15- also worked.

16 The deposit was discovered by Joseph Hoover in 1848. Shortly
 17 thereafter it was sold to McDowell, Woodfin, and Avery, who worked
 18 the mine for several years, and leased parts of it to tributors..
 19 After a long period of idleness the mine was bought by the Hoover
 20- Hill Gold Mining Co., Ltd., of London, in 1881. This company erected
 21 a 20-stamp mill, and worked the mine until 1885. L. A. Briols bought
 22 the mine in 1907. Ore was produced in 1914 and 1917, but after 1922
 23 the mine was allowed to flood. The Briols gshaft was 350 feet deep
 24 with levels at 70, 130, 170, 230, 300, and 350 feet. The Hawkins
 25- gshaft and the Gallimore gshaft also entered the mine. From May 1881

Hoover Hill mine (con't.)

1 to June 1895 the output of the mine amounted to \$300,000; the output
 2 ^{during} ~~of~~ the period 1848 to 1881 is estimated at \$50,000. In 1936 the
 3 Keystone Mining Company was planning to unwater the mine shafts and
 4 use the water to hydraulic the hillsides.

5- References: C. B. Brown, 1934, written communication;

6 Bryson, 1936, p. 69;

7 Kerr and Hanna, 1888, p. 256-257;

8 Nitze and Hanna, 1896, p. 56-57;

9 Nitze and Wilkens, 1897, p. 47;

10- Pardee and Park, 1948, p. 85-86.
 11

12 Hopewell (Kerns, Kearns) mine

1 Type: Gold, copper

2 Location: Mecklenburg County, 10 or 11 miles northwest of Charlotte. (

3
 4
 5- Gold, pyrite, chalcopryite, and chrysocolla were carried in a
 6 vein 2 feet in thickness which assayed 12 to 18 percent copper and up
 7 to \$17.00 per ton in gold. The last known work was done in the 1870's
 8 or 1880's to a depth of 140 feet.

9
 10- References: Bryson, 1936, p. 122;

11 Genth and Kerr, 1881, p. 110-111;

12 Kerr and Hanna, 1888, p. 209;

13 Nitze and Hanna, 1896, p. 139;

14 Pardee and Park, 1948, p. 63.

1 Hopkins, Dan, (Hopkins No. 2) mine

2 Type: Gold

3 Location: Cabarrus County, 5 miles north of Mount Pleasant; near
4 Crossroads; $1\frac{1}{2}$ miles north-east of the Cline mine.

5-
6 Gold-bearing pyrite with chalcopryrite occur in a gangue ^{of} quartz,
7 calcite, siderite, and specular hematite in diorite country rock
8 near its contact with greenstone. The mine was worked in the
9 1890's. Several old pits were seen in 1934.

10-
11 References: C.B. Brown, 1934, written communication;

12 Laney, 1910, p. 113;

13 Pardee and Park, 1948, p. 62.

1 Hopkins No. 1 mine

2 Type: Gold

3 Location: Cabarrus County, 3 miles north of Mount Pleasant, near
4 Foil's Mill, in the Gold Hill district.

5-
6 Gold-bearing quartz-epidote fissure - veins similar to the
7 Virgilina type occur in sheared and altered greenstone country
8 rock of mafic volcanic origin. Ore minerals are bornite, and
9 chalcocite, with very little chalcopryrite, or pyrite. The prospect
10- is considered to be unpromising.

11
12 References: C.B. Brown, 1934, written communication;

13 Laney, 1910, p: 112-113;

14 Pardee and Park, 1948, p. 62.

1 Hopkins No. 2 mine

2 See Hopkins, Dan, mine, Cabarrus County.

3

1 Hornbuckle prospect

2 Type: Copper

3 Location: Jackson County, In a belt of copper
 4 localities including Shell Ridge, Wayehutta, and Buck Knob

8

16 Reference: Smith, 1875, p. 113.

17

10-
 1 Honey Ridge mine

2 See Aberdeen mine, Guilford County.

13

1 Horse Cove placer

2 see Ammons Branch ~~gl~~acer, Macon County

16

1 Horton, J. C., shaft (Chestnut Hill vein)

2 Type: Tin

3 Location: Gaston County, about 1 mile south of the Ormond-Carr
 4 prospect, and east of the summit of Chestnut Ridge.

5-

6 Cassiterite occurs in muscovite schist and gneiss. A 122-foot
 7 shaft was sunk on the vein, which was reported to be 7 feet wide
 8 at 100 feet depth. The work was done in the 1890's by Mr. J. C.
 9 Horton.

10-

11 Reference: ⁵Kesler, 1942, table 18; Pratt and Sterrett, 1904, p. 28.

1 Horwitz mine

2 Type: Gold

3 Location: Guilford County, 5 miles southeast of Greensboro.

4

5- Reference: Pardee and Park, 1948, p. 63.

6

1 House mine

2 see Hauss mine, Lincoln County (

3

10-

1 House (McGrew) mine

2 Type: Gold

3 Location: Randolph County, 1 3/4 miles south of Asheboro. —

4

5- White vein quartz containing a few pyrite casts was seen in
6 quartz sericite phyllite schist. The mine was worked around 1925.
7 The main shaft was said to be 90 feet deep. A cross-cut connected
8 this with another shaft at the north end.

9

10- References: C. B. Brown, 1934, written communication;

11

Pardee and Park, 1948, p. 64.

22

1 House property

2 See H and H mine, Halifax County

3

25-

1 Hovey mine

2 Type: Gold

3 Location: Mecklenburg County, $\frac{1}{2}$ mile south of the Capps mine,
4 on the south bank of a small stream.

5-
6 Heavy white quartz veins carrying gold outcrop in sheared
7 sericitic granite. A tunnel on the south bank of the stream and
8 several pits and open cuts were seen in 1934. Another tunnel to the
9 north on King's property was part of the original Hovey mine. Surface
10- workings extending ^{for} ~~on~~ $1\frac{1}{2}$ miles indicate a lode trending north to
11 slightly northeast worked in both the Hovey and McGinn mines.

12
13 References: J.V. Lewis, 1934, written communication;
14 Pardee and Park, 1948, p. 63, 77.

1 Hovis, M. V., prospect

2 Type: Tin

3 Location: Gaston County, $1\frac{2}{3}$ miles N. 12° E. of Long Creek Church.
4

5- Cassiterite is found in loose crystals and in small boulders
6 of greisen scattered over a field. The country rock is hornblende
7 schist. A 35-foot shaft was inaccessible in 1942.

8
9 References: Keith and Sterrett, 1918, p. 143;
10- Kesler, 1942, table 18;
11 Pratt and Sterrett, 1904, p. 28-29.

1 Howard mine

2 Type: Gold

3 Location: Rowan County, 8 to 10 miles east of Salisbury;

4
5- Reference: Kerr and Hanna, 1888, p. 282.
6
7
8

1 Howard Creek placers

2 Type: Gold

3 Location: ^WWatanga County, along Howard Creek, about 2 miles north of
4 Boone.

5-
6 Gold-bearing gravels along Howard Creek on a plateau of about
7 3550 to 3600 feet elevation were mined.
8

9 References: Keith, 1903, p. 8;

10- Pardee and Park, 1948, p. 65.
11
20-
21
22
23
24
25-

1 Howell mine

2 Type: Gold

3 Location: Mecklenburg County, the southern extension of the Rudisil
4 lode, near the city limits of Charlotte.

5--
6 Sulfides and brown oxidized ores occur in a vein 2 to 4 feet
7 wide which has been worked to a depth of 32 feet with more than
8 50 feet of levels.

9
10-- References: Bryson, 1936, p. 117;

11 Kerr and Hanna, 1888, p. 293;

12 Nitze and Hanna, 1896, p. 131;

13 Pardee and Park, 1948, p. 63.

1 Howie (Colossus, Lawson) mine

2 Type: Gold

3 Location: Union County, 3 miles northeast of Waxhaw and 1 mile
4 southwest of the Bonnie Belle mine. In 1854 the Lawson mine
5- was separated from the Howie by a plumb line, for they were
6 apparently two sides of the same vein.

7
8 The country rock is a fine-grained gray schist of the slate
9 series, intruded along fractures by basic and aplitic dikes, and
10- decomposed to saprolite to a depth of 50 feet or more. The ore lode
11 is an indefinitely bounded zone in which the schist has been largely
12 replaced by fine-grained quartz, pyrite, pyrrhotite, and gold, and
13 extends for more than 2,800 feet parallel to the foliation of the
14 schist. In the weathered zone the lode consists of light brown soft
15- rock with ribs of hard, sugary quartz parallel to the foliation; the
16 unaltered ore is a hard, flinty rock with bands of quartz and chlorite
17 or biotite. The ore bodies are tabular or cylindrical parts of the
18 lode where the gold-bearing seams are rich enough to make the ore
19 workable. The mine was discovered before 1840 as a result of placer
20- mining. In 1854 the mine was taken over by Commodore Stockton, who
21 operated it until the Civil War. It was operated from 1885-1890 by
22 a Mr. Reeves. It was purchased in 1890 by Isaac and John Bates who
23 operated the old mill for a short time. In 1894 Callow and Gayford
24 erected a cyanide plant and did considerable development work. They
25- were succeeded in about 1904 by the Colossus Gold Mining and Milling

1 Company, which built a 500-ton cyanide plant. The Howie Mining
 2 Company operated the mine from 1913-1917. In 1934 the Condor Consoli-
 3 dated Mines, Ltd. of Canada, took over the mine, unwatered old shafts
 4 and drifts and explored the mine by core drilling, which revealed
 5 approximately 70,000 tons of ore averaging \$15 per ton. The workings
 6 consist of the Cureton shaft, 355 feet deep; and the Bull Face, Old
 7 Neddy, New Neddy (Nettie), Pansy, Bracy, Nigger, and William shafts.
 8 The Howie, together with the Wyatt, Bonnie Belle, and Penman mines,
 9 makes up the "Grand Union Gold Mine." It was estimated in 1934 that
 10 the gross production of gold had been 50,000 ounces.

11
 12 References: Bryson, 1936, p. 99-102;
 13 Bryson, 1937, p. 18;
 14 Emmons, 1856, p. 133;
 15 Graton, 1906, p. 87-89;
 16 Kerr and Hanna, 1888, p. 261-262;
 17 Lieber, 1858, p. 56-57;
 18 Mining Mag., ^{1854,} 1st ser., v. 2, ^{no. 1,} p. 70; ~~1854,~~
 19 Nitze and Hanna, 1896, ^{f,} 104-106;
 20 Nitze and Wilkens, 1897, p. 63;
 21 Pardee, F. C., 1934, written communication;
 22 Pardee and Park, 1948, p. 97-101.

1 Hudson mine

2 Type: Gold

3 Location: Guilford County.

4
 5 Reference: Pardee and Park, 1948, p. 63.

1 Hunnicutt (Union Copper) Mine

2
3 Type: Gold, copper

4 Location: Rowan - Cabarr^uies County, ^{line} southwest of the Old Field
5- Mine. =>

6 Low-grade silicified copper ore occurs in quartz
7 and in altered schists in a fault zone parallel to the
8 Gold Hill fault. The ore minerals are chalcopyrite,
9 pyrite, galena, and sphalerite, with a small amount
10- of gold. The ore averaged $1\frac{1}{2}$ to 3 percent copper.
11 The vein was discovered in 1842. The mine was most
12 active from 1899 to 1906. The main shaft was 600 feet
13 deep, in an ore thbody 130 feet long and 40 feet wide
14 near the surface. The mine produced 5,000,000 pounds
15- of copper and \$375,000 in gold at \$20.67 per ounce.
16 The oxidized zone yielded \$300,000 in gold.

17 References: *Ballard and Clayton, 1948, 9 p;*
18 Genth and Kerr, 1881, p. 96;
19 Laney, 1910, p. 107;
20 Nitze and Hanna, 1896, p. 88;
21 Pardee and Park, 1948, p. 87, 7;
22 *Stuckey, 1965, p. 291-292.*
23
24
25-

1 Hunt mine

2 Type: Gold

3 Location: Davidson County, 2 1/2 miles southwest of Silver Hill.

4 Continuous with the Peters and Cross mines and between them.

5-
6 A quartz vein occurs in sericite schist. A line of old workings
7 was seen in 1934, including a 30-foot shaft and 2 pits.

8
9 References: C. B. Brown, 1934, written communication;
10 Pogue, 1910, p.

11
1 Hunter (Dr. Hunter) mines

2 Type: Gold

3 Location: Mecklenburg County, 5 1/2 miles southeast of Charlotte, near
4 Sardis church.

5-
6 Gold and silver were noted in the ores. There were two well-
7 known veins, and outcroppings of several others. There is no record
8 of the amount of work done at this mine.

9
10 References: Kerr and Hanna, 1887, p. 301;
11 Nitze and Hanna, 1896, p. 143;
12 Pardee and Park, 1948, p. 63.

1 Hunter, A.H., mine

2 Type: Gold

3 Location: Mecklenburg County, at Huntersville, 16 miles north of
4 Charlotte,

5-
6 A vein carrying gold and pyrite with a promising exposure was
7 explored to a depth of 23 feet.

8
9 References: Genth and Kerr, 1881, p. 111;

10- Kerr and Hanna, 1888, p. 303.

11
1 Hunter John P., (Elwood) mine

2 Type: Gold

3 Location: Mecklenburg County, 4 miles northeast of Charlotte, and
4 1 to 2 miles southwest of the Henderson mine.

5-
6 One of 5 veins indicated by outcrops and float ore was
7 prospected to a depth of 25 feet. The Elwood vein, 3/4 mile
8 to the west, was opened before the Civil War by several shallow
9 pits and shafts.

10-
11 References; J.V. Lewis, 1934, written communication;

12 Nitze and Hanna, 1896, p. 142;

13 Pardee and Park, 1948, p. 63.

25-

1 Hunter, S.H., mine

2 Type: Gold

3 Location: Mecklenburg County.

4
5- Reference: Pardee and Park, 1948, p. 63.

6
1 Hunts Mountain mine

2 Type: Gold

3 Location: Burke County.

4
5- Reference: Pardee and Park, 1948, p. 62.

13
1 Hunt's Mountain (Huntsville) mine

2 Type: Gold

3 Location: McDowell County, the northern end of the Vein Mountain

4 ~~Mine~~ tract of 6,800 acres extending up the valley of Second

5- Broad River to Huntsville Mountain.

6
7 See Vein Mountain mine for description of geology.

8
9 References: Cameron, 1893, p. 308;

10- Kerr and Hanna, 1888, p. 314;

11 Pardee and Park, 1948, p. 63.

Ida mine

1 Type: Gold

2 Location: Davidson County, 1 1/4 miles northeast of the Silver Hill
3 mine.
4

5- A white bull quartz vein in sericite schist carried some pyrite.
6 Pyrite also was disseminated through the schist.
7

8 References: C. B. Brown, 1934, written communication;
9 Pogue, 1910, p. 108
10-

11
12
Idler mine

1 See Alta mine, Rutherford County (
2

16
17
Ingram mine

1 See Crawford mine, Stanly County'
2
20-

Iola mine

Type: Gold

Location: Montgomery County, 2 miles northwest of Candor. —

The lode is at the eastern margin of the volcanic series and passes under a cover of later sediments which conceals the outcrop. The ore occurs in quartz veins, lenses, and stringers, and as pyritic mineralized zones in schist, striking N.55°E, and dipping 45° to 50° NW. One ore shoot was 100 to 150 feet long and 350 feet deep. In one place along the lode a vein of sugary white quartz 8 feet wide assayed \$30 per ton in gold. The ore averaged 1.50 ounces per ton of gold. The lode was traced to the northeast through the Martha Washington and Montgomery (Uwarra) mines.

The mine was discovered in 1900 and named in honor of the lady who financed the early efforts of the mine and who bore the euphonious name of Iola Oyster. The mine was owned by the Iola Mining and Milling Company through 1910 and produced nearly a half million dollars.

The early success of the Iola mine gave rise to a mild boom in the Candor district, which resulted in the discovery of other veins and the opening of several other mines including the Montgomery ~~and Uwarra~~ (Uwarra), Martha Washington, Golconda, and Curry.)

In 1907 ^{the lode} ~~it~~ was opened by a 320-foot shaft with many levels and a 170 foot ^{ft.} inclined shaft. (The old Iola mill

7 was destroyed by fire in 1910. A new mill, owned by the Candor Mines
 8 Company, of Candor, N.^C.D., was built in 1911 and operated through 1915.
 9 This mill used the "all-sliming" process and had the distinction of
 10- having the heaviest stamps in the United States. In 1912 the mine
 11 shipped 40 to 50 pounds of gold bullion semi-monthly to the mint,
 12 and was the largest gold producer east of the Black Hills. During
 13 the years of its operation, from 1902 through 1915 it is estimated
 14 that the Iola mine produced \$900,000. Some ^d development work was
 15- done in the 1930's but the results were not favorable.

16
 17 References: Bryson, 1936, p. 31-37; 77;
 18 Bryson, 1937, p. 25;
 19 Lyon, E. W., 1909, p. 295;
 20- Pardee and Park, 1948, 82-83;
 21 Pratt, 1904, p. 14-15;
 22 Pratt, 1907, p. 50-51;
 23 Pratt, 1914, p. 22, 26-38.

18
 19
 1 Isaac Allen mine

2 Type: Gold

3 Location: Davie County, one mile northwest of ^CMoksville. —

4
 5- References: Kerr and Hanna, 1888, p. 307;

6 Nitze and Hanna, 1896, p. 151.

1 Isenhour mine
See Whitney Group, Cabarrus County

2 Type: Gold, silver

3 Location: Cabarrus County, several hundred yards S.33°W, from the
4 Mauney mine.

5-
6 The mine was worked to a small extent in the 1890's.

7
8 Reference: Nitze and Hanna, 1896, p. 91.

9
1 Isenhour (Yellow Dog) mine

2 Type: Gold

3 Location: Mecklenburg County, at the southern end of the Rudisil
4 lead, at the east end of Atherton St., 2 miles south of the
5- "square" in Charlotte.

6
7 A 4-foot wide vein of honeycombed quartz occurs in feldspathic
8 granite and black, micaceous slate. In 1906 an old caved shaft was
9 reopened to a depth of 170 feet by Mr. Max Jasspon. A 5-stamp mill
10- was operated for a short time by the Yellow Dog Company in 1906 and
11 between 300 and 350 tons of ore were milled.

12
13 References: J. V. Lewis, 1934, written communication;

14 Kerr and Hanna, 1888, p. 293;

15- Pardee and Park, 1948, p. 63;

16 Pratt, 1907, p. 68-69.

1 Island Creek mine

2 Type: Gold

3 Location: Montgomery County, on the west flank of the ^WUchar^rie
 4 ^{the southside of Big} Mountains, on [^]Island Creek, approximately 0.1 mile east of the junction
 5- of Big Island Creek with the Pee Dee River.

6 This was a placer mine in gravel underlying saprolite. Mining
 7 was hindered by the scarcity of water and by the tenacious nature of
 8 the saprolite.

9
 10- References: Bryson, 1936, p. 78;

11 Conley, 1962, p. 18;

12 Kerr and Hanna, 1888, p. 248;

13 Nitze and Hanna, 1896, p. 80;

14 Nitze and Wilkens, 1897, p. 52;

15- Pardee and Park, 1948, p. 63.

Jacks Hill mine

Type: Gold, copper \

Location: Guilford County, about 1/3 mile north of the North State mine. —(

This mine is on the same northeast-southwest trending quartz vein as the North State mine. The vein is described under that mine. The mine was opened before the Civil War and was developed by a 77-foot inclined shaft which cut a 17-foot vein.

References: C. B. Brown, 1934, written communication;

Emmons, 1856, p. 171;

Kerr and Hanna, 1888, p. 207;

Nitze and Hanna, 1896, p. 115;

Nitze and Wilkens, 1897, p. 46;

Pardee and Park, 1948, p. 76.

Jackson mine

Type: Gold

Location: Moore County, 7 miles northeast of Carter.

Reference: Pardee and Park, 1948, p. 64.

1267

1 Jake open cut

2 Type: Tin

3 Location: Lincoln County, part of the Ka-Mi-tin mine

4

5- Cassiterite occurs in greisen gangue in muscovite schist and
6 gneiss. The ore body is 6 inches thick^K and 10 feet long and is
7 conformable with the wall rocks.

8

9 Reference: Kesler, 1942, table 18.

10- Jenkins mine

1 See Dry Hollow mine, Moore County

13

1 Jenkins Farm, Stroup, and Rayfield prospects

2 Type: Tin

3 Location: Gaston County, about 1/2 mile southwest of the Hastings
4 prospect, and 2-1/2 miles S. 60° W. of Landers Chapel.

5-

6 Cassiterite in greisen gangue and in pegmatite was found in
7 muscovite schist and gneiss and hornblende gneiss country rock.

8 Five ore bodies were located within a radius of 800 feet in the
9 vicinity of the Jenkins farm. This location is very near the prospect
10- pits opened in 1904 on the boundary line between the properties of
11 Nora Rayfield and John Stroup.

12

13 References: Keith and Sterrett, 1918, p. 145;

14 Kesler, 1942, table 18.

1 Johnson mine

2 Type: Gold

3 Location: Mecklenburg County, near the Cabarrus County line and
4 Pioneer Mills.

5-

6 The ore carries gold and pyrite. This is one of the Pioneer
7 Mills group of mines and it is similar to that mine.

8

9 References: Genth and Kerr, 1881, p. 111;

10- Kerr and Hanna, 1888, p. 302;

11 Nitze and Hanna, 1896, p. 144;

12 Pardee and Park, 1948, p. 63.

13

Johnson mine

1

2 See Porter mine, Randolph County

2

17

18

19

20-

21

22

23

24

25-

1 Jones mine

2 Type: Tin

3 Location: Gaston County, 7 miles northeast of Kings Mountain and
4 $3\frac{1}{2}$ miles N. 30° W. of Bessemer City, on the John E. Jones
5- plantation.

6
7 Cassiterite occurs in feldspathic gangue in pegmatite and in
8 greisen gangue in hornblende gneiss country rock. A few shallow
9 pits were made in 1892 and 1893. In 1903 development work was
10- begun by the Carolinas Tin and Development Co., which sold the
11 property to the Carolina Tin Co. in 1904. By 1906 there was a
12 175-foot vertical shaft with 500 feet of underground workings and
13 a concentrating mill. Two pegmatite dikes 100 yards apart were
14 explored.

15-
16 References: Graton, 1906, p. 46-48;

17 Keith and Sterrett, 1918, p. 144-145;

18 Kesler, 1942, table 18;

19 Pratt, 1907, p. 20;

20- Pratt and Sterrett, 1904, p. 29-30;

21 *Stuckey, 1965, p. 335.*

22 ✓

23

24

25-

1 Jones (H and G, Asheboro, County Home) Mine

2 Type: Gold

3 Location: Randolph County, 2 to 2½ miles south of Asheboro ()

4
5- Placer material consisting of decomposed
6 ferruginous sericite schist derived from fine acid
7 tuff is impregnated with sulfides and free gold for a
8 depth of 2 to 4 feet below the surface. Below this
9 the ore is in a vein about 20 feet wide in schist. In
10- the 1890's placer mining was done and several pits and
11 shafts were put down. A 10-stamp mill treated the ore.
12 The mine was worked again in about 1910. In 1936
13 E. B. Hendricks (Hedrick?) and H. L. Griswald of
14 Asheboro erected a washing plant of 10 tons capacity,
15- operating on ore from the vein, which averaged about
16 \$5 per ton in gold.

17 References: C. B. Brown, 1934, written communication;
18 Bryson, 1937, p. 21;
19 Pardee and Park, 1948, p. 64.

20- Jones mine

1 Type: Gold

2 Location: Rutherford County, 1

3
16 Reference: Pardee and Park, 1948, p. 65.

1 Jones-Boy Scout Mine

2 Type: Molybdenum

3 Location: Halifax County, 2 miles south of Brinkleyville on
4 N. C. Highway 48, then west on a paved road for 1.1
5 miles, then north to the end of a dead-end secondary
6 county road for 0.8 mile. — (

7
8 Molybdenum occurs associated with a small granite
9 body about 2 miles long and is most highly concentrated
10 in a series of northwest-trending quartz veins in the
11 granite, although minor amounts are present in northeast-
12 trending veins in the adjacent schist. Molybdenite is
13 associated with pyrite, chalcopyrite, and sericite. The
14 sulfides have been leached out of the quartz adjacent to
15 cracks and fissures from the surface to a depth of 1 to
16 2 feet; molybdite has been deposited along the cracks,
17 and secondary chalcocite and covellite are found
18 coating pyrite. Small amounts of rhenium were found in
19 the ore. The deposit was discovered in 1935 and during
20 the next few years the veins were prospected by trenches,
21 pits, and a 30-foot shaft. In 1943, 1944, and 1946 the
22 U. S. Bureau of Mines explored the deposits by trench-
23 ing and drilling, and estimated that the deposits con-
24 tained 549,300 tons of inferred ore of 0.45 percent
25 MoS_2 . There has been no record of production.

1 References: Broadhurst, 1955, p. 23-24;

2 Conley, 1958, p. 35;

3 Hafer, 1942, p. 83;

4 Julihn and Moon, 1945, p. 32;

5- Koschmann, 1943, p. 1-10;

6 Murdock, 1950, p. 15-16;

7 Robertson, McIntosh, and Ballard, 1947, p. 91;

8 Stuckey, 1965, p. 326-327.

9

10-

11

12

13

14

15-

16

17

18

19

20-

21

22

23

24

25

Jones-Keystone mine

1 Type: Gold

2 Location: Randolph County, 18 miles east-southeast ^{of} (from) Lexington and
 3 12 miles south-southeast ^{of} (from) Thomasville, or 12 miles west of
 4 Asheboro, on the west side of the U^har^rie River, opposite the
 5- Hoover Hill mine.

6
 7 The country rock is a brecciated porphyritic schist derived
 8 from tuffs of the volcanic series, more or less altered to saprolite.
 9 Silicified and iron-rich zones of decomposed rock containing pyrite
 10- constitute the ore body, and gold is more or less distributed through-
 11 out the decomposed rock, but is more richly concentrated in belts.
 12 Two of these gold-bearing belts are described as being 50-feet and
 13 110-feet wide respectively. A grab sample of the ore taken in 1934
 14 assayed 0.04 ounce of gold per ton. Some specimens of ore are
 15- composed largely of pyrophyllite. The ore body was described by
 16 Emmons in 1856 as "a mass of soft reddish talcose slate" through which
 17 gold was disseminated.

18 The principal workings are two large open-pits and several
 19 shafts of unknown depth. In 1852 the mine was in active operation
 20- and was equipped with a 40-stamp mill, probably one of the first in
 21 North Carolina. The recovery was said to be very low because much of
 22 the gold was exceedingly fine. The mine was closed during the Civil
 23 War, but was reopened in the late 1870's and operated for short
 24 periods in 1880, 1884, 1894, 1895, 1896, and 1903. In 1896 the
 25-

1 40-stamp mill from the Coggins mine in Montgomery County was moved
2 to the Jones mine. Between 30,000 and 40,000 tons of material ha^v
3 been removed from the pits. If all of this material was milled the
4 total production was about 5,000 of gold. As depth was reached and
5- sulfides were encountered, the value of the ore apparently decreased,
6 and the mine was abandoned. Bryson reported that around 1936 the
7 mine was operated by the Keystone Mining Company on ore averaging
8 \$3.00 per ton. At that time a 200-ton mill was erected on the
9 property and several hundred tons of ore were treated.

10-
11 References: G. B. Brown, 1934, written communication;

12 Bryson, 1936, p. 69-70;

13 Bryson, 1957, p. 21;

14 Emmons, 1956, p. 131-132;

15- Kerr and Hanna, 1888, p. 254-256;

16 Nitze and Hanna, 1896, p. 57-29;

17 Nitze and Wilkens, 1897, p. 47, 53;

18 Pardee and Park, 1948, p. 86-88.

1 Jordan mine

2 Type: Gold

3 Location: Mecklenburg County.

4

5- References: Genth and Kerr, 1881, p. 111;

6 Pardee and Park, 1948, p. 63.

7

8

1 Juggernaut mine

2 Type: Gold

3 Location: Mecklenburg County, 7-3/4 miles west of Charlotte..

4

5- Gold and pyrite were noted in the ore.

6

7 References: Genth and Kerr, 1881, p. 111;

8 Pardee and Park, 1948, p. 63.

9

18

19

20-

21

22

23

24

25-

1 Ka-Mi-Tin mine

2 Type: Tin

3 Location: Lincoln County, starting about 2 1/2 miles southeast of Lincolnton
4 and extending for about 2 1/2 miles southwest to the South Fork
5- River.

6
7 Cassiterite occurs in numerous small tabular and lenticular ore bodies
8 in feldspathic pegmatite and greisen gangue in muscovite schist and
9 gneiss and hornblende gneiss country rocks.

10- In 1905 the Piedmont Tin Mining Company began developing the deposits
11 in the area southeast of Lincolnton, concentrating mainly on the main
12 shaft mine to the north, where two shafts, 102 feet and 40 feet deep,
13 were sunk, with 1,319 feet of underground workings, and the Henry
14 shaft mine, one mile southwest of the Main Shaft mine, where a 60-foot
15- shaft was sunk. No substantial amount of ore was developed during these
16 operations. In 1932 the properties were owned by the American Consolidated
17 Tin Mines Corp., and in 1935-1937 and 1942 the property was developed
18 by the Ka-Mi-Tin Concentration^{ing} Corp. the production, if any, was small.
19
20-
21
22
23
24
25-

1 The names of the openings and shafts included in the two-mile
2 stretch of property are from northeast to southwest:

3 Carpenter Shaft

4 Copperhead Shaft

5- Reep Shaft

6 Jake Shaft

7 Main Shaft

8 Condon Shaft

9 Swamp Shaft #1

10- Henry Shaft

11 J. Mostellar Shaft

12 Old Well Shaft

13 Upper Mostellar Shaft

14 J. E. Gates Shaft

15- Most of these are described separately.

16
17 References: Kesler, 1942, 245-269;

18 Pratt, 1907, p. 20-22.

19
20
21 Kearney mine

22 Type: Gold

23 Location: Halifax County, near the Portis mine;

24
25- References: Bryson, 1936, p. 63;

26 Kerr and Hanna, 1888, p. 241;

27 Nitze and Hanna, 1896, p. 27;

28 Nitze and Wilkens, 1897, p. 43.

1 Kerns or Kearns mine

2 See Hopewell mine, Mecklenburg County.

3
1 Kimball Hill mine

2 Type: Gold

3 Location: Stanly County, 2 miles northeast of New London, northeast
4 of Bethel Church on Tanyard Branch, and less than 1 mile east of the
5- Crowell Mine.

6 A quartz vein, 4 to 6 inches wide, carried coarse gold in pockets,
7 in andesite country rock, The mine is said to have been worked before
8 the Civil War. W. L. Cotton operated the mine in 1910, and the
9 Lowder Brothers worked it in 1933. The workings include 3 shafts
10- and a 60-foot tunnel.

11
12 References: C. B. Brown, 1934, written communication;

13 Pardee and Park, 1948, p. 97.

18
1 Kindley mine

2 See Parish mine, Randolph County

21
1 King's mine

2 See Silver Hill mine, Davidson County.

25-

1 Kings Mountain mine

2 Type: Tin

3 Location: Cleveland County, about 1/2 mile north of the town of Kings
4 Mountain.

5-
6 Cassiterite-bearing greisen occurs in muscovite and hornblende
7 schist. In 1907 the Blue Ridge Tin Corporation sank 3 shafts ranging
8 from 50 to 75 feet deep. Two of the shafts were 50 feet apart and near
9 the railroad tracks. A mill was erected close by. The third shaft is
10- about 150 feet west of the mill and is on a different "vein". In 1940
11 float ore was found 450 feet S. 70° W. of the 75-foot shaft.

12
13 References: Keith and Sterrett, 1917, p. 138;

14 Kesler, 1942, table 18;

15- Stuckey, 1965, p. ~~304~~ 333-334.

1 Kings Mountain (Catawba, Briggs) mine

2 Type: Gold, lead, zinc

3 Location: Gaston County, about 2 miles south ^{west} of the town of Kings
4 Mountain.

5- Three cellular quartz veins ranging from 2 to 20 feet in width
6 associated with beds or lenses of blue to gray banded dolomitic marble
7 in chloritic mica schists carry gold with sparsely disseminated pyrite,
8 pyrrhotite, chalcopyrite, arsenopyrite, galena, sphalerite, tetrahedrite,
9 altaite, nagyagite, bismite, and bismutite. Saprolite on the surface
10- carried considerable quantities of gold and placers have been worked
11 over an area of a few acres along the branch below the mine.

12 The mine was discovered in 1820 or 1834 and was worked intermittently
13 until 1895. Graton reported that the mine was opened in 1834 and worked
14 for several years by a Mr. Briggs. Later, Commodore Stockton, a well-known
15- figure in the gold-mining industry of the region, took over the mine.

16 Lieber reports that when a deep pump shaft was drilled and pumping began
17 in the 1850's, workings at the Parker and Lee mines, 13 miles distant, were
18 entirely drained, filling again when the pumps were stopped, and draining
19 a second time when they were put in operation again. This was a remarkable
20- coincidence which created some interest at the time, for the dip of the
beds is such that there could be no connection. After the Civil War a
21 20-stamp mill was installed. Some prospecting and development work ~~were was~~
done in 1910-1913 but the mine was not reopened. Twelve or more shafts
22 were sunk during the ^{life} of the mine; two were reported to be 330 feet
deep and the others were from 50 to 200 feet deep. The three veins
23 explored were known as the Front, Beckwith, and East veins. It is
estimated that the mine produced from \$750,000 to \$1,000,000.

1 References: Bryson, 1936, 127-128;
2 Graton, 1906, p. 94-96;
3 Keith and Sterrett, 1931, p. 8;
4 Kerr and Hanna, 1888, p. 304-306;
5- Lieber, 1858, p. 92;
6 Nitze and Hanna, 1896, p. 146-147;
7 Nitze and Wilkens, 1897, p. 67-68;
8 Pardee and Park, 1948, p. 74;
9 *Stucky, 1965, p. 307.*
10-

1 Kings Mountain town prospects

2 Type: Tin

3 Location: Cleveland County, occurrences reported in the town of
4 Kings Mountain, now hidden by buildings and pavement, include
5- the property of O. W. Meyers, 112 N. Piedmont Ave. (formerly Captain
6 Suggs place); near the Post Office; and a short distance south of
7 the end of West Gold St.
8

9 Reference: Kesler, 1942, table 18.
21
22
23
24
25-

1 King Solomon mine

2 Type: Gold

3 Location: Mecklenburg County, 2½ miles northeast of Charlotte,
4 between 27th and 28th streets and Pinckney and Yadkin streets.

5-
6 A quartz vein in sheared granite with iron oxides was seen.
7 Two 40-foot shafts, caved in, and a small incline near the the
8 bottom of a ravine were seen in 1934.

9
10- References: J.V. Lewis, 1934, written communication;
11 J.T. Pardee, 1934, written communication;
12 Pardee and Park, 1948, p. 63.

1 Kirksey's mine

2 Type: Lead

3 Location: McDowell County.

4
5- Tetradymite was noted in the ore.

6
7 Reference: Genth and Kerr, 1881, p. 110.

8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25- Kismet mine

2 See Parish mine, Randolph County (

1 Kistler mine

2 Type: Gold

3 Location: Rowan County, 8 to 10 miles east of Salisbury;

4
5- Reference: Kerr and Hanna, 1888, p. 282.

6
1 Kitchen prospect

2 Type: Copper

3 Location: Graham County, in Sam Cove, about one mile up Deep Creek
4 from the Cheoah River.

5- Disseminated pyrite and traces of chalcopyrite were found in
6 sandstone. A short adit and shaft were dug near the mouth of Sam Cove,
7 and another pit was dug 1,000 feet up the cove.

8
9 Reference: Espenshade, 1963, p. 36.

16
1 Kitchens prospect

2 Type: Copper

3 Location: Clay County, on the western slope of Kitchens Knob of
4 Pine Ridge, near the ridge crest above the headwaters of
5- Licklog Branch, a tributary of Hiwassee River.

6
7 Pyrrhotite, pyrite, and chalcopyrite occur disseminated in a
8 50-foot zone in quartz-biotite schist.

9
10- References: Tennessee Valley Authority, 1942, written communication;
11 Hunter and Gildersleeve, 1946, p. 18.

1 Kizer, L. A. C., prospect

2 See Whitesides, J. W., prospect, Gaston County

1 Kizer- Mauny farm prospect

2 Type: Tin

3 Location: Gaston County, about 1/2 mile south of ~~The~~ Ormond-Carr
4 prospect.

5-
6 Tin ore was reported, but none was seen at the time of inves-
7 tigation.

8
9 Reference: Kesler, 1942, table 18.

13
14
1 Klondyke mine

2 Type: Barite

3 Location: Madison County, approximately 1 1/4 miles northeast of
4 Stackhouse station.

5-
6 A large vein of barite in a fault zone in Max Patch granite was
7 worked here to a depth of 350 feet. In the second level the vein was
8 13 feet thick, and at deeper levels it was 2 feet thick. High-grade
9 barite was produced here between 1904 and 1916 . Impurities include
10- fluorite, pyrite, and galena.

11
12 Reference: Hunter and Gildersleeve, 1946, p. 9.

U. S. GOVERNMENT

1 Klutz (Kluttz) mine

2 Type: Gold

3 Location: Cabarrus County, 3 miles southwest of Gold Hill, south-
4 west of the Isenhour mine.

5-
6 This unpromising prospect is classified as chalc^corite and
7 bornite with little chalcopyrite or pyrite in greenstone country
8 rock, similar to the deposits at Virgilina. Shallow pits^{are} on land
9 belonging to George P. Kluttz.

10-
11 References: Laney, 1910, p. 112-113;

12 Pardee and Park, 1948, p. 62.

13
14
15
16
1 Laffing mine

2 See Loftin mine, Davidson County (

1 Laffin (Laughlin, Herring) mine

2 Type: Gold

3 Location: Randolph County, 2 1/2 miles northwest of Jackson Creek,
4 and 4 1/2 miles east of Cid, on Kerr^{7v} Hill. —

5—
6 The ore is in 2 belts about 200 feet wide and 1/2 mile long in
7 saprolite derived from talcose and argillaceous slates. The ore-
8 bearing material is said to resemble an impure porcelain clay mass to
9 a depth 40 or 50 feet. Open cuts revealed stringers of bull quartz.
10— The mine was worked in the 1850's and was opened by open cuts and
11 tunnels. In 1906 the mine was owned by the Empire Mining Co.

12
13 References: Emmons, 1856, p. 132.

14 Kerr and Hanna, 1888, p. 254;

15— Nitze and Hanna, 1896, p. 59;

16 Nitze and Wilkens, 1897, p. 47;

17 Pardee and Park, 1948, p. 64;

18 Pratt, 1907, p. 22-24; 41-42.
19
20—
21
22
23
24
25—

Lalor (Allen) mine

Type: Gold, copper

Location: Davidson County, 2 miles southeast of Thomasville. —

Gold, pyrite, chalcopyrite, arsenopyrite, and tetradymite are reported in highly sheared altered greenstone schist country rock, in which chlorite, talc, ankerite, and quartz are developed. The mine was operated from 1882 to 1886 by the Campbell Mining and Reduction Company of New York, and comprised 3 shafts, the deepest of which was 165 feet, a 10-stamp mill, and a roasting furnace. In 1934 pits and shallow shafts extending for 450 feet in a northeasterly direction were seen.

References: C. B. Brown, 1934, written communication;

Kerr and Hanna, 1888, p. 279;

Genth and Kerr, 1881, p. 101;

Nitze and Hanna, 1896, p. 116;

Pardee and Park, 1948, p. 62.

Latta mine

Type: Barite

Location: Orange County, near Hillsboro.

Reference: Genth, 1891, p. 81.

Laufman mine

1 Type: Gold

2 Location: Moore County,

3
4 Reference: Pardee and Park, 1948, p. 64.

Laughlin mine

1 Type: Gold

2 Location: Davidson County,

3
4
5- Gold, pyrite, limonite, and hematite were noted in the ore.

6 Reference: Genth and Kerr, 1881, p. 101.

Laughlin mine

1 See Lafflin mine, Randolph County

Laughlin, John, mine

1 Type: Gold

2 Location: Randolph County, 9 miles northeast of Asheboro. —

3
4
5- Some sulfides, chiefly pyrite, were seen in silicified quartzose
6 chloritic schist probably derived from andesitic tuff. Two open pits
7 were seen in 1934.

8
9 References: C. B. Brown, 1934, written communication;

10- Pardee and Park, 1948, p. 64.

1 Laurel Hill mine

2 See Cagle mine, Moore County

3
1 Lawson mine

2 See Howie mine, Union County.

6
1 Lawson Smart mine

2 Type: Gold

3 Location: Rutherford County, 1 mile north of the grayson mine.

4
5- This was a placer mine in gravel.

6
7 Reference: Kerr and Hanna, 1888, p. 312.

15-
16
1 Lawton mine

2 Type: Lead-zinc

3 Location: Gaston County,

4
5- Reference: Murdock, 1950, p. 12.

1 Ledoux prospects

2 Type: Tin

3 Location: Cleveland County, about 1/4 mile southwest of the Plank
4 prospect, 2,000 feet S. 55° E., to 2,825 feet S. 10° E. of the
5- Park Yarn mill.

6
7 Cassiterite occurs in greisen and feldspathic gangue in pegmatite
8 dikes in muscovite schist and gneiss and hornblende gneiss country
9 rocks. Chalcopyrite and arsenopyrite were found associated with the
10- cassiterite at the bottom of one shaft. Six ore bodies along the
11 ridge were prospected by Ledoux & Co. in 1888-1889, and later by the
12 Blue Ridge Tin Corporation. Exploration included trenching, drilling,
13 and the sinking of an 85-foot and a 60-foot shaft. A mill was erected
14 at the mine in 1905.

15-
16 References: Keith and Sterrett, 1917, p. 140;
17 Kesler, 1942, table 18;
18 Pratt, 1907, p. 19;
19 Pratt and Sterrett, 1904, p. 24-25.

1 Leeds mine

2 Type: Gold

3 Location: Rutherford County, 100 feet north of the Ellwood mine.

4
5- A quartz vein carrying gold ^{is} ~~and~~ parallel to the veins at the
6 Ellwood mine. The mine was abandoned and inaccessible when seen in
7 1892.

8
9 References: Bryson, 1936, p. 142;
10- Nitze and Hanna, 1896, p. 170.

11
1 Lemmonds (Marion, Lemons) mine

2 Type: Gold

3 Location: Union County, a southern extension of the Stewart mine.

4
5- A quartz vein from a few inches to 6 feet in width carrying
6 galena, brown sphalerite, arsenopyrite, chalcopyrite, and
7 pyromorphite with gold and silver, is in sericitic phyllite country
8 rock. The mine was worked in the 1880's and 1890's.

9
10- References: Brown, C. B., 1934, written communication;
11 Bryson, 1936, p. 93;
12 Genth and Kerr, 1881, p. 118;
13 Kerr and Hanna, 1888, p. 189-190;
14 Nitze and Hanna, 1896, p. 97;
15- Pardee and Park, 1948, p. 65;
16 Shepard, 1853, p. 595.

1 Lewis mine

2 Type: Gold

3 Location: Union County, northeast of the Phifer mine, about $4\frac{1}{2}$ miles
4 southwest of Indian Trail and $2\frac{1}{2}$ miles northeast of Wesley
5- Chapel in the Moore Hill group of mines.

6
7 The ores are described under the Moore Hill mine. This mine was
8 worked for a length of nearly 1,000 feet and to a depth of 80 feet
9 in the 1800's. The Peacock Mining Co. prospected the Lewis mine in
10- 1934, and sank two shafts, the Peacock and Cow, to a depth of 65 feet
11 in quartz sericite schist and sericitic phyllite containing seams of
12 pyrite-and gold-bearing granular quartz.

13
14 References: Brown, C. B., 1934, written communication;
15- Bryson, 1936, p. 96;
16 Kerr and Hanna, 1887, p. 262-263;
17 Nitze and Hanna, 1896, p. 103;
18 Pardee and Park, 1948, p. 101-102.

1 Liberty Mining Co.'s mine

2 Type: Gold

3 Location: Davidson County, 2 1/2 miles north of Silver Hill. ←

4
5- The mine was operated from 1929 to 1935 by the Liberty Mining
6 Corp.

7
8 References: Bryson, 1937, p. 27;
9 Pardee and Park, 1948, p. 62.

1 Lick Ridge mine

2 Type: Copper

3 Location: Mitchell County, -

4
5- Pyrite, chalcopyrite, muscovite, albite, garnet, and biotite were
6 noted.

7
8 Reference: Genth and Kerr, 1881, p. 111.

9
1 Lilian mine

2 Type: Gold

3 Location: Polk County.

4
5- This mine was listed as a principal gold and silver producing
6 mine in North Carolina in 1903 and 1904.

7
8 Reference: Pratt, 1905, p. 13.

1 Lindsay mine

2 Type: Gold, copper

3 Location: Guilford County, southwest of the North State mine, about
4 2½ miles southwest of Jamestown.

5-
6 This mine is the southwestern extension of the North State mine.
7 It is in the same quartz vein in granite. The vein is described under
8 the North State mine. The mine was opened before the Civil War and
9 was developed for a length of about 2 miles by the South shaft No. 2,
10 100 feet deep; South shaft No. 1, 90 feet deep; Engine shaft, 150
11 feet vertical and 60 feet on the incline, and Willows shaft, 110 feet
12 deep. A series of 87 assays taken from all sections of the mine
13 ranged from \$4 to \$100 per ton. The mine was prospected in 1931 by
14 J. A. Allred, but no work was done.

15-
16 References: C. B. Brown, 1934, written communication;
17 Bryson, 1936, p. 108;
18 Emmons, 1856, p. 173-174;
19 Kerr and Hanna, 1888, p. 278;
20 Nitze and Hanna, 1896, p. 115, 116;
21 Nitze and Wilkens, 1897, p. 46;
22 Pardee and Park, 1948, p. 76.

1 Lindsay's, W., mine

2 Type: Copper

3 Location: Rockingham County, at Madison. =

4

5- Chalcopyrite was noted.

6

7 Reference: Genth and Kerr, 1881, p. 116.

8

1 Lineberger mine

2 Type: Gold

3 Location: Gaston County, 4 miles southeast of Gastonia.

4

5- Reference: Pardee and Park, 1948, p. 62.

14

15-

1 Linker mine

2 Type: Gold

3 Location: Cabarrus County.

4

5- Reference: Pardee and Park, 1948, p. 62.

21

22

23

24

25-

1 Linville Caverⁿ's prospect

2 Type: Zinc

3 Location: McDowell County, about 1/2 mile north of Linville
4 Caverⁿ's.

5-
6 Disseminated sphalerite, cuprite, chalcopyrite, pyrite, and
7 secondary copper minerals are found associated with quartz and
8 calcite in veinlets and irregular replacements in Shady Dolomite
9 of the Tablerock thrust sheet. One small prospect trench was opened
10- on the hillside, and 4 holes were diamond drilled in 1943-44.

11
12 References: Bryant and Reed, 1966, p. 7-8; Reed, 1964, p. 44.
13 <-----

1 Litaker mine

2 Type: Gold

3 Location: Cabarrus County, near Concord.

4
5- Reference: Pardee and Park, 1948, p. 62.

19
1 Little Bald prospect

2 Type: Copper

3 Location: Cherokee County, one mile east of the Beaverdam Bald prospect.⁵⁰

4
5- Gossan similar to that at the Beaverdam Bald prospect is exposed.

6
7 Reference: G. H. Espenshade, 1943, written communication.

1 Little Fritz (Gulp) mine

2 Type: Gold

3 Location: Stanly County, near Gladstone, .

4
5- Prospecting was done in the 1890's and an Elspass frictional
6 roller quartz mill was erected.

7
8 Reference: Nitze and Wilkens, 1897, p. 56.

9
1 Little Hungry River prospect

2 see Pardo mine, Henderson County

12
1 Little John mine

2 Type: Gold

3 Location: Caldwell County.

4
5- Gold and galena were noted in the ore.

6
7 Reference: Genth and Kerr, 1881, p. 96.

20-
21
1 Little Tennessee mine

2 See Otto mine, Macon County (

1 Locust Gap prospect

2 Type: Copper

3
4 Location: Swain County, about $1\frac{1}{2}$ miles N. 50° E. of the
5- Calhoun prospect.

6 Chalcopyrite and native copper were found by
7 G. I. Calhoun many years ago. In 1943, sandstone with
8 disseminated pyrite was observed, but there were no
9 signs of copper or gossan.

10-
11 Reference: Espenshade, 1963, p. 36.

12
13
1 Loftin (Laftin, Laffing) mine

2 Type: Gold

3 Location: Davidson County, 1 1/2 miles southeast of Thomasville.

4
5- This mine is similar to the Lalor mine.

6
7 References: Kerr and Hanna, 1888, p. 279;

8 Nitze and Hanna, 1896, p. 117.

1 Long mine

2 Type: Gold

3 Location: Cabarrus County, 2 miles northwest of the Pioneer Mills
4 mine. —

5—
6 A nearly ^lvertical vein, two feet wide, carries gold, pyrite,
7 chalcopyrite, and galena.

8
9 References: Emmons, 1856, p. 181;

10— Genth and Kerr, 1881, p. 96.

1 Long mine

2 Type: Gold

3 Location: Union County, 3/4 mile southeast of the Crowell mine and
4 2 miles southwest of Brief.

5—
6 Quartz veins in line with the easternmost Crowell vein carry
7 gold and silver with pyrite, galena, sphalerite, and chalcopyrite,
8 in a gangue of schistose matter, quartz, calcite, and siderite.
9 The thickness of the vein varies from 30 inches to 4 feet. In 1934
10— shafts and pits were found on two hills about 350 feet apart.

11
12 References: Brown, C. B., 1934, written communication;

13 Bryson, 1936, p. 92;

14 Kerr and Hanna, 1888, p. 263;

15— Nitze and Hanna, 1896, p. 95;

16 Nitze and Wilkens, 1897, p. 63;

17 Pardee and Park, 1948, p. 103.

1 Long Creek mine

2 Type: Gold

3 Location: Gaston County, 8 miles northwest of Gastonia, and 6 miles
4 northwest of Dallas.

5
6 Three quartz veins known as the Asbury, Dixon, and McCarter Hill
7 veins, trend northeastward and are conformable to the schistosity of
8 the enclosing country rock. The Asbury vein had rich ore shoots com-
9 posed of pyrite, chalcopyrite, galena, sphalerite, and arsenopyrite.
10 Native silver, tetradymite, pyrrhotite, leucopyrite, bismite,
11 scorodite, montanite, cerussite, and bismutite have also been reported
12 from the Asbury vein. Ore taken from the Asbury vien in the 1850's
13 was thickly encrusted with mamillary masses of asbolite or cobaltian
14 wad.

15 The Asbury vein has been opened by 2 shafts 45 feet apart and
16 worked to a depth of 140 feet. It was reported in 1859 that the deeper
17 Bronson shaft cut quartz and pyrrhotite ore. The Dixon vein has been
18 worked along the surface for 300 feet by pits and 2 shallow shafts.
19 Three shafts explored the McCarter Hill vein to a depth of 160 feet
20 for a distance of 250 feet. The last work here was in 1892. Some of
21 the workings were unwatered and sampled in 1934 by the American
22 Smelting and Refining Company.
23
24
25

1 References: Bryson, 1936, p. 129-130;
 2 Genth and Kerr, 1881, p. 102;
 3 Kerr and Hanna, 1888, p. 304-347;
 4 Nitze and Hanna, 1896, p. 149;
 5- Nitze and Wilkens, 1897, p. 66-67;
 6 Pardee and Park, 1948, p. 62, 74;
 7 Pratt, 1907, p. 18;
 8 Stuckey, 1965, p. 278;
 9 Wurtz, 1859, p. 30.

1 Long Mountain mines

2 Type: Barite

3 Location: Madison County, on the southeastern spur of Long Mountain,
 4 about 1/2 mile north-northeast of Bluff.

5-
 6 The deposits occur as fissure veins in broken and mylonitized
 7 Snowbird Quartzite a few hundred feet north of the outcrop of the
 8 Bushy Mountain thrust fault. Coarsely crystalline vitreous barite
 9 and sacchroidal barite occur in alternating bands with black and
 10- purple fluorite. The mines were worked by the Rollins Chemical Corp.
 11 to depths of 200 feet in veins 6 feet thick.

12
 13 Reference: Oriel, 1950, p. 52.

1 Ludermilk mine

2 Type: Copper

3 Location: Jackson County, on the Cullowhee vein,
 4

5- Reference: Weed, 1911, p. 137.

1 Love mine

2 Type: Gold

3 Location: Cabarrus County, near the Phoenix mine.

4
5- Gold, pyrite, and chalcopyrite ^{were} noted in the ore.

6
7 Reference: Genth and Kerr, 1881, p. 96.

8
1 Lovedahl prospect

2 see Phillips prospect, Jackson County(

11
1 Lowder mine

2 Type: Gold

3 Location: Stanley County, 2½ miles northwest of Albemarle, adjoining
4 and northeast of the Haithcock mine.

5-
6 The country rock is a greenish chloritic schist derived from a
7 basic volcanic rock cut by a quartz vein 3½ feet thick conformable
8 with the schistosity. The veins carry free gold. This mine was
9 opened in 1835, and was operated up until the Civil War along the
10- outcrop and to a depth of 65 feet. In 1895 the mine was unwatered
11 and prospecting was done.

12
13 References: Kerr and Hanna, 1888, p. 258;

14 Nitze and Hanna, 1896, p. 82;

15- Nitze and Wilkens, 1897, p. 54;

16 Pardee and Park, 1948, p. 93.

1 Lowdermilk (McAdoo) mine

2 Type: Gold

3 Location: Randolph County, 7 miles south of Asheboro.

4
5 Saprolite overlying slaty siliceous tuff was worked for gold by
6 Mr. McAdoo, using a log washer. Two shafts, 20 and 25 feet deep, were
7 seen in 1934.

8
9 References: C. B. Brown, 1934, written communication;

10 Pardee and Park, 1948, p. 64.

1 Ludowick mine

2 Type: Gold

3 Location: Cabarrus County, about 11 or 12 miles from Gold Hill.

4
5
6 The ore carries chalcopryite, argentiferous tetrahedrite, arsenic,
7 and antimony in two quartz veins.

8
9 References: Emmons, 1856, p. 202-203;

10 Kerr and Hanna, 1888, p. 208, 347.

1 Lytton mine

2 See Delft mine, Randolph County

McAden mine

1 Type: Gold

2 Location: Alamance County,

3
4 Gold and pyrite were noted.

5-
6 Reference: Genth and Kerr, 1881, p. 91.

McAdoo mine

1 See Lowdermilk mine, Randolph County (

McAllister mine

1 See Davis Mountain mine, Randolph County

McCall mine

1 See Hoover, Jas., mine, Mecklenburg County.

McClarty mine

1 Type: Gold

2 Location: Union County, 2 miles northeast of Waxhaw. (

3
4
5- Reference: Pardee and Park, 1948, p. 65.

McCleary (McLeary, Williams) mine

1 Type: Gold, copper

2 Location: Mecklenburg County, 1½ miles southeast of Paw Creek.

3
4
5- This mine was noted for the copper content of its ore.

6
7 References: Kerr and Hanna, 1888, p. 208;

8 Pardee and Park, 1948, p. 63.

1 McClurd mine

2 Type: Gold

3 Location: Gaston County, 3 miles southeast of Stanley.

4
5- Reference: Pardee and Park, 1948, p. 62.

6
7
1 McClure mine

2 See Sumner mine, Mecklenburg County. (

10-
1 McClure prospect

2 Type: Copper

3 Location: Jackson County, northeast of the Wayehutta mine, about
4 $\frac{1}{2}$ mile up Black Mountain Branch.

5- The county rock is biotite-quartz gneiss. The rock on the dump
6 is light colored fine-grained amphibolite, possibly formed by hydro-
7 thermal solutions. No sulfide minerals were seen.

8 ~~There~~ ^{once} was a 15-foot shaft.

9
10- Reference: G. H. Espenshade, 1944, written communication.

1 McCombs mine

2 Type: Gold

3 Location: Mecklenburg County, 5 miles northeast of Charlotte, or 1.3
 4 miles southeast of Derita, ^{plus} 3/4 mile south of Derita Mineral
 5- Springs. The Garris vein of the Ferris mine is on the McCombs
 6 place, 1/2 mile N. 15°E. of the McCombs mine. —

7
 8 Quartz veins carrying pyrite in a shear zone in granite were
 9 seen. Large dumps, several shafts, and many pits and open cuts
 10- extending along the shear zone were seen in 1934.

11
 12 References: J.V. Lewis, 1934, written communication;
 13 J.T. Pardee, 1934, written communication;
 14 Pardee and Park, 1948, p. 63.

1 McCombs mine

2 See St. Catherine mine, Mecklenburg County.

1 McCord mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles northwest of Charlotte.

4
 5- Reference: Pardee and Park, 1948, p. 63.
 23
 24
 25-

1 McCorkle mine

2 Type: Gold

3 Location: Catawba County, east of Newton,

4
5- The mine was worked in 1895,

6
7 Reference: Nitze and Hanna, 1896, p. 150.

1 McCorkle mine

2 Type: Gold

3 Location: Mecklenburg County, 8 miles southwest of Charlotte.

4
5-
6 The ores were brown oxides and gold-bearing pyrite. The workings
7 extended to a depth of 50 feet.

8
9 References: Genth and Kerr, 1881, p. 111;

10- Nitze and Hanna, 1896, p. 141;

11 Pardee and Park, 1948, p. 63.

19
1 McCubb mine

2 Type: Gold

3 Location: Catawba County.

4
5- Reference: Pardee and Park, 1948, p. 62.

25- McCullough mine

1 See North State mine, Guilford County.

1
2
3
4
5-
6
7
8
9
10-
11
1
2
14
1
2
3
4
5-
6
21
22
23
24
25-

McDonald mine

Type: Gold

Location: Mecklenburg County, 1 mile southeast of Paw Creek..

A gold-bearing quartz vein had been worked to "a moderate depth" in 1887.

References: Kerr and Hanna, 1888, p. 293;

Nitze and Hanna, 1896, p. 131;

Pardee and Park, 1948, p. 63.

McDonald mine

See Ritter mine, Moore County

McGee mine

Type: Gold

Location: Mecklenburg County, 5-10 miles northwest of Charlotte.

Reference: Pardee and Park, 1948, p. 63.

1 McGinn mine

2 Type: Gold

3 Location: Mecklenburg County, about 5 miles northwest of Charlotte
4 and adjoining the Capps mine on the north.

5-
6 A group of veins in the granite belt carry¹²⁰ gold and copper.
7 The Jane vein carries quartz, pyrite, and gold, and the McGinn
8 copper vein carries chalcopyrite, barnhardtite, cuprite, melaconite,
9 and pseudomalachite. Cobalt and nickel minerals have occasionally
10- been observed in the ore of the McGinn mine. Little is known of the
11 history of this mine, but its development must have been similar to
12 that of the adjoining Capps mine. The copper vein was opened to a
13 depth of 110 feet and was worked exclusively for copper in the 1840's.
14 Gold was mined from the Jane vein which was worked at several points
15- over a length of more than 1,000 feet and to a depth of 150 feet in
16 the Engine shaft.

17
18 References: Bryson, 1936, p. 121-122;

19 Genth and Kerr, 1881, p. 111;

20- Kerr and Hanna, 1888, p. 209, 210, 298, 345;

21 Nitze and Hanna, 1896, p. 137-138;

22 Nitze and Wilkens, 1897, p. 66;

23 Pardee and Park, 1948, p. 77.
24
25-

1 McGrew mine

2 See House mine, Randolph County. —

3
1 McGuire (Taylor) prospect

2 Type: Copper

3 Location: Macon County, 8 miles southeast of Franklin and north of
4 Highway 64 to Highlands, on the south side of and near the top
5- of Panther Mountain, draining into Brush Creek.

6 A mineralized zone about 4 feet wide in granitic biotite gneiss
7 contains chalcopyrite, pyrite, abundant sphalerite, and quartz. A
8 gossan covers the southwest side of the shaft. The workings consist
9 of 2 shafts, a 10-foot open cut and adjoining 5-foot drift. A very
10- extensive dump contained considerable ore in 1946.

11
12 References: Hunter and Gildersleeve, 1946, p. 18-19.

16
1 MacIntire mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4
5- Reference: Nitze and Hanna, 1896, p. 174.

1 McKenzie mine

2 Type: Gold

3 Location: Caldwell County, near the Scott Hill mine northwest of
4 Hartland.

5-

6 Gold-bearing quartz veins and saprolite were reported. In 1906
7 the Blue Ridge Mining and Milling Company sank a vertical shaft to a
8 depth of 68 feet, and erected a 5-stamp mill. Gold production was
9 reported in 1914.

10-

11 References: Pratt, 1907, p. 36;

12 Pratt and Berry, 1919, p. 22.

1 McLean (Rumfeldt) mine

2 Type: Gold

3 Location: Gaston County, near the southeast corner of ~~the~~ county,
4 15 miles southwest of Charlotte.

5-

6 Gold occurs with pyrite in a quartz vein from 1 to 6 feet wide.
7 The vein was prospected before 1896 for a length of 200 yards and a
8 depth of 110 feet.

9

10- References: Bryson, 1936, p. 129;

11 Kerr and Hanna, 1888, p. 304;

12 Nitze and Hanna, 1896, p. 148;

13 Nitze and Wilkens, 1897, p. 66;

14 Pardee and Park, 1948, p. 62.

1 McLean mine

2 Type: Gold

3 Location: Mecklenburg County.

4
5 Gold, pyrite, and chalcopryrite were noted in ore.

6
7 Reference: Genth and Kerr, 1881, p. 111.

8 McMakin mine

9 See Whitney group, Cabarrus County.

10 McNeely mine

11 Type: Gold

12 Location: Union County, 4 miles south of Mineral Springs.

13 Reference: Pardee and Park, 1948, p. 65.

14 Macon mine

15 see Otto mine, Macon County

16 Macpelah Church prospect

17 Type: Copper

18 Location: Lincoln County, 2 miles east of Macpelah Church.

19 Pyrite and chalcopryrite were noted.

20 Reference: Genth and Kerr, 1881, p. 107.

1 Magazine mine

2 Type: Gold

3 Location: Burke County, lower slope of Pilot Mountain.
4

5-
6 This was a placer mine.
7

8 References: Nitze and Hanna, 1896, p. 165;

9 Pardee and Park, 1948, p. 62.
10-

1 Main Shaft mine

2 see Condon Shaft mine, Lincoln County (
13

14 Mann mine

1 Type: Gold

2 Location: Halifax County, near the Portis mine.
3

4 References: Bryson, 1936, p. 63;

5- Kerr and Hanna, 1888, p. 241;

6 Nitze and Hanna, 1896, p. 27;

7 Nitze and Wilkens, 1897, p. 43.
8
23
24
25-

1 Mann-Arrington mine

2 Type: Gold

3 Location: Nash County, at Argo Post Office, in the northwest corner
4 of Nash County, 12(?) miles east of the Portis mine, and 5 miles
5 southeast of Ransom's Bridge. This is possibly the same as the
6 Arrington mine.

7 Quartz lenses, varying in size from stringers up to 12 inches in
8 thickness, are interlaminated in chloritic schist, possibly a
9 metamorphosed diorite. Some of the lenses cut the schistosity at low
10 angles. The quartz is saccharoidal and stained reddish brown from
11 decomposed sulfides. The schist contains iron sulfides. The mine was
12 last worked in 1894 to a depth of 108 feet.

13
14 References: Bryson, 1936, p. 62;

15 Kerr and Hanna, 1888, p. 241;

16 Nitze and Hanna, 1896, p. 26-27;

17 Pardee and Park, 1948, p. 64.

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

1 Marion mine

2 See Lemmonds mine, Union County.

1 Marion Bullion Company (Brackettown, Granville) mine

2 Type: Gold

3 Location: McDowell County, at Bracket-town in the valley of the
4 headwaters of South Muddy Creek.

5-
6 Gold occurs in placers along the stream and in quartz veins in
7 biolite gneiss country rock. The vein quartz is saccharoidal and
8 mineralized with galena, sphalerite, chalcoppyrite, pyrite, ~~and~~ gold,
9 and silver.

10- Placer gold mining started after 1828 when gold was discovered
11 in Burke County. Sometime later, before 1896, a vertical shaft was
12 sunk to a depth of 126 feet on 6 small quartz veins.

- 13
- 14 References: Bryson, 1936, p. 139-140;
- 15- Caldwell, 1893, p. 308;
- 16 Kerr and Hanna, 1888, p. 315;
- 17 Nitze and Hanna, 1896, p. 166-168.
- 18

1 Martha mine

2 See Stackhouse mine, Madison County. (

1 Martha Washington mine

2 Type: Gold

3 Location: Montgomery County, 2 miles northwest of Candor, adjoining
4 the Iola mine on the north.

5-
6 A continuation of the vein at the Candor mine. The vein is
7 supposed to have passed down the dip into the ground of the Martha
8 Washington at a depth of 600 feet. In 1911 or 1912 the Martha
9 Washington Gold Mining Company, of Candor, N. C., sank a 50-foot
10- inclined shaft.

11 References: Pardee and Park, 1948, p. 83;

12 Pratt, 1914, p. 22-23.
13
14

1 Mastodon (Pocahontas) mine

2 Type: Copper

3 Location: Granville County, south of the Holloway mine and near the
4 Person County line.

5-
6 A shallow pit was sunk in copper carbonate stained quartz in
7 porphyritic greenstone.
8

9 Reference: Kerr and Hanna, 1888, p. 217.
24
25-

1 Mauney mine

2 Type: Gold, silver

3 Location: Cabarrus County, $1\frac{1}{2}$ miles southwest of Gold Hill, on
4 the west side of Little Buffalo Creek.

5-
6 In 1894 two prospect shafts were sunk to a depth of about
7 70 feet.

8
9 Reference: Nitze and Hanna, 1896, p. 91.

10-
11
1 Mauny, Fred, and Gus Clark prospects

2 Type: Tin

3 Location: Gaston County, about $3/4$ mile south of the Jones prospects.
4 The deposits are about $1/4$ mile apart.

5-
6 Cassiterite occurs in greisen gangue in muscovite schist and
7 gneiss and hornblende gneiss. Float ore was found at these locations.

8
9 Reference: Kesler, 1942, table 18.

1 Mauney Park prospect

2 Type: Tin

3 Location: Cleveland County, on the south side of a small valley
4 cutting across Chestnut Ridge, about 1 mile north of the north
5- edge of the town of Kings Mountain.

6
7 Cassiterite-bearing greisen boulders were discovered in surface
8 soil in a small park area. The country rock is kyanite-mica schist
9 and gneiss and hornblende schist. An 8-foot wide pegmatite dike
10- carries a 2-foot wide band of cassiterite-bearing greisen. In 1904
11 several pits and a crosscut trench were dug.

12
13 References: Keith and Sterrett, 1917, p. 142-143;

14 Kesler, 1942, table 18.

15-
1 Maxwell mine

2 See Peachbottom mine, Alleghany County.

1 Maxwell (Hagler) mine

2 Type: Gold

3 Location: Mecklenburg County, 11 miles east of Charlotte.

4
5- Large masses of pyrite with gold and chalcopyrite occur in
6 a quartz vein 1 to 6 feet wide. The vein has been worked to a
7 depth of 75 feet.

8
9 References: Genth and Kerr, 1881, p. 111;

10- Kerr and Hanna, 1888, p. 302;

11 Nitze and Hanna, 1896, p. 144;

12 Pardee and Park, 1948, p. 63;

13 Tuomey, 1848, p. 89-90.

14
1 Mayberry mine

2 Type: Gold

3 Location: Mecklenburg County, 1½ miles south of Huntersville. ←

4
5- Reference: Pardee and Park, 1948, p. 63.

20-
1 Meadow Creek mine

2 Type: Gold,

3 Location: Cabarrus County,

4
5- Reference: Pardee and Park, 1948, p. 62.

1 Means (Mears) mine

2 Type: Gold

3 Location: Mecklenburg County, 5 miles northwest of Charlotte, 1/2
4 mile southeast of the Capps mine.

5-

6 Gold and chalcopryrite occur in a quartz vein in schist. The
7 vein has been thought to be a continuation of either the Capps or
8 Jane veins, but it probably is not. The vein has been worked at
9 several places and to a depth of 175 feet in the Wallace shaft.

10-

11 References: Bryson, 1936, p. 122;
12 Nitze and Hanna, 1896, p. 138-139;
13 Pardee and Park, 1948, p. 63.

14

1 Melton mine

2 Type: Gold

3 Location: Rutherford County, near Golden.

4

5- The mine was a large producer of placer gold in 1916 and 1917
6 when it was owned by W. E. Sudlow.

7

8 References: Pardee and Park, 1948, p. 65;
9 Pratt and Berry, 1919, p. 25.

10

24

25-

Merrill mine

Type: Gold

Location: Randolph County, on Carr^lway Creek, 3 miles west of Sophia.
 (^{or} ~~and~~ 3 miles southwest of Worthville.) ←

Saprolite overlying sericitic quartz schist extends to a depth of 50 to 60 feet. ~~Old~~ workings over 100 years old including an 80-foot shaft were seen in 1934. ^{In 1906} The workings consisted of eight cross-cut trenches and many test pits. [in 1906.]

References: C. B. Brown, 1934, written communication;

Pardee and Park, 1948, p. 64;

Pratt, 1907, p. 26.

Metcalf prospect

Type: Tin

Location: Gaston County, about 6 miles south of Lincolnton.

Cassiterite occurs in greisen and feldspathic gangue in hornblende gneiss wall rock. An ore body 18 inches thick occurs in greisen gangue, and 6 inch and 1-1/2 inch thick ore bodies occur in feldspathic gangue. All are unconformable with the attitude of the wall rocks. The deposit was worked to a depth of 20 feet. Ore was also noted in greisen gangue in hornblende gneiss in a prospect 1,555 feet N.70°W. of the Metcalf prospect.

Reference: Kesler, 1942, table 18.

1 Miami mine

2 See Phoenix mine, Cabarrus County. —

1 Mica City Creek prospect

2 Type: Copper

3 Location: Macon County, 7 miles northeast of Franklin near the head
4 of Mica City Creek.

5- Pyrite, pyrrhotite, chalcopyrite, and galena were seen on the
6 dump. A 50-foot open cut and drift were worked about 1920.

7
8 Reference: Hunter and Gildersleeve, 1946, p. 19.

12
1 Micha^ux mine

2 Type: Gold

3 Location: Caldwell County, near the Baker mine on John's River.

4
5-
6 References: Kerr and Hanna, 1888, p. 308;

7 Pardee and Park, 1948, p. 62.

20-
1 Midas mine

2 See ^uFarr, Allen, mine, Cabarrus County.

Midway mine

Type: Gold

Location: Davidson County,

Gold, pyrite, chalcopryrite, and chalcedony were noted in the ore.

Reference: Genth and Kerr, 1881, p. 101

Mill Creek mine

Type: Copper

Location: Person County,

Chalcoicite was noted in the ore.

Reference: Genth, 1891, p. 24.

1 Miller mine

2 Type: Gold

3 Location: Caldwell County, 1 1/2 miles northwest of Hartland, on Seley's
4 (Celia) Creek, adjoining the Scott Hill mine, and 2 miles east of
5- John's River.

6
7 A quartz vein in schistose country rock near a diabase dike altered
8 to serpentine carried gold, galena, and pyromorphite. Placer mining
9 was done in the streambeds and on the saprolite surface. Numerous
10- ^ucuts, tunnels, and shallow shafts were seen in 1896. A 5-stamp mill
11 was in operation at one time in the 1800's, but by 1896 it had been
12 converted into a distillery. The small growth on the dumps and the
13 state of preservation of the head frame when examined in 1966 suggest
14 that work has been done here since 1936.

15-
16 References: Bryant and Reed, 1966, p. 7;
17 Bryson, 1936, p. 139;
18 Genth and Kerr, 1881, p. 96;
19 Kerr and Hanna, 1888, p. 308;
20- Nitze and Hanna, 1896, p. 176;
21 Nitze and Wilkens, 1897, p. 68;
22 Pardee and Park, 1948, p. 62.
23
24
25-

Miller mine

Type: Gold

Location: Davidson County.

Gold, pyrite, limonite, and hematite were noted in the ore.

Reference: Genth and Kerr, 1881, p. 101.

Miller mine

See Delft mine, Randolph County.

Miller mine

see Gold Hill mine, Rowan County

Miller mine

Type: Copper

Location: ^WWatauga County, at the southern base of Elk Knob.

Pyrite and chalcopyrite occur in gray gneiss, covered by limonite gossan. In 1874 there was a 60-foot shaft.

References: Genth and Kerr, 1881, p. 120;

Kerr and Hanna, 1888, p. 224.

Millis Hill (Willis Hill) mine

Type: Gold

Location: Guilford County, 5-6 miles south of Greensboro, 150 rods south of the Fisher Hill mine, and in the same 900 acre tract.

This mine is on the same north-south and northeast-southwest quartz vein systems in sheared granite country rock as the Fisher Hill. The amount of chalcopyrite in the ore is greater here than in the Fisher Hill ore. The work here consists of 4 shafts of much shallower depths than those at the Fisher Hill.

- References: Bryson, 1936, p. 105;
- Kerr and Hanna, 1888, p. 278-279;
- Nitze and Hanna, 1896, p. 110-111;
- Nitze and Wilkens, 1897, p. 45;
- Pardee and Park, 1948, p. 75.

Millright mine

See Phillips mine, Chatham County(

1 Mills, J. C., mine

2 Type: Gold

3 Location: Burke County, 2460 acres near ^{by}Brindletown on the eastern
4 side of Pilot Mountain, on Brindle Creek and Silver Creek.

5-
6 Placer gold was mined from the streams which also yielded
7 monazite, zircon, fergusonite, xenotime, rutile, garnet, and corundum.
8 Gold-bearing quartz veins in schists were discovered later. Gold
9 was discovered in 1828 on ^{the}Brindle Creek, named for the Brindle
10- family, the first settlers. The property was purchased by
11 Capt. J. C. Mills about 1835 and has been owned and mined by the
12 Mills family ever since. At one time a 5-stamp mill was operated on
13 the ore mined from the veins. In 1916 it was estimated that gold
14 production had been more than \$1,000,000.

15-
16 References: Kerr and Hanna, 1888, p. 313-314;
17 Nitze and Hanna, 1896, p. 165-166;
18 Nitze and Wilkins, 1897, p. 95-97;
19 Pardee and Park, 1948, p. 65;
20- *Stuckey, 1965, p. 308.*

21 Mills, L. A., mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4
5- Reference: Nitze and Hanna, 1896, p. 174.
6

1 Mine Ridge prospect

2 Type: Barite

3 Location: Madison County, at the crest of the easternmost portion of
4 Mine Ridge and at the top and bottom of the western slope of
5- Mine Ridge.

6
7 The prospect pits suggest a continuous mineralized zone along
8 the crest of Mine^e Ridge. Sacchroidal white barite and coarsely
9 crystalline gray barite were found in 4 pits in arkose and
10- conglomerate of the Unicoi Formation.

11
12 Reference: Oriel, 1950, p. 52.

13
1 Mint Hill mine

2 See ^hPifer mine, Union County.
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

1 Mole Hill mine

2 See Dunlop mine, Mecklenburg County.
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21

1 Monarch mine

2 See Alta mine, Rutherford County
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25-

Monroe mine

Type: Gold

Location: Moore County, 1/2 mile northwest of West Philadelphia; and
2 miles southwest of Spies, along Mill Creek.

Gold occurs in a quartz vein and in the country rock. Before the vein was discovered placer mining was carried on in Mill Creek and its tributaries. After the discovery of the vein the mine was operated intermittently until 1900.

References: Conley, 1962a, p. 26;
Pardee and Park, 1948, p. 64.

Montgomery mine

Type: Gold

Location: Cabarrus County, near the Concord City limits on the west
side. — (

This may have been a placer mine. Signs of old holes in biotite granite country rock on the bank of a deep ravine were seen in 1934.

References: C. B. Brown, 1934, written communication;
Nitze and Hanna, 1896, p. 121;
Pardee and Park, 1948, p. 63.

1 Montgomery (Uwarra) mine

2 Type: Gold

3 Location: Montgomery County, 2 1/2 miles northwest of Candor,
4 adjoining the Iola mine on the northeast. ←

5-
6 Gold bearing quartz veins in greenstone schist altered from
7 andesitic tuffs and porphyry. [The veins] are a continuation of the
8 lode at the Iola Mine which strikes N.55°E. The veins average 5 to 9
9 inches in width and some are displaced as much as 35 feet by faults.
10- The ore was almost free of sulfides.

11 The mine was opened in 1903 by the Montgomery Mining
12 Company. The Uwarra Mining Company owned the mine in 1911 and did a
13 great deal of development work during 1911 and 1912. By 1913 the
14 veins were opened by 2 shafts of 300 and 400 feet depths, with drifts
15- at 100-, 150-, 225-, and 300-foot levels, and a 50 ton cyanide plant
16 was in operation. During the last years of operation the ore averaged
17 0.165 to 0.215 ounce of gold per ton. The total production of the
18 Montgomery mine through 1915 is estimated at \$100,000.

19
20- References: Bryson, 1936, p. 77-78;

21 Pardee and Park, 1948, p. 82-83.

22 ✓ Pratt, 1905, p. 14;

23 Pratt, 1907, p. 51-53;

24 Pratt, 1914, p. 22, 38-44.
25-

Moody mine

Type: Gold

Location: Moore County, 2 miles southwest of Carter.

Reference: Pardee and Park, 1948, p. 64.

Moody prospect

Type: Copper

Location: Jackson County, on the southwest side of the Tuckasegee River, about 2 miles northeast of the Cullowhee mine.

The country rock is sericite schist. The ore seen on the dumps was composed chiefly of pyrrhotite with very little chalcopyrite. Some work was done before the Civil War, and the deposit was last explored in 1929 and 1930. The workings consist of several open cuts and a shaft said to be 165-feet deep. An analysis of ore by TVA in 1942 contained 0.19 percent copper, trace of zinc.

References: G. H. Espenshale, 1944, written communication.

A. R. Kinkel, 1957, written communication.

TVA, 194²₃, p. 32.
Tennessee Valley Authority,

Moore mine

Type: Gold

Location: Davidson County,

Galena, pyrite, and calcite were noted in the ore.

Reference: Genth and Kerr, 1881, p. 101.

1 Moore mine

2 Type: Gold

3 Location: Mecklenburg County,

4
5- The ore consists of disseminated sulfides with sphalerite, galena,
6 and pyrite in silicified slate and diorite. Vein no. 1 is opened by
7 the Blue Shaft. The Moore mine in Union County (303) also has a
8 No. 1 vein opened by a Blue Shaft, which suggests confusion.

9
10- References: J. T. Pardee, 1934, written communication;

11 Pardee and Park, 1948, p. 63.

12
1 Moore mine

2 Type: Gold

3 Location: Montgomery County, in the northeast part of the County.

4
5- Reference: Kerr and Hanna, 1888, p. 247;

6 Pardee and Park, 1948, p. 63.
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

1 Moore mine

2 Type: Gold

3 Location: Union County, 4 to $4\frac{1}{2}$ miles southwest of Brief, and 2 miles
4 southwest of the Long mine.

*This may be the same
mine as an unlocated Moore mine in Mecklenburg County.*

5
6 Quartz veins carrying pyrite, galena, chalcopyrite, and
7 sphalerite, are conformable with the foliation of chlorite schist
8 country rock. The main vein is 5 feet thick and contains a 4-inch
9 pay streak composed of calcite with free gold. The ores carry both
10 gold and silver. The No. 1 vein was developed in the 1890's by a
11 shaft 80 feet deep known as the "Blue shaft," which was further
12 developed in 1906. The No. 2 vein, $\frac{1}{2}$ mile to the east, was developed
13 in 1906 by the Moore Mining Company under Mr. R. J. Wentz. The Wentz
14 shaft was sunk to a depth of 180 feet. On the No. 3 vein, parallel
15 to the No. 2 vein and 150 feet away, are 2 shafts, each 50 feet deep.
16 There was a 3-stamp mill on the property in 1906. Ore from the dump
17 of the Wentz shaft assayed 0.15 ounce of gold and 0.03 ounce of silver
18 per ton.

19
20 References: Bryson, 1936, p. 92;

21 Kerr and Hanna, 1888, p. 190-191;

22 ✓ Nitze and Hanna, 1896, p. 95-96;

23 Nitze and Wilkens, 1897, p. 63;

24 Pardee and Park, 1948, p. 103-104;

25 Pratt, 1907, p. 62-63.

1 Moore, John C., mine

U. S. GOVERNMENT

2 see Warne mine, Clay County.

1 Moore Hill mine

2 Type: Gold

3 Location: Union County, 10 miles northwest of Monroe. The Moore

4 Hill mine is the southernmost of a group of mines known as the

5- Moore Hill or Lewis group distributed along a northeastward-

6 trending mineralized zone for a distance of about 3 miles.

7 Other mines of the group are, from southwest to northeast,

8 the Davis, Folger Hill, Ore Hill, Phifer (Price, Mint Hill),

9 Lewis, East Hill, Hemby, and Harkness mines.

10-
11 Gold occurs in a zone of argillaceous schist 3 miles long and
12 about $\frac{1}{2}$ mile wide. The schist varies from soft to highly silicified

13 and is impregnated with finely divided pyrite, lenses of pyrite and
14 calcite, and stringers of quartz. The schist carries from 3 to 5

15- parallel bodies of gold-bearing material. These bodies are from 1

16 foot to several feet wide, and are composed of vertical layers in

17 which the original slaty rock of the volcanic series has been replaced

18 by ⁿfine-grained quartz. Silver-bearing galena occurs in the ore of

19 several of the mines.

20- The Moore Hill mine was opened before the Civil War and has been
21 worked for a length of 100 feet and to a depth of 70 feet. In 1933

22 exploration work was undertaken at this group of mines. At one spot
23 a shaft was sunk to a depth of 40 feet. The ore from this shaft was
24 a soft, decomposed schist containing numerous stringers of quartz.

Several unsuccessful attempts were made by Mr. A. J. Terry of Charlotte
to mill this ore and ore obtained from prospect pits. Free gold from
old dumps assayed from 0.05 to 0.06 ounce of gold per ton.

1 References: Bryson, 1936, p. 95-97;
 2 Bryson, 1937, p. 18;
 3 Kerr and Hanna, 1888, p. 189, 263;
 4 Nitze and Hanna, 1896, p. 100-102.

5- MORATOCK mine

2 Type: Gold

3 Location: Montgomery County, 1 mile southeast of Moratock, and
 4 a few hundred yards north of Highway N. C. 27 on the
 5- western edge of the Uwharrie Mountains, or 8 miles
 6 south of Eldorado ~~A~~

7
 8 The country rock is sheared quartz porphyry and
 9 felsic tuff. Quartz veins up to 10 inches in width
 10- carry gold, chalcopyrite, pyrite, and copper carbonate.
 11 The pyrite assayed less than \$1.00 per ton. The mine
 12 was opened by two northeast trending open cuts 200
 13 feet long and a shaft. A 10-stamp mill with a cyanide
 14 plant operated until 1893, when the ore was reported to
 15- be of too low grade to be profitably treated.

16 References: Bryson, 1936, p. 75;
 17 Conley, 1962, p. 17-18;
 18 Nitze and Hanna, 1896, p. 79-80;
 19 Nitze and Wilkens, 1897, p. 53-54;
 20- Pardee and Park, 1948, p. 63.
 21

1 Morgan mine

2 Type: Gold

3 Location: Davidson County, 2 1/2 miles north of Silver Hill. (

4
5- Reference: Pardee and Park, 1948, p. 62.

6
1 Morgan mine

2 Type: Gold

3 Location: Rowan County, 8 to 10 miles east of Salisbury.

4
5- Reference: Kerr and Hanna, 1888, p. 282.

6
13
14
1 Morris mine


2 Type: Gold

3 Location: Polk County, at Sandy Plains.

4
5- Reference: Genth and Kerr, 1881, p. 115.

Morris Mountain (Davis, Dutton, Ophir) mine

1 Type: Gold

2 Location: Montgomery County, 0.6 mile north of Eldorado, a few
3
4 hundred yards northwest of the Eldorado-Coggins mine road, and
5 one mile west of the Appalachian or Coggins mine, on the west
6 flank of the ^WUharrie Mountains. 

7
8 The occurrence of gold here is similar to that at the Russell
9 mine. The argillaceous slate country rock is crushed, fractured,
10 silicified, and mineralized with fine pyrite. Coarse gold in quartz
11 stringers was seen in the shear zone and in joint planes in the schist.
12 Two shallow shafts were put down around 1890. The mine was last
13 worked in 1910 by Louis Dunkard who milled the ore at the Dark
14 Springs mine mill.

15 References: C. B. Brown, 1934, written communication;
16 Conley, 1962, p. 17;
17 Kerr and Hanna, 1888, p. 251-252;
18 Nitze and Hanna, 1896, p. 76-77;
19 Nitze and Wilkens, 1897, p. 53;
20 Pardee and Park, 1948, p. 63.

Morrison mine

1 Type: Gold

2 Location: Cabarrus County, near Concord,
3
4

5 Reference: Pardee and Park, 1948, p. 62.

1 Moseley's Farm prospect

2 Type: Copper

3 Location: Surry County, 5 miles from Elkin.

4

5- Pyrite and chalcopryite were found in a 3-foot wide quartz vein in
6 schist.

7

8 Reference: Kerr and Hanna, 1888, p. 231.

9

10-

11

12

13

14

15-

16

17

18

19

20-

21

22

23

24

25-

1 Moss-Dryden (Moss-Richardson) mine

2 Type: Molybdenum

3 Location: Halifax County, 1.8 miles south of the Jones-Boy Scout
4 mine, and 3.5 miles east of Hollister.

5
6 The general geologic setting is the same as at the Jones-Boy
7 Scout mine, this opening being at the south end of the small granite
8 body associated with the Molybdenum, and the Jones-Boy Scout mine
9 near the north end. Molybdenite occurs with pyrite, chalcopyrite,
10 and sericite in a quartz vein in the granite near a diabase dipe^K.

11 Secondary minerals are molybdite filling cracks in the quartz veins,
12 and chalc^corite and covellite coating pyrite.

13 The deposit was studied by the U.S. Bureau of Mines in 1943,
14 1944, and 1946. It has been ^{sp}protected by shallow pits. A study by
15 the U.S. Geological Survey showed the Dryden vein to be essentially
16 barren except where it outcrops in the creek.

17
18 References: Broadhurst, 1955, p. 23-24;

19 Hafer, 1942, p. 83;

20 J^Bulih^{and} & Moon, 1945, p. 32;

21 Murdock, 1950, p. 15-16;

22 Koschmann, 1943, p. 10-12;

23 Robertson, McIntosh, ^{and} & Ballard, 1947, p. 9 p.;

24 Stuckey, 1965, p. 327.

1 ~~Mostellar~~ ^{J.} Vein

2 Type: Tin

3 Location: Lincoln County, southwest of the Henry ¹/₂ Shaft, part of the
4 Ka-Mi-Tin mine.

5-
6 Cassiterite occurs in greisen gangue in muscovite schist and
7 hornblende gneiss wall rock.

8
9 Reference: Kesler, 1942, table 18.

10
11 Mountain mine

12 Type: Gold

13 Location: Cleveland County.

14
15- Gold occurs in placers; also associated with pyrite, galena,
16 and arsenopyrite.

17
18 Reference: Genth and Kerr, 1881, p. 100.

19
20
21 Mount Zion mine.

22 Type: Gold

23 Location: Wilkes County. *near Mount Zion*

24
25- Reference: Bryson, 1930, p. 19.

1 Mueller (Muller) mine

2 Type: Gold

3 Location: Lincoln County, 5 miles east of Lincolnton, on the J. F.
4 Mueller farm.

5-

6 Placer gold was panned along a small stream. The source may have
7 been stringers of quartz, several of which are exposed nearby. A rich
8 pocket of gold is said to have been mined before the Civil War in the
9 vicinity of the Keener lime quarry nearby.

10-

11 Reference: Pardee and Park, 1948, p. 77.

12

13

14

15-

16

17

18

19

20-

21

22

23

24

25-

M^mufford mine

1 Type: Gold

2 Location: Stanly County, 1 mile west of New London on a branch of
3 Town Creek.

4
5- This was a placer mine with the gold concentrated in the lowest
6 foot of a 3-foot thick gravel bed. A 1½ feet wide quartz vein in
7 andesite tuff was traceable for some distance. Mr. A. V. Wynne of
8 New London tested the gravels in 1933 with a G-B portable placer
9 machine. He reported an average recovery of ½ dwt. per yard from the
10- "valley bottom grit" and ¾ dwt. per yard from the "dry-run grit".
11 The deposit has been worked for a length of 900 yards and a width of
12 75 to 150 feet. Near the upstream end of the mine an open-cut
13 extends 300 feet up a dry run.
14

15- References: C. B. Brown, 1934, written communication;
16 Bryson, 1937, p. 20-21;
17 Pardee and Park, 1948, p. 97.
18

Myers mine

1 See Gold Hill mine, Rowan County.
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25-

1 Nall mine

2 Type: Gold

3 Location: Montgomery County, near Stokes' Ferry.

5-
6 References: Kerr and Hanna, 1888, p. 253;

7 Pardee and Park, 1948, p. 63.

8
9
1 Nantahala mine

2 see Patton mine, Macon County(

3
4
5
6
7
8
9
10
11
12
1 Narville mine

2 Type: Gold

3 Location: Cabarrus County, 3-3/4 miles northwest of Georgeville;
4 on Mrs. Addie Foil's place. —

5-
6 A 10 to 12 inch quartz vein, possibly a continuation of the
7 Phoenix vein. A 100-foot shaft was worked about 1900.

8
9 References: C.B. Brown, 1934, written communication;

10- Pardee and Park, 1948, p. 62.

11
12
1 Nash and Plott mine

2 Type: Gold

3 Location: Cabarrus County, 5 1/2 miles southeast of Concord. —

4
5- Reference: Pardee and Park, 1948, p. 62.

1 Neal mine

2 Type: Gold

3 Location: Polk County, South Mountain area,

4
5- Reference: Nitze and Hanna, 1896, p. 174.

1 Neal, F. S., mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles northeast of Charlotte.

4
5-
6 Reference: Pardee and Park, 1948, p. 63.

12
1 Neal, T. G., mine

2 Type: Gold

3 Location: Mecklenburg County, adjoins the Stephen Wilson mine.

4
5-
6 References: Nitze and Hanna, 1896, p. 132;
7 Pardee and Park, 1948, p. 63.

20-
1 Negus mine

2 Type: Gold

3 Location: Rowan County, southwest of Salisbury, east of the Southern
4 Railroad.

5-
6 Reference: Nitze and Hanna, 1896, p. 117.

1 Nesbitt mine

2 Type: Gold

3 Location: Union County, 2 1/2 miles southwest of Waterloo.

4

5-

6 Reference: Pardee and Park, 1948, p. 65.

7

1 ^e
Nittie mine

2 See Stackhouse mine, Madison County.

10-

1 Newby Mine (Newberry)

2

3 Type: Gold

4 Location: Randolph County, 4 miles south of west of Asheboro,

5-

6 The country rock is a dense silicified tuff which
7 is impregnated with sulfides. The gold may be carried
8 in porcelainite stringers in the silicified tuff.

9 The mine was worked in the 1880's or earlier. A shaft
10 and several pits were seen in 1934.

10-

11 References: C. B. Brown, 1934, written communication;

12 Pardee and Park, 1948, p. 64.

23

24

25-

1 New Discovery Mine

2
3 Type: Gold

4 Location: Rowan County, 3 miles east of Salisbury, and 2 miles
5- north of Granite Quarry.

6 The ore was in a quartz vein in a sheared diorite
7 granite complex about 200 yards northwest of the main
8 granite body passing through Dunns ^{Mountain} Mt. The mine was
9 worked to a depth of about 100 feet in the 1880's and
10- 1890's. In 1883 a plant for treating the ore by the
11 Designolle process was erected, but the ore was found
12 deficient in quantity and difficult to treat, and all
13 operations ceased toward the close of the year.

14
15- References: Brown, C. B., 1934, written communication;
16 Nitze and Hanna, 1896, p. 117.

1 Newell mine

2 See Dixie Queen mine, Cabarrus County.

3
20-
1 Newell mine

2 Type: Gold

3 Location: Mecklenburg County,

4
5- Reference: Pardee and Park, 1948, p. 63.

Newlin's mine

Type: Gold

Location: Alamance County,

Gold, pyrite, and chalcopryrite were noted.

Reference: Genth and Kerr, 1881, p. 91.

New Nugget mine

See Nugget mine, Cabarrus County.

New Savannah mine

See Savannah mine, Jackson County

New Sawyer (Ross, Powell) Mine

Type: Gold

Location: Randolph County, 3 miles northeast of the Sawyer Mine

Several mineralized zones in quartz sericite schist with interbedded tuff layers were described. One zone 3 to 15 feet wide for a length of 500 feet assayed 0.057 to 0.24 ounce of gold per ton. Another zone showed an average of 0.046 ounce ^{of gold} per ton across a width of 87 feet. Work was done here in 1902, and the sampling mentioned above was done in 1930 by H. D. McDonald.

References: C. B. Brown, 1934, written communication;
Pardee and Park, 1948, p. 88.

1 New South mine

2 Type: Gold

3 Location: Union County, 1/2 mile southwest of the Moore mine.

4
5- Disseminated pyrite with gold in stringers of quartz was found
6 in greenstone schist. The mine was worked down to the 25-foot level,
7 below which the ore was unoxidized and the gold could not be profitably
8 extracted by the methods then in use.

9
10- References: Bryson, 1936, p. 93;

11 Nitze and Hanna, 1896, p. 98;

12 Pardee and Park, 1948, p. 104.

1 Nibelong (Niebelung, Blue Ridge) mine

2 Type: Gold

3 Location: Caldwell County, 11 miles north of Morganton and near Hartland.

4
5-
6 A gold-bearing quartz vein averaging 2 feet in width was developed
7 in 1903 by the Blue Ridge Mining and Milling Company. A 75-foot shaft
8 was sunk with drifts running 60 feet to the northeast and 55 feet to
9 the southwest. The property was equipped with a 5-stamp mill. In
10- 1912 development work was done by the Niebelung Gold Mining Company,
11 successor to the Blue Ridge Mining and Milling Company. A small amount
12 of gold was produced in 1913.

13
14 References: Pratt, 1904, p. 15; 1914, p. 18;

15- Pratt and Berry, 1919, p. 22.

Nick Arrington mine

1 Type: Gold

2
3 Location: Halifax County, 12^(?) miles east of the Portix^s mine.

4
5- References: Bryson, 1936, p. 63;

6 Kerr and Hanna, 1888, p. 24;

7 Nitze and Hanna, 1896, p. 27.

8
1 Nolan mine

2 Type: Gold

3 Location: Mecklenburg County, near the Ferris mine, about 5-6 miles
4 north of Charlotte.

5-
6 Gold and pyrite were noted in the ore.

7
8 References: Genth and Kerr, 1881, p. 111;

9 Nitze and Hanna, 1896, p. 143;

10- Pardee and Park, 1948, p. 63.

Nooe mine

Type: Gold

Location: Davidson County, 3 miles north of Silver Hill.

The vein averages 3 feet thick and consists of quartz stringers, containing lenses of ore, distributed in fragmental dark blue schist, which is probably derived from mashed andesitic tuff. The ore is a mixture of galena, sphalerite, pyrite, with a little gold and chalcopryite. A 60 foot shaft was sunk in 1880, and a gold mill was erected which operated for about two months.

References: Pardee and Park, 1948, p. 62;

Pogue, 1910, p. 107.

Norlina (Nor-Lin) mine

Type: Gold

Location: Davidson County, near Silver Hill,

A small stamp mill was operated at this mine in 1903 by the Nor-Lin Mining Company.

Reference: Pratt, 1904, p. 11, 15.

North mine

See Gold Hill mine, Rowan County.

1 North Carolina mine

2 Type: Gold

3 Location: Franklin County, just below the Portis mine on Shocco

4 Creek. 

5
6 This was a placer mine in saprolite similar to the Portis mine.
7 The gold was mainly in a layer of clean gravel from 6 inches to 3
8 feet thick, on bed-rock, with a layer of tough clay over it. The
9 valley floor was several hundred feet wide with a very low gradient,
10 and the conditions were thought to be favorable for the operation of
11 a dredge. It was operated by the North Carolina Dredging Co.

12 Reference: Crosby, 1907, p. 856.
13
14
15
16
17
18
19
20
21
22
23
24
25

North Carolina (Fe^{7V}ytress) mine

1 Type: Gold, copper

2 Location: Guilford County, 9 to 10 miles south of Greensboro.

3
4 A quartz vein from 1 to 8 feet wide consisting of a number of
5- stringers was traced for 3 miles along the outcrop along the eastern
6 border of the igneous belt, in the thin edge of the granite where it
7 is cut by numerous trap dykes and other eruptive rocks. The vein
8 carries siderite, chalcopyrite, pyrite, and gold. ^{An} ~~Some~~ ore shoot ⁸⁰ ~~90~~ to
9 90 feet long and 34 inches thick at the 310-foot level consisting
10- mostly of solid copper (chalcopyrite) was described by Emmons in 1856.
11 Long intervals of barren vein separated the ore shoots. In the lower
12 levels there was almost no copper.

13 The mine was opened before 1853 as a gold mine, but at a depth of
14 50 feet iron and copper sulfides were found, and the deposit con-
15- sequently achieved the distinction of being the first in North Carolina
16 to be mined for copper. Emmons, in 1856, estimated that the mine had
17 produced between 1,400 and 1,500 tons of ore averaging from 14 to 23
18 percent copper worth about \$133,000. The mine has been idle most of
19 the time since 1856 except for intermittent operation during 1901-1907,
20- when it produced \$26,000. At that time the mine was opened by the
21 Century Development Company of New York, which was milling an old
22 copper slag dump for gold. The newly mined ore was said to assay
23 50 ounces of gold per ton, and the concentrates to carry 7 percent
24 copper. The total production to 1935 was estimated at \$175,000. The
25-

1 Main or Engine shaft was 400 feet deep with 4 levels from 300 to 500
 2 feet in length. Other shafts were the Worth shaft at the extreme
 3 southwestern end of the vein, 310 feet deep, and the Colby shaft.

4 References: Bryson, 1936, p. 106;

5- Emmons, 1856, p. 196-202;

6 Kerr and Hanna, 1888, p. 206;

7 Nitze and Hanna, 1896, p. 111-112;

8 Nitze and Wilkens, 1897, p. 46;

9 Pardee and Park, 1948, p. 75;

10- Pratt, 1907, p. 38-39;

11 Stuckey, 1965, p. 281, 304-305,

12
 1 Northeast Shaft

2 Type: Copper

3 Location: Person County, about 1,500 feet northwest^{ca} of the main shaft
 4 of the Durgy mine.

5- A shaft said to be 100 feet deep is sunk on a vein not more than
 6 3 feet wide which is parallel to the main vein of the Durgy mine in
 7 strike. This vein has been traced for over one-half mile by quartz
 8 debris on the surface. The ore seen on a pile at the surface is nearly
 9 pure chalcocite with very little bornite in a gangue of quartz with
 10- small amounts of calcite, epidote, chlorite, and inclusions of green-
 11 stone schist country rock.
 12

13
 14 Reference: Laney, 1917, p. 141-142.

1 North Fork Creek prospect

2 Type: Lead-zinc

3 Location: McDowell County, on the west side of North Fork Creek near
4 its headwaters.


5-
6 Galena and sphalerite are found replacing limestone of the Shady
7 Dolomite along a fault zone, the lead-zinc minerals are spotty and not
8 uniformly distributed through the limestone. Exploration work was
9 done by the American Zinc Company in 1935. Investigations were
10- discontinued after several hundred tons of limestone had been blasted off
11 the cliff face.

12
13 Reference: Bryson, 1937, p. 36-37.
14
15-
16
17
18
19
20-
21
22
23
24
25-

North State (McCullough) mine

1 Type: Gold, copper

2 Location: Guilford County, 2½ miles south of Jamestown, on the
3 north side of U.S. Highway 29, 0.5 mile northeast of Krivett Drive.

4 

5- This mine is on a northeast striking vein system in granite,
6 which includes, from ~~the~~ southwest to northeast, the Lindsay, North
7 State, Jacks Hill, Whitehead, and Aberdeen mines, for a total length
8 of nearly 3 miles. Emmons described the vein as being from 2 feet to
9 24½ feet wide, with belts of auriferous^u "brown ore", chalc^Popyrite, and
10- gold-rich pyrite nodules. The quartz was generally poor in gold. The
11 ore occurs^{red} in shoots and pockets and consists^{ed} of pyrite, chalcopyrite,
12 cuprite, malachite, native gold, and native copper in a gangue of
13 quartz and siderite. The vein was very productive of gold to a depth
14 of 50 feet, and of copper from 50 to 100 feet.

15- The mine was active before the Civil War. Between March and
16 November 1854 the mine produced \$35,000 in gold and \$10,500 in copper;
17 the total production is estimated to be at least \$125,000. The mine
18 was last worked between 1880 and 1885 and was abandoned in 1885. The
19 ~~Main~~ shaft, known as the Eudy Shaft, was a 350-foot inclined shaft with
20- levels at the 90, 130, and 150 foot levels. At the 130-foot level the
21 mine connects with the Jacks Hill and the Lindsay mines. Other shafts
22 put down in the 1880's were the Rodman, 200 feet deep, the Peters, and
23 the Long Shafts. In 1883 a stamp mill^{of} 10 or 20 stamps was erected.

24
25-

1 References: C. B. Brown, 1934, written communication;
2 Bryson, 1936, p. 107-108;
3 Conley, 1958, p. 34;
4 Emmons, 1856, p. 170-172;
5- Genth and Kerr, 1881, p. 104;
6 Kerr and Hanna, 1888, p. 207;
7 Nitze and Hanna, 1896, p. 114-116;
8 Nitze and Wilkens, 1897, p. 46;
9 Pardee and Park, 1948, p. 76.
10-
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25-

1 Nugget (Biggers, New Nugget) mine

2 Type: Gold

3 Location: Cabarrus County, one mile northeast of Georgeville.

4
5- The country rock is argillaceous schist of the volcanic series which
6 is intersected by basic dikes. Gold has been mined from placers on
7 an ancient gravel channel in a dry ravine that heads near the crest of
8 a low ridge. Pyrite-and galena-bearing rusty quartz veins in greenstone
9 near the summit of the ridge have been explored by a number of shallow
10- pits. Placer gold has been mined here off and on since 1885, and the
11 total production is estimated at 4,000 ounces or more. In 1932 a
12 twelve and one-half pound gold nugget was recovered that sold for \$3,400.
13 In 1935 the property was owned by M. E. Herrin of Charlotte, N. C.
14 A. L. Nash of Kannapolis cleaned out the Nugget mine in the 1950's.

15-
16 References: Broadhurst, 1955, p. 21;

17 Nitze and Hanna, 1896, p. 91-94;

18 Nitze and Wilkens, 1897, p. 61;

19 Pardee and Park, 1948, p. 67.

20-
21 No. 3 mine

22 See Orchard mine, ^C Cabarrus County. (

No. 813 mine

2 Type: Gold

3 Location: Cabarrus County, near Georgeville,

4

5- The mine was operated at some time from 1929 to 1935 by the
6 Cabarrus Mining and Milling Company.

7

8 Reference: Bryson, 1937, p. 27.

9
1 Oak Hill mine

2 Type: Gold

3 Location: Guilford County, near High Point.

4

5- The mine was developed during 1903 by the Oak Hill Mining
6 Company with satisfactory results. No ore was ever shipped; however.

7

8 Reference: Pratt, 1904, p. 15.

17

1 Oconaluftee River

2 Type: Gold, Lead

3 Location: Swain County.

4

5- Gold, argentiferous galena, pyrite, and chalcopryrite were
6 reported.

7

8 Reference: Genth and Kerr, 1881, p. 118.

9

1 Old Field Mine

2 Type: Gold

3 Location: Rowan County, southwest of the Barnhardt vein of the
4 Gold Hill Mine. (

5-
6 The Old Field is probably a continuation of the
7 Barnhardt-Miller mineralized zone and the ore is of
8 the same type. The mine was worked to a depth of
9 130 feet. The production of the Old Field and
10- Barnhardt veins to 1935 is given by Pardee and Park as
11 \$730,000 in gold at \$20.67 per ounce.

12 References: Laney, 1910, p. 102;
13 Nitze and Hanna, 1896, p. 88;
14 Pardee and Park, 1948, p. 89.
15-

1 Old Miller mine

2 Type: Gold

3 Location: Caldwell County, adjoining the Baker mine at John's River.
4

5- This was a placer digging.
6

7 References: Nitze and Hanna, 1896, p. 177;
8 Pardee and Park, 1948, p. 62.
24
25-

1 Old Well Shaft

2 Type: Tin

3 Location: Lincoln County, southwest of the Henry shaft, of the Ka-Mi-
4 Tin mine.

5-
6 Cassiterite ore occurs in greisen gangue in muscovite schist and
7 gneiss wall rock. The ore body is conformable with the wall rock. In 1942
8 the shaft was flooded to a depth of 65 feet.

9
10- Reference: Kesler, 1942, table 18.

1 Oliver mine

2 Type: Gold

3 Location: Gaston County, 12 miles northwest of Charlotte and 1 mile
4 east of Mountain Island, on the west side of the Catawba River.

5-
6 Gold, silver, and pyrite occur with notable amounts of galena.
7 Oxidized ore and cellular quartz are found near the surface and sulfides
8 appear at a depth of 75 feet.

9 This is believed to have been among the earliest operated mines
10- in the area, having been worked prior to the Revolutionary War.

11 The workings extended for a distance of 100 yards.

12
13 References: Bryson, 1936, p. 129;

14 Genth and Kerr, 1881, p. 103;

15- Kerr and Hanna, 1888, p. 303;

16 Nitze and Hanna, 1896, p. 149;

17 Pardee and Park, 1948, p. 62.

1 Oliver (Crouse, Pasour) mine

2 Type: Pyrite

3 Location: Gaston County, 6 miles from Dallas and $4\frac{1}{2}$ miles southeast
4 of Crouse on the Seaboard Air Line Railway.

5-
6 Pyrite seams and lenses having a thickness of from $3\frac{1}{2}$ to $7\frac{1}{2}$ feet
7 are exposed for a length of $2\frac{1}{2}$ miles on the surface. The deposit
8 has been opened by shallow pits and trenches. Pyrite was mined by
9 the Carolina Pyrite Co., until 1901, when the mine passed into the
10- hands of the Virginia-Carolina Chemical Co. and was shut down. In
11 1911 and 1912 the mine was reopened and developed by the Southern
12 Sulphur Co., of Scanton, Pa. A stope driven to a depth of 260 feet
13 showed 51 inches of ore in the face. The mine was being developed
14 in 1917 and in 1919 the Federal Pyrites Co., worked the property.
15- From 75,000 to 100,000 tons of ore were blocked out in 1917. An
16 analysis made by the U.S. Geological Survey gave 46.49% S; 39.92% Fe;
17 1.38% Cu, 2.30% Zn, and 0.30% Pb.

18
19 References: Pratt, 1904, p. 24; ^{Pratt,} 1914, p. 75; ^{Pratt and Berry,} 1919, p. 88; Shotts
20- and Cudworth, 1953, p. 47-53; U.S.G.S. Min. Res. 1917,
21 p. 45-46.

Stuckey, 1965, p. 331;

1 Oliver No. 2 mine

2 Type: Gold

3 Location: Gaston County, $1\frac{1}{2}$ miles west of Mount Holly.

4
5- Reference: Pardee and Park, 1948, p. 62.

Ophir mine

See Morris Mountain mine, Montgomery County

Ophir (Davis) mine

Type: Gold

Location: Montgomery County, between the west flank of the Uharie^w Mountains and the Uharie^w River.

This [was a] placer mine [and] was profitably worked as long as there was a good supply of water. There was some difficulty in recovering the gold due to a tenacious clay overlying the gravel. A 30-foot wide belt of saprolite here was found to mill \$3 per ton, in 1895.

References: Bryson, 1937, p. 78;

Kerr and Hanna, 1888, p. 248;

Nit^zte and Wilkens, 1897, p. 52;

Pardee and Park, 1948, p. 63.

1 Orchard, Sulphur, Elwood, No. 3, mines

2 Type: Gold

3 Location: Cabarrus County, 1/4 mile east of the Phoenix mine.

4
5- A gold-bearing vein carrying chalcopyrite, pyrite, and barite runs
6 parallel to the Phoenix vein. Emmons, in 1856, did not consider the
7 vein rich enough to work. The Connor and Simonton tract, on which the
8 Orchard, Sulphur, and Elwood mines were located, was owned by the Phoenix
9 Gold Company in 1854.

10-
11 References: Emmons, 1856, p. 178;

12 Genth and Kerr, 1881, p. 96;

13 Mining Mag. 1854, ^{1st ser.,} v. 2, no. 6, p. 660.

14
1 Ore Hill mine

2 Type: Gold

3 Location: Union County, 5 miles southwest of Indian Trail and east
4 of the Phiifer mine, and in the Moore Hill group of mines.

5-
6 The ores are described under the Moore Hill mine. At this mine
7 a system of cross fissures has been worked to a depth of 80 feet.

8
9 References: Bryson, 1936, p. 96;

10- Nitze and Hanna, 1896, p. 103;

11 Pardee and Park, 1943, p. 102.

1 Ore Knob mine

2 Type: Copper

3 Location: Ashe county, about 12 miles east of West Jefferson, along
4 Peak Creek, a small tributary of the South Fork of the New River,
5- on the slope of Ore Knob. It is on North Carolina highway 88,
6 just north of the village of Ore Knob.

7
8 Massive and diss^eminated pyrrhotite-chalcopyrite-pyrite ore formed
9 along a fault zone in Precambrian mica and amphibole gneiss and schist.
10- Following ore deposition, vein sulfides and silicates in the wall rock
11 were recrystallized to coarse-grained aggregates of silicates and
12 sulfides. The ore body is a veinlike body 2 to 10 feet thick, but it
13 thickens with ^depth to form an ore shoot as much as 40 feet thick. The
14 ore shoot plunges 20° SW parallel to the lineation in the wallrock, and
15- has been developed over a plunge length of 4,000 feet. The ore contains
16 minor sphalerite, galena, magnetite, gold, and silver. A gossan 40 to
17 60 feet deep formed over the primary ore and was underlain by a thin
18 zone of enriched copper ore.

19
20-
21
22
23
24
25-

1 The mine was opened in 1855, when 4 shallow shafts were sunk, and
 2 enriched ore containing 19 percent copper was shipped. The mine was closed
 3 the following year, but was reopened in 1873, and between 1873 and 1883
 4 200,000 tons of primary ore were mined to produce 12,500 tons of copper.
 5- During this period 11 shafts were sunk, the deepest of which was 400
 6 feet. The mine was worked again in 1896, 1913, 1917-17, and 1927. In
 7 1955 Appalachian Sulphides, Inc., reopened the mine and operated it
 8 continuously until 1962, when it was again closed down. Total
 9 production to the end of 1961 is estimated at about 35,000 tons of
 10- copper, 9,400 ounces of gold, and 145,000 ounces of silver.

11
 12 References: Conley, 1958, p. 11-13;

13 G. H. Espenshade, 1943, written communication;

14 Kerr and Hanna, 1888, p. 226-230;

15- Kinkel, 1962, p. 1116-1121; 1967, 58p;

16 Ross, 1935, p. 67-77;

17 Stuckey, 1945, p. 283-284;

18 Weed, 1911, p. 128-132.

 1900, p. 496-497;

Ore Knob mine

1 Type: Gold

2 Location: Davidson County,

3
 4 Reference: Pardee and Park, 1948, p. 62.
 5-
 25-

1 Ormond mine

2 Type: Iron, cobalt, gold

3 Location: Gaston County, 1 mile southwest of Bessemer City. The
4 Ormond gold mine location given as 5-1/2 miles west of Gastonia is
5 approximately the same location.

6
7 Considerable amounts of cobaltian wad or asbolite, were found mixed
8 with the iron ore at this mine in the 1850's. It was probably the
9 cobalt which went into the pig iron that gave the pig iron of that mine
10 the hardness and toughness for which it was noted.

11
12 Reference: Nitze, 1893, p. 97-102;

13 Pardee and Park, 1948, p. 62;

14 Pratt, 1907, p. 17;

15 Stuckey, 1965, p. 278;

16 Wurtz, 1859, p. 28-29.

17
1 Ormond, J. A., prospect

2 Type: Tin

3 Location: Gaston County, at north end of Chestnut Ridge.

4
5 A shallow pit is reported to have encountered cassiterite ore
6 in 1936. In 1940 it was inaccessible and no ore was seen.

7
8 Reference: Kesler, 1942, table 18.

1 Ormond-Carr prospect

2 Type: Tin

3 Location: Gaston County, adjoins the J. A. Ormond prospect on the
4 south, 1/4 mile east of Long Creek Church.

5-
6 Cassiterite occurs in greisen and feldspathic pegmatite in
7 muscovite and hornblende schist and gneiss. An 8-foot shaft and a
8 few pits were made in a north-south direction along an outcrop of
9 pegmatite.

10-
11 Reference: Keith and Sterrett, 1918, p. 143; Kesler, 1942, table 18.

1 Ormond, M., Farm prospect

2 Type: Tin

3 Location: Gaston County, about 3/4 mile southwest of the Ormond-
4 Carr prospect.

5-
6 Cassiterite is reported in greisen gangue in muscovite schist
7 and gneiss country rock.

8
9 Reference: Kesler, 1942, table 18.

1 Orr, R.B., mine

2 Type: Gold

3 Location: Mecklenburg County, 5 miles north of east of Charlotte.

4
5- Reference: Pardee and Park, 1948, p. 63.

1 Otto (Cabe, Little Tennessee, Macon) mine

2 Type: Copper

3 Location: Macon County, about 1½ miles southeast of Otto and 10 miles
4 south of Franklin.

5-
6 Massive sulfide ore consisting of pyrrhotite with pyrite,
7 sphalerite, and chalcopyrite occurs in a country rock of granite
8 gneiss and hornblende gneiss, ~~of the Carolina Gneiss.~~ The deposit is
9 overlain by a gossan cap. A sample of ore taken in 1917 assayed
10- 33.29 percent S, 45.67 percent Fe, 1.14 percent Zn, 0.21 percent Cu,
11 and 0.26 percent Pb. The mine was first opened in 1857. A tunnel
12 and 3 shafts have explored the gossan belt. The mine was reopened in
13 1917-18.

14 References: Bannister, Cowan and Company, 1869, p. 51;

15- Espenshade, 1944, written communication;

16 Ross, 1935, p. 87-89;

17 Weed, 1911, p. 140;

18 U.S.G.S., [Min. Res.] 1917, p. 46.

19 Overton mine

1 See Allred mine, Randolph County
2

22 Packe's Hill mine

1 see Pax Hill mine, Caldwell County
2
25-

1 Palachian mine

2 Type: Gold, copper

3 Location: Guilford County, 10 miles from Greensboro.

4
5- The mine was opened by Mr. Jones of the ^ITola mine, but very
6 little was found and the mine was abandoned early in 1906.

7
8 Reference: Pratt, 1907, p. 39.

9 Palmer mine

1 See Russell mine, Montgomery County

12 Pannebaker prospects

1 Type: Copper

2
3 Location: Granville County, on the line between Person and Granville
4 Counties and about one-half mile south of the old Blue Wing
5- post-office.

6
7 Prospect pits were opened in 1907 by William M. Pannebaker on
8 native copper disseminated as thin plates in quartz and epidote in
9 Virgilina Greenstone country rock. Cuprite and carbonates were
10- derived by oxidation.

11
12 Reference: Laney, 1917, p. 155-156.

1 Panther Knob prospect

2 Type: Copper

3 Location: Jackson County, on the north side of Panther Knob, about
4 3 miles southwest of the village of Cullowhee.

5- County rock is garnetiferous quartz - mica - feldspar schist.

6 No sulfide minerals were found. There was a shallow opening in
7 limonite-stained schist.
8

9 Reference: G. H. Espenshade, 1944, written communication.
10-

1 (Little Hungry River, Brown)
Pardo mine

2 Type: Lead

3 Location: Henderson County, 8.5 miles N.72°E. of Hendersonville and
4 1 mile downstream from Copper Ford, near the headwaters of
5- Little Hungry River.

6 This occurrence of complex galena, sphalerite, chalcopyrite,
7 and pyrite ore was discovered in about 1932, and has been prospected
8 intermittently since that time. The Tennessee Valley Authority
9 prospected it in 1949, [in] 1952, and 1953. Pardo Mine's put down
10- several diamond-drill holes.
11

12 Reference: Broadhurst, 1955, p. 21;
13 Stuckey, 1965, p. 323.
14
25-

1 Parish (Kindley, Kismet) mine

2 Type: Gold

3 Location: Randolph County, 3/4 mile southwest of the Jones-Keystone
4 mine, and 2 miles north of Jackson Creek. —

5—
6 The country rock is similar to that at the Hoover Hill mine. It
7 has been described as a decomposed schist, derived from andesitic tuff.
8 The rock is reddish from iron stains and is impregnated with pyrite
9 and gold. The ore body was said to be ^{if} ~~auriferous~~ ^ψ actinolite,
10— containing pyrophyllite, pyrrhotite, and pyrite. The mine was worked
11 before 1896, and was reopened in 1903, and again in 1929, 1930, and
12 in 1931.

13
14 References: C. B. Brown, 1934, written communication;

15— Kerr and Hanna, 1888, p. 256;

16 Nitze and Hanna, 1896, p. 59;

17 Nitze and Wilkens, 1897, p. 47;

18 Pardee and Park, 1948, p. 64;

19 Pratt, 1904, p. 13.
20—
21
22
23
24
25—

Parker mine

Type: Gold

Location: Cherokee County, along Valley River and Parker Branch,
about 12 miles above the junction of Valley and Hiwassee
Rivers.

Placer deposits. Quartz ledges outcropping along the ridge
above the river contain pyrite and may be the source of the gold.

Reference: Blake and Jackson, 1860, p. 461-466.

1 Parker Mine

2 Type: Gold
 3 See also: *Freehold mine, Stanly County (504)*
 4 Location: Stanly County, at the western city limits of

5 New London, 9 miles northwest of Albemarle — (

6 The country rock is chloritic schist derived
 7 from lava and tuff of the volcanic series, overlain
 8 by 100 feet or more of saprolite. Numerous auriferous
 9 quartz stringer veins from 1 to 18 inches thick
 10 intersect the schist and saprolite in all directions.

11 The quartz is often cellular and carries iron and
 12 copper sulfides and iron and manganese oxides in
 13 addition to gold. In one quartz vein mined in 1935
 14 a single shoot or pocket consisting of quartz with
 15 numerous cavities containing iron and manganese oxides
 16 and coarse crystalline gold yielded several hundred
 17 ounces of gold. The placer deposit consisted of the
 18 upper 6 to 8 feet of saprolite. Gold with quartz
 19 gravel was concentrated as a "grit" layer in the
 20 lower part of this zone. The richest 3 or 4 acres
 21 yielded at least $\frac{1}{4}$ ounce of gold per cubic yard, with
 22 a total of about 10,000 ounces of gold.

23 The Parker Mine was one of the first discoveries
 24 in the southern Piedmont region. Between 1887 and 1896

1 an
2 /English company, the Stanley Freehold Gold Mines, Ltd.,
3 worked the placer deposit extensively in conjunction
4 with the ~~Old~~ Biles, Flint Springs, and Johnny Parker
5 mines ^{as the Freehold Gold mine.} To obtain water for mining the company
6 installed a pipeline $4\frac{1}{2}$ miles long through which
7 water was pumped from the Yadkin River. The gravel is
8 said to have carried from 0.022 to 0.12 ounce of gold
9 per cubic yard. An unsuccessful attempt was made to
10 work unmodified saprolite with its quartz veins, but
11 only about half of the 0.025 ounce of gold per ton
12 it carried could be recovered. In 1895 and 1896
13 shafts were sunk to explore quartz veins. The Ross
14 shaft reached a depth of 130 feet, the Cub shaft,
15 80 feet, and another shaft west of the Ross, 130 feet.
16 At this time there was a 10-stamp mill on the property.
17 After 1896 the mine was in liquidation and was con-
18 sequently worked very little. In 1933 a sample con-
19 sisting of 400 pounds of the quartz vein, 600 pounds
20 of schist, and $6\frac{1}{2}$ tons of placer material, gave an
21 average of better than \$3 per ton. M.E.C. Gallagher of
22 New York erected a small washing plant, but his attempt
23 to recover the gold failed because of the clayey nature
24 of the material. In 1935 the North Carolina Mining
25 Corp., Washington, D. C., explored a quartz vein by
means of a 250-foot tunnel and a 95-foot shaft.

1
2
3
4
5-
6
7
8
9
10-
11
12
21
22
23
24
25-

References: Bryson, 1936, p. 79-81;
 Bryson, 1937, p. 20;
 Conley, 1962, p. 18;
 Emmons, 1856, p. 140;
 Kerr and Hanna, 1887, p. 258-259;
 Nitze and Hanna, 1896, p. 83-84;
 Nitze and Wilkens, 1897, p. 54-56;
 Pardee and Park, 1948, p. 93-95.

Parker, Johnny, mine

Type: Gold

See also: Freehold mine, Stanly County (504)

Location: Stanly County, near Salisbury.

The Johnny Parker mine was worked as a placer mine by tributors for many years, but was purchased by the Stanly Freehold Gold Mines, Ltd. in 1887, and was operated with the Parker, Biles, and Flint Springs mines as the Freehold gold mine.

Reference: Eng. Mining Jour. v 43, p. 444, 1887.

1 Parks mine

2 Type: Gold

3 Location: Mecklenburg County, 1 mile northeast of Charlotte.

4

5- The workings never attained great depth.

6

7 References: Kerr and Hanna, 1888, p. 292;

8 Nitze and Hanna, 1896, p. 132;

9 Pardee and Park, 1948, p. 63.

1 Parks mine

2 Type: Gold

3 Location: Rowan County, 2 miles northeast of Granite Quarry. (

4

5- Reference: Pardee and Park, 1948, p. 64.

15-

1 Pasour mine2 See Oliver mine, Gaston County. (

--

19

1 Pasour Mountain2 see Cross Mountain, Gaston County

3

22

23

24

25-

1 Patterson mine

2 Type: Gold

3 Location: Gaston County, 1/4 or 1-1/4 mile northeast of Crowder's
4 Mountain mine, and 3 miles S. 85° E. of The Pinnacle.

5-
6 Pyrite and chalcopryrite with gold occur in a mineralized zone
7 in sericite and chlorite schist. The mine was worked in the 1880's,
8 and was reopened in 1934 by Richard Vail, who found ore showing
9 pyrite and free gold at a depth of 70 feet. A sample across a
10- width of 4 feet assayed 0.47 ounce^{of} gold per ton.

11
12 References: Kerr and Hanna, 1888, p. 306;
13 Nitze and Hanna, 1896, p. 148;
14 Pardee and Park, 1948, p. 62, 74-75;
15- Keith and Sterrett, 1931, p. 9;

16 Patterson mine

1 Type: Gold

2 Location: Orange County, about 12 miles northwest of Chapel Hill,
3 near the Robeson mine.
4

5- Reference: Nitze and Hanna, 1896, p. 53.
6
24
25-

1 J,
Patterson farm prospects

2 Type: Tin

3 Location: Cleveland County, about 1 mile southwest of the Ross-
4 prospect, and also 1,300 feet to the northeast.

5-
6 Cassiterite occurs in greisen gangue in muscovite schist and
7 gneiss. Float ore was found at both locations.

8
9 Reference: Kesler, 1942, table 18.

10-
11 Patton (Nantahala) mine

12 Type: Copper

13 Location: Macon County, 4 miles southwest of Franklin, on
14 Cartoogechaye Creek, 2 - 3 miles from the railroad.

15-
16 Chalcopyrite and tetrahedrite occur in a vein of granular quartz
17 in schist near a bank of hornblendic gneiss. The vein is covered by
18 gossan.

19 References: Bannister, Cowan & Company, 1869, p. 51.

20 Smith, 1875, p. 114.

21 Weed, 1911, p. 140.

1 Pax Hill (Packe's Hill) mine

2 Type: Gold

3 Location: Caldwell County, 2 1/2 miles northwest of Hartland, near
4 John's River.

5-
6 Quartz veins in schist near a diabase dike altered to serpentine
7 carry gold. Three main veins about 30 yards apart were opened in the
8 1800's. Placer mining was also done here.

9
10- References: Kerr and Hanna, 1888, p. 308;
11 Nitze and Hanna, 1896, p. 176;
12 Nitze and Wilk^ens, 1897, p. 68;
13 Pratt, 1914, p. 19.
14
15-
16
17
18
19
20-
21
22
23
24
25-

1 Peachbottom (Maxwell) mine

2 Type: Copper, lead

3 Location: Alleghany County, on Elk Creek on the north side of Peach
4 Bottom Mountain, just west of the village of Stratford.

5-
6 The vein lies in a zone of quartz-muscovite schist in hornblende
7 gneiss, and is approximately concordant with the structure of the
8 enclosing rocks. The vein dips 86° S, and varies from 4 to 6 feet in
9 width. Chalcopyrite occurs as narrow lenses in shear zones in quartz
10- and gneiss, and disseminated with galena, sphalerite, molybdenite, and
11 pyrite in quartz-barite-calcite rock. A zone of argentiferous galena
12 lying on the north wall was 6 to 9 inches wide. Secondary malachite and
13 cuprite were seen.

14 The mine was opened in 1832 and was mined for lead and silver, but
15- it was abandoned when chalcopyrite was discovered. In 1858 the mine
16 was reopened and copper was produced. In 1888 there were 2 shafts,
17 140 and 80 feet deep, and a 10-stamp mill. The mine was worked again
18 in 1902.

19
20- References: Conley, 1958, p. 11;

21 G. H. Espenshade, 1943, written communication;

22 Kerr and Hanna, 1888, p. 204, 230-231;

23 Ross, 1932, p. 85-87;

24 Weed, 1911, p. 133-134.

25-

1 Peachtree mine

2 Type: Gold

3 Location: Catawba County,

5- Reference: Pardee and Park, 1948, p. 62.

6
1 Pear Tree Hill mine

2 Type: Gold

3 Location: Montgomery County, on the west flank of the ^U ^r
4 ~~U~~ ^r ~~h~~ ^a ^r ~~i~~ ^e
Mountains, on Pear Tree Branch.

5- This was a placer mine in gravel underlying saprolite. Mining
6 was hindered by the scarcity of water and by the tenacious nature of
7 the clayey saprolite. Nuggets of gold the size of tobacco plugs
8 ($\frac{1}{2}$ "x $1\frac{1}{2}$ "x3") are said to have been recovered here.
9

10- References: C. B. Brown, 1934, written communication;
11 Bryson, 1936, p. 78;
12 Kerr and Hanna, 1888, p. 248;
13 Nitze and Hanna, 1896, p. 80;
14 Nitze and Wilkens, 1897, p. 52;
15- Pardee and Park, 1948, p. 63.

23
1 Peebles mine

2 See Russell mine, Montgomery County (

1 Pee Dee (Spoon) Mine

2
3 Type: Gold

4 Location: Randolph County, 6 miles southeast of Asheboro. —

5— Coarse, nuggety free gold was found in quartz
6 stringer veins in quartz sericite schist. A 100-foot
7 shaft with 200 feet of drifting was sunk around 1900.
8 There was also a 10-stamp mill which burned in the
9 1930's.

10—
11 References: C. B. Brown, 1934, written communication;
12 Pardee and Park, 1948, p. 64.

1 Penman mine

2 Type: Gold

3 Location: Union County, 1½ miles northwest of Mineral Springs.

4
5— The ores are described under the Bonnie Belle mine. This mine,
6 in the same location as the Bonnie Belle, is part of the "Grand Union
7 Gold Mine" tract of 1941 acres.

8
9 Reference: Kerr and Hanna, 1888, p. 261.

1 Person Consolidated mine

2 See Durgy mine, Person County. (

1 Peters mine

2 Type: Gold

3 Location: Davidson County, 2 miles southwest of Silver Hill. —

4
5- Chalcopyrite and gold-bearing pyrite occur in a quartz-siderite-
6 ankerite gangue in quartz veins in a mineralized zone trending north-
7 east-southwest which extends through the Hunt and Cross mines to the
8 southwest. The country rock is sericite schist which has been
9 silicified and mineralized in a narrow band. The mine was first worked
10- in 1830 on a very small scale. Work was also done in 1861-1865, and
11 1901-1904. During the last period of work, an 85-foot shaft was put
12 down, and a mill was erected. About 200 tons of ore were treated at
13 the mill before it closed in 1904. The mine was operated again in
14 1929 and 1931, when it was opened ^{by} ~~to~~ a new 44-foot shaft south of the
15- old shaft.

16
17 References: C. B. Brown, 1934, written communication;

18 Pardee and Park, 1948, p. 62;

19 Pogue, 1910, p. 112-113.
20-
21
22
23
24
25-

1 Pewter mine

2 Type: Gold

3 Location: Union County, near the Phifer and Davis mines.

4

5- Electrum, the dull white alloy of gold and silver containing
6 40 to 70 percent of silver, is found here and is said to have given
7 the name Pewter to the mine. The ore probably contains galena
8 associated with the silver.

9

10- References: Emmons, 1856, p. 167;

11 Genth, 1891, p. 13;

12 Kerr and Hanna, 1888, p. 189.

13

1 Peysour Mountain

2 See Cross Mountain, Gaston County. (

10

17

1 Pharr mine

2 Type: Gold

3 Location: Mecklenburg County,

4

5- Reference: Pardee and Park, 1948, p. 63.

6

23

24

25-

1 Phifer (Phiffer, Price, Mint Hill) mine.

2 Type: Gold

3 Location: Union County, about $\frac{1}{2}$ to 1 mile northwest of the Davis mine,
4 in the Moore Hill group of mines.

5-
6 The ores are described under the Moore Hill mine. In the 1880's
7 the mine was worked to a depth of 100 feet and for a length of 400
8 feet. Some very rich gold stringers were found in the Mint Hill ore
9 body on the Price tract. These stringers were so close together that
10- the whole material was worked for a width of 100 feet and a depth of
11 80 feet. A flat seam of barren quartz is said to have cut off the
12 ore at Mint Hill. Most of the workings were inaccessible in 1906
13 whereⁿ the dumps were being tested by J. L. Yont.

14
15- References: Bryson, 1936, p. 95-96;

16 Kerr and Hanna, 1888, p. 262-263;

17 Nitze and Hanna, 1896, p. 100-103;

18 Pardee and Park, 1948, p. 101-102;

19 Pratt, 1907, p. 60-61.
20-
21
22
23
24
25-

1 Phifer, Henry ,mine

2 Type: Gold

3 Location: Union County, 0.4 mile northeast of Stallings, and 1 mile
4 northwest of Indian Trail.

5-
6 A quartz vein up to 6 feet thick carrying auriferous pyrite in
7 grains and bunches occurs in granite country rock. The mine, which
8 is on a long, narrow tract of 2,000 feet, was worked before 1888, and
9 was reopened in 1933. The 90-foot shaft was flooded in 1934. About
10- three-quarters of a mile northeast of the Henry Phifer mine is an
11 opening on a 6-foot wide quartz vein from which rock was quarried for
12 road metal. It shows a few streaks of iron oxides.

13
14 References: Brown, C. B., 1934, written communication;
15- Bryson, 1936, p. 93-94;
16 Nitze and Hanna, 1896, p. 98;
17 Pardee and Park, 1948, p. 103.

1 Phifer, Sam, mine

2 Type: Gold

3 Location: Union County, 4 miles northwest of Indian Trail.

4 A quartz vein carrying pyrite and chalcopyrite is in ^spericitic
5- phyllite country rock. Two shafts and pits dating from days of the
6 Civil War were seen. The last work was done in 1933.

7
8 References: C. B. Brown, 1934, written communication;
9 Pardee and Park, 1948, p. 65.

Phillips (Millright) mine

1 Type: Copper, gold

2 Location: Chatham County, 2½ miles northeast of the Chick mine,
3 2.6 miles southeast of Bennett (Harpers Cross Roads) on
4 N.C. Highway 22, and 1.9 miles east on a paved road to a cross-
5- roads; then 100 yards north of the crossroads on a branch of
6 Little Indian Creek.

7
8 The ore is very similar to that at the Chick mine, with chalcocite
9 disseminated through the coarse volcanic tuff. The ore carries gold
10- and silver. Azurite and malachite were seen at the surface. This
11 mine on the Nat Phillips farm was worked superficially in the 1880's
12 and again in 1901. One 80-foot shaft was sunk on a 12-inch seam of
13 chalcocite which widened to over 3 feet at the bottom. The property
14 was operated in 1942 and 1943 as the Millright mine, and 260 tons of
15- ore were shipped. Eleven core-drill holes were put down during 1944
16 by the leas^sor, J. D. Parker, of Samarkand, The drill holes failed
17 to prove much copper ore, but one hole showed appreciable values in
18 gold.

19
20- References: Broadhurst, 1955, p. 17;

21 Conley, 1958, p. 20;

22 ✓ Kerr and Hanna, 1888, p. 214;

23 Murdock, 1950, p. 9-10;

24 Pardee and Park, 1948, p. 62;

25- Pratt, 1902, p. 26.

1 Phillips (Lovedahl) prospect

2 Type: Copper

3 Location: Jackson County, several hundred yards east of the junction
4 of Caney Fork and John's Creek.

5- Gossan containing specks of pyrrhotite or pyrite was investigated
6 by a shallow pit.

7
8 Reference: G. H. Espenshade, 1944, written communication.
9

10-
11
1 Phipps prospect

2 Type: Barite

3 Location: Alleghany County, 6 miles southwest of Independence, Virginia;
4 200 yards south of the Virginia-North Carolina ^{state line.} [boundary.]

5-
6 Replacement veins up to 3 feet wide, ^{or} barite contaminated with iron
7 stains and fragments of schist occur in quartz-mica schist which may
8 be a schistose phase of the Grayson Granite Gneiss.
9

10- Reference: Edmundson, 1938, p. 50.
11
22
23
24
25-

1 Phoenix (Miami, Vanderburg) mine

2 Type: Gold, copper

3 Location: Cabarrus County, 6 miles southeast of Concord. The mine is
 4 located on the right fork of a woods-farm road which enters a paved
 5- road 2.9 miles from its eastward intersection with U. S. Highway
 6 601, 0.6 mile~~s~~ beyond the intersection of Highway 601 and N. C.
 7 Highway 49. —

8
 9 Several parallel quartz veins extend in a northwestern^{ly} direction
 10- along shear zones in fine-grained, greenish-gray diorite, partly altered
 11 to ~~an~~epidote-chlorite schist. The main Phoenix vein averages 15
 12 inches in width, varying from a stringer to 4 feet wide, and ^{has been traced} for a length
 13 of 2,100 feet on the surface. The ore minerals are pyrite, chalcopyrite,
 14 free gold, and minor galena, tetradymite, barnhardtite, and scheelite
 15- in a gangue of quartz, barite, and calcite-ankerite-siderite. Other
 16 veins were known as the Middle and Copper veins, located 200 and 1,000
 17 feet southeast of the Phoenix vein. The Vanderburg mine is an extension
 18 of the Phoenix vein. The mine was discovered sometime before 1856;
 19 by that time it had been developed to a depth of 140 feet. Kerr and
 20- Hanna state that in 1886 the Phoenix had been worked more extensively
 21 and for a longer period than any other mine in Cabarrus County. During
 22 the 1880's it was operated by Adolph Thies, who extracted the free gold by
 23 a ^malgamation and recovered the remainder with a modification^{if} of the
 24 Meay's chlorination process, known as the Thies process. During the last
 25- period of operation, from 1900 to 1906, the mine was worked by the Miami

1 Mining Co., which is said to have sustained a considerable loss. In
 2 1934 the surface buildings and equipment were gone and the shafts were
 3 caved. The Phoenix vein was explored by two 600-foot shafts and several
 4 shallower ones. An ore body 300 feet long has been ~~early~~^{largely} stored out above
 5- the 425-foot level. The other veins were explored by ~~the~~ open cuts and
 6 shallow workings. Ore from the ^oxidized zone of the Phoenix vein above
 7 140 feet yielded from ¹one to 3 ounces of gold per ton. Below the
 8 zone of oxid^{ation} the ore contained about 1 ounce of gold per ton and
 9 1 to 3 percent of copper. The total production of the mine is estimated
 10- at \$400,000 in gold.

11
 12 References: Conley, 1958, p. 18;

13 Emmons, 1856, p. 177-178;

14 Genth and Kerr, 1881, p. 17; 96;

15- Kerr and Hanna 1888, p. 284-285;

16 Mining Mag., ^{1853, 1st ser., v. 1, no. 2,} 174-175;

17 Mining Mag., ^{1st ser., v. 2, no. 3,} 1854, p. 310;

18 Nitze and Hanna, 1896, p. 121-222;

19 Nitze and Wilkens, 1897, p. 61-62;

20- Pardee ^{and} Park, 1948, p. 67-69;

21 Pratt, 1904, p. 11;

22 Pratt, 1907, p. 59-60.

Phoenix mine

Type: Copper

Location: Guilford County,

Chalcopyrite and covellite were noted.

Reference: Genth and Kerr, 1881, p. 104.

Pierce Mountain Mine

Type: Gold

Location: Randolph County, 8 miles northwest of Asheboro

The mine was opened by the Pierce Mountain
Gold Mining Company in 1903. The ores were low-grade.

References: Pardee and Park, 1948, p. 64;

Pratt, 1904, p. 13

Pilot Mountain mine

See Porter mine, Randolph County

Pine Hill mine

Type: Gold

Location: Guilford County, 8 miles southeast of Greensboro.

Quartz veins with limonite gossan were seen in granite country
rock.

References: C. B. Brown, 1934, written communication;

Pardee and Park, 1948, p. 62.

1 Pine Hill Mine

2
3 Type: Gold

4 Location: Randolph County, 8 miles southeast of Asheboro, on the
5 southwest flank of Pine Hill, a small prominence south
6 of Pilot Mountain

7 Low-grade gold ore occurs in schistose quartzitic
8 country rock. Some gold occurred along iron-stained
9 seams which show casts of pyrite cubes. In 1934 there
10 were one 50-foot shaft, one 75-foot shaft, and a
11 water-filled square shaft. Some work was done here in
12 1936.

13
14 References: C. B. Brown, 1934, written communication;
15 Bryson, 1937, p. 24;
16 Pardee and Park, 1948, p. 64.

1 Pioneer Mills mine

2 Type: Gold

3 Location: Cabarrus County, 5 miles southeast of Harrisburg, on
4 Caldwell Creek, and 13 miles south of Concord. ()

5-
6 Quartz veins carrying pyrite, chalcopyrite, and gold are in diorite
7 or a related granitic rock. Other minerals reported in the veins are
8 molybdenite, chalc^cofite, barnhardtite, molybdite, and chryso^cfolia.
9 The mine was opened in 1844, and except for brief periods, it has
10- been closed since the late 1850's. In 1934 the workings were
11 unwatered, surveyed, and sampled under the direction of H. A. Herzog.
12 The workings consisted of a 147-foot shaft, with drifts at several levels.
13 The mine was owned by C. W. Abernethy in 1934.

14
15- References: Bryson, 1936, p. 91;
16 Nitze and Hanna, 1896, p. 125;
17 Nitze and Wilkens, 1897 p. 62;
18 Pardee and Park, 1948, p. 69.

1 Plonk. John. farm prospect

2 Type: Tin

3 Location: Gaston County, about 1 mile southwest of the Ormond-Carr
4 prospect.

5-
6 Cassiterite occurs in greisen gangue in muscovite schist and
7 gneiss wallrock. The orebody is conformable with the wallrock.

8
9 Reference: Kesler, 1942, table 13.

1 Mike,
 1 Mike Plank, prospect

2 Type: Tin

3 Location: Cleveland County, about $\frac{1}{2}$ mile southwest of the Faires mine.

4
 5- Cassiterite occurs in greisen gangue in muscovite schist and
 6 gneiss and hornblende schist. A long trench was cut across the
 7 formations. In 1942 float ore was seen 1,350 feet northwest of the
 8 Plank prospect.

9
 10- References: Keith and Sterrett, 1917, p. 139;
 11 Kesler, 1942, table 18.

12
 1 Plummer and Charles Plummer mines

2 Type: Gold

3 Location: Mecklenburg County, 7 miles west of north of Charlotte
 4 at the old McIntire (Hornet's Nest) house, $\frac{1}{2}$ mile south of
 5- Trinity Church, on beatty's Ford Road. The Charles Plummer
 6 mine is $\frac{1}{2}$ mile S. 50° W. from the Plummer. —

7
 8 Much rusty honeycomb vein quartz blackened along the joints
 9 with manganese oxides was seen. Silicified limonitic ore and
 10- abundant sulfides occur at shallow depths near a small stream. Many
 11 old shafts and pits were seen in 1934.

12
 13 References: J.V. Lewis, 1934, written communication;
 14 Pardee and Park, 1948, p. 63.

1 Plyler mine

2 Type: Gold

3 Location: Davidson County, 2 1/2 miles north of Silver Hill. —

4 Reference: Pardee and Park, 1948, p. 62.

5- Pocahontas mine

1 See Mastodon mine, Granville County.

2
3 Point mine

4 Type: Gold

5 Location: Mecklenburg County, 1 mile west of Charlotte on the north
6 end of Davidson Hill, a ridge 1/2 mile long.

7 In the 1880's the mine was developed to a depth of 160 feet and a
8 10-stamp mill was in operation. The oxidized ores extended much deeper
9 in this mine than was usual in this region, presumably at least to 160
10 feet, for it is stated that oxidation to a depth of 150 feet is not
11 unusual.

12 References: Kerr and Hanna, 1888, p. 286-287;

13 Nitze and Hanna, 1896, p. 126;

14 Pardee and Park, 1948, p. 63.

1 Ponder mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4
5- Reference: Nitze and Hanna, 1896, p. 174.

1 Poole mine

2 Type: Copper

3 Location: Person County, 1/4 mile west of the Mastodon mine.

4
5- A prominent quartz vein showing copper staining at the surface
6 was explored by a 45-foot shaft and 2 shallow pits.

7
8 Reference: Kerr and Hanna, 1888, p. 217-218.

1 Poor Ridge mine

2 Type: Copper

3 Location: Jackson County,

4
5- Reference: Weed, 1911, p. 137.

1 Poplan mine

2 See Crosby mine, Cabarrus County.

16
1 Poplin mine

2 Type: Gold

3 Location: Mecklenburg County, 10-11 miles south of east of Charlotte,
4 [and] south of the Shaffer mine, and 1/2 mile southwest of Mungo's
5- store.

6
7 This is one of a series of quartz veins trending northwest-
8 southeast.

9
10- References: Nitze and Hanna, 1896, p. 144, 145;

11 Pardee and Park, 1948, p. 63.

1 Porter (Johnson, Pilot Mountain) Mine

2
3 Type: Gold

4 Location: Randolph County, 8 miles southeast of Asheboro,

5 Gold occurs in a quartz lens in soft decomposed
6 tuff or sericite schist. Some work was done here in
7 1936. The workings consist of a pit 50 feet deep and
8 40 feet long and a group of 3 shafts about 500 feet
9 southwest of the pit.

10
11 References: C. B. Brown, 1934, written communication;

12 Bryson, 1937, p. 24;

13 Pardee and Park, 1948, p. 64.
14
15
16
17
18
19
20
21
22
23
24
25

^S
Portis (Sturgess) mine

Type: Gold

Location: Franklin County, 18 miles east-northeast from Louisburg,
 south of Ransom's Bridge, near Shocco Creek and 1 1/4 miles from
 Fishing Creek.

Quartz veins up to 2 feet thick running in all directions occur
 in weathered diorite sills called the "white belt", so called
 because of the bleached appearance of the weathered diorite, and in
 metamorphosed sericite schist which weathers into a red sticky
 saprolite clay. The upper sill is 9 feet thick and underlies an area
 of several acres. The lower sill is 14 feet thick. The sills dip in
 a westerly direction at a low angle. The mineralization is thought
 to be related to an intrusive mass of which the sills may be off-
 shoots. The quartz veinlets are more numerous in the sills because,
 having been fractured more extensively than the schist, they offered
 an easier path to the mineralizing solutions. [emanating from below.]
 The gold content of the sills averages about 0.15 ounce per ton.

Gold has been mined here since about 1835. An area of about
 50 acres at the Portis mine has been washed for gold to a depth of
 5 to 20 feet, according to Mr. P. G. Sturgess, whose family had once
 owned the mine. In 1935 the Norling^a Mining Company acquired the
 Portis property ^{of} and 955 acres ^{along} with the adjoining White House property.
 The company expected a 40-stamp mill, but it was not suitable for the
 ores, and operated only a short while. In 1936 the property was

1 taken over by R. W. Craig and A. L. McNeer, who were prospecting and
 2 sampling to determine the value of the placer material for dredging.
 3 Authentic records of production are ^{not} available, but popular estimates
 4 of gold recovered range from several hundred thousand to more than
 5 one million dollars.

6 References: Bryson, 1936, p. 54-62;
 7 Bryson, 1937, p. 25-26;
 8 Crosby, 190⁷₁, p. 855-856;
 9 Kerr and Hanna, 1888, p. 241;
 10 Nitze and Hanna, 1986, p. 25-26;
 11 Nitze and Wilkens, 1897, p. 43-45;
 12 Pardee and Park, 1948, p. 73-74;
 13 Stuckey, 1965, p. 300-301.

14 Powell mine

1 See New Sawyer mine, Randolph County

2 Price mine

1 See Prince mine, Polk County

2 Price mine

1 See Phifer mine, Union County.

22 Prichett mine

1 Type: Gold

2 Location: Randolph County, 1 mile northeast of Asheboro. ()

3 Reference: Pardee and Park, 1948, p. 64.
 4
 5

1 Prim mine

2 Type: Gold

3 Location: Mecklenburg County, 5 to 10 miles west to northwest of
4 Charlotte.

5-
6 References: Nitze and Hanna, 1896, p. 132;
7 Pardee and Park, 1948, p. 63.

1 ⁱⁿ
Price (Price) mine

2 Type: Gold

3 Location: Polk County, South Mountain area at Sandy Plains.

4
5- Gold placers.

6
7 Reference: Nitze and Hanna, 1896, p. 174.

1 Providence mine

2 Type: Gold

3 Location: Mecklenburg County, 12 miles south of Charlotte.

4
5-
6 The ore carries chalcopryrite, gold, pyrite, and magnetite.

7
8 Reference: Genth and Kerr, 1881, p. 111.

25-

1 Pruit, S. I., mine

2 Type: Gold

3 Location: Mecklenburg County, 2 miles southeast of Huntersville.

5- Reference: Pardee and Park, 1948, p. 63.

1 Puckett mine

2 Type: Gold

3 Location: Guilford County, 5-6 miles southwest of Greensboro, at the
4 southern end of a 900 acre tract comprising the Fisher Hill, ~~and~~
5- Millis Hill, and Puckett mines.

6
7 The mine is on the same north-south system of quartz veins in
8 granite country rock as the Fisher Hill and Millis Hill mines. The
9 veins at the Puckett mine carry considerably larger amounts of
10- ~~Chalcopyrite~~ and pyrite than do those to the north.

11 Referend^ces: Nitze and Hanna, 1896, p. 110-111;

12 Pardee and Park, 1948, p. 75.

13
19
1 Puett mine

2 Type: Gold

3 Location: Gaston County, 2 miles southeast of Belmont.

4
5- Reference: Pardee and Park, 1948, p. 62.

20
1 Pugh mine

2 See Gold Bowl mine, Randolph County

1 Putnam (Stearns) mine

2 Type: Gold

3 Location: Union County,

4

5- The mine was being worked in 1887.

6

7 Reference: Kerr and Hanna, 1888, p. 261.

8

1 Quarke City mine

2 Type: Gold

3 Location: Cabarrus County, 1/4 mile south of the Barnhardt mine, and

4 3 miles north of the Tucker mine. —

5-

6 A quartz vein from 2 to 5 feet wide carried much pyrite with a little
7 copper. The ore is low grade. In the 1880's the mine was opened by
8 three shafts, 40, 60, and 80 feet deep.

9

10- References: Nitze and Hanna, 1896, p. 123;

11 Nitze and Wilkens, 1897, p. 62;

12 Pardee and Park, 1948, p. 71.

21

1 Queen mine

2 Type: Lead

3 Location: McDowell County,

4

5- Reference: Kerr and Hanna, 1888, p. 202.

1 Queen mine

2 Type: Gold

3 Location: Mecklenburg County, *this may be the Queen of Sheba mine,*
 4 *2 1/4 miles northeast of Charlotte.*

5- Gold, pyrite, and chalcopyrite were noted in the ore.

7 Reference: Genth and Kerr, 1881, p. 111.

9 Queen of Sheba mine

2 Type: Gold

3 Location: Mecklenburg County, 2-1/4 miles northeast of Charlotte,
 4 at Woodside Ave., between Duncan and Lydia Aves, 2,000 feet
 5- east of the King Solomon mine.

7 Rusty, honeycomb quartz carrying specks of native gold, iron
 8 oxides, pyrite, and manganese oxides occurs in sheared granite.

9 A 14 foot shaft was seen in 1934.

11 References: J.V. Lewis, 1934, written communication;

12 J.T. Pardee, 1934, written communication;

13 Pardee and Park, 1948, p. 63.

1 Raleigh mine

2 Type: Gold

3 Location: Guilford County, continuation of the Twin mine.

4
5- A quartz vein carrying chalcopryrite and gold in granite, ~~which~~ is
6 a continuation of the vein at the Twin mine.

7
8 References: Emmons, 1856, p. 203-204;

9 Kerr and Hanna, 1888, p. 206;

10- Nitze and Hanna, 1896, p. 111.

11
1 Ramsay, M., mine

2 Type: Gold

3 Location: Cherokee County,

4
5- Gold was produced here in 1903.

6
7 Reference: Pratt, 1904, p. 11.

1 Ramseur Mill prospect

2 Type: Tin

3 Location: Gaston County, 2 miles northeast of Long Creek Church.

4
5- Cassiterite occurs in a greisen streak 1 to 2 feet thick along
6 the northeast wall of a large pegmatite body in hornblende schist
7 country rock. A trench and shaft not more than 30 feet deep were
8 made in 1903.

9
10- References: Keith and Sterrett, 1918, p. 143-144;

11 Kesler, 1942, table 18;

12 Pratt and Sterrett, 1904, p. 29.

1 Randleman mine

2 Type: Gold

3 Location: Rowan County, southwest of Salisbury, and east of the
4 Southern Railroad.

5-
6 Reference: Nitze and Hanna, 1896, p. 117.

19
1 Randolph mine

2 See Allred mine, Randolph County

1 Randolph mine

2 See Gold Hill mine, Rowan County.

1 Ray (Rhea, Rea, Baltimore and North Carolina) mine

2 Type: Gold, copper

3 Location: Mecklenburg County, 9 to 9½ miles southeast of Charlotte,
4 one to two miles northwest of Mathews, and comprising 360 acres
5- of land.

6
7 Five veins with an aggregate length of about 4 miles were
8 explored. Oxidized brown ore was mined from the South and Phifer
9 Grove veins. The Ray vein carried auriferous chalcopryrite and pyrite.
10- The copper content of the ore increased below a depth of 50 to 70
11 feet. The Baltimore and North Carolina Mining Company operated the
12 mine during the 1880's. The South vein was worked to a depth of 60
13 feet, and the Phifer Grove vein to a depth of 40 feet. The Ray vein
14 was opened by 6 shafts, the deepest being 250 feet. By 1887 most of
15- the ore down to the 150-foot level had been stoped out.

16
17 References: Bryson, 1936, p. 125;

18 Genth and Kerr, 1881, p. 111;

19 Kerr and Hanna, 1888, p. 208, 210, 302;

20- Mining Magazine, 1854, ^{1st ser.} v. 2, no. 3, p. 307;

21 Nitze and Hanna, 1896, 143-144;

22 Pardee and Park, 1948, p. 63.

23
1 Rayfield prospect

2 --see Jenkins Farm prospect, Gaston County. (

1 Redding Mine

2 Type: Gold

3 Location: Randolph County, $4\frac{1}{2}$ miles northeast of Asheboro

4
5- Coarse, nuggety gold is carried with some
6 chalcopyrite in quartz stringers and veinlets which
7 cut porphyritic rhyolite country rock. Gold is also
8 present in a sheet of alluvium 3 to 9 feet thick and
9 50 feet wide composed of rounded pebbles in a clay
10- matrix. The quartz veins were worked in 1906. In the
11 1930's gold was produced from placers in the alluvium.

12 References: C. B. Brown, 1934, written communication;

13 Pardee and Park, 1948, p. 88;

14 Pratt, 1907, p. 44.

15- Red Hill mine

1 Type: Gold

2 Location: Moore County, 1 mile southwest of Hemp; and 600 feet west
3 of the Cagle mine.
4

5- Gold is disseminated through sericite schist and felsic tuff
6 country rock. This mine was last operated in the early 1900's. There
7 was a shaft 100 feet deep. A drift from this shaft intersected the
8 side of the hill 250 feet N.15°E. of the shaft. Gold ore was treated
9 at the Clegg mine mill.

10-
11 References: Conley, 1962a, p. 25;

12 Pardee and Park, 1948, p. 64.

1 Redman (Redmond, Fines Creek) mine

2 Type: Lead-zinc

3 Location: Haywood County, about 12 miles north of Waynesville in the
4 valley of Fines Creek, and about $\frac{1}{2}$ mile north of Waterville Lake
5- at Hepco on the Pigeon River.

6
7 The deposit is a system of disconnected sulfide-bearing quartz
8 lenses lying in a chloritized shear zone near the contact of granitic
9 gneiss and mica schist, possibly equivalents of the Max Patch Granite
10- and the Snowbird ^{Quartzite.} [Formation.] The ore consists of massive galena-
11 sphalerite ore, and more abundant quartz-galena-sphalerite-
12 chalcopryrite-pyrite ore. Near the surface the sulfides have been
13 oxidized to a gray, gritty cerussite. The higher grade ore carried
14 about 1.5 percent zinc, 6 to 7 percent lead, and 0.5 percent copper.

15- The deposit was discovered in 1905 by R. J. Rathbone, who ^asunk
16 a shallow shaft at that time. Another shaft was sunk at the north end
17 in 1925, and in 1929-30 the U. S. Smelting, Refining and Mining Co.
18 deepened that shaft to 40 feet. In 1934-35 open-cut work was begun
19 and was completed in 1939-40 by the Haywood Mining Corp. The mine
20- was idle until 1943, when the company obtained a loan from the
21 Reconstruction Finance Corp. and began a drift from the north end of
22 the open cut.

23 In 1940, 44.5 tons of hand-picked ore assaying 12.1 percent lead
24 and 6.5 percent zinc were shipped to the Ozark Smelting and Refining
25- Co., Coffeyville, Kansas.

1
2
3
4
1
2
3
4
5-
6
7
8
9
14
15-
16
17
18
19
20-
21
22
23
24
25-

References: ^fEspanshade, Staatz, and Brown, 1947;
Hunter and Gildersleeve, 1946, p. 48,
Stuckey, 1965, p. 323.

Red Spring mine

Type: Gold

Location: Polk County, South Mountain area.

There were three gold-bearing quartz veins.

References: Bryson, 1936, p. 143;
Nitze and Hanna, 1896, p. 174.

1 Reed (Reid) mine

2 Type: Gold

3 Location: Cabarrus County, 10 miles southeast of Concord and 2 1/2
4 miles south of Georgeville.

5-
6 A greenstone sill intruded into ^{rocks} [types] of the volcanic series forms
7 the crest of a ridge trending slightly east of north that rises 50 to
8 75 feet at the east of Little Meadow Creek. Residual and ^a alluvial
9 placer deposits have been worked over the floodplain of the creek for a
10- width of 250 feet and for a length of more than one mile. Quartz veins
11 on the hill above the creek form a broad mineralized zone up to 200 feet
12 wide.

13 The earliest recorded discovery of gold in North Carolina was at
14 the Reed mine when a 17 pound gold nugget was found in 1799 in Little
15- Meadow Creek. Gold nuggets recovered between 1803 and 1835 ha^d a
16 total weight of 115 pounds, and individually they weighed from 1 to 24
17 pounds. The lodes were not mined until after 1831; before 1855 a shaft
18 had been sunk on one quartz vein to a depth of 90 feet. Lode mining
19 was carried on intermittently^y from 1881 to 1887. A 10-stamp mill was
20- erected about 1895 and was operated for several years. In 1934 a few
21 mines were washing the residual placer deposits and were recovering
22 about 50 cents per day. The total production of the mine is not known,
23 but it is estimated that the production for th^e period from 1803 to
24 1835 was more than \$1,000,000.

25-

1 References: Kerr and Hanna, 1897, p. 264-265;
 2 Nitze and Hanna, 1896, p. 124;
 3 Nitze and Wilkens, 1897, p. 61;
 4 Pardee and Park, 1948, p. 69-70;
 5- Partz ~~II~~, ~~August~~, 1854, ~~The Reed Mines, N. C.,~~
 6 ~~Mining Mag., 1st ser., v. 3, p. 161-168;~~
 7 Stuckey, 1965, p. 302-303.

1 Reed, Joel, mine

2 Type: Gold

3 Location: Cabarrus County, one-quarter mile east of Concord.

5- The mine was worked in pre-Civil War days when several shafts were
 6 on ~~quartz stringers~~ ⁰ sunk in sheared bi-tite granite, ~~on stringers in quartz.~~

8 References: C. B. Brown, 1934, written communications;

9 Nitze and Hanna, 1896, p. 121;

10- Pardee and Park, 1948, p. 63.

18
 1 Reese mine

2 Type: Gold

3 Location: Gaston County, 1-3/4 miles southwest of Stanley.

5- Reference: Pardee and Park, 1948, p. 62.
 6
 25-

1 Reimer (Rymer) Mine

2
3 Type: Gold

4 Location: Rowan County, 5 to 6 miles southeast of Salisbury,
5- and about 1 mile east of the Gold Hill Railroad, on
6 the Yadkin River; 1 mile east-southeast of Granite
7 Quarry. — (

8 of A quartz vein from 1 to 9 feet wide, in granite,
9 carrying pyrite, with a little chalcopyrite and
10- pyrrhotite. In the 1850's oxidized ore near the
11 surface was worked for gold. In 1881 a Davis
12 chlorination plant was erected, but it soon burned.
13 Next a concentrating plant was built, which operated
14 for 2 years before burning. At that time development
15- work included 3 shafts 193, 165, and 43 feet deep,
16 and numerous drifts which explored a block 150 to 165
17 feet deep and 500 feet long. In 1894 the mine was
18 reopened and worked until the fall of 1895, the ore
19 being treated in a 20-stamp mill and a barrel
20- chlorinator. The mine became idle in 1895 after
21 experiments with cyanide were unsuccessful. In 1934
22 none of the workings was accessible. Sampling done
23 at that time showed that the mine dumps included
24 considerable material containing 0.05 to 0.13 ounce of
25-

1 gold per ton. The concentrates assayed $1\frac{1}{2}$ to 2 ounces
2 gold per ton, but the total recovery was only $1/5$ to
3 $1/4$ ounce per ton.
4

5- References: C. B. Brown, 1934, written communication;

6 Kerr and Hanna, 1897⁸⁸, p. 281;

7 Nitze and Hanna, 1896, p. 118-120;

8 Nitze and Wilkens, 1897, p. 117;

9 Pardee and Park, 1948, p. 91.
10-
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25-

1 Reynolds Mine

2 Type: Gold

3 Location: Montgomery County, 4 to 6 miles northeast of Troy —

4
5- Copper and silver sulfide ores were found at a
6 depth ^{of} 60 feet in quartz veins in manganese-stained
7 soft sheared and silicified tuff. Gold telluride is
8 reported by Emmons. The Reynolds and Carter mines are
9 thought to be on the same vein, which has been traced
10- for a length of $2\frac{1}{2}$ miles. The mine was discovered
11 by E. Reynolds in 1851. In 1896 the mine had been
12 worked to a depth of 80 feet. In 1934 a 100-foot shaft
13 was found. It is estimated that the production was
14 \$360,000.

15- References: C. B. Brown, 1934, written communication;
16 Emmons, 1856, p. 168;
17 Kerr and Hanna, 1888, p. 247;
18 Nitze and Hanna, 1896, p. 80;
19 Nitze and Wilkins, 1897, p. 52;
20- Pardee and Park, 1948, p. 63.
21
22
23
24
25-

1 Rhea mine

2 See Ray mine, Mecklenburg County.

1 Rhodes mine

2 Type: Gold

3 Location: Gaston County, 2 miles southeast of Belmont.

5- The orebody is auriferous mica gneiss. Gold is found in a bed
6 of ferruginous, decomposed, schistose mica gneiss. Galena is
7 occasionally found in the ore bed.

8 The mine has been worked to a depth of 100 feet and for a
9 length of 300 feet.

10-
11 References: Bryson, 1936, p. 129;

12 Kerr and Hanna, 1888, p. 303;

13 Nitze and Hanna, 1896, p. 148;

14 Pardee and Park, 1948, p. 62.

17
1 Rhyne mine

2 Type: Gold

3 Location: Gaston County, 17 miles west of Charlotte and 2 miles
4 east of Stanley.

5-
6 References: Nitze and Hanna, 1896, p. 148;

7 Nitze and Wilkens, 1897, p. 66;

8 Pardee and Park, 1948, p. 62.

9
1 Rhyne mine

1 Rhyme Estate prospect

2 Type: Tin

3 Location: Lincoln County, 2 miles southeast of Lincolnton.

4
5- Cassiterite occurs in lens-shaped greisen veins in mica schist.

6 The American Consolidated Tin Mines did exploration and development
7 work on the ^NRhyme estate from 1930 to 1936. Two trenches 150 feet
8 long and 15 to 20 feet wide were made and 6 well-d^eined ore bodies were
9 discovered.

10-
11 Reference: Bryson, 1937, p. 43-44.

12 Richardson mine

1 Type: Gold

2 Location: Moore County, 2½ miles south^t of Hemp, and 1,500 feet south-
3 west of the Jenkins mine.

4
5- The ore body appears to be a continuation of the J^enkins vein,
6 about 6 feet wide and consisting of highly silicified tuff containing
7 cross-cutting quartz veins. The mine was first worked by the
8 Marshall Mining Company in 1860, and last in 1906 by Steward and Hewes.
9 The vein was opened by 9 shafts for a distance of 1/4 mile.

10-
11 References: Conley, 1962a, p. 26;

12 Pardee and Park, 1948, p. 64.
13

1 Rich Cog mine

2 See Appalachian mine, Montgomery County

1 Rich Knob prospect

2 Type: Copper

3 Location: Ashe County, on Rich Knob, 1 mile west-northwest of the
4 Gap Creek mine.

5-
6 The ore is similar to that of the Gap Creek mine, with quartz
7 veins ^{in gneiss} ~~in the Roan Formation~~ carrying copper minerals and gold in red
8 oxides of copper and iron.

9
10- Reference: Kerr and Hanna, 1888, p. 225.

14
1 Riding mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4
5- Reference: Nitze and Hanna, 1896, p. 174.

1 Riggon Hill Mine

2 Type: Gold

3 Location: Montgomery County, 3 miles east of Eldorado and/or
4 1 mile northeast of Ophir (

5-
6 Rich gold and silver ore is said to have
7 occurred in a quartz vein $2\frac{1}{2}$ feet thick conformable
8 with the schistosity of the argillaceous slate country
9 rock. The mine had been opened by a 100 foot shaft
10- in 1896.

11 References: C. B. Brown, 1934, written communication;
12 Bryson, 1936, p. 74;
13 Nitze and Hanna, 1896, p. 77;
14 Nitze and Wilkens, 1897, p. 53;
15- Pardee and Park, 1948, p. 63.
16
17
18
19
20-
21
22
23
24
25-

Ritter (McDonald, Teisson) mine

Type: Gold

Location: Moore County, 4 miles northeast of Carter, and 1/2 mile northwest of McConnell, and also .4 mile northwest of the Donaldson (Cotton) mine.

The ore body is a highly silicified and sericitized felsic tuff three feet wide striking N.10°E. and dipping 30°NW. The mine was first operated before 1890, under the name of Teisson. There are two shafts about 520 feet apart. The northeast shaft is more than 100 feet deep.

References: Conley, 1962a, p. 26;
Pardee and Park, 1948, p. 64.

Roaring River placer

Type: Gold

Location: Wilkes County, on Roaring River.

Reference: Pardee and Park, 1948, p. 65.

Robbins mine

Type: Gold

Location: Randolph County, near the road between Asheboro and Hunt's store.

Above 60 feet the ore was oxidized and in soft reddish brown decomposed slate; below that level hard bluish slates carried auriferous pyrite. The oxidized ores were worked before 1856.

Reference: Emmons, 1856, p. 132-133.

Robeson mine

Type: Gold

Location: Orange County, 12 miles northwest of Chapel Hill.

A northeast striking quartz vein from 6 to 22 inches wide has been traced for a distance of 4 miles. The quartz is cellular, vitreous to saccharoidal and assayed from \$6 to \$52 per ton. The deposit was discovered in 1890. In 1895 a prospect shaft was sunk 30 feet on the underlay, and the vein widened from 6 inches on the surface to 22 inches at the bottom of the shaft.

References: Bryson, 1936, p. 67;

Nitze and Hanna, 1896, p. 53.

1 Robinson mine

2 Type: Gold

3 Location: Gaston County, adjoins the Duffie mine on the southwest,
4 about $5\frac{1}{2}$ miles northeast of Gastonia.

5-
6 Gold with pyrite occurs in a quartz vein.

7
8 References: Kerr and Hanna, 1888, p. 304;

9 Nitze and Hanna, 1896, p. 148;

10- Nitze and Wilkens, 1897, p. 66;

11 Pardee and Park, 1948, pp. 62.

1 Rocky River (Jake Shin, Tom Shin) mine

2 Type: Gold

3 Location: Cabarrus County, 10 miles southeast of Concord on Rocky River;
4 one mile southwest of Georgeville. —(

5-
6 Lenticular quartz veins carrying pyrite, galena, sphalerite, chalcopyrite,
7 and gold lie in ^{yr}peritized and silicified sericitic schist of volcanic origin.

8 The veins are up to three feet wide and form a disconnected group in a
9 narrow belt 700 to 800 feet long. The highest gold values were found in
10- ore with high galena content. Silver and arsenic were also noted in the
11 ore. The silicified schists enclosing the quartz veins are impregnated
12 with sulfides and constitute low-grade ores.

13 Although the mine was worked shortly after the Civil War, little
14 is known of its early development. In the 1880's W. A. Smith of Concord
15- put down 6 shafts, Shaft No. 1 was further explored by Mr. Wayne
16 Darlington, M. E., in 1895. It reached a depth of 130 feet with 200 feet
17 of drifts. In 1934⁴ nothing was seen but dumps and partly filled pits and
18 trenches, all overgrown. Samples of the ore are reported to assay
19 from a quarter ounce to 3 ounces of gold per ton, and from a trace to
20- \$7.00 in silver.

1 References: Kerr and Hanna, 1888, p. 191; 265;

2 Nitze and Hanna, 1896, p. 91-93;

3 Nitze and Wilkens, 1897, p. 61;

4 Pardee and Park, 1948, p. 71.

1 Rogers mine

2 Type: Gold

3 Location: Cabarrus County, near Concord.

5- Reference: Pardee and Park, 1948, p. 62.

1 Rogers mine

2 Type: Gold

3 Location: Mecklenburg County,

5- Gold and pyrite were noted in the ore.

7 Reference: Genth and Kerr, 1881, p. 111.

1 Rogers, Grady, mine

2 Type: Gold

3 Location: Union County, 2 1/2 miles northwest of Waxhaw, near the South
4 Carolina state line.

6 Schist containing scattered grains of galenaⁿ and streaks of pyrite
7 and chalcopryite on foliation planes was exposed for a width of 50
8 inches. The ore was exposed in a 40-foot shaft.

10- Reference: Pardee and Park, 1948, p. 104.

25-

1 Rogers, Wiley, mine

2 Type: Gold

3 Location: Union County, 3 miles northwest of Waxhaw, very near the
4 South Carolina state line.

5-
6 A 4 to 6 inch quartz vein rich in free gold strikes northeast-
7 ward across the cleavage in schist country rock of the volcanic series.
8 A 60-foot inclined shaft was sunk on the vein in 1934, but the vein
9 did not increase in width with depth, and the gold values decreased.
10- A 5-stamp mill which operated for about 4 months treated mostly
11 surface quartz.

12
13 References: C. B. Brown, 1934, written communication;
14 Bryson, 1937, p. 18;
15- Pardee and Park, 1948, p. 104.

1 Roseman mine

2 Type: Gold

3 Location: Rowan County, southwest of Salisbury, east of the Southern
4 Railroad.

5-
6 References: Genth and Kerr, 1881, p. 116;
7 Nitze and Hanna, 1896, p. 117.

1 Ross mine

2 See New Sawyer mine, Randolph County

1 Ross prospect

2 Type: Tin

3 Location: Cleveland County, 2/3 mile southeast of Crocker.

4
5- Cassiterite occurs in greisen gangue in a 20-foot wide pegmatite
6 dike in muscovite schist and gneiss. In 1903 Capt. S. S. Ross sank
7 a pit on the southeast side of the pegmatite dike.

8
9 References: Keith and Sterrett, 1917, p. 142;
10- Kesler, 1942, table 18; plate 39

1 Southwest of Ross prospect, ↓

2 Type: Tin

3 Location: Cleveland County, 1,475 feet S. 47° W. of the Ross
4 prospect.

5-
6 Cassiterite occurs in greisen gangue in muscovite schist and
7 gneiss.

8
9 Reference: Kesler, 1942, table 18; plate 39.

21
1 Roswell mine

2 Type: Gold

3 Location: Mecklenburg County.

4
5- The ore carries gold and pyrite.

6
7 Reference: Genth and Kerr, 1881, p. 111.

1 Royster mine

2 See Big America mine, Granville County.

1 Rudisil mine

2 Type: Gold

3 Location: Mecklenburg County, 1 mile southwest of the intersection
4 of Tryon and Trade Streets in Charlotte, and 2,500 feet south-
5- west of the St. Catherine mine.

6
7 A quartz lode carrying pyrite and gold with a little chalcopryite
8 occurs between granite and schist wallrocks. The schist is interpreted
9 by Park as a roof pendant in the intrusive granite. The ore occurs
10- in lenses about 5 feet thick, 10 to 20 feet long and 10 feet deep
11 which appear to have formed where the lode flattens, owing to a roll
12 or a split in the lode. Gold was first discovered on the property
13 in 1829. The following year the Mecklenburg Gold Mining Company
14 began operations under the direction of the Chevalier de Rivafinoli,
15- who operated the mine for several years. In 1837 the mine was
16 purchased by John E. Penman, who operated it until the Civil War.
17 The mine was again operated from 1880 to 1887 and from 1905 to 1908
18 by George E. Price. In 1934 the mine was reopened by the Carolina
19 Engineering Co., and in 1935 the Rudisil Mining Corp. was formed to
20- develop the mine, erect a flotation mill, and equip a laboratory.
21 The mine, which has been developed to a depth of 350 feet through
22 3 shafts, was unwatered to a depth of 250 feet during these operations.
23 Gold was produced through 1938. The total production of the mine has
24 been estimated at more than 50,000 ounces of gold.

1 References: Bryson, 1936, p. 110-114;
 2 Bryson, 1937, p. 16;
 3 Emmons, 1856, p. 175-177;
 4 Kerr and Hanna, 1888, p. 287-289;
 5- Murdock, 1950(?), p. 6;
 6 Nitze and Hanna, 1896, p. 126-127;
 7 Nitze and Wilkens, 1897, p. 64;
 8 Pardee and Park, 1948, p. 77-79;
 9 Pratt, 1907, p. 66-68;
 10- Stuckey, 1965, p. 305-306.

11
12
1 Rufty mine

2 Type: Gold

3 Location: Catawba County, at Catawba Station.

4
5- Reference: Nitze and Hanna, 1896, p. 151.

18
1 Rumfeldt mine

2 See McLean mine, Gaston County.

21
22
23
24
25-

1 Rumple (Rumpler) mine

2
3 Type: Gold, copper

4 Location: Rowan County, 1 mile north of Gold Hill, ←

5- A copper vein carrying azurite was opened in
6 sheared, schistose fragmental acid tuff similar to that
7 at Gold Hill. A 60-foot shaft and several other pits
8 and shafts were opened by the Whitney Company.
9

10- References: C. B. Brown, 1934, written communication;
11 Pardee and Park, 1948, p. 64.

12 Rush mine

1
2 See Dowd mine, Randolph County.

15- Russell mine

1 Type: Gold

2
3 Location: Davidson County,
4

5- Gold and pyrite were noted in the ore.

6
7 Reference: Genth and Kerr, 1881, p. 101.
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25-

1 Russell (Palmer, Peebles) Mine

2 Type: Gold, lead, zinc

3 Location: Montgomery County, 2 to 3 miles north of Eldorado, in
4 the northwest corner of Montgomery County, near the
5- Randolph County line

6
7 Gold-bearing sulfide ore occurs in mineralized
8 zones in a hard siliceous argillaceous slate or schist.
9 The entire mass is gold-bearing, but only certain parts
10- of it are rich enough to work. Rich seams appear and
11 disappear abruptly and the ore is difficult to dis-
12 tinguish from waste. Six parallel ore zones or leads
13 which are 10 to 70 feet wide and strike northeast
14 parallel to the schistosity have been mapped. The ore
15- has been assayed at 0.10 ounce of gold and 0.05 ounce
16 of silver per ton. The schists carry 2 to 4 percent
17 pyrite with traces of chalcopyrite. The workings
18 include several open pits and underground workings that
19 attain a depth of 200 feet or more. The largest pit,
20- the Big Cut, is about 300 feet long, 150 feet wide, and
21 60 feet deep. The 6 leads are known as the Little Lead,
22 Big Cut, Riggins Hill Lead, Soliague Lead, Walker Lead,
23 and Laurel Hill Lead. There was a 40-stamp mill on the
24 property in 1894. The mine was idle at that time.
25-

1 In 1895 the mine was owned by the Glenbrook Mining
2 Company. In 1896 the American Cyanide Gold and Silver
3 Recovery Company of Denver, Colorado, erected a 30-ton
4 cyanide plant. The total production of the mine is
5- said to have exceeded \$300,000.

6
7 References: Bryson, 1936, p. 72-73;
8 Kerr and Hanna, 1888, p. 248-251;
9 Nitze and Hanna, 1896, p. 74-76;
10- Nitze and Wilkens, 1897, p. 52-53;
11 Pardee and Park, 1948, p. 83.

12
13
14
15- Ruth mine

1 See Spencer mine, Randolph County
2

15- Rymer mine

1 see Reimer mine, Rowan County
2
3
18
19
20-
21
22
23
24
25-

1 St. Catherine (Charlotte, McCombs) mine

2 Type: Gold

3 Location: Mecklenburg County, in the city of Charlotte, on Post
4 Street, 125 feet northwest of the main line of the Southern
5- Railway, and 2,500 feet N. 25° E. from the Rudisil mine.

6
7 Two parallel veins lie next to the granite walls of a belt of
8 sericite schist. At a depth of 165 feet the veins unite to form a
9 single vein. The schist bodies may be interpreted as roof pendants
10- in the intrusive granite. Below 200 feet large bodies of massive
11 concentrating ore consisting of gold-bearing pyrite and quartz mixed
12 with seams of schist were found. The St. Catherine and the Rudisil
13 mines are thought to be near opposite ends of the same vein, but
14 prospecting between them has disclosed nothing of promise. The
15- St. Catherine is said to have been the first mine opened in
16 Mecklenburg County. It was shown on a map made in 1826 as an
17 operating mine. The mine and mill on Sugar Creek were operated until
18 1836 by the Chevalier de Rivafinoli along with the Rudisil~~/~~. In
19 1848 the mine was controlled by Capt. Charles Wilkes, who observed
20- that poachers had gouged over the surface for gold-bearing material
21 until the property resembled a "r~~/~~abbit warren." Power for the mill
22 later called the Bissells mill, was obtained from a 12-foot dam on
23 Sugar Creek that made a lake 130 acres in area. The mine was active
24 through the 1880's, and from 1905-08 it was operated jointly with the
25- Rudisil. The main shaft of the mine has a depth of 370 feet. By

1 1935 most of the material in the dumps had been removed for use in
2 surfacing streets.

3
4 References: Bryson, 1936, p. 114-116;

5- Kerr and Hanna, 1888, p. 289-292;

6 Nitze and Hanna, 1896, p. 129-131;

7 Nitze and Wilkins, 1897, p. 64;

8 Pardee and Park, 1948, p. 79-80;

9 Pratt, 1907, p. 66-68.
10-
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25-

1 Sam Christian Mine

2 Type: Gold

3 Location: Montgomery County, $4\frac{1}{2}$ miles west of Wadeville, or 12
4 miles east of Albemarle and 3 miles east of Swift Island
5- Ford; about 9 miles southwest of Troy.

6
7 This was a placer mine and was known especially
8 for the remarkably large and fine nuggets it yielded.
9 Forty nuggets which were found in 1880 ranged in weight
10- from 5 to 1,024 dwt. and had a total weight of 4,200
11 dwt. The gold was found in nugget form and rarely as
12 dust in "channels" in alluvial gravel 1 to 3 feet thick
13 and deeply covered with soil. The principal channels
14 were the Dry Hollow, Sam Christian Cut, and California
15- Cut. The country rock underlying the gravel is
16 argillaceous slate broken through by masses of volcanic
17 breccia and hornstone which contained small quartz
18 veins. The mine was operated by the Sam Christian
19 Company of London, England, by hydraulic methods with
20- water pumped from the Yadkin River about $2\frac{1}{2}$ miles
21 distant. Attempts at deep mining on the quartz veins
22 failed. The mine was last operated in 1893.
23
24
25-

1 References: Bryson, 1936, p. 75;
2 Kerr and Hanna, 1888, p. 247-248;
3 Nitze and Hanna, 1896, p. 80-82;
4 Nitze and Wilkens, 1897, p. 52;
5- Pardee and Park, 1948, p. 85.

6
1 Sanders (Saunders) mine

2 Type: Gold

3 Location: Cabarrus County, 4 miles northwest of Georgeville. —

4
5- Fine gold was reported in narrow quartz stringers in diorite. A
6 15-foot shaft was seen in 1934.

7
8 Reference: C. B. Brown, 1934, written communication.
15-

1 Sandy Bottom mine

2 See Stackhouse mine, Madison County.

3
18
1 Sandy Level Church prospect

2 Type: Gold

3 Location: Rutherford County, a few hundred yards behind the church,
4 3.1 miles northwest of Sunshine.

5-
6 An old gold mine dump was seen here.
7

8 Reference: Conley, 1958, p. 65.

1 Sanford mine

2 Type: Gold

3 Location: Lee County, near ^{nf}Sanford;

4

5- The Sanford Gold Mining Company was developing a property in 1912.

6

7 Reference: Pratt, 1914, p. 21.

8

1 Saunders mine

2 See Sanders mine, Cabarrus County

3

14

13

1 Saunders mine

2 See Steel and Saunders mines, Montgomery County

3

17

18

19

20-

21

22

23

24

25-

1 Savannah (Betts Gap, New Savannah) mine

2 Type: Copper

3 Location: Jackson County, about 7 miles southwest of Dillsboro, near
4 Betts Gap, at the headwaters of Betts Creek, a branch of
5- Savannah Creek.

6 The ores are massive sulfides, composed principally of pyrrhotite
7 with lesser amounts of chalcopyrite, sphalerite, and pyrite in a
8 country rock of hornblende gneiss. The primary ore is overlain by a
9 gossan beneath which secondary chalcocite has been found in places.
10- Mica has been mined from pegmatite nearby. Secondary chalcop^crite was
11 mined before and during the Civil War. In 1895 or 1896 the property
12 was explored by 15 diamond drill holes, in 9 of which sulfides were
13 found. There are 3 shallow open cuts and 3 tunnels 25 to 40 feet
14 long. The mine was owned by W. S. Adams in 1911.
15-

16 References: G. H. Espenshade, 1942, written communication;
17 Ross, 1935, p. 91-92;
18 Weed, 1911, p. 136.
19
20-
21
22
23
24
25-

Sawyer mine

Type: Gold

Location: Randolph County, 8 or 9 miles northwest of Asheboro, 5 miles west of Sophia. From Asheboro it is reached by Highway 90 and a good sand road. Carraway Creek runs through the property. — (

Five or 6 parallel "beds" or cleavage layers carrying gold occurred in a siliceous talcose slate or sericitic quartz schist which disintegrated to form a fine white sand. Overlying the ore-bearing beds was a porous black rock carrying pyrite, but no gold. The Miller vein is a more siliceous and enriched ore on the hanging wall side of a dark granitic porphyry dike. The Davis vein is separated from the main Miller vein by a 240-foot horse including the dike. The sulphur vein is parallel to the Miller and some 600 feet southeast. Other areas of the mine tract were known as the Brummel Hill and Old Pace workings. The ore was oxidized to a depth of about 80 feet. At that depth sulfides appeared, with pyrite in scattered grains and bunches.

At one time, probably before 1850, the mine was worked "with success and profit". It was operated in 1906, when a 150-foot shaft with levels at 100 feet was put down on the Miller vein. Six smaller shafts open the various veins. Twenty-one samples taken from the Brummel Hill workings in 1936 contained from a trace to \$36.75 per ton of gold.

1 References: Bryson, 1937, p. 21-24;

2 Emmons, 1856, p. 133;

3 Kerr and Hanna, 1888, p. 253;

4 Nitze and Hanna, 1896, p. 59-60;

5- Nitze and Wilkens, 1897, p. 47;

6 Pardee and Park, 1948, p. 64, 88;

7 Pratt, 1907, p. 42-43.

8

9

10-

11

12

13

14

15-

16

17

18

19

20-

21

22

23

24

25-

Scarlet mine

1 Type: Gold, copper

2 Location: Randolph County, on the northern outskirts of Ashboro,
3 2 miles north of Asheboro, on Highway 220 N., and about 2 miles past
4 the intersection of Highways 64 and 22. —

5—
6 Chalcopyrite, sphalerite, chlorite, and amphibole enclosed in
7 silicified masses of bedded tuffs of the volcanic series, were seen
8 on the dumps. The features are much like those of typical contact-
9 metamorphic deposits. The mine was opened as a gold mine in 1882.
10— It was worked for copper between 1899 and 1918. In 1934 two shafts
11 about 125 feet apart and some old pits and a caved shaft were seen.
12 In 1906 and 1907 a production of nearly 8,000 lbs. of copper with a
13 little gold and silver was reported. The Tenvanoca Copper Co. is said
14 to have produced considerable ore between 1913 and 1918. A diamond
15— drilling program was carried on in 1948 by the U.S. Bureau of Mines.

16
17
18 References: G. B. Brown, 1934, written communication;

19 Kline and Dosh, 1949, 6p;

20 Pardee and Park, 1948, p. 88;

21 Stuckey, 1965, p. 293.
22
23
24
25—

1 Scott Hill mine

2 Type: Gold

3 Location: Caldwell County, near Johns River 1 1/2 miles northwest of
4 Hartland, on Seley's (Celia) Creek, adjoining the Miller mine.

5-
6 Quartz veins in schist near a diabase dike altered to serpentine carry
7 gold. Many cuts, tunnels, and shallow shafts were put in to explore
8 the veins, but in 1896 the mine had not been reopened for some years.
9 The small growth in the dumps and the state of preservation of the head
10- frame when examined in 1966 suggest that work had been done since 1936.

11
12 References: Bryant and Reed, 1966, p. 7;

13 Bryson, 1936, p. 139;

14 Nitze and Hanna, 1896, p. 176;

15- Nitze and Wilkins, 1897, p. 68;

16 Pardee and Park,^{1948,} p. 62.

1 Scott's Creek prospect

2 Type: Copper

3 Location: Jackson County,

4
5- Copper ore was noted at this locality.

6
7 Reference: Bryson, 1930, p. 24.

25-

1 Seaman prospect

2 Type: Tin

3 Location: Gaston County, about 1/3 mile south of the Jones mine.

4
5- Cassiterite in muscovite schist or gneiss wall rock.

6
7 Reference: Kesler, 1942, table 18.

8
9 Seat prospect

1 Type: Copper

2 Location: Granville County, 3/4 mile south of the Holloway mine.

3
4
5- A shaft, not more than 50 feet deep, was sunk in the 1800's
6 where bornite was seen cutting massive porphyritic Virgilina Green-
7 stone.

8
9 Reference: G. H. Espenshade, 1942, written communication.

10
11 Secrest (Sechrist) mine

1 Type: Gold

2 Location: Davidson County, 1 1/2 miles northeast of the Silver Hill
3 mine.

4
5- A quartz vein carrying pyrite and galena but little gold in
6 dense siliceous tuff, ~~is described.~~ ^{is described.} One shaft was sunk, but little work was done.
7

8
9 References: C. B. Brown, 1934, written communication;

10- Pardee and Park, 1948, p. 62;

11 Pogue, 1910, p. 108.

1 Secrest mine

2 Type: Gold

3 Location: Union County, 2 miles northeast of Indian Trail and 1/4
4 mile northeast of the Smart mine.

5-
6 Gold and silver with galena and chalcopyrite occur in quartz^s
7 veins in argillaceous to chloritic schists.

8
9 References: Bryson, 1936, p. 95;

10- Nitze and Hanna, 1896, p. 100;

11 Pardee and Park, 1948, p. 65.

12
1 Sedberry mine

2 Type: Gold

3 Location: Montgomery County, 1 mile south of Onvil. —

4
5- Surface mining was done ^{along} [on] the branch. Gold occurs in small
6 quartz stringers in slate and tuff. The mine was discovered about
7 1907. There were 2 shafts, 85 and 50 feet deep. Gold production
8 was reported in 1923.

9
10- References: C. B. Brown, 1934, written communication;

11 Drane and Stuckey, 1925, p. 29;

12 Pardee and Park, 1948, p. 64.

25-

1 Senter Mine

2 Type: Gold

3 Location: Randolph County, near Lytton, Tabernacle Township →

4
5- Here in 1903 two bands or veins of gold-bearing
6 schistose rock were opened for 4,000 feet along the
7 strike and for a width of 100 to 300 feet by means of
8 open cuts, pits, and short drifts. A 70-foot shaft
9 was also sunk. The ore was low grade, averaging
10- \$3 to \$5 per ton.

11 Reference: Pratt, 1904, p. 13.

12 Sewell mine

1 Type: Gold

2 Location: Moore County, 4½ miles southeast of Carter.

3
4 Reference: Pardee and Park, 1948, p. 64.

5- Shaffer mine

1 Type: Gold

2
3 Location: Mecklenburg County, 10-11 miles south of east of Charlotte,
4 south of the A.J. Wilson mine, and ½ mile southwest of Mungo's
5- store.

6
7 This is one of a series of quartz veins trending northwest-
8 southeast.

9
10- References: Nitze and Hanna, 1896, p. 144, 145;

11 Pardee and Park, 1948, p. 63.

1 Shell Ridge prospect

2 Type: Copper

3 Location: Jackson County, in the same
4 belt of prospects as the Wayehutta, Hornbuckle, and Buck Knob
5- prospects.

16 References: Smith, 1875, p. 113;

17 Weed, 1911, p. 137.

8
9
10-
1 Shemwell mine

2 Type: Gold

3 Location: Rutherford County,
4

5- Arborescent gold was reported.
6

7 Reference: Genth, 1891, p. 13.
8
9
10
11
12
13
14
15
16
17
18
19
20-
21
22
23
24
25-

Shields mine

Type: Gold

Location: Moore County, 650 feet northwest of the Brown mine.

The ore body was a mixture of schistose sericitized rock and fine granular clay carrying numerous quartz veins. The mine was operated in 1895 by Cash Shields. There was an open cut and a shaft of unknown depth.

References: Bryson, 1936, p. 69;
Conley, 1962a, p. 25;
Kerr and Hanna, 1888, p. 244;
Nitze and Wilkens, 1897, p. 57;
Pardee and Park, 1948, p. 64.

Shiloh Church prospect

Type: Tin

Location: Cleveland County, about 1 mile east of Grover, near the South Carolina state line, in the west bank of the road.

Cassiterite occurs in greisen gangue in muscovite schist and gneiss and in hornblende gneiss.

Reference: Kesler, 1942, table 18.

1 Shin, Jake, mine

2 See Rocky River mine, Cabarrus County.

3

1 Shin, Tom, mine

2 See Rocky River mine, Cabarrus County.

3

8

1 Shingle Hollow Road prospect

2 Type: Lead

3 Location: Rutherford County, on the east side of Shingle Hollow
4 Road, 0.8 miles northwest of the Welcome Home church, about 8
5- miles northwest of Gilkey.

6

7 A prospect pit containing galena, pyrite, chalcopyrite, and
8 bornite was seen.

9

10- Reference: Conley, 1958, p. 65.

20-

21

22

23

24

25-

1 Shuford mine

2 Type: Gold

3 Location: Catawba County, 6 3/4 miles southeast of Catawba station on
4 the Southern Railway.

5-
6 The deposit is a zone about 300 feet wide and 1,000 to 2,000 feet
7 long in which schist and gneiss country rock is penetrated by variously
8 oriented seams of gold-bearing quartz. The quartz is usually honeycombed
9 and broken into soft, angular fragments, and at the surface the country
10- rock is thoroughly decomposed and iron-stained saprolite.

11 The entire surface of the mine was "pay" material, and was worked
12 by placer methods. In 1906 the ore was mined by means of a pit 90 feet
13 deep and 250 to 300 feet across, and the excavated saprolite material was
14 treated in an improved type of log washer. The Catawba Gold Mining
15- Company produced 1, 716 ounces of gold and 586 ounces of silver from
16 1902 through 1911.

17
18 References: Kerr and Hanna, 1888, p. 307;

19 Nitze and Hanna, 1896, p. 150;

20- Pardee and Park, 1948, p. 72;

21 Pratt, 1906, p. 21-22; 1908, p. 16-17.
22
23
24
25-

1 A.D.,
 1 A.D. Shuford mine

2 Type: Gold

3 Location: Catawba County, 3/4 mile southeast of the Shuford mine.

4
 5- This was a placer mine very similar in character to the Shuford
 6 mine.

7
 8 References: Kerr and Hanna, 1888, p. 307;

9 Nitze and Hanna, 1896, p. 150.

1 Silvers Bald Prospects

2 Type: Copper

3 Location: Swain County, on the crest of the Smokies, and on the
 4 headwaters of Jonas Creek about 500 feet below the
 5- crest. —

6
 7 Small quartz veins and tiny stringers and
 8 disseminations of galena and chalcopryrite were found
 9 in sheared feldspathic sandstone. These two locations
 10- were prospected around 1905, the upper prospect by a
 11 shallow pit, and the lower one by a shallow opencut
 12 and two tunnels.

13
 14 Reference: Espenshade, 1963, p. 36.

24
 1 Silver mine

2 See Whitney group, Cabarus County.

U. S. GOVERNMENT PRINTING OFFICE

Silver Hill (Washington, King's) mine

Type: Gold, silver, lead, zinc.

Location: Davidson County, 7 1/2 to 10 miles southeast of Lexington,
and 4 1/2 miles northeast of Fairmont, near the source of
Buddle Branch.

The ores are a complex mixture of galena, sphalerite, pyrite,
and chalcopyrite, carrying silver and gold, in highly altered country
rock with little or no quartz gangue. Minor minerals in the deposit
are anglesite, ^rargentite, calamine, cerussite, chalcantite, chalcocite,
cuprite, goslarite, linarite, tenorite, pyromorphite, native silver,
and stolzite, and the gangue minerals ^{are} actinolite, orthoclase,
wavelite, and zoisite. The country rock is chloritic and sericitic
schist striking N. 35^o E. and dipping 57^o NW. ^aNerby is an eruptive
dike consisting of pyroxene and silicified rock. The ore zone
contains two main lodes, the "east" and "west" veins, which join and
separate. The average composition of the sulfide ore was 21.9%
galena, 17.1% pyrite, 59.2% sphalerite, 1.8% chalcopyrite. Galena
appeared in the ore at a depth of 60 feet; at a depth of 200 feet
sphalerite was more abundant than galena. The mine was opened in
1838, and was worked actively for 30 years, first as the King's mine,
then as the Washington silver mine, and finally as the Silver Hill
mine. Only gold and silver were saved from the upper oxidized zone;
when unoxidized ores were reached, lead was also recovered, and was
used by the Confederate army during the Civil War. After 1882 the

Silver Hill (Washington, King's) mine (con't)

1 mine was idle, except for a short period from 1898 to 1900. The
2 total production has been estimated at \$1,000,000 in silver, lead,
3 and zinc. The mine was reopened briefly in 1938. In 1942 the New
4 Jersey Zinc Company conducted a program of diamond drilling and soil
5- sampling at the mine. An average of 200 assays of the ore gave 21.9%
6 galena, 17.1 percent pyrite, 59.2 percent sphalerite, 0.025 percent
7 silver and lead, and 1.8 percent chalcopyrite. Large dumps containing
8 fine-grained lead-zinc ore were observed at the mine in 1958.

9
10- References: Broadhurst, 1955, p. 20-21;

11 Emmons, 1956, p. 183-195;

12 Kerr and Hanna, 1880⁸, p. 193-194;

13 Kinkel, A. R., Jr. 1958, written communication;

14 Murdock, 1950, p. 13;

15- Nitze and Hanna, 1896, p. 61;

16 Pardee and Park, 1948, p. 72-72³;

17 Pogue, 1910, p. 98;

18 Stuckey, 1965, p. 321-322.

9.1267

1 Silver Nugget mine

2 Type: Copper

3 Location: Granville County, 500 yards south of the Big America mine
4 and 200 yards south of the Tuck mine. —

5- A pit 10 feet deep^p disclosed copper ore carrying a larger
6 proportion of silver than most of the ores of the area.

7
8 Reference: Kerr and Hanna, 1888, p. 216.

9 Silver Valley mine

10 See ^uFarr, Allen, mine, Cabarrus County

11 Silver Valley (Spring Valley) mine

12 Type: Gold, silver, lead, zinc

13 Location: Davidson County, 5 miles northeast of Silver Hill; 12 miles
14 east-southeast of Lexington.

15- The ore resembles that at the Silver Hill mine and is a complex
16 mixture of galena, sphalerite, chalcopryrite, and pyrite carrying gold
17 and silver in [a complex area of] acid volcanic-sericite schist country
18 rocks. The sphalerite content of the ore increases with depth. The
19 mine was discovered in 1880 and was worked until 1893.

20 References: Kerr and Hanna, 1888, p. 197-199;

21 Nitze and Hanna, 1896, p. 66;

22 Pardee and Park, 1948, p. 66;

23 Pogue, 1910, p. 104;

24 Stuckey, 1965, p. 322-323.

1 Simpson mine

2 Type: Gold

3 Location: Mecklenburg County, 10 miles southeast of Charlotte in
4 Clear Creek township;

5-
6 Several veins have yielded quartzose ores with some sulfides,
7 including chalcopyrite.

8
9 References: Kerr and Hanna, 188⁸7, p. 302;

10- Nitze and Hanna, 1896, p. 144;

11 Pardee and Park, 1948, p. 63.

1 Skeenah Creek prospect

2 Type: Copper

3 Location: Macon County.

4
5- A sample of ore analyzed for TVA contained 1.32 percent copper
6 and 5.8 percent iron.

7 Reference: Tennessee Valley Authority, 194²3, p. 32.

19
1 Slack Mine

2 Type: Gold

3 Location: Randolph County, 2½ miles south of Asheboro, near the
4 [✓]Winningham mine.

5- References: Kerr and Hanna, 1888, p. 253;

6 Nitze and Hanna, 1896, p. 59;

7 ^{Nitze}~~Nitze~~ and Wilkens, 1897, p. 47;

8 Pardee and Park, 1948, p. 64.

1 Sloan mine

2 Type: Copper

3 Location: Chatham County, in the forks of Deep and Rocky Rivers,
4 one mile from each.

5- A 2-foot vein of chalcopryite was worked to a depth of 40 feet
6 in the 1800's.

7
8 Reference: Kerr and Hanna, 1888, p. 212.
9

1 Sloan mine

2 Type: Gold

3 Location: Gaston County.
4

5- Reference: Genth and Kerr, 1881, p. 103.
15-

1 Sloan mine

2 Type: Gold

3 Location: Mecklenburg County, adjoining the Green C. Cathey mine,
4 8 miles northwest of Charlotte.

5-
6 Gold, pyrite, and chalcopryite ore has been noted at this mine,
7 which was worked to a depth of 40 feet in the 1880's.

8
9 References: Genth and Kerr, 1881, p. 111;
10- Nitze and Hanna, 1896, p. 139;
11 Pardee and Park, 1948, p. 63.

1 Smart (Bonnie Doon) and Fulwood mines

2 Type: Gold, lead

3 Location: Union County, 1 mile N. 30°E. of the Black mine. The Smart
4 and Fulwood mines are located on the same 370 acre tract.

5-
6 Galena and pyrite with gold, silver, sphalerite, and chalcopyrite
7 occur in a quartz vein in silicified sericite schist country rock.

8 The Smart mine has been worked intermittently from 1835 to 1911. The

9 "Lead shaft" was sunk in 1888 to a depth of 110 feet. Ore from this
10 shaft assayed 0.69 ounce of gold and 0.23 ounce of silver per ton. ~~One~~

11 of which was 200 feet deep. In all there were 6 shafts, ^{one} Pits exteⁿded

12 for a length of nearly 2,000 feet. The mine was renamed the Bonnie

13 Doon in 1906 and was reopened for a short time by J. C. Bates, who

14 did some development work. The latest reports of production were in

15- 1910 and 1911.

16
17 References: Bryson, 1936, p. 94;

18 Genth and Kerr, 1881, p. 119;

19 Kerr and Hanna, 1888, p. 189;

20- Nitze and Hanna, 1896, p. 99-100;

21 Pardee and Park, 1948, p. 104;

22 ✓ Pratt, 1907, p. 61-62;

23 Shepard, 1853, p. 594.

1 Smith mine

2 See Welborn mine, Davidson County.

1 Smith mine

2 Type: Gold

3 Location: Gaston County, 13 miles west of Charlotte and 3 miles
4 south of Mount Holly.

5-
6 References: Kerr and Hanna, 1888, p. 304;
7 Pardee and Park, 1948, p. 62.

11
1 Smith mine

2 Type: Gold

3 Location: Polk County, South Mountain area, $\frac{1}{2}$ mile east of the
4 Double Branch mine.

5-
6 Rich, narrow quartz veins carried gold.

7
8 References: Bryson, 1936, p. 143;
9 Nitze and Hanna, 1896, p. 174.

21
1 Smith mine

2 See Goliham mine, Randolph County.

1 Smith placer

2 Type: Gold

3 Location: Cabarrus County, 2 miles northeast of Georgeville.

4
5- Quartz veins cutting slate of the volcanic series ~~was~~^{were} seen. Placer
6 gold was found in a dry stream^{bed}. Placers [in the bed of a small draw] were
7 worked intermittently from 1905 to 1935.

8
9 References: C. B. Brown, 1934, written communication;

10- Pardee and Park, 1948, p. 71.

1 Smith and Palmer mine

2 Type: Gold

3 Location: Mecklenburg County, the southwest extension of the Rudisil
4 mine, 1 mile south of Charlotte.

5-
6 A line of pits extended for 500 feet along the strike of the
7 Rudisil vein in 1896. The greatest depth of workings was 75 feet,
8 and the width of the vein^{was} from 2 to 4 feet.

9
10- References: Nitze and Hanna, 1896, p. 131;

11 Nitze and Wilkens, 1897, p. 64;

12 Pardee and Park, 1948, p. 63.

23
1 Smith, V. W., mine

2 See Burrell Wells mine, Gaston County.

Snider mine

1 Type: Gold

2 Location: Rowan County.

3
4 Gold and pyrite were reported,

5-
6 Reference: Genth and Kerr, 1881, p. 116 $\frac{1}{2}$.

Snipe's mine

1 Type: Gold

2 Location: Chatham County.

3
4
5- Magnetite, epidote, chrysocolla, and azurite were reported in
6 the ore.

7 Reference: Genth and Kerr, 1881, p. 99.

Snyder mine

8
9 Type: Gold

10 Location: Cabarrus County, 8 miles southwest of Mount Pleasant,
11 on the same tract as the Faggart mine.

12
13 A quartz vein with white and rose rhodochrosite in bedded
14 argillite and volcanic slate carried gold values of from .35 to
15 .4 ounce per ton at the surface.

16
17 A 137-foot shaft was sunk by E.L. Hertzog of Spartanburg, S.C.,
18 in 1935. The values decreased with depth. In 1936 a 10-stamp mill
19 was erected by A.L. Nash of Salisbury to treat ore on the dump.

20
21 References: Bryson, 1936, p. 86; 1937, p. 17.

1 Southern Belle Mine

2 Type: Gold

3 Location: Rowan County, 6 1/2 miles southwest of Salisbury,
4 1 3/4 miles east of the Southern Railroad,
5-

6 The mine was worked ~~in about~~ ^{around} 1905. In 1935 there
7 were ~~a series of~~ trenches, pits, and shafts distributed
8 for 350 feet along a quartz vein 10-25 feet thick,
9 which contains pockets and streaks of limonite.

10-
11 References: Nitze and Hanna, 1896, p. 117;
12 Pardee and Park, 1948, p. 92.

13
1 Southern Copper and Gold Mining Co. mine

2 Type: Gold

3 Location: Rowan County, a few hundred yards southwest of the
4 Randolph shaft, in the Gold Hill district.

5- Ores occur in fine silicified tuff or rhyolite and in
6 coarse-grained tuff. The ore minerals in the coarse tuff
7 are chalcopryrite, sphalerite, galena, and auriferous pyrite.
8 In the fine tuff the ore minerals are sphalerite, galena,
9 and pyrite, with less chalcopryrite and quartz.

10-
11 Reference: Laney, 1910, p. 110.
25-

Southern Homestake mine

Type: Gold

Location: Randolph County, 3½ miles northwest of Jackson Creek, and 13 miles south of Thomasville; in the Lytton mining district, near Lytton, Tabernacle Township.

Free milling gold ore occurs in parallel bands or veins in a schistose zone in porphyritic rhyolite flow breccias. In 1904-1906 there were a 52-foot shaft, several trenches, a tunnel, and open cuts extending for a distance of 12,000 feet along the strike. A cyanide mill installed at that time treated 150 tons of ore and then was abandoned. The last work recorded was in 1923. This was low grade ore, averaging from \$3 to \$5 per ton.

References: C. B. Brown, 1934, written communication;

Pardee and Park, 1948, p. 64;

Pratt, 1907, p. 33, 46;

Pratt, 1904, p. 12-13;

South Muddy Creek placers

Type: Gold

Location: McDowell County, along South Muddy Creek and its tributaries, Long Branch, Alexander Branch, Gum Branch, and High Shoal Branch.

Placer deposits.

Reference: Nitzel and Hanna, 1896, p. 152 (map).

1 Spanish Oak Gap mine

2 Type: Gold

3 Location: Montgomery County, on the west flank of the ^w ^r
4 [^] [^]Uharie
Mountains.

5-
6 This was a placer mine in gravel underlying saprolite. Mining
7 was hindered by the scarcity of water and by the tenacious nature of
8 the clayey saprolite.

9
10- References: Bryson, 1936, p. 78;

11 Kerr and Hanna, 1888, p. 248;

12 Nitze and Hanna, 1896, p. 80;

13 Nitze and Wilkens, 1897, p. 52;

14 Pardee and Park, 1948, p. 64.

15-
1 Spears mine

2 Type: Gold

3 Location: Cabarrus County, 1 mile northwest of Pioneer Mills.

4
5- In 1890 the mine was worked by John Eudy. In 1931 J. A. Terry
6 sank a shaft between two old pits on a 3 inch quartz vein.

7
8 Reference: C. B. Brown, 1934, written communication.

Spencer (Copple, Ruth) mine

1 Type: Gold, copper

2 Location: Randolph County, 6 miles north of Jackson Creek; on the
3 upper branches of the Carraway, near the southern boundary of
4 Guilford County.

5-
6 A nearly vertical quartz vein from 4 to 6 feet wide carrying
7 disseminated chalcopryite is described by Emmons. Calcite and
8 bornite are also noted in the ore. The country rock is described
9 as greenstone schist or gabbro. The mine was worked before the Civil
10- War, when an 80-foot shaft was sunk, and again in the late 1800's and
11 early 1900's.

12
13 References: C. B. Brown, 1934, written communication;

14 Emmons, 1856, p. 206;

15- Kerr and Hanna, 1888, p. 212;

16 Pardee and Park, 1948, p. 64.

Splawn mine

1 Type: Gold

2 Location: Polk County, South Mountain area.

3
4
5- This was a massive vein of low-grade gold-bearing quartz.

6
7 References: Bryson, 1936, p. 143;

8 Nitzland Hanna, 1896, p. 174.

1 Spoon mine

2 See Pee Dee mine, Randolph County —

1 Spring Creek mine

2 Type: Barite

3 Location: Madison County, 0.8 mile northeast of Bluff.

4
5- Barite occurs in large crystals and crystalline ~~masses~~^{ss} in veins
6 which trend in a northeast-southwest direction.

7
8 References: Conley, 1958, p. 49;

9 Keith, 1904, p. 9.

1 Spring Valley mine

2 See Silver Valley mine, Davidson County.

1 Sprouse mine

2 Type: Gold

3 Location: McDowell County, near Demming on South Muddy Creek.

4
5- Gold-bearing quartz veins containing galena and sphalerite were
6 mined. Placer and lode deposits were worked intermittently during
7 the period 1885-1935 by Capt. J. J. Sprouse. At least 12,700 dwt.
8 of gold was recovered from stream gravels. A 125-foot shaft was sunk
9 on one quartz vein. Placer mining was stopped by an act of legislature
10- prohibiting tailⁱⁿwigs from being discharged into South Muddy Creek.

11
12 References: J. T. Pardee, 1934, written communication;

13 Pardee and Park, 1948, p. 77.

1 Stackhouse Mines (including Sandy Bottom, Nettie, Martha, Defender)

2 Type: Barite

3 Location: Madison County, south of Walnut Gap, 2.8 miles on the
4 Sandy Bottom road from its junction with U. S. 70
5- and 25 at Walnut Gap. —

6
7 The ore is barite associated with fluorite,
8 pyrite, calcite, quartz, and traces of copper in veins
9 along or near thrust faults in Max Patch Granite of
10 Archean age. The vein has an average dip of 55° to the
11 east and is enclosed by a hanging wall of slate and a
12 footwall of granite. The ^{U.S.}Bureau of Mines drilled 4
13 holes at the Sandy Bottom property, on a tract of 600
14 acres, in 1944, but sludge samples showed no more than
15- a trace of barite. Hunter and Gildersleeve believed
16 that reserves of barite ore existed at depth below the
17 old workings and near the northern end of the vein
18 where there were unmined portions.

19 References: Dahners, 1949, p. 6;

20- Hunter and Gildersleeve, 1946, p. 9-10.
21
22
23
24
25-

1 Stafford Mine

2
3 Type: Gold

4 Location: Randolph County, in the southwestern corner of the
5 County, and several hundred feet southwest of the
6 Griffin Mine, on a hill. —

7 Pyrite, pyrrhotite, and free gold were found
8 in a shear zone in silicified tuff. In 1934 the
9 workings consisted of a shaft with a stope and a short
10 adit.

11
12 References: C. B. Brown, 1934, written communication;
13 Pardee and Park, 1948, p. 64.

1 Stallings mine

2 Type: Gold

3 Location: Cabarrus County, near Georgeville, the western extension of
4 the Phoenix vein. —

5
6 In the 1930's Furr and Smith sank 3 shafts on a quartz and slate vein
7 about 20 inches wide. At the surface the ore was decomposed; at depth
8 sulfides were found.

9
10 Reference: Bryson, 1937, p. 17.
25

1 Standard Mine

2 Type: Gold

3 Location: Rowan County, southwest of the Hunnicut^{mine} and north of
4 the Union Copper Mine. —

5
6 Several narrow belts of mineralized schist along
7 the Gold Hill fault were described. Gossan covered
8 the surface in 1856, and siliceous veins carrying copper
9 carbonates and black oxide were exposed in an open cut
10 known as the "big cut", in 1856.

11 References: Emmons, 1856, p. 206-207;

12 Nitze and Hanna, 1896, p. 88.

13
14 Star (Union Refining and Mining Company) mine

1 Type: Gold

2 Location: Montgomery County, 4 miles southwest of Star. —

3
4 Gold occurs in an orebody 100 feet wide and of unknown depth and
5 length in rocks of the volcanic series. The Union Refining and
6 Mining Company of High Point, N.C., did open cut work at the mine in
7 1954 and 1955 under the direction of H. A. Knight, Sr.. \$20,000
8 of gold was recovered at the old Candor or Howie mine cyanide plant
9 before the mine closed. In 1958 and 1959 diamond drilling revealed
10 a large orebody; a shaft was started and a new 100-ton cyanide plant
11 was being built at the Candor mine.

12 Reference: Stuckey and Conrad, 1961, p. 6-7.

1
2
3
4
5-
6
7
8
1
2
3
12
1
2
3
4
5-
19
20-
21
22
23
24
25-

Stearnes mine

Type: Gold

Location: Mecklenburg County.

Gold and pyrite were noted in the ore.

Reference: Genth and Kerr, 1881, p. 111.

Stearns mine

See Putnam mine, Union County.

Sted mine

Type: Gold

Location: Montgomery Country.

Reference: Pardee and Park, 1948, p. 64.

1 Steel and Saunders Mines

2 Type: Gold, silver

3 Location: Montgomery County, on the east side of the ^wUharrie
4 River, 1½ to 2 miles southeast of Eldorado >

5-
6 The country rock is similar to that at the Russell
7 Mine - quartzitic, chloritic, argillaceous, and talcose
8 schists derived from tuffs. The ores occurred in
9 mineralized zones varying from 9 to 20 feet in thick-
10- ness. Narrow parallel seams of much richer ore were
11 found running through the mass of mineralized rock.
12 There is much free gold associated with galena,
13 sphalerite, chalcopyrite, and pyrite. Gold was dis-
14 covered at this mine about 1832 and the mine was worked
15- extensively before 1853. In 1876 the mine was purchased
16 by the Genesee Gold Mining Company, ^{which} mined and treated
17 the ore in Chileaⁿ Mills for some years. A 40-stamp
18 mill was in operation in 1887. At that time the
19 workings were 220 feet deep. There is no record of
20- much activity since 1888. The ruins of the mill were
21 seen in 1934. The production for 1887 was \$150,000.

References: Bryson, 1936, p. 74-75;
2 Kerr and Hanna, 1888, p. 199-201; 248; 252;
3 Nitze and Hanna, 1896, p. 77-78;
4 Nitze and Wilkens, 1897, p. 53;
5- Pardee and Park, 1948, p. 83-84.
6

1 Steele mine

2 Type: Gold

3 Location: Rowan County.

4
5- Reference: Pardee and Park, 1948, p. 64.

6
1 Stewart (Stuart) mine

2 Type: Gold

3 Location: Mecklenburg County, $4\frac{1}{2}$ miles northwest of Charlotte.

4
5- An ore dump in altered and mineralized slate was seen in 1934.

6
7 References: J.T. Pardee, 1934, written communication;

8 Pardee and Park, 1948, p. 63.

15-

16

17

18

19

20-

21

22

23

24

25-

1 Stewart mine

2 Type: Gold

3 Location: Union County, $5\frac{1}{2}$ miles northeast of Indian Trail, about
4 $1\frac{1}{2}$ to 2 miles southwest of the Moore mine, and $\frac{1}{2}$ mile north
5- of Goose Creek.

6
7 Three veins in argillaceous and sericitic schists contained
8 disseminated pyrite and galena with stringers of gold-bearing quartz.
9 Sphalerite, arsenopyrite, and pyromorphite were also noted in the
10- ore. Some of the ore was rich in lead content. In 1894 the mine
11 had two shafts 80 and 185 feet deep, connecting with drifts and
12 stopes. The veins were named the Asbury, Miller, and Jake, from
13 southeast to northwest. The mine was last worked in the 1890's,
14 when a 10-stamp mill was in operation, and a production of \$85,000
15- in gold was reported from one ore shoot. In 1934 ore from the dumps
16 contained iron oxide and assayed 0.8 ounce of gold and 0.24 ounce of
17 silver per ton.

18
19 References: Brown, C. B., 1934, written communication;

20- Bryson, 1936, p. 92-93;

21 Genth and Kerr, 1881, p. 119;

22 Kerr and Hanna, 1888, p. 190; 264;

23 Nitze and Hanna, 1896, p. 96-97;

24 Nitze and Wilkens, 1897, p. 63;

25- Pardee and Park, 1948, p. 104

1 Stinson mine

2 Type: Gold

3 Location: Mecklenburg County, near the Cabarrus County line, and
4 Pioneer Mills.

5-
6 Gold and pyrite were found here. This is one of the Pioneer
7 Mills group of mines and it is similar to that mine.

8
9 References: Genth and Kerr, 1881, p. 111;
10- Kerr and Hanna, 1888, p. 302;
11 Nitze and Hanna, 1896, p. 144;
12 Pardee and Park, 1948, p. 63.

13
1 Strothers (Ruben Boswell) prospect

2 Type: Gold

3 Location: Union County, 2 miles northeast of Weddington.

4
5- Gold occurs in a vein 9 feet wide in biotite granite about 1 mile
6 west of its contact with schists. Very fine gold is also found along
7 the stream in soil and alluvium to a depth of 16 feet. Below the
8 alluvium is blue sandy clay. An 18-foot timbered shaft on the creek,
9 pits, and an old Chilean^W mill were seen in 1934.

10-
11 References: C. B. Brown, 1934, written communication;
12 Pardee and Park, 1948, p. 104.

1 Stroup prospect

2 --see Jenkins Farm prospect, Gaston County.

3 Sturgess mine

1 See Portis mine, Franklin County

6
1 Sugarloaf Mountain prospect

2 Type: Copper

3 Location: Jackson County, near the crest of Sugarloaf Mountain, at
4 the head of Wayehutta Creek.

5- Massive sulfide ore containing pyrrhotite and minor chalcopyrite
6 in quartz - biotite gneiss country rock. A 4 to 5 foot thick gossan
7 covers the primary ore. About 125 feet south ⁵ in another gossan zone
8 with disseminated pyrite cutting gnarled and contorted garnet - mica
9 schist. A shallow shaft and a 50-foot tunnel have been dug to expose
10- the gossan.

11
12 Reference: G. H. Espenshade, 1944, written communication.

13
1 Sugartown River placer

2 Type: Gold

3 Location: Macon County.

4
5- Gold placers.

6 Reference: Pardee and Park, 1948, p. 63.

1 Sulfur mine

2 See Orchard mine, Cabarrus County. —

3 **FRANK**
1 ~~Frank~~ Summers farm prospect

2 Type: Tin

3 Location: Cleveland County, 1/4 mile north of Mauney Park prospect,
4 near the Gaston County line.

5—
6 Cassiterite-bearing greisen float was found in a cultivated
7 field. Boulders and rock have been plowed up, but no prospect work
8 has been done.

9
10— References: Keith and Sterrett, 1917, p. 143;
11 Kesler, 1942, table 18.

15—
1 Summerville mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles west of Charlotte.
4

5— A quartz vein 8 feet wide and several hundred feet long on the
6 surface and carrying solid sulfides is in granite country rock. In
7 1906 Mr. C.A. Ames sank a 50-foot shaft and a drift was driven to an
8 older 50-foot shaft 85 feet away. At this point the funds gave out
9 and the work was discontinued. The sulfides assayed \$64 per ton.

10—
11 References: Pratt, 1907, p. 66;
12 Pardee and Park, 1948, p. 63.

1 Sumner (Carson, McClure) mine

2 Type: Gold

3 Location: Mecklenburg County, 6 miles northwest of Charlotte, south
4 of the Cathey mine.

5-
6 A gold-bearing cellular quartz vein in granite trends N. 30° W.
7 Its northern extension forms a mine called the Carson or McClure.
8 One-quarter mile farther north the vein is opened on the land of
9 Mr. Cathey.

10-
11 Reference: Mining Magazine, 1853, ^{1st ser,} v. 1, no. 6, p. 591.

1 Surface Hill (Harris) mine

2 Type: Gold

3 Location: Mecklenburg County, 11 miles south of east of Charlotte,
4 300 yards south of the Ellington mine, and located on a high
5- plateau in Clear Creek township, from which flow McAlpine's
6 Creek to the southwest, Reedy Creek to the northeast, and Clear
7 Creek to the southeast.

8
9 Two large quartz veins, the Harris, striking N. 45°E, and the
10- Lidner or Vivian, striking N. 10°W, intersect. The veins are in
11 granite country rock and carry brown ore, chalcopryite, and a large
12 pocket of gold nuggets near the junction of the two veins where
13 a dike has cut across them. A number of reticulated quartz veinlets
14 have scattered their contents widely over the 66 acres comprising
15- the mining tract.

16 The mine is famous for its gold nuggets, and several thousand
17 pennyweights must have come from the space of a few square feet.

18
19 References: Bryson, 1936, p. 125-126;

20- Kerr and Hanna, 1888, p. 303;

21 Nitze and Hanna, 1896, p. 145;

22 Pardee and Park, 1948, p. 63.
23
24
25-

1 Swamp Shaft No. 1

2 Type: Tin

3 Location: Lincoln County, part of the Ka-Mi-Tin mine.

4
5- Cassiterite occurs in pegmatite or greisen in an ore body 72
6 inches thick and 30 feet long.

7
8 Reference: Kesler, 1942, table 18.

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

(Swift Island)
1 Swift Creek mine

2 Type: Gold.

3 Location: Montgomery County, in the southwestern part of the County,
4 near the Sam Christian mine, and about 3 miles from Swift Island
5- Ford on the Yadkin River.

6
7 Genth reports gold in plates, covered with octahedral crystals
8 at the Swift Island mine, which may be the same mine.

9
10- References: Genth, 1891, p. 13;

11 Kerr and Hanna, 1888, p. 247;

12 Pardee and Park, 1948, p. 64.

13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

1 Symonds mine

2 Type: Gold

3 Location: Davidson County, near Silver Hill.

4
5- Reference: Nitze and Hanna, 1896, p. 68.

1 Taggart mine

2 Type: Gold

3 Location: Cabarrus County, $3\frac{1}{2}$ miles north of Rocky River.

4
5- In 1934 little was seen except dumps overgrown with vegetation.
6 The workings ~~at~~ ^{at} the surface are aligned on a course of about N. 55° W.

7
8 Reference: Pardee and Park, 1948, p. 71.

9 Talbert mine

1 See Hill mine, Randolph County

12 Talc mine

1 See Cagle mine, Moore County

15- Tatham (Tatthour) Creek placers

1 Type: Gold

2 Location: Cherokee County, near Andrews.

3
4
5- Gold nuggets were produced by sluicing in 1911.

6
7 Reference: Pardee and Park, 1948, p. 62;

8 Pratt, 1914, p. 19;

9 U.S.G.S. Mineral Resources 1911, pt. 1, p. 883.
25-

Taylor mine

1 Type: Gold

2 Location: Halifax County, near the Portis mine;

3
4
5- References: Bryson, 1936, p. 63;

6 Kerr and Hanna, 1888, p. 241;

7 Nitze and Hanna, 1896, p. 27;

8 Nitze and Wilkens, 1897, p. 43.

Taylor mine

1 Type: Gold

2 Location: Mecklenburg County, 3 miles southwest of Charlotte.

3
4
5- Gold and pyrite were noted. The mine had been worked for a
6 distance of 400 feet along the vein in 1887.

7
8 References: Genth and Kerr, 1881, p. 111;

9 Kerr and Hanna, 1888, p. 293;

10- Nitze and Hanna, 1896, p. 131.

Taylor prospect

1
2 see McGuire prospect, Macon County

Teeter, Zeb, mine

1
2 See Champion mine, Mecklenburg County/

Teeter, Z. V., mine

1
2 See Black mine, Mecklenburg County.

Teisson mine

1 See Ritter mine, Moore County.
2

Thomas mine

1 Type: Gold
2

3 Location: Halifax County, 1½ miles northeast of Ransom's Bridge
4

5- References: Bryson, 1936, p. 63;
6

 Kerr and Hanna, 1888, p. 24;
7

 Nitze and Hanna, 1896, p. 27;
8

 Nitze and Wilkens, 1897, p. 43.
9

Thomas mine

1 Type: Copper
2

3 Location: Person County, 3 1/2 miles southwest of Virginia^{lin} and 1/2
4 mile southwest of the Holloway mine.
5-

6 White quartz veins contain^{ed} numerous [inclusions of] fragments of
7 porphyritic andesite country rock. From a study of material on the
8 dump Laney concluded that the vein was not strongly mineralized and that
9 very little ore was produced. The mine was opened in the 1880's by
10- Harris and Hyde. It was later sold to Whitney and Stevenson, a
11 Pittsburgh firm. It is stated that a few tons of ore were produced
12 and shipped.
13

14 References: Laney, 1917, p. 142-143;
15-

 Weed, 1900, p. 463-464;
16

 Weed, 1911, p. 83.

Thomas mine, prospect south of,

Type: Copper

Location: Person County, 1 mile south of the Thomas mine.

Native copper and cuprite occur in amygd^dules in Virgilina
Greenstone. A prospect pit here did not develop a promising orebody.

Reference: Laney, 1917, p. 156.

Thompson mine

1 Type: Gold

2 Location: Stanly County, 5 miles east of Albemarle, and 1 mile from
3 the Crawford (Ingram) mine.
4

5- The deposit is in dense slaty rock derived from a fine-grained
6 siliceous tuff of the volcanic series, associated with a massive tuff
7 of more basic composition. The ore lode is composed of irregular and
8 indefinitely bounded masses of slaty rock that contain disseminated
9 pyrite and pyrrhotite, or their oxidation products, and gold. In
10- 1906 the mine was owned by Dr. V. A. Whitley, who optioned it out to
11 an operator. At that time the workings comprised an open cut 30
12 to 40 feet wide, 100 feet long, and 25 feet deep, and some smaller
13 workings. The ore was treated in a 10-stamp mill, but work was
14 stopped because of the difficulty of separating the gold from the clay.
15- In 1931 Mr. Ed Snuggs of Albemarle erected a new 10-stamp mill. After
16 his death the mine was operated by Mr. C. W. Wheelock, who reported a
17 production of 163 ounces of gold during the next two years. In 1933
18 fourteen diamond drill holes were put down to test the ore, which
19 assayed from 0.01 to 0.03 ounce of gold per ton.
20-

21 References: Bryson, 1936, p. 25-26, 65;

22 Bryson, 1937, p. 19-20

23 Pardee and Park, 1948, p. 95-97;

24 Pratt, 1907, p. 58-59.
25-

1 Tingen mine

2 See Duke mine, Person County.

3

1 Todd mine

2 Type: Gold

3 Location: Mecklenburg County, 5 miles northwest of Charlotte,
4 1 mile southwest of the Frazer mine.

5-

6 Two or three quartz veins carrying sulfides were noted. The
7 ores were oxidized near the surface. An 80-foot shaft with drifts
8 had been put down before 1887. In 1886 a 10-stamp mill was erected.

9

10- References: Kerr and Hanna, 1888, p. 293;

11 Nitze and Hanna, 1896, p. 133;

12 Pardee and Park, 1948, p. 63.

13

17

18

19

20-

21

22

23

24

25-

Tom's Creek (Tone's Creek) mine

1 Type: Gold

2 Location: Montgomery County, on the west flank of the ^W ^Y
 3 Uharie
 4 Mountains.

5- This was a placer mine in gravel underlying saprolite. Mining
 6 was hindered by the scarcity of water and by the tenacious nature of
 7 the clayey saprolite.

8
 9
 10- References: Bryson, 1936, p. 78;

11 Kerr and Hanna, 1888, p. 248;

12 Nitze and Hanna, 1896, p. 80;

13 Nitze and Wilkens, 1897, p. 52;

14 Pardee and Park, 1948, p. 64.

Townsend mine

1 Type: Copper, gold

2 Location: Rowan County, near the Barnhardt mine.

3
 4 The ore was chalcopryrite and pyrite with gold.

5- Reference: Emmons, 1856, p. 207.

Trap Hill mine

1
 2 --see Bryan's Gap, Wilkes County(

1 Trautman (Troutman) mine

2 Type: Gold, zinc, lead

3 Location: Cabarrus County, 2 miles south of Gold Hill, at the
4 southeastern edge of the Gold Hill group of mines.

5-
6 Gold and sulfides occurred in lodes in silicified chlorite-
7 sericite schist of the volcanic series. The character of the ore changed
8 from auriferous cellular quartz containing decomposed sulfides for the
9 first 20 feet, to ferruginous quartz carrying crystallized pyromorphite,
10- cerussite, and other lead minerals from 20 to 60 feet in depth; to
11 auriferous pyrite and quartz from 60 to 100 feet in depth; to unaltered
12 quartz carrying increasing amounts of sphalerite and pyrite below 100
13 feet in depth. The Troutman vein was said to carry much argentiferous
14 galena. This mine was the site of the first gold discovery in the
15- Gold Hill region in 1842. In 1856 the vein was said to have yielded
16 \$400,000.

17
18 References: Kerr and Hanna, 1888, p. 193, 267-268;

19 Nitze and Hanna, 1896, p. 88-89;

20- Nitze and Wilkens, 1897, p. 58;

21 Pardee and Park, 1948, p. 89.

1 Trautman (Troutman) mine

2 Type: ^{Gold} Mecklenburg County, 5 to 10 miles west to northwest of

3 Location: Charlotte

4
5- References: Nitze and Hanna, 1896, p. 132;

6 Pardee and Park, 1948, p. 63.

1 Tredinick mine

2 Type: Gold

3 Location: Mecklenburg County, 7 miles southeast of Charlotte, near
4 Sardis Church.

5-
6 A vein one to two feet wide carries "a relatively large amount
7 of copper minerals". The mine had been prospected to a depth of 80
8 feet and for a length of 200 to 300 feet by the 1880's.

9
10- References: Kerr and Hanna, 1888, p. 301;
11 Nitze and Hanna, 1896, p. 143;
12 Pardee and Park, 1948, p. 63.

1 Trotter mine

2 Type: Gold

3 Location: Mecklenburg County, west of the Charlotte city limits at
4 Remount Ave., at a bridge crossing the Southern Railway.

5-
6 A quartz vein carrying gold, pyrite, and chalcopryrite in a
7 granite shear zone shows in a cut just east of the bridge. In 1887
8 the mine had been prospected for a length of 450 feet, and worked to
9 a depth of 70 feet.

10-
11 References: Genth and Kerr, 1881, p. 111;
12 Kerr and Hanna, 1888, p. 293;
13 J. V. Lewis, 1934, written communication;
14 Nitze and Hanna, 1896, p. 131-132;
15- Pardee and Park, 1948, p. 63.

Troy Mine**Type:** Gold**Location:** Montgomery County, 6 or 7 miles north of Troy ➤

The ore is a band of decomposed slate, either sand or plastic clay, carrying limonite cubes and gold. On the northwest side is a vein of hard white quartz. Two other quartz veins were explored on the property. At a depth of 70 feet light-colored, sericitic schist carrying pyrite was encountered. There is no visible difference between the ore-bearing zone and decomposed country rock on either side. Coarse and nuggety gold was panned from a small stream on the property. The mine was operated in the 1880's and was opened by a shaft known as the Moore shaft, and several other shafts. In 1906 the Troy Mining Company was mining ore from 2 open pits, one 500 feet long and 20 to 24 feet wide, and hauling it about $\frac{1}{4}$ mile to the mill. A 50-ton cyanide plant was being installed at that time.

References: Pardee and Park, 1948, p. 64;

Pratt, 1907, p. 24-25, 55-57.

1 Troy prospect

2 Type: Lead, zinc

3 Location: Montgomery County, north of Troy.

4

5- A quartz vein 10- to 12 feet wide at the surface was mineralized for
 6 its entire width. Ore on the dumps carried a trace of gold, 1 ounce
 7 of silver per ton, 10 to 20 percent lead, 19 to 22 percent zinc, and
 8 1.1 percent copper. In the 1930's two shallow shafts were sunk to a
 9 depth of 20 to 30 feet by McGrew and Gibbons of Philadelphia.

10-

11 Reference: Bryson, 1937, p. 37-38.

12

1 Tuck mine

2 Type: Copper

3 Location: Granville County, 300 yards southeast of the Big America
 4 mine.

5- In 1888 a promising vein of good width had been discovered at
 6 a depth of 15 feet.

7

8 Reference: Kerr and Hanna, 1888, p. 214, 216.

9

10
 11 Tuck mine

12
 1 See Yadkin mine, Rowan County.
 2

1 Tuckasee mine

2 Type: Copper

3 Location: Jackson County.

4
5- Reference: Weed, 1911, p. 137.

6
1 Tucker (California) mine

2 Type: Gold

3 Location: Cabarrus County, 1 mile south of the Phoenix mine. ➤

4
5- Pyrite, chalcopryrite, and barite occur in a quartz vein in
6 greenstone country rock. The ore carried about 0.75 ounce per ton of
7 gold. In 1884 there was a 175-foot shaft on a vein not over 8 inches
8 wide. The ore was treated in a Plattner chlorination plant erected in
9 1882, but it did not give satisfactory results, and the Mears process
10- was introduced. A line of old pits and shafts marks the course of
11 another vein nearby.

12
13 References: Nitze and Hanna, 1896, p. 123;

14 Nitze and Wilkens, 1897, p. 62;

15- Pardee and Park, 1948, p. 72.

H.C.)
1 Tucker mine

2 Type: Gold

3 Location: Lincoln County, near the Old Kidsville Post Office about
4 2 miles southwest of Denver, on the H. C. Tucker property.

5-
6 Gold occurred in sugary vein quartz and in placers in nearby
7 streams in the vicinity of Daly Mountain. In 1935 a caved pit was
8 the only indication of the workings from which gold was produced 50
9 years previously.

10-
11 Reference: Pardee and Park, 1948, p. 77.

12
1 Tuttle's mine

2 Type: Gold

3 Location: Caldwell County.

4
5- Gold in placers.

6
7 Reference: Genth and Kerr, 1881, p. 96.

20-
1 Tuxler (Drexler) mine

2 Type: Gold

3 Location: Rowan County, 6 miles east of Salisbury.

4
5- Reference: Pardee and Park, 1948, p. 64.

Twin mine

Type: Gold

Location: Guilford County, 6 miles southwest of Greensboro.

Two parallel quartz veins were exposed in one tunnel, hence the name of the mine. Each vein was about 18 inches wide and separated by 4 feet of slate country rock and carried chalcopryrite and gold.

References: Bryson, 1936, p. 105-106;

Emmons, 1856, p. 203-204;

Kerr and Hanna, 1888, p. 206;

Nitze and Hanna, 1896, p. 206;

Nitze and Wilkens, 1897, p. 46;

Pardee and Park, 1948, p. 63.

Twin-Edwards mine

Type: Gold, copper

Location: Guilford County, $\frac{1}{2}$ mile southwest of Greensboro and within one mile of the main line of the Southern Railway near Pomona.

A sample of the ore assayed in 1903 carried .343 ounce per ton of gold, trace of silver, and .87 percent copper. The mine was worked before the Civil War and was reopened briefly in 1903.

References: Pratt, 1904, p. 21;

Pratt, 1907, p. 39.

1
2
3
4
5-
6
7
8
9
10-
11
12
13
14
15-
16
17
18
19
20-
21
22
23
24
25-

Twitty, J. D., mine

Type: Gold

Location: Rutherford County, on ^aCone Creek 2 miles south of the
Rutherford-McDowell county line.

In 1845 a diamond weighing 1 1/3 carats was found in the gold washings of the J. D. Twitty gold mine. A smaller diamond was recovered from gold washings on the property of C. Leventhrope, nearby.

Reference: Conley, 1958, p. 65.

Uharrie (Uharie, Uwharrie) mine

Type: Gold

Location: Randolph County, 12 miles southwest of Asheboro, and northeast of the Russell mine in Montgomery County.

This^s mine is similar to the Russell mine. The country rock is a dark bluish gray silicified tuff, fractured and filled with carbonate seams. Bryson reported that the rock carried 1½ percent carbonate. The mine was worked first before the Civil War, and in 1884^{by} Mr. Henley, who erected a 30-stamp mill. At that time the workings consisted of a 360-foot shaft with levels at 100, 200, and 300 feet. In 1934 Charlie Woodle sank 2 shafts, and worked the surface material.

References: C. B. Brown, 1934, written communication;
 Bryson, 1936, p. 70-71;
 Kerr and Hanna, 1888, p. 253;
 Nitze and Hanna, 1896, p. 60;
 Nitze and Wilkens, 1897, p. 47.

Union Copper mine

See Hunnicutt mine, Rowan-Cabarrus County.

Union Refining and Mining Company mine

See Star mine, Montgomery County (

1 Upper Creek prospect

2 Type: Lead-zinc

3 Location: Burke County, on the north side of Upper Creek, about 3
4 miles west of Table Rock.

5-
6 Galena, sphalerite, and chalcopryrite were found in a 25-to 30-
7 foot -thick vein of granular quartz parallel to the foliation of the
8 enclosing schist and gneiss. The galena occurs in ⁷ed~~h~~edral cubes
9 as much as 5 mm. across and is said to carry small quantities of
10- silver. The vein was exposed in several prospect pits over a
11 distance of 200 feet.

12
13 Reference: Bryant and Reed, 1966, p. 8; Reed, 1964, p. 44-45.

14
1 Upper Mostellar cut

2 Type: Tin

3 Location: Lincoln County, southwest of the Henry shaft, of the Ka-Mi-
4 Tin mine.

5-
6 Two ore bodies were seen, 4 and 6 feet thick, in greisen gangue in
7 muscovite schist and gneiss wall rock. The cassiterite ore is
8 associated with an uncomformable pegmatite body.

9
10- Reference: Kesler, 1942, table 18.

11 Uwarra mine

12 See Montgomery mine, Montgomery County

1 Valley River placers, No. 6 vein

2 Type: Gold

3 Location: Cherokee County, along the course of the Valley River
4 near the town of Murphy. No. 6 vein is 1 mile
5- northeast of Murphy.
6

7 Gold occurs in placer deposits along the river
8 and in quartz veins carrying silver and galena in
9 limestone or marble beds of the ^{CO}Oree series.

10- Exploration work was conducted during the early 1930's
11 with little success.

12 References: Bryson, 1936, p. 148-149;

13 Nitze and Hanna, 1896, p. 192-193.
14

1 Vanderburg mine

2 See Phoenix mine, Cabarrus County.
3
4

1 Varnadore prospect

2 Type: Gold

3 Location: Rowan County, 2 miles northeast of Rockwell.
4

5- The mine was worked in 1932 by Archie Nash.
6

7 References: C. B. Brown, 1934, written communication;

8 Pardee and Park, 1948, p. 64.

1 Vein Mountain mine

2 Type: Gold

3 Location: McDowell County, on Second Broad River extending from
4 Vein Mountain about 4 miles northeast to Huntsville Mountain.
5- The northern end of the tract of 6,800 acres is known as the
6 Hunt's Mountain or Huntsville Mine.

7
8 A series of about 33 gold-bearing quartz veins occur in a belt
9 about $\frac{1}{4}$ mile wide in crystalline schists. Below the water table the
10- veins are mineralized with pyrite, chalcopyrite, galena, and
11 sphalerite.

12 The placer deposits were extensively mined. Before 1896 four
13 shafts, the deepest 117 feet deep, were sunk on the veins, and a
14 10-stamp mill was erected on the property. In 1908 the deaths, in
15- quick succession, of the mill foreman, two assistants, president,
16 and other officers of the Vein Mountain Mining Co., followed by pro-
17 longed litigation, caused the work to be indefinitely suspended. The
18 mill was in fairly good repair in 1934. The mine is said to have
19 operated profitably but production is not known.

20-
21 References: Bryson, 1936, p. 140-141;

22 / Cameron, 1893, p. 308;

23 Kerr and Hanna, 1888, p. 314;

24 Nitze and Hanna, 1896, p. 168-169;

25- Pardee and Park, 1948, p. 77.

1 Vickery and Lauder mine

2 Type: Gold

3 Location: Guilford County, near Jamestown:

4
5- References: Nitze and Hanna, 1896, p. 116;

6 Pardee and Park, 1948, p. 63.

1 Vinson's Half Acre mine

2 See Wyatt mine, Union County. (

1 Vista mine

2 Type: Copper

3 Location: Mecklenburg County, Crab Orchard township.

4
5-
6 In 1901 the mine was being developed.

7
8 Reference: Pratt, 1902, p. 26.

18
1 Wade mine

2 See Eury mine, Montgomery County (

1 Waldrope property

2 Type: Copper

3 Location: Macon County, southwest of Franklin near the base of

4 Nantahala Mountain.

5-
6 Probably chalcopryrite similar to the Patton prospect.

7 Reference: Smith, 1875, p. 114.

1 Walker mine

2 Type: Gold

3 Location: Mecklenburg County, 8 miles west of Charlotte.

4
5- Reference: Pardee and Park, 1948, p. 63.

6
1 Ward mine

2 Type: Gold

3 Location: Davidson County, 2 miles east of Cid, and 1 mile west of
4 ^{Delph} the ~~(Delk)~~ mine. ~~in Randolph County.~~

5-
6 Crystallized gold occurred in red siliceous clay pockets in quartz
7 veins in a bedded fragmental acid tuff. Chalcopyrite, pyrite, and
8 electrum were noted. A rich gravel, 1 to 14 feet thick, covered the
9 surface of many acres about the mine. The mine was worked from 1853
10- to 1882, and from 1895 to 1905, and in the 1920's. The saprolites
11 between the shaft and Lick Creek were worked in the 1930's.

12
13 References: C. B. Brown, 1934, written communication;

14 Emmons, 1856, p. 137-139;

15- Kerr and Hanna, 1888, p. 274;

16 Pogue, 1910, p. 118.
23
24
25-

1 Warne, (Warren, ^{hr}Josh C. Moore) mine

2 Type: Gold

3 Location: Clay County, on Brasstown Creek near the North Carolina
4 State line.

5- Gold deposits occur in quartz veins near the contact of
6 Cambrian schists with Precambrian rocks. M. R. Hilford of Henderson-
7 ville conducted exploration and development work in 1934 and 1935.
8 A 40-foot shaft was sunk and a 10-stamp mill was shipped to the
9 property, but was never erected.
10-

11 References: Bryson, 1936, p. 149;

12 Kerr and Hanna, 1888, p. 318.
13

1 Washington mine

2 See Bonnie Belle mine, Union County.

1 Washington mine

2 See Silver Hill mine, Davidson County.

1 Watauga prospect

2 Type: Copper

3 Location: Macon County, on the east side of Watauga Creek, 6 3/4
4 miles northeast of Franklin.

5- Chalcopyrite, pyrite, and pyrrhotite ore occurs as mineralized
6 wall rock varying considerably in richness. A small amount of copper
7 ore was mined in 1930.
8

9 Reference: Hunter and Gildersleeve, 1946, p. 19.

1 Wayehutta mine

2 Type: Copper

3 Location: Jackson County, on Wayehutta Creek, about 6 miles southeast
4 of Sylva.

5-
6 Massive sulfide ore consisting principally of pyrrhotite, with
7 chalcopyrite, sphalerite, pyrite, and rare galena occurs in quartz-
8 mica gneiss, ~~of the Carolina Gneiss.~~ The mine was worked in the 1860's,
9 and was last opened in the 1930's by the Carolina Copper Company of
10- West Detroit, Michigan. The mine was investigated by the Tennessee
11 Valley Authority in 1942. The deposit has been opened by an adit
12 and a drift to the north, about 200 feet long, two shafts 30 to 50
13 feet deep, and several shallow prospect pits.

14
15- Reference^s: G. H. Espenshade, 1944, written communication;
16 Ross, 1935, p. 90-91;
17 Smith, 1875, p. 113;
18 Weed, 1911, p. 137.
19
20-
21
22
23
24
25-

1 Weathers, Julia, prospect

2 Type: Tin

3 Location: Gaston County, about 1 mile southwest of the Jenkins
4 farm prospects.

5-
6 Two ore bodies were found containing cassiterite in greisen
7 gangue in muscovite schist and gneiss. The ore bodies are conformable
8 with the wall rocks. Rich float ore was found.

9
10- Reference: Kesler, 1942, table 18.

11 Welborn (Smith) mine

1 Type: Gold, silver, lead

2 Location: Davidson County, 2 miles west of Silver Hill.
3

4
5- Narrow quartz lenses containing galena, sphalerite, pyrite, and
6 chalcopyrite with gold and silver resemble those at the Silver Hill
7 mine. The country rock is schist derived from andesitic tuff. A
8 shaft was sunk at this mine in 1882, and 6 to 8 tons of ore per day
9 were produced until the mine closed in June 1883.

10-
11 References: Kerr and Hanna, 1889, p. 199;

12 Nitze and Hanna, 1896, p. 68;

13 Pardee and Park, 1948, p. 62;

14 Pogue, 1910, p. 106.

1 Wells' Farm

2 Type: Copper

3 Location: Gaston County.

4
5- The minerals noted include magnetite, hematite, pyrite, azurite,
6 bornite, rutile, garnet, zircon, beryl, tourmaline, monazite,
7 menaccanite.

8
9 Reference: Genth and Kerr, 1881, p. 103.

10
11
12 Wenona mine

13 Type: Gold

14 Location: Union County.

15
16
17
18
19
20- Reference: Pardee and Park, 1948, p. 65.

1 Westfeldt Prospect

2 Type: Copper - zinc

3 Location: Swain County, about $\frac{1}{2}$ mile N. 48° E. of the Hazel
4 Creek Mine, along a tributary of Haw Gap Branch. —

5—
6 Chalcopyrite and pyrrhotite are disseminated in a
7 zone parallel to the foliation in beds of fine-grained
8 sandstone alternating with beds of graphitic phyllite
9 and siltstone. A composite sample of the ore dump
10— assayed 0.19 percent copper and 0.11 percent zinc; a
11 sample of the richest-looking ore assayed 0.56 percent
12 copper and 0.20 percent zinc. The mine was opened
13 about 1900 when 5 adits and 2 shafts were dug for a
14 distance of 600 feet along a small tributary of Haw
15— Gap Branch. About 300 tons of material lay on the
16 main dump in 1943.

17 Reference: Espenshade, 1963, p. 35.
18

1 Wetherbee mine

2 Type: Gold

3 Location: Polk County, South Mountain area.

4
5— Gold placers.

6
7 Reference: Nitze and Hanna, 1896, p. 174.

1 WGN mine

2 See Gold Hill mine, Rowan County.

3
1 White (Col. White's) mine

2 Type: Gold

3 Location: Cabarrus County.

4
5- Chalcopyrite and aikinite ^{etc} ~~was~~ noted in the ore.

6
7 References: Genth, 1891, p. 27;

8 Genth and Kerr, 1881, p. 96;

9 Kerr and Hanna, 1888, p. 347.

13
14
1 White Bank mine

2 Type: Gold

3 Location: Burke County, lower slope of Pilot Mountain.


4
5-
6 This was a placer mine.

7
8 References: Nitze and Hanna, 1896, p. 165;

9 Pardee and Park, 1948, p. 62.

1 Whitehead prospect

2 Type: Gold, copper

3 Location: Guilford County, south of Jamestown, between ^{the} Jacks Hill
4 and Aberdeen mines. 

5-
6 This mine is on the same quartz vein as the North State, and
7 the character of the vein is described under that mine. Several
8 shallow shafts were seen, but this property was largely unprospected
9 in the 1930's.

10-
11 References: C. B. Brown, 1934, written communication;
12 Nitze and Hanna, 1896, p. 115;
13 Pardee and Park, 1948, p. 76.

1 White House property

2 Type: Gold

3 Location: Franklin County, between the Portis mine and Fishing Creek.

4 The White House property, 713 acres, was acquired by the Norlina
5- Mining Company in 1935.

6
7 Reference: Bryson, 1936, p. 58.

8
9
1 Whitewaters Valley placer

2 Type: Gold

3 Location: Macon County, in the southeast corner.

4 Gold placers.

5-
6 Reference: Pardee and Park, 1948, p. 63.

1 Whiterock Creek prospect

2 Type: Copper

3 Location: Jackson County, about 150 yards below the junction of
4 Dodgen and Whiterock Creeks.

5- A quartz vein carrying pyrite, but no copper minerals in horn-
6 blende - feldspar gneiss country rock was explored by a shallow pit.

7
8 Reference: G. H. Espenshade, 1944, written communication.

9
1 Whiteside mine

2 Type: Gold

3 Location: Cleveland County,

4
5- Gold occurs in placers.

6
7 Reference: Genth and Kerr, 1881, p. 100.

8
9
1 Whitesides, J. W., and L. A. C. Kizer prospects

2 Type: Tin

3 Location: Gaston County, about 1/4 mile west of the Jenkins prospects.

4
5- Cassiterite occurs in two ore bodies each 2 feet thick in greisen
6 gangue in muscovite schist or gneiss. The ore bodies are conformable
7 with the wall rock. Shallow pits were found filled in 1942.

8
9 Reference: Kesler, 1942, table 18.

1 Whiting prospect

2 Type: Copper

3 Location: Graham County, on Fax Creek one mile south of the Little
4 Tennessee River.

5- Disseminated pyrrhotite and fine-grained pyrite occur in massive
6 sandstone. No copper sulfides or stains were observed. Shallow pits
7 were sunk about 1939 by D. B. Burns of Asheville, N. C., at two sites
8 along an abandoned lumber railroad.
9

10- Reference: Espenshade, 1963, p. 36.

1 Whitney group (McMakin, Silver, Mauney, Isenhour, Fritz-Honeycutt)

2 Type: Gold, silver

3 Location: Cabarrus County, extending from about $1\frac{1}{2}$ miles to
4 3 miles southwest of Gold Hill. These mines are on the
5- same lode and were consolidated as the Whitney group in
6 the late 1890's.
7

8 The Whitney lode is a silicified shear zone, from a few
9 feet to 50 feet wide, and strikes approximately parallel to
10- the foliation of the gray slate country rock. The lode consists
11 of numerous quartz layers alternating with silicified slate. Gold,
12 rather than copper, predominates in the ore which is auriferous
13 pyrite and chalcopyrite. Films of native gold, later than the
14 pyrite, were deposited in some places between layers of schist.
15- Manganese ores were noted at the surface. Below a depth of 60
16 feet argentiferous galena, sphalerite, and tetrahedrite became
17 more plentiful.

Whitney group (Con't)

1
2
3 The McMakin mine was opened sometime ^{after} ~~between~~ 1842, when the
4 first gold discovery in the Gold Hill area was made, ~~and the~~
5 ~~outbreak of the Civil War. The mine was closed down during the~~
6 ~~war but was reopened afterward~~ and was operated until 1861. The
7 records on the other mines are even more scanty and nothing is
8 recorded of their early history. The Whitney Reduction Co. owned
9 the entire lode in 1899 and produced gold through 1906. The
10 McMakin mine was developed at that time by 3 shafts, the deepest
11 of which was 700 feet, and many underground workings. In 1935 the
12 Milton Hersey Co., Ltd., of Montreal, ^{Canada}, opened the 700-foot
13 shaft to a depth of more than 245 feet, and opened up 2,000 feet
14 of drifts and stopes in an unsuccessful attempt to reactivate the
15 mine. The production from 1899 to 1906 was \$62,500 in gold. In
16 1906, Laney reported a developed reserve of 1,500,000 tons averaging
17 0.125 ounce per ton of ore.

18
19 References: Bryson, 1937, p. 17;
20 Kerr and Hanna 1887, p. 192-193, 265-266, 347;
21 Laney, 1910, p. 79, 82, 108-110;
22 Nitze and Hanna, 1896, p. 89-90;
23 Nitze and Wilkens, 1897, p. 60;
24 Pardee and Park, 1948, p. 88-91.
25

1 Widenhouse mine

2 Type: Gold, silver

3 Location: Cabarrus County, 3-3/4 miles northwest of Georgeville.

4
5- The vein is located in a zone of chlorite^{ic} schist.

6
7 References: Nitze and Hanna, 1896, p. 91;

8 Pardee and Park, 1948, p. 62.

9
1 Wilhelmina mine

2 Type: Gold

3 Location: Mecklenburg County, 5 miles west of Charlotte.

4
5- In 1906 development work was done by Messrs. C.A. Ames and
6 W.D. Rock on a quartz vein carrying gold and sulfides. An old 75-foot
7 shaft was cleaned out, a 100-foot vertical shaft was sunk, and a 10-
8 stamp mill was installed. A 2 $\frac{1}{2}$ -3 foot vein was cut at the 75-foot
9 level. The mine produced about \$10,000 to \$12,000 in eighteen months.

10-
11 Reference: Pratt, 1907, p. 66.

1 Wilkins Creek mine

2 Type: Copper

3 Location: Haywood County, on Wilkins Creek, about 2 miles southeast
4 of Waterville Dam on the Pigeon River.

5-
6 Massive pyrrhotite and chalcopyrite ore occurs in a vein 4 to 6
7 feet wide in slate country rock. The ore is overlain by gossan at
8 the surface. The mine has not been worked since the 1860's, and the
9 workings, consisting of several 20-50 foot shafts, an 80-foot drift,
10- and several pits and trenches, are caved in.

11
12 References: Hunter and Gildersleeve, 1946, p. 18.

13 Smith, 1875, p. 112;

14 Tennessee Valley Authority, 1942, written communication.

1 Williams mine

2 Type: Gold

3 Location: Chatham County.

4
5- Galena and chalcopyrite were noted in the ore,

6
7 Reference: Genth and Kerr, 1881, p. 99.
22

1 Williams mine

2 See Mc Cleary mine, Mecklenburg County.

25-

Willis Hill mine

1 See Millis Hill mine, Guilford County. >

Wilson, A.J., mine

2 Type: Gold

3 Location: Mecklenburg County, 11 miles south of east of Charlotte,
4 south of the Ferguson Hill mine, and $\frac{1}{2}$ mile southwest of
5- Mungo's store. —

6
7 Gold occurs in one of a series of northwest-southeast trending
8 quartz veins. The ore zone was 8 to 14^{feet} wide carrying compact hematite
9 and pyrite. The mine was first opened in 1895 to a depth of 30 feet.

10-
11 References: Nitze and Hanna, 1896, p. 144, 145.

Wilson, Frank, mine

1 Type: Gold

2 Location: Mecklenburg County, near Charlotte,
3
4

5- References: Kerr and Hanna, 1888, p. 293;

6 Nitze and Hanna, 1896, p. 131;

7 Pardee and Park, 1948, p. 63.

24

25-

1 Wilson Kindley mine

2 Type: Gold

3 Location: Randolph County, 1/2 mile southwest of the Hoover Hill
4 mine. ↘

5- This mine is ^{said to be} similar to the Hoover Hill. No veins were seen in
6 siliceous ^w rhyolite country rock. The owner in 1934 claimed that no
7 gold was found here except what was salted from the Hoover Hill mine.
8 The mine was worked for a few months in 1881 by a New York company.
9 Workings consisted of one tunnel, and a 40-foot shaft.
10-

11
12 References: C. B. Brown, 1934, written communication;

13 Kerr and Hanna, 1888, p. 257;

14 Nitze and Hanna, 1896, p. 57.

15 Nitze and Wilkins^e, 1897, p. 47.
16
17
18
19
20-
21
22
23
24
25-

1 Wilson, Stephen, mine

2 Type: Gold

3 Location: Mecklenburg County, 9 miles west of Charlotte, and 4 miles west
4 of the Capps mine:

5-
6 Ten quartz veins carrying gold, pyrite, and chalcopyrite were
7 found in granite country rock. Two of these veins were worked in the
8 1870's and 1880's. One vein extending for at least 800 feet was
9 developed in 1878 by an inclined shaft 400 feet deep, from which drifts
10- extended for a distance of 1,500 feet.

11
12 References: Bryson, 1936, p. 117;

13 Genth and Kerr, 1881, p. 111;

14 Kerr and Hanna, 1888, p. 294;

15- Nitze and Hanna, 1896, p. 133;

16 Pardee and Park, 1948, p. 80.

1 Wilton mine

2 Type: Molybdenum

3 Location: Granville County, 2 miles east of Wilton. Take North
4 Carolina Highway 56 east out of Wilton for 2.6 miles, turning
5- north on an unpaved road for 0.4 mile, and take the west fork
6 for 0.9 mile to a state highway quarry.

7
8 Molybdenite filling fractures in granite was found in the
9 quarry.

10-
11 Reference: Conley, 1958, p. 33.

Winningham mine

1 Type: Gold

2 Location: Randolph County, [2½ miles south of Asheboro or] 2½ miles
3 northeast of Asheboro.
4

5- In 1934 two pits were seen in silicified andesitic tuff country
6 rock. The mine is said to have been salted.
7

8 References: C. B. Brown, 1934, written communication;
9

10- Kerr and Hanna, 1888, p. 253;

11 Nitze and Hanna, 1896, p. 59;

12 Nitze and Wilkens, 1897, p. 47;

13 Pardee and Park, 1948, p. 64.

Winslow mine

1 Type: Gold

2 Location: Randolph County, 5 miles southwest of Asheboro.
3
4

5- References: Kerr and Hanna, 1888, p. 253;

6 Nitze and Hanna, 1896, p. 60;

7 Nitze and Wilkens, 1897, p. 47;

8 Pardee and Park, 1948, p. 66.

Wolf Creek (Wolf County) prospect

1 Type: Copper

2 Location: Jackson County, southwest of Cullowhee mine,
3

16- References: Smith, 1875, p. 113;
7

17 Weed, 1911, p. 137.
18

1 Wolverine mine

2 Type: Gold

3 Location: Rutherford County, 4 miles from Rutherfordton.

4
5-
6 A quartz vein, about 18 inches wide, carrying gold was first
7 worked by the Rutherford Gold Company, probably in the 1830's or
8 1840's, for an old tunnel on the property known as the Bechtler
9 tunnel, may have been named after Christian Bechtler, a Rutherford-
10 ton jeweler who minted coins from locally mined gold during the years
11 from 1830 to 1857. In 1905 the Wolverine Gold Mining Company ^a sunk
12 a 100-foot shaft on the vein.

13
14 References: Nitze and Hanna, 1896, p. 153-154;

15- Pratt, 1905, p. 14-15.

16
1 Woodruff mine

2 See Woolworth mine, Mecklenburg County.

1 Woods Fram prospect

2 Type: Copper

3 Location: Jackson County, about 1½ miles southeast of the Moody
4 prospect.

5-
6 No copper minerals were seen, but small quartz veins and con-
7 siderable ^{numbers of} epidote stringers occur in biotite schist. Several shallow
8 pits have been dug.

9 Reference: G. H. Espenshale, ^d 1944, written communication.

Woodward-Hedgepath tract

Type: Gold

Location: Nash County, 2 miles from Nashville.

A vein of cellular quartz 3 feet wide carrying pyrite was opened for a distance of 1 mile about 1896. Adjacent were aureiferous slates.

Reference: Nitze and Hanna, 1896, p. 27.

Woolworth (Woodruff, Grier) mine

Type: Gold

Location: Mecklenburg County, 1 to 3 miles southwest of Charlotte, south of the Trotter mine and 1/2 mile south of Highway 20.

A vein 2 to 20 feet wide, similar to that at the Rudisill mine, was mined in the late 1800's and was closed down in July, 1901. It was reopened in November, 1906, and was worked for 5 or 6 months. The workings include one 100-foot shaft with drifts at the 75-foot and 100-foot levels, two 65-foot shafts 300 and 400 feet from the deep shaft, and many pits and open cuts. About 3,000 tons of ore were mined in 1906-1907, and one carload was shipped which was worth \$24 per ton.

References: J.V. Lewis, 1934, written communication;
Pardee and Park, 1948, p. 63;
Pratt, 1907, p. 69; 1914, p. 22.

1 Worth Mine

2
3 Type: Gold

4 Location: Montgomery County, 1 mile southeast of the Moratock
5- mine, near the junction of the ^UWharrie and Yadkin
6 Rivers

7 This was a placer mine.

8
9 References: Conley, 1962, p. 17;
10- Nitze and Hanna, 1896, p. 80;
11 Pardee and Park, 1948, p. 63

1 Wright mine

2 Type: Gold

3 Location: Gaston County, 4 miles south of Belmont.

4
5- Reference: Pardee and Park, 1948, p. 62.

1 Wright mine

2 Type: Gold

3 Location: Moore County, 150 feet northeast of the Clegg mine.

4
5- The Wright mine is a continuation of the vein at the Clegg mine.

6 The ore is disseminated through a manganese-stained fault gouge.

7 Before 1862 a shaft was sunk on the property. In 1912, J.W. Wright
8 put down a second shaft to a depth of 260 feet.

9
10- References: Conley, 1962 a, p. 24-25;
11 Pardee and Park, 1948, p. 64.

1 Wright, Pink, prospect

2 Type: Tin

3 Location: Gaston County, about 3/4 mile southwest of the Julia
4 Weathers prospect.

5-
6 Cassiterite in greisen gangue in muscovite schist and gneiss.

7
8 Reference: Kesler, 1942, table 18.

9
10-
1 Wyatt (Wiatt, Vinson's Half Acre) mine

2 Type: Gold

3 Location: Union County, near the Howie mine

4
5- The geology is the same as the Howie mine. This mine is one
6 of the "Grand Union Gold Mine," a tract of 1941 acres comprising the
7 Howie, Bonnie Belle, Wyatt,^{and} Penman mines, in the 1800's.

8
9 Reference: Kerr and Hanna,^{1888,} p. 261;

10- Lieber, 1858, p. 56-57;

11 Pardee and Park, 1948, p. 65.

12
13
14
15-
16
17
18
19
20
21
22
23
24
25-

1 Yadkin (Tuck) mine

2 Type: Gold

3 Location: Rowan County, southwest of Salisbury, and east of the
4 Southern Railroad.

5-
6 The ore carried gold and pyrite.

7
8 References: Genth and Kerr, 1881, p. 116;
9 Nitze and Hanna, 1896, p. 117.

1 Yancey mine

2 See Dugy mine, Person County.

13
1 Yellow Dog mine

2 See Isenhour mine, Mecklenburg County.

17
1 Young's Crossroads

2 Type: Gold

3 Location: Granville County.

4 Gold and pyrite were noted.

5-
6 Reference: Genth and Kerr, 1881, p. 103
7
25-

Appendix I

List of mines and prospects by county

Abbreviations for type of deposit

Au	gold
Ba	barite
Co	cobalt
Cu	copper
Mo	molybdenum
Pb	lead
Py	pyrite
R-E	rare earths
Sn	tin
W	tungsten
Zn	zinc

NameType of Deposit

Alamance County

Anthony mine	Au
Boyd mine	Au
Dixon's mine	Au
Foust mine	Cu
Holt mine	Au
McAden mine	Au
Newlin's mine	Au

Alexander County

Barnes mine	Au
-------------	----

1	Alleghany County	
2	Harris, H. prospect	Cu
3	Peachbottom (Maxwell) mine	Cu, Pb
4	Phipps prospect	Ba
5-	Anson County	
6	Cox, Jesse mine	Au
7	Hamilton (Bailey) mine	Au
8	Ashe County	
9	Gap Creek (Copper Knob, Deep Gap)	
10-	mine	Cu, Au
11	Garvey, W. H. prospect	Cu
12	Ore Knob mine	Cu
13	Rich Knob prospect	Cu
14	Avery County	
15-	Gragg placers	Au
16		
17		
18		
19		
20-		
21		
22		
23		
24		

1	Burke County	
2	Brown Mountain mine	Au
3	Carolina Queen mine	Au
4	Glen Alpine mine	Au
5-	Hancock mine	Au
6	Hodge (Hedge) mine	Au
7	Hunts Mountain mine	Au
8	Magazine mine	Au
9	Mills, J. C. mine	Au
10-	Upper Creek prospect	Pb, Zn
11	White Bank mine	Au
12	Cabarrus County	
13	Allen-Boger mine	Au
14	Allison mine	Au
15-	Arey mine	Au
16	Bangle mine	Au
17	Barber mine	Au
18	Barnhardt mine	Au
19	Barrier mine	Au
20-	Blackwelder mine	Au
21	Boger, Dan mine	Au
22	Bost, Charlie mine	Au
23	Buffalo mine	Au
24	Cabarrus mine	Au
	Cline (Cruse) mine	Au, W

1	Coates mine	Au
2	Crayton mine	Au
3	Crosby (Cosby, Poplan) mine	Au
4	Crosby No. 2 mine	Au
5-	Crowell's mine	Au
6	Cullen's mine	Au
7	Dixie Queen (Newell) mine	Au
8	Ellsworth mine	Au
9	Elwood mine	Au
10-	Faggart mine	Au
11	Fisher mine	Au
12	Flowe's mine	Au
13	Furness (Furniss, Firness) mine	Au
14	Furniss Furr mine	Au
15-	Furr, Allen (Eva, Furr; Silver Valley, Midas)	Au
16	Gannon mine	Au
17	Gannon mine	Au
18	Garman (Gorman) mine	Au
19	Gibb mine	Au
20-	Harkey "diggings"	Au
21	Harkey mine	Au
22	Harris mine	Au
23	Heglar mine	R-E
24	Heilig mine	Au
	Hill mine	Au

1	Hopkins No. 1 mine	Au
2	Hopkins, Dan (Hopkins No. 2) mine	Au
3	Klutz (Kluttz) mine	Au
4	Linker mine	Au
5-	Litaker mine	Au
6	Long mine	Au
7	Love mine	Au
8	Ludowick mine	Au
9	Meadow Creek mine	Au
10-	Montgomery mine	Au
11	Morrison mine	Au
12	Narville mine	Au
13	Nash and Plott mine	Au
14	No. 3 mine	Au
15-	No. 813 mine	Au
16	Nugget (Biggers, New Nugget) mine	Au
17	Orchard mine	Au
18	Phoenix (Miami, Vanderburg) mine	Au
19	Pioneer Mills mine	Au
20-	Quaker City mine	Au
21	Reed (Reid) mine	Au
22	Reed, Joel mine	Au
23	Rocky River (Jake Shin, Tom Shin)	
24	mine	Au
	Rogers mine	Au

1	Sanders (Saunders) mine	Au
2	Smith placer	Au
3	Snyder mine	Au
4	Spears mine	Au
5-	Stallings mine	Au
6	Sulphur mine	Au
7	Taggart mine	Au
8	Trautman (Troutman) mine	Au
9	Tucker (California) mine	Au
10	White (Col. White's) mine	Au
11	Whitney Group (McMakin, Silver,	
12	Mauney, Isenhour, Fritz-	
13	Honeycutt) mines	Au
14	Widenhouse mine	Au
15-		
16		
17		
18		
19		
20-		
21		
22		
23		
24		

1	Caldwell County	
2	Baker (Baker Hill) mine	Au, Pb, Ag
3	Bald Knob mine	Au
4	Bee Mountain mine	Au
5-	Corpening mine	Au
6	Flemming (Fleming) mine	Au
7	Francis mine	Au
8	Grandfather Mountain prospects,	
9	east side	Au
10-	Hercules mine	Au
11	Little John mine	Au
12	McKenzie mine	Au
13	Micheaux mine	Au
14	Miller mine	Au
15-	Nibelong (Niebelung, Blue Ridge)	
16	mine	Au
17	Old Miller mine	Au
18	Pax Hill (Packe's Hill) mine	Au
19	Scott Hill mine	Au
20-	Tuttle's mine	Au
21		
22		
23		
24		

1	Catawba County	
2	Abernathy mine	Au
3	England mine	Au
4	McCorkle mine	Au
5-	McCubb mine	Au
6	Peachtree mine	Au
7	Rufty mine	Au
8	Shuford mine	Au
9	Shuford, A. D. mine	Au
10-	Chatham County	
11	Bear Creek mine	Cu
12	Chatham mine	Au
13	Chick mine	Cu
14	Clegg mine	Cu
15-	Danelly's Creek mine	Au
16	Phillips (Millright) mine	Cu, Au
17	Sloan mine	Cu
18	Snipe's mine	Au
19	Williams mine	Au
20-		
21		
22		
23		
24		

1	Cherokee County	
2	Axel's Shaft on Marble Creek	Au
3	Beaverdam Bald prospect	Cu
4	Little Bald prospect	Cu
5-	No. 6 mine	Au
6	Parker mine	Au
7	Ramsay, M. mine	Au
8	Tatham (Tathour) Creek placers	Au
9	Valley River placers	Au
10-	Clay County	
11	Kitchens mine	Cu
12	Warne (Warren, John C. Moore) mine	Au
13	Cleveland County	
14	Blue Ridge Tin Corporation ^{ain} mine	
15-	works	Sn
16	Bonnie Mill prospect	Sn
17	Compact School, prospect 1,675	
18	feet S. 60°E.	Sn
19	Compact School, prospect 3,000	
20-	feet S. 64°E.	Sn
21	Compact School, prospect 3,205	
22	feet S. 3°E.	Sn
23	Dixon School prospect	Sn
24	Durham mine	Au
	Faires mine	Sn

1	Falls prospect	Sn
2	Kings Mountain mine	Sn
3	Kings Mountain town prospects	Sn
4	Ledoux prospects	Sn
5-	Mauny Park prospect	Sn
6	Mountain mine	Au
7	Patterson, J. farm prospect	Sn
8	Plonk, Mike prospect	Sn
9	Ross prospect	Sn
10-	Ross prospect, southwest of	Sn
11	Shiloh Church prospect	Sn
12	Summers, Frank farm prospect	Sn
13	Whiteside mine	Au
14	Davidson County	
15-	Allred, Billy mine	Au
16	Baltimore mine	Au
17	Beck's, David mine	Au
18	Black mine	Au
19	Boss mine	Au
20-	Briggs mine	Au
21	Brown mine	Au
22	Cid mine	Cu, Au, Ag
23	Conrad Hill (Dodge Hill) mine	Au, Cu
24	Cross mine	Au
	Denton mine	Au

1	Emmons (Davidson, Hercules) mine	Au, Cu
2	Eureka mine	Au
3	Harris mine	Au
4	Headrick mine	Cu, Au
5-	Hepler mine	Au
6	Hepler, Claude (Hegler) mine	Au
7	Hoover mine	Pb
8	Hunt mine	Au
9	Ida mine	Au
10-	Lalor (Allen) mine	Au, Cu
11	Laughlin mine	Au
12	Liberty Mining Co. mine	Au
13	Loftin (Laftin, Laffing) mine	Au
14	Midway mine	Au
15-	Miller mine	Au
16	Moore mine	Au
17	Morgan mine	Au
18	Noce mine	Au
19	Norlina (Nor-Lin) mine	Au
20-	Ore Knob mine	Au
21	Peters mine	Au
22	Plyler mine	Au
23	Russell mine	Au
24	Secrest (Sechrist) mine	Au
	Silver Hill (Washington, King's) mine	Au, Ag, Pb, Zn

1	Silver Valley (Spring Valley) mine	Au, Ag, Pb, Zn
2	Symonds mine	Au
3	Ward mine	Au
4	Welborn (Smith) mine	Au, Ag, Pb
5-	Davie County	
6	Butler (County Line) mine	Au
7	Callahan Mountain mine	Au
8	Gray mine	Au
9	Isaac Allen mine	Au
10-	Franklin County	
11	North Carolina mine	Au
12	Portis (Sturgess) mine	Au
13	White House property	Au
14	Gaston County	
15-	Allen prospect	Sn
16	Allen prospect, 2,225 feet N.70°W	Sn
17	Baldwin prospect	Sn
18	Baryte mines	Ba
19	Beattie (Sam Beattie) mine	Au
20-	Berry, E. A. prospect	Sn
21	Burrell Wells (V. W. Smith) mine	Au
22	Cannon mine	Au
23	Cansler and Shuford mine	Au
24	Carpenter, J. M. L. prospect	Sn
	Clark, Gus prospect	Sn

1	Clemmer mine	Au
2	Cole farm prospect	Sn
3	Cross (Peysour) Mountain	Co
4	Crowder's Mountain (Caledonia) mine	Au
5-	Dameron mine	Au
6	Derr mine	Au
7	Duffie mine	Au
8	Eddleman (Berry, Holland) mine	Au
9	Farrar mine	Au
10-	Ferguson mine	Au
11	Gap mine	Au
12	Hastings prospect	Sn
13	Hastings, Paul prospect	Sn
14	Hayes mine	Au
15-	High Shoals mine	Au
16	Holland prospect	Sn
17	Horton, J. C. shaft (Chestnut Hill	
18	vein)	Sn
19	Hovis, M. V. prospect	Sn
20-	Jenkins farm prospect	Sn
21	Jones mine	Sn
22	Kings Mountain (Cetawba, Briggs)	
23	mine	Au, Pb, Zn
24	Kizer, L. A. C. prospect	Sn
	Kizer-Mauny farm prospect	Sn

1	Lawton mine	Pb, Zn
2	Lineberger mine	Au
3	Long Creek mine	Au
4	McClurd mine	Au
5-	McLean (Rumfeldt) mine	Au
6	Mauny, Fred prospect	Sn
7	Metcalf prospect	Sn
8	Oliver mine	Au
9	Oliver (Crouse, Pasour) mine	Py
10-	Oliver No. 2 mine	Au
11	Ormond mine	Py, Co, Au
12	Ormond-Carr prospect	Sn
13	Ormond, J. A. prospect	Sn
14	Ormond, M. farm prospect	Sn
15-	Patterson mine	Au
16	Plonk, John farm prospect	Sn
17	Puett mine	Au
18	Ramseur Mill prospect	Sn
19	Rayfield prospect	Sn
20-	Reese mine	Au
21	Rhodes mine	Au
22	Rhyne mine	Au
23	Robinson mine	Au
24	Seaman prospect	Sn
	Sloan mine	Au

1	Smith mine	Au
2	Stroup prospect	Sn
3	Weathers, Julia prospect	Sn
4	Wells' farm	Cu
5-	Whitesides, J. W. prospect	Sn
6	Wright mine	Au
7	Wright, Pink prospect	Sn
8		
9	Graham County	
10-	Kitchen prospect	Cu
11	Whiting prospect	Cu
12	Granville County	
13	Annie Maud prospect	Cu
14	Big America (Royster) mine	Cu
15-	Blue Wing mine	Cu
16	Cornfield (Eustis) property	Cu
17	Ford prospect	Cu
18	Fourth of July mine	Cu
19	Frazier mine	Cu
20-	Holloway mine	Cu
21	Mastodon (Pocahontas) mine	Cu
22	Pannebakér prospects	Cu
23	Seat prospect	Cu
24	Silver Nugget mine	Cu
	Tuck mine	Cu

1	Wilton mine	Mo
2	Young's Crossroads	Au
3	Guilford County	
4	Aberdeen (Horney Ridge) mine	Au, Cu
5-	Ball mine	Au
6	Beard mine	Au
7	Beason mine	Au
8	Bolton prospect	Au
9	Cambridge mine	Cu
10-	Deep River (Coffin) mine	Au, Cu
11	Eudy mine	Au
12	Fisher Hill mine	Au
13	Gardner Hill mine	Au, Cu
14	Gibson mine	Au
15-	Harlan (Harland) mine	Au, Cu
16	Heath (Donnell) mine	Au
17	High Point mine	Au
18	Hodges (Hodgins) Hill mine	Au
19	Hoover mine	Au
20-	Horwitz mine	Au
21	Hudson mine	Au
22	Jacks Hill mine	Au, Cu
23	Lindsay mine	Au, Cu
24	Millis Hill (Willis Hill) mine	Au
	North Carolina (Fentress) mine	Au, Cu

1	North State (McCullough) mine	Au, Cu
2	Oak Hill mine	Au
3	Palachian mine	Au, Cu
4	Phoenix mine	Cu
5-	Pine Hill mine	Au
6	Puckett mine	Au
7	Raleigh mine	Au
8	Twin mine	Au
9	Twin=Edwards mine	Au, Cu
10-	Vickery and Lauder mine	Au
11	Whitehead prospect	Au, Cu
12	Halifax County	
13	Davis mine	Au
14	H. and H. mine (House property)	Au, Cu, Pb, Zn
15-	Jones-Boy Scout mine	Mo
16	Kearney mine	Au
17	Mann mine	Au
18	Moss-Dryden (Moss-Richardson) mine	Mo
19	Nick Arrington mine	Au
20-	Taylor mine	Au
21	Thomas mine	Au
22	Haywood County	
23	Redman (Redmond, Fines Creek) mine	Cu
24	Wilkins Creek mine	Cu

1	Henderson County	
2	Boylston (Boilston) mine	Au
3	Pardo (Little Hungry River, Brown)	
4	mine	Pb
5-	Jackson County	
6	Brendle Knob mine	Cu
7	Brinkley (Allison) mine	Cu
8	Buck Knob prospect	Cu
9	Cambuco mine	Cu
10-	Cany Fork Bald prospect	Cu
11	Casher's Valley placer	Au
12	Cherry Gap mine	Cu
13	Coggins prospect	Cu
14	Cullowhee mine	Cu
15-	Davies mine	Cu
16	Fairfield Valley (Georgetown) placer	Cu
17	Gunstocker prospect	Cu
18	Hooper Branch prospect	Cu
19	Hornbuckle prospect	Cu
20-	Loudermilk mine	Cu
21	McClure prospect	Cu
22	Moody prospect	Cu
23	Panther Knob prospect	Cu
24	Phillips (Lovedahl) prospect	Cu
	Poor Ridge mine	Cu

Savannah (Be ^{tt} is Gap, New Savannah) mine	Cu
Scott's Creek prospect	Cu
Shell Ridge prospect	Cu
Sugarloaf Mountain prospect	Cu
Tuckasegee mine	Cu
Wayhutta mine	Cu
Whiterock Creek prospect	Cu
Wolf Creek (Wolf County) prospect	Cu
Woods Farm prospect	Cu
Wolfe County	
Clegg mine	Cu
Sanford mine	Au

1	Lincoln County	
2	Burton mine	Au
3	Carpenter, S. T. prospect	Sn
4	Cherry mine	Au
5-	Condon (Main) shaft	Sn
6	Gates, J. E. shaft	Sn
7	Graham mine	Cu, Au
8	Hauss (House) mine	Au
9	Henry shaft	Sn
10-	Hoke mine	Au
11	Jake open cut	Sn
12	Ka-Mi-Tin mine	Sn
13	Macpelah Church prospect	Cu
14	Mostellar, J. vein	Sn
15-	Mueller (Muller) mine	Au
16	Old Well shaft	Sn
17	Rhyne Estate prospect	Sn
18	Swamp shaft No. 1	Sn
19	Tucker, H. C. mine	Au
20-	Upper Mostellar cut	Sn
21		
22		
23		
24		

1	McDowell County	
2	Cane Creek placers	Au
3	Dobson (Dodson's, Cedar Cove) mine	Pb
4	Hunt's Mountain (Huntsville) mine	Au
5-	Kirksey's mine	Pb
6	Linville Caverns prospect	Pb, Zn
7	Marion Bullion Company (Brackettown,	
8	Granville) mine	Au
9	North Fork Creek prospect	Pb, Zn
10-	Queen mine	Pb
11	South Muddy Creek placers	Au
12	Sprouse mine	Au
13	Vein Mountain mine	Au
14	Macon County	
15-	Ammons Branch (Horse Cove) placer	Au
16	Buck Creek prospect	Cu
17	McGuire (Taylor) prospect	Cu
18	Mica City Creek prospect	Cu
19	Otto (C ^b ake, Little Tennessee, Macon)	
20-	mine	Cu
21	Patton (Nantahala) mine	Cu
22	Skeenah Creek prospect	Cu
23	Sugartown River place	Au
24	Waldrope property	Cu
	Watauga prospect	Cu
	Whiteners Valley placer	Au

1	Madison County	
2	Betts, A. G. mine	Ba
3	Gahagan mine	Ba
4	Klondyke mine	Ba
5-	Long Mountain mines	Ba
6	Mine Ridge prospect	Ba
7	Spring Creek mine	Ba
8	Stackhouse (Defender, Martha, Nettie,	
9	Sandy Bottom) mine	Ba
10-	Mecklenburg County	
11	Abernathy, Clem mine	Au
12	Alexander (Chapman) mine	Au
13	Alexander, Amos mine	Au
14	Alexander, Martin mine	Au
15-	Alexander, Morehead mine	Au
16	Arlington mine	Au
17	Bane mine	Au
18	Barringer mine	Au
19	Beaver mine	Au
20-	Bennett mine	Au
21	Black (Z. V. Teeter) mine	Au
22	Black Cat mine	Au
23	Blake mine	Au
24	Brafford mine	Au
	Brawley mine	Au

1	Brown mine	Au
2	Burnett mine	Au
3	Caldwell (Craig-Davidson) mine	Au
4	Campbell mine	Au
5-	Capps (Capps Hill) mine	Au
6	Carson mine	Au
7	Cathey mine	Au
8	Cathey, Green C., mine	Au, Cu
9	Champion (Zeb Teeter) mine	Au
10-	Charlotte mine	Au
11	Chinquepin mine	Au
12	Clark mine	Au
13	Crosby mine	Au
14	Crump mine	Au
15-	Davidson mine	Au
16	Dudley mine	Au
17	Dunlop (Mole Hill) mine	Au
18	Dunn mine	Au
19	Dunn, W. L. mine	Au
20-	Ellington (Blair, Hard Hill) mine	Au
21	Elliotte Brothers prospects	Au
22	Empire mine	Au
23	Ferguson Hill mine	Au
24	Ferris (Faires, Garris) mine	Au
	Ferris, Tom mine	Au

1	Frazer mine	Au
2	Frederick mine	Au
3	Gibson	Au
4	Gold Hill mine	Au
5	Griffith (Bryant Park) property	Au
6	Hayes mine	Au
7	Helms, Mrs. John mine	Au
8	Henderson mine	Au
9	Henson, Pat mine	Au
10	Hipp (Hipps) mine	Au
11	Hood mine	Au
12	Hoover (Rhyne) mine	Au
13	Hoover, Bob mine	Au
14	Hoover, Jas. (McCall) mine	Au
15	Hopewell (Kerns, Kearns) mine	Au
16	Hovey mine	Au
17	Howell mine	Au
18	Hunter (Dr. Hunter) mine	Au
19	Hunter, A. H. mine	Au
20	Hunter, John P. (Elwood) mine	Au
21	Hunter, S. H. mine	Au
22	Isenhour (Yellow Dog) mine	Au
23	Johnson mine	Au
24	Jordan mine	Au
	Juggernaut mine	Au

1	King Solomon mine	Au
2	McCleary (McLeary, Williams) mine	Au
3	McCombs mine	Au
4	McCord mine	Au
5-	McCorkle mine	Au
6	McDonald mine	Au
7	McGee mine	Au
8	McGinn mine	Au
9	McLean mine	Au
10-	Maxwell (Hagler) mine	Au
11	Mayberry mine	Au
12	Means (Mears) mine	Au
13	Moore mine	Au
14	Neal, F. S. mine	Au
15-	Neal, T. G. mine	Au
16	Newell mine	Au
17	Nolan mine	Au
18	Orr, R. B. mine	Au
19	Parks mine	Au
20-	Pharr mine	Au
21	Plummer mine	Au
22	Plummer, Charles mine	Au
23	Point mine	Au
24	Poplin mine	Au
	Prim mine	Au

1	Providence mine	Au
2	Pruitt mine	Au
3	Queen mine	Au
4	Queen of Sheba mine	Au
5-	Ray (Rhea, Rea, Baltimore and North	
6	Carolina) mine	Au
7	Rogers mine	Au
8	Roswell mine	Au
9	Rudisil mine	Au
10-	St. Catherine (Charlotte, McCombs)	
11	mine	Au
12	Shaffer mine	Au
13	Simpson mine	Au
14	Sloan mine	Au
15-	Smith and Palmer mine	Au
16	Stearns mine	Au
17	Stewart (Stuart) mine	Au
18	Stinson mine	Au
19	Summerville mine	Au
20-	Sumner (Carson, McClure) mine	Au
21	Surface Hill (Harris) mine	Au
22	Taylor mine	Au
23	Todd mine	Au
24	Trautman (Troutman) mine	Au
	Tredinick mine	Au

1	Trotter mine	Au
2	Vista mine	Au
3	Walker mine	Au
4	Wilhelmina mine	Au
5-	Wilson, A. J. mine	Au
6	Wilson, Frank mine	Au
7	Wilson, Stephen mine	Au
8	Woolworth (Woodruff, Grier) mine	Au
9	Mitchell County	
10-	Lick Ridge mine	Cu
11	Montgomery County	
12	Appalachian (Coggins, Rich Cog)	
13	mine	Au
14	Beaver Dam mine	Au
15-	Black Ankle mine	Au
16	Bright mine	Au
17	Buck Mountain mine	Au
18	Bunnell mine	Au
19	Carter mine	Au
20-	Coggins, Sallie mine	Au
21	Crump mine	Au
22	Curry mine	Au
23	Dark Springs mine	Au
24	Deep Flat mine	Au
	Dry Hollow mine	Au

Dutchman's Creek mine	Au
Eldorado mine	Au, Cu, Pb, Zn
Eury (Nude) mine	Au
Falconda mine	Au
Gold mine, name unknown	Au
Gold prospect, name unknown	Au
Grandman mine	Au
Griffin mine	Au
Har ^b bin mine	Au
Henderson mine	Au, Cu, Pb, Zn
Iola mine	Au
Island Creek mine	Au
Martha Washington mine	Au
Montgomery (Uwarra) mine	Au
Moore mine	Au
Moratoock mine	Au
Morris Mountain (Davis, Dutton)	
Ophir) mine	Au
Nall mine	Au
Ophir (Davis) mine	Au
Pear Tree Hill mine	Au
Reynolds mine	Au
Riggon Hill mine	Au
Russell (Palmer, Peebles) mine	Au
Sam (Christian) mine	Au

1	Sedberry mine	Au
2	Spanish Oak Gap mine	Au
3	Star (Union Refining and Mining	
4	Co.) mine	Au
5-	Sted mine	Au
6	Steel and Saunders mine	Au
7	Swift Creek mine	Au
8	Tom's Creek (Tone's Creek) mine	Au
9	Troy mine	Au
10-	Troy prospect	Pb, Zn
11	Worth mine	Au
12	Moore County	
13	Alden and Merrill mine	Au
14	Allen mine	Au
15-	Bat Roost mine	Au
16	Bell (Belle) mine	Au
17	Brown mine	Au
18	Burns (Alred, Burns and Alred) mine	Au
19	Cagle (Laurel Hill, Hancock, Talc)	
20-	mine	Au
21	California mine	Au
22	Cameron placer	Au
23	Cheek mine	Au, Cu, Pb
24	Clegg mine	Au
25	Donaldson (Cotton) mine	Au

1	Dry Hollow mine	Au
2	Elise (Elsie) mine	Au
3	Grampusville (Grampus) mine	Au
4	Haw Branch Road mine	Cu
5-	Jackson mine	Au
6	Jenkins mine	Au
7	Laufman mine	Au
8	Monroe mine	Au
9	Moody mine	Au
10-	Red Hill mine	Au
11	Richardson mine	Au
12	Ritter (McDonald, Teisson) mine	Au
13	Sewell mine	Au
14	Shields mine	Au
15-	Wright mine	Au
16	Nash County	
17	Argo mine	Au
18	Arrington mine	Au
19	Conyers mine	Au
20-	Mann-Arrington mine	Au
21	Woodward-Hedgepa th tract	Au
22		
23		
24		

1	Orange County	
2	Fawcett, J. B. mine	Ba
3	Latta mine	Ba
4	Patterson mine	Au
5-	Robeson mine	Au
6	Person County	
7	Arringdale mine	Cu
8	Buckeye mine	Cu
9	Copper King mine	Cu
10-	Copper World mine	Cu
11	Cross-Cut mine	Cu
12	Duke (Tingen) mine	Cu
13	Durgy (Person Consolidated, Yancey)	
14	mine	Cu
15-	Durgy prospects	Au
16	Engle prospect	Cu
17	Gillis mine	Cu
18	Mill Creek mine	Cu
19	Northeast shaft	Cu
20-	Poole mine	Cu
21	Thomas mine	Cu
22	Thomas mine, prospect south of	Cu
23		
24		

1	Polk County	
2	Abrams, Pattie mine	Au
3	Adams mine	Au
4	Arms, Tom mine	Au
5-	Carpenter mine	Au
6	Davis mine	Au
7	Double Branch mine	Au
8	Hamilton mine	Au
9	Lilian mine	Au
10-	MacIntire mine	Au
11	Mills, L. A. mine	Au
12	Morris mine	Au
13	Neal mine	Au
14	Ponder mine	Au
15-	Prince (Price) mine	Au
16	Red Spring mine	Au
17	Riding mine	Au
18	Smith mine	Au
19	Splawn mine	Au
20-	Wetherbee mine	Au
21	Randolph County	
22	Allred (Burns, Overton, Randolph)	
23	mine	Au
24	Bosun mine	Au
	Branson mine	Au

1	Cameron Mountain mine	Au
2	Coburn mine	Au
3	College mine	Cu
4	Cotts, J. H. mine	Au
5-	Davis Mountain (Dorris Hill,	
6	McAllister, Conroy) mine	Au
7	Delft (Delph, Lytton, Empire,	
8	Miller, Brown Hill) mine	Au
9	Dowd (Rush) mine	Au
10-	Garland Prichard mine	Au
11	Gluyas mine	Au
12	Gold Bowl (Pugh) mine	Au
13	Goliham (Goliham, Smith) mine	Au
14	Gray mine	Au
15-	Griffin mine	Au
16	Harney mine	Au
17	Hill (Talbert) mine	Au
18	Hoover Hill mine	Au
19	House (McGrew) mine	Au
20-	Jones (H & G, Asheboro, County	
21	Home) mine	Au
22	Jones-Keystone mine	Au
23	Lafflin (Laughlin, Herring) mine	Au
24	Laughlin, John mine	Au
	Lowdermilk (McAdoo) mine	Au

1	Merrill mine	Au
2	Newby (Newberry) mine	Au
3	New Sawyer (Ross, Powell) mine	Au
4	Parish (Kindley, Kismet) mine	Au
5-	Pee Dee (Spoon) mine	Au
6	Pierce Mountain mine	Au
7	Pine Hill mine	Au
8	Porter (Johnson, Pilot Mountain)	
9	mine	Au
10-	Prichett mine	Au
11	Redding mine	
12	Robbins mine	Au
13	Sawyer mine	Au
14	Scarlet mine	Au
15-	Senter mine	Au
16	Slack mine	Au
17	Southern Homestake mine	Au
18	Spencer (Copple, Ruth) mine	Au, Cu
19	Stafford mine	Au
20-	^U Wharrie (^U Wharrie, ^U Wharrie) mine	Au
21	Wilson Kindley mine	Au
22	Winningham mine	Au
23	Winslow mine	Au
24	Rockingham County	
	Lindsay's, W. mine	Au

1	Rowan County	
2	Atlas mine	Au
3	Bame (Graf, Holshouser, Holtshauser,	
4	Jacob) mine	Au
5-	Bringle mine	Au
6	Bullion mine	Au
7	Cady mine	Au
8	Camp Ridge mine	Au
9	Cope mine	Au
10-	Davidson and Wilson mine	Au
11	Dunns Mt. mine	Au
12	Dutch Creek mines	Au
13	Gold Coin mines	Au
14	Gold Hill (Randolph, Miller,	
15-	Barnhardt, North, WGN, Myers)	
16	mine	Au
17	Gold Know ^b mine	Au
18	Goodman mine	Au
19	Grupy mine	Au
20-	Harrison mine	Au
21	Hartman mine	Au
22	Haynes mine	Au
23	Hill mine	Au
24	Howard mine	Au
	Hunnicutt (Union Copper) mine	Au, Cu

1	Kistler mine	Au
2	Morgan mine	Au
3	Negus mine	Au
4	New Discovery mine	Au
5-	Old Field mine	Au
6	Parks mine	Au
7	Randleman mine	Au
8	Reimer (Rymer) mine	Au
9	Roseman mine	Au
10-	Rumple (Rumpler) mine	Au, Cu
11	Snider mine	Au
12	Southern Belle mine	Au
13	Southern Copper and Gold Mining Co.	
14	mine	Au
15-	Standard mine	Au
16	Steele mine	Au
17	Townsend mine	Au
18	Tuxler (Drexler) mine	Au
19	Varnadore prospect	Au
20-	Yadkin (Tuck) mine	Au
21		
22		
23		
24		

1	Rutherford County	
2	Alta (Monarch, Idler, Carson, Glen-	
3	dale) mine	Au
4	Biggerstaff mine	Au
5-	Ellwood (Elwood) mine	Au
6	Gamble mine	Au
7	Golden Valley placers	Au
8	Grayson mine	Au
9	Jones mine	Au
10-	Lawson Smart mine	Au
11	Leeds mine	Au
12	Melton mine	Au
13	Sandy Level Church prospect	Au
14	Shemwell mine	Au
15-	Shingle Hollow Road prospect	Pb
16	Twitty, J. D. mine	Au
17	Wolverine mine	Au
18	Stanley County	
19	Barringer mine	Au
20-	Biles mine	Au
21	Cotton Patch mine	Au
22	Crawford (Ingram) mine	Au
23	Crowell mine	Au
24	Eudy mine	Au
	Fesperman mine	Au

1	Flint Springs mine	Au
2	Freehold mine	Au
3	Hathcock mine	Au
4	Hearne (Herne) mine	Au
5-	Henderson mine	Au
6	Kimball Hill mine	Au
7	Little Fritz (Culp) mine	Au
8	Lowder mine	Au
9	Mumford mine	Au
10-	Parker mine	Au
	Parker, Johnny mine	Au
11	Thompson mine	Au
12	Surry County	
13	Chatham, R. N. mine	Au
14	Moseley's Farm prospect	Au
15-	Swain County	
16	Calhoun prospect	Cu
17	Fontana mine	Cu
18	Hazel Creek (Adams, Everett) mine	Cu
19	Locust Gap prospect	Cu
20-	Oconaluftee River	Au, Pb
21	Silers Bald prospect	Cu
22	Westfeldt prospect	Cu, Zn
23		
24		

1	Union County	
2	Black mine	Au
3	Bonnie Belle (Washington) mine	Au
4	Brown Hill mine	Au
5-	Butterfield mine	Au
6	Crowell (Bright Light) mine	Au
7	Crump mine	Au
8	Devis mine	Au
9	Dulin mine	Au
10-	East Hill mine	Au
11	Folger Hill mine	Au
12	Ford mine	Au
13	Fox Hill (Fag Hill) mine	Au
14	Fulwood mine	Au
15-	Grand Union Gold mine	Au
16	Harkness mine	Au
17	Hemby mine	Au
18	Hemby, Thomas mine	Au
19	Howie (Colossus, Lawson) mine	Au
20-	Lemmonds (Lemons, Marion) mine	Au
21	Lewis mine	Au
22	Long mine	Au
23	McClarty mine	Au
24	McNeely mine	Au
	Moore mine	Au

1	Moore Hill mine	Au
2	Nesbitt mine	Au
3	New South mine	Au
4	Ore Hill mine	Au
5-	Penman mine	Au
6	Pewter mine	Au
7	Phifer (Phiffer, Price, Mint Hill)	
8	mine	Au
9	Phifer, Henry mine	Au
10-	Phifer, Sam mine	Au
11	Putnam (Stearns) mine	Au
12	Rogers, Grady mine	Au
13	Rogers, Wiley mine	Au
14	Secrest mine	Au
15-	Smart (Bonnie Doon) mine	Au
16	Stewart mine	Au
17	Strothers (Ruben Boswell) mine	Au
18	Wenona mine	Au
19	Wyatt (Wiatt, Vinson's Half Acre)	
20-	mine	Au
21	Vance County	
22	Hamme mine	W
23	Wake County	
24	Cary, prospect southeast of	Co

1	Warren County	
2	Alston mine	Au
3	Watauga County	
4	Beech Mountain mine	Pb, Ag
5-	Elk Knob mine	Cu
6	Grandfather Mountain mine, north	
7	side	Au
8	Hardin's mine	Au
9	Howard Creek placers	Au
10-	Miller mine	Cu
11	Wilkes County	
12	Bryan's Gap (Trap Hill) mine	Cu, Au
13	Flint Knob mine	Au, Pb
14	Mount Zion mine	Au
15-	Roaring River placer	Au
16	Yadkin County	
17	Dixom mine	Au
18	Gross mine	Au
19		
20-		
21		
22		
23		
24		

REFERENCES CITED

- 1
2 Ballard, T. J., and Clayton, A. B., Diamond drilling at Union copper
3 mine, Cabarrus and Rowan Counties, N. C.: U. S. Bur. Mines Rept.
4 Inv. 4364, 9 p., 1948.
- 5- Bannister, Cowan and Company, The resources of North Carolina: Its
6 natural wealth, condition and advantages, as existing in 1869,
7 presented to the capitalists and people of the central and
8 northern states: Wilmington, N.C., 116 p., 1869.
- 9 Beck, W. A., Exploration at the Cline mine, Cabarrus County, N. C.:
10- U. S. Bur. Mines Rept. Inv. 3873, 4 p., 1946.
- 11 Blake, W. P., and Jackson, C. T., Report upon the property of the
12 Valley River Gold Company, (Cherokee County, N. C.): Mining
13 Magazine, ser. 2, v. 1, no. 6, p. 461-466, 1860.
- 14 Boyd, C. R., Conrad Hill, North Carolina, gold and copper mines:
15- The Virginias, v. 3, p. 176, 1882.
- 16 Broadhurst, S. D., The mining industry in North Carolina from 1946
17 through 1953: North Carolina Dept. Conserv. and Dev., Div. Min.
18 Res., Econ. Paper 66, 99 p., 1955.
- 19 Brown, H. S., Geology of the Elk Knob copper deposit and vicinity,
20- Watauga County, N. C.: Southeastern Geology, v. 3, no. 4, p. 231-
21 249, 1962.
- 22 Bryant, Bruce, and Reed, J. C., Jr., Mineral resources of the
23 Grandfather Mountain window and vicinity, North Carolina: U. S.
24 Geol. Survey Circ. 521, 13 p., 1966.
- 25-

1 Bryson, H. J., The mining industry in North Carolina during 1927 and
2 1928; North Carolina Dept. Conserv. and Dev., Div. Min. Res.,
3 Econ. Paper 63, 155 p., 1930.

4 Bryson, H. J., Gold deposits in North Carolina: North Carolina Geol.
5- Survey Bull. 38, 162, p., 1936.

6 ~~Callahan~~

7
8
9 Cameron, J. D., Handbook of North Carolina: Raleigh, State Board
10- of Agriculture, 333 p., 1893.

11 Conley, J. F., Mineral Localities of North Carolina: North Carolina
12 Dept. Conserv. and Dev., Div. Min. Res., Inf. Circ. 16, 83 p.,
13 1958.

14 Conley, J. F., Geology of the Albemarle quadrangle, North Carolina:
15- North Carolina Dept. Conserv. and Dev., Div. Min. Res. Bull. 75,
16 26 p., 1962.

17 Conley, J. F., Geology and Mineral resources of Moore County, North
18 Carolina: North Carolina Dept. Conserv. and Dev., Div. Min.
19 Res., Bull. 76, 40 p., 1962 (a)

20- Crosby, W. O., Ore deposits of the eastern gold-belt of North Caro-
21 lina: American Inst. Mining Engineers Trans., v. 38, p. 849-856,
22 1907.

23 Dahners, L. A., Investigation of the Del Rio and Stackhouse barite
24 deposit, Cocke County, Tenn., and Madison County, N. C.: U. S.
25- Bur. Mines Rept. Inv. 4571, 26 p., 1949.

1 Drane, B. S., and Stuckey, J. L., The mineral industry in North
 2 Carolina from 1918-1923 (inclusive): North Carolina Geol. and
 3 Econ. Survey, Econ. Paper 55, 104 p., 1925. ~

4 Edmundson, R. S., Barite deposits of Virginia: Virginia Geol.
 5- Survey Bull. 53, 85 p., 1938.

6 Emmons, Ebenezer, Geological report of the Midland Counties of
 7 North Carolina: North Carolina Geol. Survey, 347 p., 1856.

8 Emmons, Ebenezer, Gold veins in the syenitic granite of the Salisbury
 9 and Greensboro belt, North Carolina: Mining Magazine, 2d ser.
 10- v. 2, p. 25-36, 1861.

11 Engineering and Mining Journal, 1887, v. 43, p. 444; 1890, v. 49,
 12 - p. 714; 1890, v. 50, p. 278; 1891, v. 52, p. 369, 513, 686;
 13 - 1892, v. 53, p. 530; 1895, v. 59, p. 422, 590; 1896, v. 61,
 14 p. 190, 287; 1896, v. 62, p. 326, 615; 1899, v. 67, p. 125;
 15- 1899, v. 68, p. 498; 1902, v. 74, p. 764.

insert
Espenshade
here →
 16 Espenshade, G. H., Geology of some copper deposits in North
 17 - Carolina, Virginia, and Alabama: U. S. Geol. Survey Bull. 1142-I,
 18 50 p., 1963.

19 Espenshade, G. H., Staatz, M. H., and Brown, E. A., Preliminary
 20- report, Redmond Lead-zinc mine, Haywood County, N. C.: U. S.
 21 Geol. Survey Open-File Rept., 7 p., 1947.

22 Genth, F. A., Contributions to mineralogy: Am. Jour. Sci., 2d ser.,
 23 v. 19, p. 15-23, 1855.

24 Genth, F. A., Contributions to mineralogy: Am. Jour. Sci., 2d ser.,
 25- v. 28, p. 246-255, 1859.

- 1 Genth, F. A., The minerals of North Carolina: U. S. Geol. Survey
2 Bull. 74, 119 p., 1891.
- 3 Genth, F. A., and Kerr, W. C., The minerals and mineral localities
4 of North Carolina: Geology of North Carolina, v. 2, chap. 1,
5- p. 1-122, 1881.
- 6 Graton, L. C., Reconnaissance of some gold and tin deposits of the
7 southern Appalachians: U. S. Geol. Survey Bull. 293, 134 p., 1906.
- 8 Hafer, Claude, Molybdenite in North Carolina: Mineralogist, v. 10,
9 no. 3, p. 83, 1942.
- 10- Hickman, R. C., Cline copper and tungsten mine, Cabarrus County,
11 N. C.: U. S. Bur. Mines Rept. Inv. 4203, 5 p., 1948.
- 12 Hunter, C. E., and Gildersleeve, Benjamin, Minerals and structure
13 materials of western North Carolina and north Georgia: Tennessee
14 Valley Authority, Rept. C, 94 p., 1946.
- 15- Julihn, C. E., and Moon, L. B., 1945, Summary of Bureau of Mines
16 exploration projects on deposits of raw material resources for
17 steel production: U. S. Bur. Mines Rept. Inv. 3801, 35 p.
- 18 Keith, Arthur, Cranberry, N. C. - Tenn.: U. S. Geol. Survey Geologic
19 Atlas of the United States, Folio 90, 9 p., 1903.
- 20- Keith, Arthur, Asheville, N. C. - Tenn.: U. S. Geol. Survey Geologic
21 Atlas of the United States, Folio 116, 10 p., 1904.
- 22 Keith, Arthur, and Sterrett, D. B., Tin resources of the Kings Moun-
23 tain district, N. C., and S. C.: U. S. Geol. Survey Bull. 660-D,
24 p. 123-146, 1918.
- 25-

insert
hidden →

- 1 Kendall, H. F., Some copper-zinc bearing pyrrhotite ore bodies in
2 Tennessee and North Carolina; in Southeast Mineral Symposium 1950:
3 Kentucky Geol. Survey Special Pub..1, p. 112-123, 1953.
- 4 Kerr, W. C., Report of the geological survey of North Carolina:
5- Raleigh, Josiah Turner, v. 1, 313 p., 1875.
- 6 Kerr, W. C., and Hanna, G. B., Ores of North Carolina: Geology of
7 North Carolina, v. 2, chap. 2, p. 123-359, 1888.
- 8 Kesler, T. L., The tin-spodumene belt of the Carolinas: U. S. Geol.
9 Survey Bull. 936-J, p. 245-269, 1942.
- 10- Kinkel, A. R., Jr., The Ore Knob massive sulfide copper deposit,
11 North Carolina: An example of recrystallized ore: Econ. Geology,
12 v. 57, p. 1116-1121, 1962.
- 13 Kinkel, A. R., Jr., The Ore Knob copper deposit, North Carolina, and
14 other massive sulfide deposits of the Appalachians: U. S. Geol.
15- Survey Prof. Paper 558, 58 p., 1967.
- 16 Kline, M. H., and Dosh, H. G., Investigation of the Scarlet copper
17 mine, Randolph County, N. C.: U. S. Bur. Mines Rept. Inv. 4492,
18 6 p., 1949.
- 19 Koschmann, A. H., Preliminary report on the Jones-Boy Scout and the
20- Moss-Dryden molybdenum prospects near Hollister, North Carolina:
21 U. S. Geol. Survey Open-File Rept. 687, 12 p., 1943.
- 22 Laney, F. B., Copper deposits of Swain County, in J. H. Pratt, The
23 mining industry in North Carolina during 1906: North Carolina
24 Geol. and Econ. Survey, Econ. Paper 14, p. 72-79, 1907.
- 25-

1 Laney, F. B., The Gold Hill mining district of North Carolina:

2 North Carolina Geol. and Econ. Survey Bull. 21, 137 p., 1910.

3 Laney, F. B., The geology and ore deposits of the Virgilina district
4 of Virginia and North Carolina: Virginia Geol. Survey Bull. 14,

5- 176 p.; North Carolina Geol. and Econ. Survey Bull. 26, 176 p.,
6 1917.

7 Lieber, O. M., Report on the survey of South Carolina: South
8 Carolina Geol. Survey Bull. 1, 133 p., 1858.

9 Lyon, E. W., The progress of gold mining in North Carolina: Eng.
10- and Mining Jour., v. 87, p. 293-297, 1909.

11 Mining Magazine, 1853 1st. ser. 1853, v. 1, no. 2, p. 174-175;

12 v. 1, no. 4, p. 522; v. 1, no. 6, p. 591, 593, 621; 1854, 1st.

13 ser., v. 2, no. 1, p. 70; v. 2, no. 2, p. 173, 198; v. 2, no. 3,

14 p. 307, 310, 317; v. 2, no. 6, p. 660; 1861, 2d ser., v. 2, no. 1,

15- p. 28, 29, 113-114.

16 Murdock, T. G., The mining industry in North Carolina from 1937 to

17 1945: North Carolina Dept. Conserv. and Development, Div. Min.

18 Res., Econ. Paper 65, 57 p., 1950.

19 Newberry, A. W., and others, Investigation of the Virgilina copper
20- district, Virginia and North Carolina: U. S. Bur. Mines Rept.

21 Inv. 4384, 12 p., 1948.

22 Nitze, H. A. C., Iron ores of North Carolina: North Carolina Geol.

23 Survey Bull. 1, 239 p., 1893,
24
25-

1 Nitze, H. B. C., and Hanna, G. B., Gold deposits of North Carolina:

2 North Carolina Geol. Survey Bull. 3, 200 p., 1896.

3 Nitze, H. B. C., and Wilkens, H. A. J., Gold mining in North

4 Carolina: North Carolina Geol. Survey Bull. 10, 164 p., 1897.

5- Oriel, S. S., Geology and mineral resources of the Hot Springs

6 Window, Madison County, North Carolina: North Carolina Dept.

7 Conserv. and Dev., Div. Min. Res. Bull. 60, 70 p., 1950.

8 Palache, Charles, Berman, Harry, and Frondel, Clifford, The system

9 of mineralogy of James Dwight Dana and Edward Salisbury Dana:

10- New York, John Wiley and Sons, 7th ed., v. 1, 834 p., 1944.

11 Pardee, J. T., and Park, C. F., Jr., Gold deposits of the southern

12 Piedmont: U. S. Geol. Survey Prof. Paper 213, 156 p., 1948.

insert
Parker

13 Partz, August, The Reed mines, N. C.: Mining Magazine, 1st ser.,

14 v. 3., p. 161-168, 1854.

15- Pogue, J. E., Jr., The Cid mining district of Davidson County, North

16 Carolina: North Carolina Geol. and Econ. Survey Bull. 22, 144 p.,

17 1910.

18 Pratt, J. H., The mining industry in North Carolina during 1900:

19 North Carolina Geol. Survey Econ. Paper 4, 36 p., 1901.

20- Pratt, J. H., The mining industry of North Carolina during 1901:

21 North Carolina Geol. Survey Econ. Paper 6, 102 p., 1902.

22 Pratt, J. H., The mining industry in North Carolina during 1903:

23 North Carolina Geol. Survey Econ. Paper 8, 74.p., 1904.

24

25-

1 Pratt, J. H., The mining industry in North Carolina during 1904:

2 North Carolina Geol. Survey Econ. Paper 9, 95 p., 1905.

3 Pratt, J. H., The mining industry in North Carolina during 1905:

4 North Carolina Geol. and Econ. Survey, Econ. Paper 11, 96 p., 1907.

5- Pratt, J. H., The mining industry in North Carolina during 1906:

6 North Carolina Geol. and Econ. Survey, Econ. Paper 14, 144 p., 1907.

7 Pratt, J. H., The mining industry in North Carolina during 1911 and

8 1912: North Carolina Geol. and Econ. Survey, Econ. Paper 34,

9 342 p., 1914.

10- Pratt, J. H., and Berry, H. M., The mining industry in North Carolina

11 during 1913-17, inclusive: North Carolina Geol. and Econ. Survey,

12 Econ. Paper 49, 170 p., 1919.

13 Pratt, J. H., and Sterrett, D. B., The tin deposits of the Carolinas:

14 North Carolina Geol. Survey Bull. 19, 64 p., 1904.

15- Reed, John C., Jr., Geology of the Linville Falls Quadrangle, North

16 Carolina: U. S. Geol. Survey Bull. 1161-B, 53 p., 1964.

17 Robertson, A. F., McIntosh, F. K., and Ballard, T. J., Boy Scout-

18 Jones and Moss-Richardson molybdenum deposits, Halifax County,

19 N. C.: U. S. Bur. Mines Rept. Inv. 4156, 9 p., 1947.

20- Ross, C. S., Origin of the copper deposits of the Ducktown type in the

21 southern Appalachian region: U. S. Geol. Survey Prof. Paper

22 179, 165 p., 1935.

23 Shepard, C. V., Report on the Sumner, Hipp, Fulwood, and Lemons mines

24 of North Carolina: Mining Mag., 1st ser., v. 1, no. 6, p. 591-597,

25- 1853.

- 1 Shotts, R. Q., and Cudworth, J. R., Some general characteristics of
2 the principal known sulfide deposits of the southern Appalachian
3 and Piedmont area: Alabama Acad. Sci. Jour. v. 25, p. 47-53, 1953.
- 4 Smith, C. O., Essay on the geology of western North Carolina:
5- Appendix D, in Kerr, N. C., Report of the Geological Survey of
6 North Carolina, V. 1: Raleigh, Josiah Turner, p. 98-120, 1875.
- 7 Stuckey, J. L., North Carolina: its geology and mineral resources:
8 North Carolina Dept. Conserv. and Development, 550 p., 1965.
- 9 Stuckey, J. L., and Conrad, S. G., Mineral industry of North Carolina
10- from 1954 through 1959: North Carolina Dept. Conserv. and Dev.,
11 Div. Min. Res. Econ. Paper 67, 29 p., 1961.
- 12 Stuckey, J. L., and Davis, H. T., Barite deposits in North Carolina:
13 Am. Inst. Mining Engineers Contribution 19, 9 p., 1933.
- 14 Sundelius, H. W., and Bell, Henry, III, An unusual radioactive, rare-
15- earth-bearing sulfide deposit in Cabarrus County, N.C.: South-
16 eastern Geology, v. 5, no. 4, p. 207-221, 1964.
- 17 Tennessee Valley Authority, Memorandum Report (unpublished), 1942.
- 18 Tennessee Valley Authority, Memorandum Report (unpublished), 1943.
- 19 Tuomey, Michael, Report on the geology of South Carolina: Columbia,
20- S. C., 293 p., 1848.
- 21 U. S. Geological Survey, Mineral Resources of the United States: pt. 1, p. 686,
22 1910; pt. 1, p. 883, 1911; p. 430, 1912; p. 45-46, 1917.
- 23 Weed, W. H., Types of copper deposits in the Southern United States:
24 Am. Inst. Min. Metall., Trans., v. 30, p. 498-504, 1900.
- 25-

1 Weed, W. H., Copper deposits of the Appalachian States: U. S. Geol.
2 Survey Bull. 455, 166 p., 1911.

3 White, W. A., Tungsten deposit near Townsville, North Carolina:
4 North Carolina Dept. Conserv. and Dev., Div. Min. Res. Mineral
5- Investigation 1, 9 p., 1943.

6 _____, Tungsten deposit near Townsville, North Carolina: Am.
7 Mineralogist, v. 30, p. 97-110, 1945.

8 Wurtz, Henry, Occurrence of cobalt and nickel in Gaston County,
9 North Carolina: Am. Jour. Sci., 2d ser., v. 27, p. 24-31, 1859.

10-
11 to be inserted in preceding pages:

12 Espenshade, G. H., Tungsten deposits of Vance County, North Carolina
13 and Mecklenburg County, Virginia: U. S. Geol. Survey Bull. 948-A,
14 p. 1-77, 1947.

15- Hidden, W. E., Addendum to the minerals and mineral localities of
16 North Carolina: Elisha Mitchell Sci. Soc. Jour., v. 6, p. 45-78,
17 1890.

18 Parker, J. M., 3d, Geologic setting of the Hamme tungsten district,
19 North Carolina and Virginia: U. S. Geol. Survey Bull. 1122-G,
20- p. G1-G69, 1963.