PEND OREILLE COUNTY

**O. K. (2)**
(see under silver)

**Pend Oreille Mines & Metals Co. (1)**
(see under zinc)

STEvens COUNTY

**Advance (2)**
(see under zinc)

**Black Rock (3)**
(see under zinc)

**Farmer (4)**
(see under zinc)

**Lucile (1)**
(see under zinc)

**New England (5)**
(see under zinc)

**Old Dominion (6)**
(see under silver)

**GERMANIUM**

Properties—Germanium is a rare metal allied to tin. It is grayish white, lustrous, crystalline, light in weight, hard, and brittle. It is a semiconductor of electricity, a property which is utilized in the manufacture of electronic devices. Germanium expands upon solidification. It amalgamates with mercury and is known to form alloys with aluminum, copper, silver, magnesium, and some other metals. It is resistant to corrosion and is stable in air at temperatures up to 600° C. It has valences of 2 and 4 and forms two corresponding series of compounds. Other properties are shown in the table on page 12.

Uses—Germanium had very few uses for many years, having only minor use in medicine and as magnesium germanate for a phosphor in fluorescent lights. It has been used as a catalyst in the hydrogenation of coal, and as a substitute for silica in making a highly refractive optical glass. It has been used also in making a new type of photoelectric cell. In 1950 the principal use was in the metallic form in diode rectifiers for high-frequency electrical currents in radar and television circuits. Probably the greatest potential use for germanium, and certainly the use in which the greatest interest was being shown in 1952, is in transistors, the three-element electronic devices which act like triode radio tubes for amplifiers. The transistors have advantages over radio tubes in being much smaller, lighter in weight, and longer lived, and in requiring no filament current.

Production—Commercial production of germanium began in this country about in 1941. In 1950 the principal production was of a byproduct of zinc refining at Joplin, Missouri, but small production was coming from at least two other plants in Pennsylvania and New York. Production was at the rate of 1,000 pounds per year in 1948 but had increased to 6,000 pounds in 1951 and was expanding rapidly. Germanium is recovered from flue dusts in England. Zinc concentrates from the Metaline district in Washington are germaniferous, hence have been shipped to Mississippi Valley smelters, where the germanium is recoverable in horizontal-retort smelters.

Prices—Germanium metal was quoted in 1936 at $5.50 per gram, and in 1940 at $4,500 per pound, but by 1946 it had dropped to $180 per pound. The price then rose until it reached $340 per pound in 1952. In June 1955 the price was $295 per pound.

Ore minerals—Germanium occurs in amounts up to 10 percent in germanite, $Cu_2(Ge,Ga,Fe,Zn)(As,S)_4$. Renierite, similar to germanite except that it contains tin, carries from 6 to 8 percent germanium. Argyrodrite, $4Ag_SGeS_2$, contains about 7 percent germanium but is very rare, as are all germanium minerals.

Geology—Germanium is widely distributed in nature as a very minor constituent in many common minerals, but rarely is it naturally concentrated enough to be recoverable. It is found in some coals to the extent of about 0.001 percent, and flue dusts from the burning of such coals contain up to 9 percent germanium. The metal is found in some zinc ores, and in the Tri-State district it occurs in amounts from 0.01 to 0.1 percent. It is found in like amounts in some ores of silver, tin, copper, and iron.

**OccURRENCES**

The map showing the numbered germanium occurrences is plate 3, on page 11 in volume 2.

PEND OREILLE COUNTY

**Pend Oreille Mines & Metals Co. (1)**
(see under zinc)

STEvens COUNTY

**Advance (1)**
(see under zinc)

**Black Rock (2)**
(see under zinc)

**Farmer (3)**
(see under zinc)

**New England (4)**
(see under zinc)

**GOLD**

Properties—Gold is bright yellow when pure, but the color intensity varies to lighter or darker with the amount of silver or copper present. Gold powder produced by precipitation or volatilization is violet, purple, or ruby colored. Gold is very heavy and soft and is the most ductile and malleable of metals. It is a good conductor of heat and electricity, its electrical conductivity being exceeded only by silver and copper. The element is not
Lode Gold Occurrences—Benton County

attacked by air or oxygen and is extremely inactive. It is insoluble in all acids except aqua regia and selenic acid. It is bivalent and tetravalent but combines with only a few other elements to form compounds. Other properties are shown in the table on page 12.

Uses—Gold has little use other than monetary and decorative. Since earliest historical time gold has been used for currency or as a monetary standard, and at the present time these are the principal uses of the metal. In the arts it is used in the manufacture of jewelry, watches, and gold foil for lettering and decorative purposes. Lesser amounts are used in dental work and in the electrical and chemical industries, and small quantities are used in medicine and photography. Most of the industrial uses stem largely from its resistance to corrosion and its excellent ductility and malleability, but because of its extreme softness as the pure metal, it is often alloyed with silver or copper.

Production—Gold production forms an important part of the total mineral output of the state of Washington. Every year prior to 1916 gold outpaced in value all other metals produced, and it has ranked first in many of the years since that date, but in 1952 gold accounted for only 13 percent of the value of metallic production in the state. In general, gold mining has fared relatively well during economic recessions and has been at a disadvantage during periods of general prosperity and high prices. Although placer gold was reported along the Yakima River as early as 1853, and small production was reported from near Colville as early as 1855, the first notable production dates from 1859, and this is from the Similkameen River, in what is now Okanogan County. Lode gold mining began in this area, near the base of Mount Chopaka, in about 1871. The Blewett district was an early producer of both placer and lode gold, and by the end of the nineteenth century most of the presently known gold properties in the state had been prospected. The total gold production of the state from 1860 through 1952 has been 2,570,002 ounces, valued at $86,705,393, which ranks Washington eleventh among the states as a gold producer. The greatest production in any single year since 1900 was 92,117 ounces, valued at $3,224,095, in 1950. In that year 97 percent of the Washington gold production came from three mines: the Holden, Gold King, and Knob Hill, which ranked in production twelfth, fourteenth, and eighteenth, respectively, among the gold mines in the United States. Prior to 1900 most of the gold produced in the state was from placers, but since that time less than 3 percent of the production has been from placers. Twenty-seven counties have reported placer production.

Prices—The value of gold has generally increased for more than 2,000 years. The price was a little over $20 per fine troy ounce for more than 200 years until January 1934, when the President set the United States Mint price at $35 per ounce, at which figure it has remained. Since that date, gold which has been smelted, retorted, or cyanided may be sold only to the U.S. Mint, either directly or through a licensed gold buyer. However, gold in its "natural state"—native gold and unretorted amalgam—may be legally sold on the domestic market. In the past few years gold has been quoted at from $35 to more than $50 per ounce on the free market in various countries.

Ore minerals—Gold occurs most commonly as the native metal, which usually is alloyed with varying amounts of silver, generally 10 to 20 percent. Native gold may occur as irregular masses, ranging in size from nuggets weighing several ounces, or even pounds, down to submicroscopic particles. Also, and more rarely, it occurs as well-formed crystals, as in some of the lode deposits in the Swauk district in Kittitas County. Less commonly, gold occurs as one of the tellurides: calaverite, AuTe2, sylvanite, (Au,Ag)Te2, or petzite, (Au,Ag)Te, containing 43.5, 35.1, and 53.4 percent gold, respectively. Other gold minerals are very rare. In most ores the gold is so finely disseminated as to be invisible to the naked eye.

Geology—Gold occurs in minute quantities in almost all rocks, and sea water has been variously reported to contain from 0.2 to 65 milligrams of gold per metric ton. It occurs in recoverable quantities in most ores of silver, copper, bismuth, and antimony and in many ores of lead and zinc, as well as in many deposits where gold is the only value. It occurs in deposits of various origins but most commonly in quartz veins and usually closely associated with granite or volcanic rocks of acidic or intermediate composition. Pyrite is the most common associated metallic mineral, and quartz is the most common gangue mineral, but carbonates, fluor spar, tourmaline, barite, and other nonmetallic minerals are not uncommon as gangue. The high specific gravity and resistance to weathering of gold account for the fact that it concentrates in placer deposits, where it commonly is found associated with magnetite, limonite, chromite, monazite, rutile, zircon, garnet, and other heavy minerals. Both stream and beach placers are found in Washington.

Occurrences

The maps showing the numbered lode gold occurrences are plates 8 and 9, on pages 25 and 27 in volume 2.

GOLD, LODE

in Ag. One assay showed $13.00 Au. (1934). Ref: 104, 6/30/36, p. 24. 158.

BENTON COUNTY

Prosser (1)


CHELAN COUNTY

Allen Magnesium (60)

Alta Vista (Pole Pick No. 2) (83)

Loc: SW½ sec. 2, (22-17E), on S. side of Culver Gulch.

Amigo (123)


Apex


Apple Queen (84)


April Fool (85)


Arizona (32)

(see under copper)

Belcher (13)

(see under lead)

Big Chief

(see under lead)

Big Elephant


Black Jack (Blewett, La Rika) (87)

(see also Gold Bond)

Loc: SW¼ sec. 1, (22-17E), near Peshastin Cr., Blewett dist.

Black Warrior (1)

(see under copper)

Black and White (Diamond Dick) (86)


Blewett (88)

(see also Black Jack, Peshastin, Gold Bond)


Blind Lead


Blinn (124)

(see also Gold Bond)


Blue Bell (I. X. L.) (89)


Blue Jay (33)

(see under copper)

Blue Jay Extension (34)

(see under copper)

Bobtail (Wye) (90)


Bonanza and Deadwood (79)


Bryan (52)

(see under copper)
Budge (136)

Buster (25)

Butte (65)

Butte (see under copper)

Byron (91)

Caledonia (92)

Canada (25)
(see under copper)

Cascade (36)

Cascade Consolidated (2)
(see under silver)

Champion (58)

Charlotte (138)

Chub (37)
(see under silver)

Cinnabar King

Clagstone (2)
(see under lead)

Cook (66)

Cook-Galbraith (73)

Copper King (Pickwick)
(see Pickwick under copper)

Copper King (Robischaud)
(see Robischaud under molybdenum)

Crown Prince and Free Coinage
(see under copper)

Culver (93)

Daisy Dean (125)

Davenport (4)
(see under copper)

Deadwood
(see Bonanza and Deadwood)

Diamond Dick
(see Black and White)

Dominion
(see Union and Dominion)

Donahue
(May be same as North Star)

Donaldson (94)

Doubtful (5)
(see under lead)

Drummer Boy (57)

Eagle and Iowa (126)
Loc: NE¼ sec. 3, (22-17E), on N. side of Nigger Cr. Access: Road. Prop: 2 claims. Owner: Henry Blinn, Leavenworth,
Gold Bond
(see also Black Jack, Blinn, Olympia, Phipps, Pole Fick, Wilder, Blewett, La Roca)

Gold King
(see Golden King)

Gold Knob (137)

Golden Chariot
(see Eureka)

Golden Cherry
(see Eureka)

Golden Eagle (Lucky King) (98)

Golden Guinea (Francis L.) (127)
Loc: NE¼ sec. 5, (22-17E), on N. and S. banks of Nigger Cr. about 2 mi above its mouth. Access: Road Nigger Cr. Prop: 8 claims; Golden Guinea, Golden Guinea No. 1 East, No. 1 South, No. 2 South, Brown, Lillian, Copper Queen. Owner: R. F. Brown and F. W. Losecamp, Leavenworth, Wash. (1911). Ore: Gold, silver. Deposit: A 10- to 50-ft. iron-stained belt in the Hawkins formation contains discontinuous stringers of rusty broken quartz in a zone about 2 ft. wide. Dev: 2 adits totaling 288 ft., 43-ft. shaft, and numerous other short adits and open cuts. Assays: Several assays ran less than $1 Au, but higher returns are claimed to have been obtained. Ref: 67, p. 16, 161, p. 97.

Golden King (Wenatchee, Squilchuck, Gold King) (139)
Pyrite. **Gangue**: Quartz, calcite, siderite. **Deposit**: Quartz gash veins in a 200- to 800-ft.-wide silicified zone in sandstone of the Swauk formation. **Dev**: A quarry, 2 main adits, and a level from a 500-ft. inclined shaft, total about 2 mi. of workings.


**Golden Wedge (99)**


**Gordon (128)**

**Loc**: Sec. 9, (22-17E), on Bear Cr. **Ore**: Gold, nickel, silver. **Dev**: 55-ft. adit. **Ref**: 63, pp. 73-78. 67, p. 16.

**Grace (40)**

(see under copper)

**Grand View**

(see under copper)

**Gray Eagle**

(see under silver)

**Great Republic**

(see under lead)

**Hawk’s Nest (62)**


**Hazel (100)**

**Loc**: Sec. 1, (22-17E), Blewett dist. **Owner**: Blewett Pass Mining Co. (1934). **Ore**: Gold. **Ref**: 67, p. 16. 158.

**Hidden Treasure (56A)**


**Holden (31)**

(see under copper)

**Homestake (101)**

**Loc**: Sec. 1, (22-17E), on W. side of Peshastin Cr. near mouth of Culver Springs Gulch, Blewett dist. **Prop**: 1 claim. **Owner**: John Olden, Blewett, Wash. (1911). **Ore**: Gold, silver. **Deposit**: Quartz vein in serpentine. **Dev**: 185-ft. adit. **Assays**: General sample from mouth to face of adit assayed 0.04 oz. Au, 0.2 oz. Ag. **Prod**: Unknown amount. **Ref**: 67, p. 16. 161, p. 100.

**Homestake and Star (18)**

(see under silver)

**Horseshoe Basin (8)**

(see under lead)

**Howe Sound**

(see Holden under copper)

**Humbug**

(see under lead)

**Humingbird (102)**


**Hunter (41)**

(see under silver)

**I. X. L.**

(see Blue Bell)

**Idaho (42)**

(see under copper)

**Iowa**

(see Eagle and Iowa)

**Iowa (43)**


**Irene**

(see Holden under copper)

**Isoletta (19)**

(see under silver)

**Ivanhoe**

(see Wilder)

**Johnson (103)**


**Jumbo (67)**


**Keefor Brothers**

(see under molybdenum)

**King Solomon (27)**

(see under copper)

**King Solomon (Pickwick)**

(see Pickwick under copper)

**King Solomon (Van Epps)**

(see Van Epps under antimony)

**Kingman**

(see Galena under lead)
Kingman and Pershall (68)


Lake and Flora


Lake Shyall (25)

(see under copper)

La Rica (104)

(see also Black Jack, Peshastin, Gold Bond)


Last Chance


Last Chance (77)


Leo

(see under copper)

Little Jap (50)

(see under silver)

Logan (18)

(see under lead)

Lone Rock (105)


Lucky King

(see Golden Eagle)

Lucky Queen (106)


Lulu


Manisteec (107)


Marcus Stein (49)

(see under silver)

Marion


Marlin (14)

(see under copper)

Maryland

(see under lead)

Meadow Creek Strike (44)

(see under copper)

Meridian (129)

Loc: Sec. 4, (22-17E), on S. side of Nigger Cr. Ore: Gold, silver, copper, nickel. Deposit: Quartz vein cutting serpentine. Assays: $10.50 Au, $3 Ag, $2.50 Cu, 2% Ni. Ref: 63, p. 76. 67, p. 17.

Michigan

(see under lead)

Minneapolis (21)


Monarch (80)


Moscow (28)

(see under copper)

Mother Lode (63)


Nebraska (29)

(see under copper)

Nelson

(see Pickwick under copper)

Nevada and Excelsior


New York (31)


Nickel Plate

North Pole (130)

North Star (108)

Ohio (see under lead)

Olden (Eastern Star) (109)

Olympia (110)
(see also Gold Bond)

Ombombo (15)

Ontario (131)

Orphan Boy (45)
(see under silver)

P. I. (59)

P. P. Nickel (132)

Palmer (64)

Panama No. 2 (9)
(see under lead)

Pangborn (69)

Pershall
(see Kingman and Pershall)

Peshastin (Blewett, La Rica) (111)
(see also Blewett, La Rica, Gold Bond)

Phipps (112)
(see also Gold Bond)

Phoenix (113)

Phyllis (46)
(see under copper)

Pickwick

Pickwick (76)
(see under copper)

Pole Pick (114)
(see also Gold Bond)
2 crosstabs with raises, drifts, and stopes total about 2,000 ft. of length. **Assays:** Ore extracted before 1901 is said to avg. $10 to $125 Au. Ore mined 1942-1947 av. $55.82 Au. **Prod:** Est. production by 1901 was 8,000 tons of ore valued at $70,000. 1937, 1941, 1942 (291 tons), 1946 (59 tons), 1947 (81 tons), 1948 (19 tons), 1949 (20 tons), 1950 (20 tons), 1951 (20 tons). **Ref:** 13, p. 137. 63, p. 73. 67, p. 13. 68, p. 6. 85, p. 59. 97, 1935, p. 352. 133, p. 31. 143, p. 79. 144, p. 9. 158. 161, p. 92.

**Pole Pick No. 2**
(see Alta Vista)

**Prairie Dog**

**Loc:** Entiat dist. **Ore:** Gold, silver. **Prod:** Unknown amount in 1910. **Ref:** 67, p. 25.

**Prospect (115)**

**Loc:** SW¼ sec. 2, (22-17E), on N. slope of ridge leading down to Culver Springs Gulch, Blewett dist. **Prod:** 5 claims: Sunset, Sunset Extension, Redjacket, Katy, Lone Star. **Owner:** Prospect Mining & Milling Co. (1911). **Ore:** Gold, silver. **Gangue:** Quartz, calcite, talc. **Deposit:** Oxidized vein in serpentine. **Dev:** Small openings on all of the claims. **Prod:** Ore was treated in an arrastre in "early days." **Ref:** 67, p. 13. 161, pp. 99-100.

**Quien Sabe (10)**
(see under lead)

**Rainbow Nos. 2 and 3 (116)**

**Loc:** Sec. 2, (17-22E), Blewett dist. **Owner:** Blewett Pass Mining Co. (1934). **Ore:** Gold. **Ref:** 67, p. 18. 158.

**Rainier (133)**

**Loc:** Secs. 3 and 4, (22-17E), on Nigger Cr. **Access:** Road. **Prod:** 13 claims. **Owner:** Negro Creek Nickel & Copper Mining Co. (1897). **Ore:** Gold, silver, copper, nickel. **Deposit:** Quartz veins and "nickel ledges." **Dev:** Several adits. **Assays:** $5.20 to $8.20 Au, 2½% to 3½% Ni. **Ref:** 62, p. 75. 67, p. 18. 105, 1895, p. 415.

**Ray**
(see Roy and Ray)

**Raymond (50)**
(see under silver)

**Red Butte (82)**

**Loc:** Sec. 36, (23-17E), on E. side of Peshtasin Cr. **Prod:** 3 claims. **Ore:** Gold, nickel, cobalt. **Deposit:** "Nickel ledge." **Dev:** An adit. **Ref:** 63, p. 76. 67, p. 18.

**Red Cap (53)**

**Loc:** Sec. 9, (30-16E), on Phelps Ridge, Chiwawa dist. **Prod:** 20 claims. Probably part of the property held by the Royal Development Co. (1941). **Owner:** Uni Mining & Milling Co., Seattle, Wash. (1887). **Ore:** Gold, silver, copper. **Ore min:** Chalcopyrite, pyrite, arsenopyrite. **Dev:** 52-ft. crosscut. **Assays:** $3.50 to $72 Au. **Ref:** 63, p. 78. 67, p. 23.

**Red Cloud and Trallee**
(see under copper)

**Red Hill (54)**

**Loc:** Sec. 15, (30-16E), on Phelps Ridge, Chiwawa dist. **Prod:** 10 claims. Probably part of the property held by the Royal Development Co. (1941). **Owner:** Red Hill Mining Co. (1897). **Ore:** Gold, silver, copper. **Ore min:** Copper and iron sulfides, arsenopyrite. **Dev:** 2 short adits. **Assays:** $2.50 to $29 Au. Ag. **Ref:** 63, p. 78. 67, p. 23.

**Red Mountain (55)**
(see under copper)

**Rex (Rogers) (71)**

**Loc:** N½ sec. 36, (26-20E), in Crum Canyon, tributary to Entiat R. **Access:** 12 mi. by road to railroad at Entiat. **Prod:** 80 acres. **Owner:** State land leased to Bert Rogers, Entiat, Wash. (1943). **Ore:** Wenaschee Gold Mining Co. (1906-1922). **Ore min:** Gold, silver. **Deposit:** 2 oxidized quartz veins 3 to 12 in. wide in decomposed gneiss. **Dev:** 3 adits totaling about 500 ft. of length. **Improv:** A 2-stamp mill (1938). **Assays:** Most of the ore milled av. about 1 oz. Au. **Prod:** More than $170,000 by 1930. Small amounts in 1933, 1934, and 1940. **Ref:** 43, p. 3, p. 592. 67, p. 25. 97, 1907-1908, 1911-1915, 1917, 1934, 1935, 1940. 98, 1920-1925. 104, 6/15/32, p. 27. 105, 1906, p. 115. 106, 5/19/32. 112, p. 211. 158.

**Robischea (56)**
(see under molybdenum)

**Rogers**
(see Rex)

**Roscoe Conkling**
(see under lead)

**Rouse (11)**
(see under lead)

**Roy and Ray (117)**

**Loc:** Sec. 2, (22-17E), Blewett dist. **Owner:** Blewett Pass Mining Co. (1934). **Ore:** Gold. **Ref:** 67, p. 18. 158.

**Royal**
(see Red Mountain under copper)

**Safety Harbor Creek**
(see Robischea under molybdenum)

**Sailor Boy**

**Loc:** Bridge Cr. area, Stachein dist. **Owner:** Gilkey & Co. (1897). **Ore:** Gold, silver. **Assays:** $25 Au, 18 oz. Ag. **Ref:** 63, p. 84. 67, p. 43.

**Sandell (118)**

**Loc:** SE¼ sec. 2, (22-17E), in Culver Gulch, Blewett dist. **Elev:** 2,660 ft. **Prod:** 1 claim, part of Washington Meteor holdings. **Owner:** Washington Meteor Mining Co. (1908-1911). Blewett Mine Leasing Co. (1910). **Ore:** Gold. **Ore min:** Free gold, arsenopyrite, pyrite. **Gangue:** Quartz, calcite, talc. **Deposit:** Quartz-calcite vein cutting serpentine. 1 ore shoot mined av. 2 to 6 ft. thick. **Dev:** 300 ft. of crosscut and a large amount of drifting on the vein. **Prod:** Amount not known. **Ref:** 67, p. 13. 129, p. 274. 161, pp. 84-89.

**Savage**

**Loc:** T. 26 N., R. 20 E., 10 mi. up Entiat R. from town of Entiat. **Prod:** 4 claims, and State land held under 30-yr. lease. **Owner:** G. S. Savage, Entiat, Wash. (1918). **Ore:** Gold, silver. **Ore min:** Free gold. **Dev:** 100-ft. shaft, short adits. **Ref:** 67, p. 26.

**Silver Fiend (75)**
(see under lead)

**Silver Jack (22)**
(see under lead)

**Silver King (47)**
(see under copper)

**Silver Trail (48)**
(see under copper)

**Snook and Ellen**
(see Van Epps under antimony)
Snowflake


Spokane Boy and Girl (12)

(see under copper)

Squillchuck

(see Golden King)

Star

(see Homestake and Star under silver)

Stehekin Mining Co.

(see under copper)

Summit (17)

(see under lead)

Sunday Morning (31)

(see under silver)

Sunset (122)


Sunset (72)


Sunrise (70)


Tiger

(see Galena under lead)

Tiger (24)


Tip Top (119)


Tommy Jack (23)


Trawee (see Red Cloud and Trawee under copper)

Union and Dominion (134)


Van Epps (Snook and Ellen) (74)

(see under antimony)

Van Epps Copper

(see Pickett under copper)

Velma (78)

(see under mercury)

Venus (120)


War Eagle (135)


Warrior General


Well Known


Wenatchee

(see Golden King)

White Elephant

(see Wilder)

White Star

(see under lead)

Wilder, (Ivanhoe, White Elephant) (121)

(see also Gold Bond)


Wright


Wye

(see Bobtail)

Yankee Doodle

CLALLAM COUNTY

Angeles Star (1)
(see under zinc)

Deer Park
(see under copper)

Gregory-Savage
(see Angeles Star under zinc)

Port Angeles (2)

Winter
(see Angeles Star under zinc)

CLARK COUNTY

Golden Wonder (1)
(see under mercury)

Silver Star (2)
(see under copper)

Washington

COLUMBIA COUNTY

Hoffeditz (1)

COWLITZ COUNTY

Green Mountain (1)

FERRY COUNTY

Ada
(see Laura S. under lead)

Addison (153)
(see under copper)

Admiral (43)

Advance (50)
(see also Consolidated Mines and Smelting Co., Ltd., under copper)

Advance (Cabin) (86)
(see under silver)

Algonkian (74)
(see under silver)

Alpine (20)

Anchor
(see under silver)

Anealia (21)

Apollo
(see California)

Aurum
(see Day Mines)

Belcher (14)
(see under iron)

Belcher (154)
(see under copper)

Ben Hur (22)
(see also Day Mines)

Big Bug (87)
(see under silver)

Big Lake (68)
(see under lead)

Black Hawk (88)
(see under lead)

Black Tail (Hope) (23)
(see also Day Mines)
Black Thorn (111)
(see under lead)

Blaine Republic
(see Republic)

Blevins
(see Meadow Creek under copper)

Blue Bell-Belcher
(see Belcher under iron)

Blue Horse (63)
(see under silver)

Blue Jacket (64)
(see under silver)

Blue Mountain
(see Jennie)

Bodie (24)

Boston and Butte
(see Butte and Boston)

Brimstone
(see Paul and Brimstone)

Buffalo (139)
(see under silver)

Burlington and Delaware (143)
(see under lead)

Butte and Boston (Boston and Butte) (51)

Clay (145)
(see under copper)

Colorado (91)
(see under lead)

Congress (141)
(see under nickel)

Consolidated Mines and Smelting Co., Ltd.
(see under copper)

Cook (53)

Copper Key (12)
(see under copper)

Cougarr (158)
(see under copper)

Cuba
(see Big Lake under lead)

Cyprus

Dan Patch (72)
(see under silver)

Danville

Day Mines (Aurum)
(see also Surprise, Little Cove, Last Chance, San Poil, Ben Hur, Insurgent, Lone Pine, Tom Thumb, Trade Dollar, Black Tail, Pearl, Quill, South Penn)

Delaware
(see Burlington and Delaware under lead)

Dixie Queen (112)

Drummond (92)
(see under lead)

East San Poil (25)
El Caliph (26)

Emma
(see Standard and Emma)

Etta (110)
(see under lead)

Eureka
(see Quilp)

Faithful Surprise
(see Morning Star)

Five Hundred (127)
(see under silver)

Flag Hill (54)

Galena (69)
(see under silver)

Gold Cord
(see Byrne under silver)

Gold Dust
(see under silver)

Gold Twenty (78)

Golden Chariot (148)

Golden Eagle (44)

Golden Harvest (62)

Golden Rule (149)

Golden Valley
(see Valley)

Good Ore (105)
(see under silver)

Grandview (126)
(see under lead)

Gray (155)
(see under silver)

Greasy Run (129)
(see under lead)

Great Republic

Great Scott (73)
(see under lead)

Gwin (70)
(see under silver)

Hall Creek
(see Gwin under silver)

Hawkeye (13)

High Line

Hines (140)
(see under lead)

Hope
(see Black Tail)

I. X. L. (130)
(see under lead)

Iconoclast (160)
(see under copper)

Ida May (27)

Idora (128)
(see under lead)

Illinois (161)
(see under copper)
Imperator
(see Quillp)

Insurgent (45)
(see also Day Mines)


Iron Creek
(see Shamrock under nickel)

Iron Mask (28)


Iron Monitor (55)


Iron Mountain (65)
(see under silver)

Jaybird (80)
(see under lead)

Jennie (Blue Mountain, Patterson) (6)


Jim Blaine Fraction (56)


Juliet (113)
(see under lead)

Juno (66)
(see under silver)

Kangaroo (29)


Kentucky Bell (93)
(see under lead)

Keystone (114)
(see under silver)

King Richard
(see Meadow Creek under copper)

King Solomon (131)
(see under lead)

Kleinger

Knob Hill (30)
(see also Mountain Lion, Rebate)


La Fleur
(see Walla Walla under copper)

Lakeview Fraction (94)
(see under lead)

Lame Foot (Valley)
(see Valley)

Lamefoot
(see under iron)

Lancaster (7)
(see under copper)

Last Chance (159)
(see under copper)

Last Chance (45)
(see also Day Mines)


La Fleur
(see Walla Walla under copper)

Lakeview Fraction (94)
(see under lead)

Lame Foot (Valley)
(see Valley)

Lamefoot
(see under iron)

Lancaster (7)
(see under copper)

Last Chance (159)
(see under copper)

Last Chance (45)
(see also Day Mines)

Laura S. (125)
(see under lead)

Little Cove (31)
(see also Day Mines)

Little Jay (95)
(see under lead)

Little Tom
(see Juliet under lead)

Lone Pine (32)
(see also Day Mines)

Lone Star and Washington (1)
(see under copper)

Longstreet (96)
(see under silver)

Lucile Dreyfus
(see Morning Star)

Mammoth (47)

Manilla (157)
(see under copper)

Mayflower (132)
(see under lead)

Meadow Creek (146)
(see under copper)

Meteor (115)
(see under silver)

Midnight
(see under silver)

Mineral Hill
(see Morning Star)

Montana (116)
(see under silver)

Morning

Morning Glory (Old Gold) (33)

Morning Star (Lucile Dreyfus, Faithful Surprise, Mineral Hill, Virginia) (3)
(see also Surprise)

Mount Tolman (150)
(see under copper)

Mountain Boy

Mountain Lion (34)
(see also Knob Hill)
Lode Gold Occurrences—Ferry County

9/15/22. 113, 10/15/36, p. 11. 133, p. 36. 153, pp. 63-64. 158. 159, p. 130.

Muldoon

New York (117)
(see under lead)

North San Poil Fraction (35)

Northern Light (81)
(see under silver)

Number Seven
(see under silver)

Old Gold
(see Morning Glory)

Old Hickory (57)

Old Neil (97)
(see under antimony)

Ophir (151)
(see under lead)

Oregon
(see Illinois under copper)

Orion (82)
(see under silver)

Oversight (15)
(see under iron)

Pacific Mutual
(see Addison under copper)

Panama (8)

Patterson
(see Jennie)

Paul and Brimstone

Pearl (36)
(see also Day Mines)

Perry (98)

Pilgrim (133)
(see under lead)

Pin Money (16)
(see also Oversight under iron)

Plymouth Rock (134)
(see under lead)

Polaris (99)
(see under lead)

Princess Maude (Southern Republic) (53)

Quilp (Imperator, Eureka) (48)
(see also Day Mines)

Railroad (5)
(see under copper)
Rattler (75)  
(see under silver)

Rattlesnake (83)  
(see under lead)

Rebate (18)  
(see also Knob Hill)


Red Chief (118)  
(see under lead)

Reliance (100)  
(see under silver)

Relief (104)


Ren Rice (76)  
(see under lead)

Republic (Blaine Republic) (59)


Reserve (107)  
(see under silver)

Robert E. Lee (101)  
(see under antimony)

Romulus (119)  
(see under lead)

Rosario (84)  
(see under lead)


Rover Bonanza (152)  
(see under silver)

Royal Ann (102)  
(see under lead)

Ruby (109)


St. Patrick (120)  
(see under lead)

St. Paul (77)  
(see under silver)

San Foil (37)  
(see also Day Mines)


San Foil Fraction (38)


San Foil Monitor (see Meadow Creek under copper)

Santa Claus (108)


Several (121)  
(see under lead)

Shamrock (144)  
(see under nickel)

Shonee (see under copper)

Silver Bell (85)  
(see under lead)

Silver Crown (see under silver)

Silver Crown No. 2 (135)  
(see under silver)

Silver Crown No. 3 (136)  
(see under lead)

Silver Hill (156)  
(see under copper)

Silver Pick (see under silver)

Silver Spar (122)

granodiorite composed mainly of coarse calcite. Sparse disseminations of pyrite and finely divided unidentified sulfide. Dev: 15-ft. shaft and several pits distributed along a length of 200 ft. Ref: 122, p. 159.

Silver Tip (67)  
(see under silver)

Snowstorm (40)  

Snowstorm (White Swan) (123)  
(see under lead)

South Penn (19)  
(see also Day Mines)


Southern Republic  
(see Princess Maude)

Standard and Emma (60)  

Stray Dog (124)  
(see under silver)

Sunset (157)  
(see under lead)

Surprise (4)  
(see also Morning Star)


Surprise (41)  
(see also Day Mines)


Syracuse (138)  
(see under silver)

Tom Thumb (17)  
(see also Day Mines)


Trade Dollar (42)  

Truax (106)  

U. S. (142)  
(see under lead)

Umatilla (162)  
(see under copper)

V Fraction (49)  

Valley (Golden Valley, Lane Foot) (10)  

Veda W.  
(see under silver)

Victor (71)  
(see under silver)

Virginia  
(see Morning Star)

Walla Walla (163)  
(see under copper)

Walla Walla (La Fleur) (2)  
(see under copper)
Washington
(see Lone Star and Washington under copper)

White Horse
(see under silver)

White Swan
(see Snowstorm under lead)

White Tail (103)
(see under lead)

Willmot
(see under copper)

Wilmont Divide


Winnipeg (Yaki) (11)


Yaki
(see Winnipeg)

Zalla M (9)
(see under silver)

GARFIELD COUNTY

Alberta


GRANT COUNTY

Big Four
(see Electric City under molybdenum)

Black-Rosauer (1)
(see under silver)

Daniels
(see under silver)

Electric City (2)
(see under molybdenum)

Hope No. 1 (3)
(see under silver)

JEFFERSON COUNTY

Rustler Creek (1)


KING COUNTY

Aaron (12)


Aces Up (61)
(see under silver)

Anderson (3)
(see under iron)

Annie (78)
(see under copper)

Apex (Bondholders Syndicate) (7)


Arizona and Washington


Baring
(see under Anderson)

Bear Basin (57)
(see under silver)

Bear Creek
(see Robinson)

Beatrice (14)


Beaverdale (43)


Belle of Tennessee (44)


Bergeson (Normandie) (15)


Big Chief

Black Bear (16)

Black Jack

Bobtail (62)
(see under copper)

Bonanza Queen

Bondholders Syndicate
(see Apex)

Bridal Veil

Brooklyn (47)
(see under copper)

Carmack (85)

Cascade Gold
Loc: King County. Owner: Cascade Gold Mining & Milling Co. (1890). Ore: Gold. Ref: 105, no. 6, 1890, p. 91.

Charles (17)

Christina
(see under copper)

Clara (18)

Cleopatra (53)
(see under silver)

Cleveland (75)
(see under copper)

Clipper (81)
(see under copper)

Commonwealth (63)
(see under copper)

Coney Basin (48)

Gangue: Quartz. Deposit: Small persistent quartz veinlets along joint planes in granodiorite. Also 1 silicified mineralized zone 4 ft. wide. Dev: 1,650-ft. adit, another shorter adit, and some open cuts total about 3,000 ft. Assays: Av. of 22 samples gave 0.38 oz. Au, 11.97 oz. Ag. 3 other assays showed 0.24% to 1.30% Cu, 2.6% to 6.9% Pb, 2.9% to 9.1% Zn. 8 tons shipped to smelter in 1941 had 0.86 oz. Au, 19.71 oz. Ag, 0.82% Cu, 6.0% Pb, 0.0% Zn, 0.0% Hg, 0.0% Sb. Prod: 40 tons in 1895, produced in 1894, 1897-1898, 1914. Ref: 46, pp. 159-160. 63, p. 36. 97, 1935, 1936, 1940. 104, 9/31/34, p. 22, 6/15/35, p. 26. 114, no. 5, 1909. 132, p. 67. 147, pp. 134-135. 158, 159, p. 155.

Cooper (19)

Copper Bell

Copper Chief (82)
(see under copper)

Copper Duke (8)
Loc: Sec. 25, (26-10E), on Money Cr. Ore: Gold, silver, copper. Ref: 158.

Copper Plate
(see Seattle-Cascade under silver)

Damon and Pythias (6)
Loc: Sec. 32, (26-10E), at head of Money Cr., adjoining Apex property. Elev: 3,000 ft. Access: 1 mi. from end of Apex road, by which it is 6 mi. to railroad at Miller R. Prop: 18 unpatented claims. Owner: W. J. Priestley, Skykomish, Wash. (1939-1941). National Gold Corp. (1928-1932). Ore: Gold, silver, lead. Ore min: Arsenopyrite, pyrite, chalcopyrite, galena. Gangue: Quartz. Deposit: 2 veins, one of which is said to av. 3 ft. in width over distance of more than 900 ft. in granodiorite. Dev: 3,000 ft. of crosscut and drifts expose the veins for about 1,500 ft. of length and from 800 to 1,400 ft. of depth. Improv. Cookhouse and bunkhouse, 2,300 ft. of track. Assays: 23 tons shipped sold to run 0.87 oz. Au, 0 oz. Ag. 4% Pb. Mine-run ore said to carry 7.86% As, 0.245 oz. Au, 0.2 oz. Ag. Prod: 23-ton shipment reported prior to 1940. Ref: 62, p. 39. 97, 1928, p. 700. 104, 4/30/32, pp. 3-4. 106, 9/17/28, pp. 29-30; 5/1/30, p. 157. 158.

Dawson (52)
(see under lead)

De La Mar (20)

Della Jane (87)

Dudley (21)

Dutch Miller (80)
(see under copper)

Eureka (94)
(see under copper)

Eureka (94)
(see under copper)
King and Kinney (53)
(see under copper)

Kinney
(see King and Kinney under copper)

Klondike (86)

Last Chance (88)
Loc: Sec. 11, (22-9E), Snoqualmie dist. Ore: Gold, silver.
Ref: 38, p. 38, 63, p. 42.

Last Chance (90)
Ref: 63, p. 48.

Last Chance (Sockless Jerry) (49)
Dev: 100-ft. drift. Ref: 58, p. 39, 63, p. 38, 158.

Laura Lindsay

Legal Tender (76)
Ref: 63, p. 42.

Lennox (51)
Loc: Secs. 7 and 18, (25-10E) and sec. 13, (25-9E), Buena Vista dist. Elev: 1,360 to 2,870 ft. Access: 23 mi. by road from railroad at North Bend. Prop: 45 claims held by possessory title.

Le Roi (66)

Leta (77)

Lillian Leone (28)

Little Una
Ref: 63, p. 38.

Lone Star (50)

Lost Lode (72)
(see under molybdenum)
Lode Gold Occurrences—King County

Lucky Strike (45)


Mastodon

(see under silver)

May Earhart

(see Robinson)

Metropolitan (67)


Mitchell (29)


Mona

(see Mono under copper)

Monarch (10)

Loc: Sec. 25, (26-10E), on Money Cr. Ore: Gold, silver. Ref: 158.

Mono (39)

(see under copper)

Monte Carlo (46)


Mt. Logan

(see Guye under iron)

Mount Phelps (41)

(see under zinc)

Mountain Gem


Napoleon (50)


Neptune (11)

Loc: Secs. 25 and 26, (26-10E), on Money Cr. Ore: Gold, silver, lead. Ref: 158.

Normandie

(see Bergeson)

Norwood (31)


Oliver (1)

Loc: Secs. 5 and 6, (25-10E), Money Cr. dist. Prop: 1 patented claim. Owner: King County. Ore: Gold. Ref: 158.

Online (96)


Ophir (91)


Oriole (98)


Owen (32)


Paradise (33)


Paymaster


Pedro

(see under copper)

Pythias

(see Damon and Pythias)

Quartz Creek (73)

(see under copper)

Rainy (Western States Copper) (74)

(see also Quartz Creek under copper)


Ray (34)


Robinson (May Earhart, Bear Creek) (95)


Romeo


Rushing (42)

Inventory of Washington Minerals—Part II, Metallic Minerals

Ore: Gold. Deposit: Said to be a vein 8 ft. wide. Dev: 3 adits 300, 400, and 500 ft. long. Assays: As high as $161 Au reported. Ref: 158.

Salmon Creek (4)

San Francisco (12)

San Jose (25)

Sara (35)

Sara Williams (36)

Seattle (89)

Seattle-Cascade (54)
(see under silver)

Silver Dollar and Copper Plate
(see Seattle-Cascade under silver)

Silver Star (59)
(see under silver)

Sockless Jerry
(see Last Channee)

Solomon (37)

Square Deal

Stemwinder (92)

Stevens
(see Una under copper)

Summit
(see Guye under iron)

Sunday
(see under silver)

Surprise
(see under copper)

Teddy R. (68)

Triple S
(see Seattle-Cascade under silver)

Triune

Twin Lakes

Una (55)
(see under copper)

Valley Queen (60)

Vandalia

Ventura (79)

Victoria

War Eagle (56)

Washington
(see Arizona and Washington)

Western States Copper
(see Rainy)

White River (99)
Loc: Approx. sec. 6, (19-8E), on S. side of Quartz Min. Ore: Gold. Deposit: Silicified and altered volcanic rocks associated with the alunite deposits. Dev: 2 adits, one 300 ft. long. Improv: About 1890 a stamp mill was erected to mill the ore but was soon abandoned. Assays: Said to range from 54% to $1.40 Au. Ref: 158.

Woodline (97)

J. Taylor Wright (65)

Yellow Jacket (2)

KITTITAS COUNTY

American Eagle (1)

Aurora (Lynch, Paramount) (3)
Lode Gold Occurrences—Kittitas County

131
dep. Assays: Ore said to assay 1 oz. Au, 14 oz. Ag, 6% Cu, 28%
As, probably on a picked sample. Prod: Has produced. Ref: 13,
p. 133, 63, pp. 61-62. 111, p. 7. 158.

B & B (34)
Loc: Sec. 34, (21-17E), Swauk dist. Owner: B & B Gold
amount prior to 1947. Ref: 51, p. 4.

Bear Creek Gold
(see under silver)

Beaver (10)
Loc: Secs. 23 and 26, (23-14E), Cle Elum dist. Ore: Gold,
silver, copper. Ref: 58, p. 5. 63, p. 64.

Bertha

Big Bear and Little Bear

Big Z
(see Zerwekh)

Bloomquist Bros. (32)
Loc: Sec. 22, (21-17E), at mouth of Blue Cr., Swauk dist.
Ore: Gold. Ref: 158.

Blue Bonnet (10)
(see under copper)

Bonanza
(see Dolphin under copper)

Boss (2)
Loc: On Eagle Mtn. near American Eagle property, Cle Elum
dist. Owner: Col. C. Bell (1892). Ore: Gold, silver. Ore min:
Arsenopyrite. Deposit: 6-ft. vein with 16-in. paystreak. An
Ref: 13, p. 134.

Boyles (21)
(see under copper)

Broncho
Loc: On Mammoth Mtn., Cle Elum dist. Owner: James
vein of free-milling ore carrying sulfdides. Dev: 80 ft. of work-

Brown Bear
Loc: On ridge between Cougar and Lyons Gulches, Swauk
dist. Owner: F. W. Fowler, Seattle, Wash. Ore: Gold. Ref: 63,
p. 69. 158.

Brown Bear
Ref: 63, p. 65.

Camp Creek (17)
(see under silver)

Cascade
Ref: 63, p. 65.

Cascade Chief (Morrison, First of August, Gladstone) (40)
Loc: SE¼SW¼ sec. 26, (21-17E), 4 mi. up Cougar Gulch
from Liberty post office. Elev: 3,400 ft. Access: Road. Prop:
5 lode claims: First of July, First of August, Fourth of July, The
Gladstone, Uncle Sam. Also one placer claim: Cougar. Owner:
Cascade Chief, Inc. (1934-1936). State of Washington Mining
zones in sandstone av. 4 ft. in width and carry stringers of
mineralized quartz. Dev: Crosscut and some old workings total
several hundred ft. of workings. Assays: Channel sample across
the vein assayed $7.24 Au. One assay showed $128.35 Au.
22; 11/30/36, p. 30. 158.

Cascade Mining (26)
(see under copper)

Chesapeake
Loc: At head of Boulder Cr., Cle Elum dist. Ore: Gold. Ref:
63, p. 65.

Clarence Jordin (37)
Loc: Sec. 2, (20-17E), on Snowshoe Ridge, Swauk dist.
Prop: 3 unpatented claims, including Ace of Diamonds. Owner:
Ore min: Free gold. Gangue: Quartz, esclite. Prod: $35,000
reported. Produced from Ace of Diamonds claim in 1952. Ref:

Cle Elum (11)
(see under silver)

Cleary (41)
Loc: Sec. 26, (21-17E), Swauk dist. Elev: 3,500 ft. Owner:
Washington Gold Co., Inc., Tieton, Wash. (1938). State of
Washington Mining Co. (1915). Cougar Gulch Mining Co.
in a decomposed basaltic dike. Prod: Test shipment in 1938.
Ref: 113, p. 80. 144, p. 9. 158.

Denney (18)
(see under chromium)

Dolphin
(see under copper)

Don Tom
Loc: At head of Fortune Cr., Cle Elum R. area. Ore: Gold, silver.
Ref: 63, p. 63.

Durrwachter
(see Mineral Creek under copper)

Edna R. (12)
Loc: NE¼ sec. 24, (23-14E). Ore: Gold. Ore min: Pyrite,
arsenopyrite. Deposit: Mineralized quartz vein in granodiorite

Elkhorn
355.

Epha
Ref: 63, p. 64.

Esther and Louisa (27)
(see under silver)

Ewell (Flag Mountain) (36)
Loc: NW¼ sec. 1, (26-17E), Liberty area. Owner: Ewell, Lamb
et al, Seattle, Wash. (1953——). William L. Ewell, Cle Elum,
1/53, p. 90. 133, p. 32.

Family
Loc: At head of Fortune Cr., Cle Elum R. area. Ore: Gold,
silver. Ref: 63, p. 63.
Fanny Edell

First of August
(see Cascade Chief)

Flag Mountain
(see Everell)

Flodine (42)

Gambler's Dream

Gladstone
(see Cascade Chief)

Gold Bug

Gold Hill

Gold Leaf

Gold Mountain

Gold Reef

Golden

Golden Eagle

Golden Fleece (Mercer, T-Bone) (31)

Golden Stair
(see under silver)

Grandview (23)
(see under copper)

Granite King (25)
(see under silver)

Great Western

Great Wonder

Grizzly Bear

Hans Wagner
(see under copper)

Huckleberry (9)
(see under copper)

Hurley Creek (Nairn) (30)

Ida Elmore (19)

Ilias (22)
(see under copper)

Just In Time

Keystone (24)
(see under mercury)

King Solomon (7)
(see under copper)

Last Chance

Legal Tender
(see under copper)

Liberty (43)
Lode Gold Occurrences—Kittitas County

Liberty Lode
(see Mineral Creek under copper)

Little Bear
(see Big Bear and Little Bear)

Little York
Deposit: Quartz veins in sheared and silicified sandstone. Assays: Silver content of the gold reportedly amounts to 20%.
Ref: 143, p. 80.

Lost
(see Grandview under copper)

Lynch
(see Aurora)

Magpie Canyon (47)

Majestic

Mammoth

Mary

Maud O. (20)

Mayflower

Mercer
(see Golden Fleece)

Mildred
(see under copper)

Mineral Creek (23)
(see under copper)

Morning

Morning Star (13)
(see under copper)

Morris

Morrison
(see Cascade Chief)

Mountain Belle
(see under copper)

Mountain Chief
(see under copper)

Mountain Daisy (38)

Mountain Whistler

Nairn
(see Hurley Creek)

Navidad
(see under copper)

Nellie

Ollie Jordin (39)

Paramount
(see Aurora)

Queen of the Hills

Red

Rocky Point (6)

Ruby (8)
Loc: Sec. 20, (23-14E), Cle Elum dist. Ore: Gold, silver. Ref: 63, p. 64.

Ruby King

Rushing Water

Silver Bow
(see under copper)

Silver Bell (4)

Silver Creek (5)
Inventory of Washington Minerals—Part II, Metallic Minerals

Silver Dump (14)
(see under silver)

Silver Queen (15)
(see under silver)

Sonny Brown (44)


Standard


Sunrise


Sunshine


Sylvanite (33)


T-Bone

(see Golden Fleece)

Thorl


Tip Top


Tip Top No. 1


Topping


True Fissure Gold (45)


Twin


Valinia


Vidette


Wall Street (46)


War Eagle


Washington (35)


Whippoorwill


Williams

(see Illas under copper)

Zerwekh (Big Z) (29)


LEWIS COUNTY

Eagle Peak (1)
(see under copper)

Tacona (2)


Waterfall (3)


LINCOLN COUNTY

Egypt
(see Pitney Butte under molybdenum)

Fourress (1)
(see under zinc)

Iron Crown (2)


Pitney Butte (Fourress)
(see Fourress under zinc)

Pitney Butte
(see under molybdenum)

Spokane Molybdenum
(see Pitney Butte under molybdenum)

United Workman
(see under silver)
OKANOGAN COUNTY

Abernathy (161)
(see under copper)

Adams
(see Moncotsilo under copper)

Adelia (60)

Adirondack

Alder (173)

Alice (78)
(see also Summit, Black Bear, War Eagle)

Allison
(see Okanogan Free Gold)

Alta
(see Chilson under lead)

American Flag (Oriental and Central) (150)

American Flag (139)
(see under copper)

American Girl (130)

American Graphite (236)
Loc: Mine in sec. 27, (34-29E). Mill in sec. 28, (34-27E). Access: Road. Prop: 70 claims and 179 acres of land. Owner: American Graphite & Metals Corp. (1948). Ore: Graphite with some gold and molybdenum. Ore min: Graphite, molybdenum. Deposit: Graphite schists and graphite-bearing crystalline limestone. Dev: Adit, shaft. Prod: Mill, cabins, bunker (1949). Assays: Assays indicate $2.00 Au in some samples. Spectrographic analysis shows the presence of 0.31% MoS2. Note: This property, originally thought to be a molybdenum prospect, was proven to have values principally in graphite, and to have little or no molybdenum. Ref: 188.

American Rand
(see Spokane)

Anaconda (66)

Anchor (256)
(see under silver)

Andrus

Anna B.
(see Ironsides and Anna B. under copper)

Antimony Gold
(see Abernathy under copper)

Antimony Queen (176)
(see under antimony)

Apache (257)
(see under silver)

Apx (109)
(see under copper)

Arizona
(see under silver)

Arizona
(see Horn Silver under silver)

Arlington (220)

Atkins (237)
(see under copper)

Aurora

Aztec (120)
(see under iron)

Baltimore (72)

Bambino (Little Flower) (179)
Beaver (133)

Bellevue (52)

Ben Butler (83)

Ben Harrison (see Apex under copper)

Ben Lummon (see Shaw-Bergman under copper)

Big Boy (151)

Bergman (see Shaw-Bergman under copper)

Big Eight (164)

Big Hole

Billy Goat (6) (see under copper)

Bi-Metallic (135) (see under molybdenum)

Black Bear (79) (see also Alice)

Black Huzzar (see under silver)

Black Jack (184)

Black Warrior

Blanche (35)

Blue Lake (105) (see under copper)

Bodie (Northern Gold) (137)

Bolingher (178)

Bonanza Chief (see Brown Bear)

Bornite (see Peacock under copper)

Boundary (see Sheep Mountain under molybdenum)

Brother Jack

Brown Bear (Bonanza Chief) (3)

Buckeeye (see under silver)

Buckeeye (69) (see under copper)

Buckhorn (see Magnetic under iron)
Bunker Hill


Butcher Boy (112)


Casa (see Casa under lead)

Cabin (258) (see under lead)

Calumet


Campbell (see Holden-Campbell)

Caribou (121)


Caroline (53)


Carr (7) (see under copper)

Castle Creek (242) (see under lead)

Central (Trinidad) (107) (see under silver)

Central (American Flag) (see American Flag)

Chelan (Pennington) (182)

Lode: NE corner, sec. 17, (30-22E), near head of Squaw Cr. on N. side of the valley. Elev: 3,000 ft. Access: Road up Squaw Cr. Prop: At least 7 claims. Owner: Roy Pennington (1943). Ore: Gold, tungsten. Ore min: Scheelite, pyrite, free gold. Deposit: Several mineralized quartz veins from 6 to 24 in. wide along shear zones in diorite. Dev: Caved adit on No. 7 vein and 40-ft. adit on No. 4 vein, also some open cuts. Assays: Gold values of $21 and $161 are reported. Scheelite content less than 1/4%. Ref: 37, p. 49.

Chesaw (113)


Chicago (67)


Chicago (187)


Chicago and New York


Chickamun (174) (see under silver)

Chief Sunshine (212) (see under silver)

Chilson (see under lead)

Chloride (see under silver)

Chloride Queen (19)


Chopaka (12) (see under silver)

Cleopatra


Columbia (183)


Columbia


Combination (70)


Contention (61)

Continental  
(see Mazama Queen)

Copper Glance (10)  
(see under copper)

Copper King (84)  
(see under copper)

Copper World (87)  
(see under copper)

Copper World Extension (88)  
(see under copper)

Cornucopia  

Crescent  
(see Triune)

Crown Point  
(see Imperial)

Crystal Butte (Mother Lode) (131)  

Crystalite  

Curlew (25)  

Daisy (143)  

Damfino (186)  

Defiance (74)  

Delaware  
(see under silver)

Denver City  
(see Leadville)

Derby  

Detroit-Windsor (98)  

Dexter  
(see under silver)

Diamond (226)  
(see under silver)

Diamond Queen (206)  

Dividend (38)  
(see under copper)

Dixie Queen  
(see Antimony Queen under antimony)

Dodd  
(see Sheep Mountain under molybdenum)

Dorian  
(see No Monicker)

Double Eagle  
(see Dry Bone under lead)

Double Header  
(see Little Chief under silver)

Dry Bone  
(see under lead)

Duke of Windsor  
(see Dry Bone under lead)

E Plus Librus (91)  

Eagle (114)  

Eclipse (90)  

El Dorado  

Eloise (26)  
(see under silver)

Emerald (198)  
Loe: Sec. 7, (30-23E), Squaw Cr. dist. Ore: Gold, silver, copper. Ref: 63, p. 87.

Empire (82)  
Lode Gold Occurrences—Okanogan County

Empress

Eureka (32)
(see under lead)

Eureka (145A)

Eureka (see under silver)

Evening (254)
(see under silver)

Excelsior (200)

Fairview

Fairview (see under lead)

Fairview

Favorite (27)
(see under lead)

Floyd (167)
(see under copper)

48th Parallel (39)
(see under copper)

Four Aces (203)

Fourth of July (230)
(see under silver)

Frankie Girl (17)

Friday (Tom Hall) (207)

Frosty

Gladstone (75)

Goat Creek
(see under copper)

Golecinda

Gold Axe (122)

Gold Bar (165)

Gold Coin (180)

Gold Coin (152)

Gold Creek

Gold Crown (76)

Gold Crown (16)

Gold Crown
(see Golden Crown)

Gold Crown
(see Spokane)

Gold Cup
(see under silver)

Gold Dust (40)
(see under copper)

Gold Eagle
(see under silver)
Gold Hill (92)

Gold Key (153)

Gold Quarry (103)

Golden Chariot (41)
(see under copper)

Golden Crown (Gold Crown)

Golden Fleece (93)

Golden Triangle

Golden Zone (11)

Goodenuf (248)
(see under silver)

Gould & Curry (259)
(see under lead)

Gove (238)

Grand Coulee
(see Little Chief under silver)

Grand Summit
(see Palmer Summit)

Grandview

Grandview (Leadville)
(see Leadville)

Granite Quartz

Grant
(see Roosevelt under iron)

Gray Eagle (116)

Gray Eagle (204)

Great Divide (255)
(see under silver)

Great Metals
(see Anchor under silver)

Grubscher
(see Gubser under lead)

Grubstake (188)
(see also Holden-Campbell)

Gubser (216)
(see under lead)

Hanks (9)
(see under copper)

Harris

Hart Stone
(see Kelsey under copper)

Harts Pass (Willman) (4)
Hatte


Hehe


Henrietta (194)


Hercules (94)


Hiawatha (Josie) (54)


Hidden Treasure (246)

(see under copper)

Hidden Treasure (217)

(see under silver)

Hidden Treasure (Sunshine, Triangle) (196)

(see also Highland)


Highland (Highland Light) (197)

Loe: E½ sec. 11 and W½ sec. 12, (30-22E), Squaw Cr. dist. Access: 2 mi. of steep truck road from the Squaw Cr. road. Prop: 7 claims; Highland Light, Hidden Treasure, Buckhorn, Lookout, Sailor Boy, V. O. B., California, Millsite. Owner: Highland Mining & Milling Co. (1948). Ore: Gold, copper, tungsten, zinc. Ore min: Pyrite, chalcopyrite, scheelite, sphalerite. Deposit: Several quartz veins; one, the Sailor Boy, has an av. width of 6 ft. and is exposed for length of 3,000 ft. Dev: Several old adits and shafts totaling 2,000 ft. Assays: 2 to 5 oz. Au, 1% to 9% Zn, and very small percentage of W. Prod: $13,000 during 1938 to 1941 in gold and zinc. Ref: 37, p. 47. 63, p. 86. 88, p. 38. 97, 1940, p. 478; 1941, p. 474.

Highland Light

(see Highland)

Hill-Thomas

(see under silver)

Hilo

(see St. Paul under silver)

Holden-Campbell (189)

(see also Grubstage, Hunter, Okanogan)


Home Run (249)

(see under silver)

Homestead (218)

(see under lead)

Hoot Owl (235)

(see under molybdenum)

Horn Silver (34)

(see under silver)

Hotchkiss

(see Mazama Pride)

Hudnut (Hudnutt) (253)

(see under zinc)

Hunter (102)

(see also Holden-Campbell)


Ida (134)


Idaho

(see under silver)

Imperial (Crown Point) (148)

Independence (185)

International
(see under copper)

Iron Cap

Iron Cap and Snow Cap (158)

Iron Crown

Iron Dike (240)
(see under zinc)

Iron Mask
(see Copper World Extension under copper)

Iron Master (86)

Ironside and Anna B. (123)
(see under copper)

Ivanhoe (62)
(see under silver)

Jackpot (124)

Japan
(see under copper)

Jessie (51)
(see also Triune)

Jim Dodd
(see Sheep Mountain under molybdenum)

John Arthur (213)
(see under silver)

John Judge
(see Leadville)

Jones (157)
(see under copper)

Josie
(see Hinwatha)

Juanita

Judy

Julia (20)
(see under lead)

Jumbo

Junction

Just In Time (191)

Kaaba (28)
(see under lead)

Kaaba-Texas
(see Kaaba under lead)

Kelsey (42)
(see under copper)

Key (222)
(see under silver)

Keystone (219)
(see under silver)

Kimberly (59)
(see under lead)

King Solomon (29)

Kodak

Kyota (234)
(see under silver)

Lady of the Lake (225)
(see under silver)

Laearna
(see Leuerana under silver)

Lake
Lakeview
(see Prize under lead)

Lakeview (43)

Lancashire Lass (73)

Last Chance (205)

Launa
(see Leuena under silver)

Leadville (John Judge, Denver City, Grandview) (89)

Leuena (214)
(see under silver)

Lilman (264)
(see under silver)

Little Chief (265)
(see under silver)

Little Chopaka (30)
(see under lead)

Little Falls (95)

Little Flower
(see Bambino)

Little Johnnie (260)
(see under silver)

London
(see Methow)

Lone Pine (36)
(see under silver)

Lone Star (144)

Lone Star (Star) (215)
(see under lead)

Louisa
(see Standard and Louisa)

Lucky Jim (156)
(see under copper)

Lucky Lady (101)
(see under silver)

Luke
(see Molly under copper)

Lulu
(see under silver)

McClure

MacLean
(see Roosevelt under iron)

Magnetic (125)
(see under iron)

Majestic

Mammoth (22)

Mammoth (220)
(see under copper)

Manuel
(see under copper)

Maqua

Marshal Ney

Mazama Pride (Hotchkiss) (154)

Mazama Queen (Continental) (149A)
Inventory of Washington Minerals—Part II, Metallic Minerals

plant, assay office, camp facilities for 15 to 20 men (1939).

**Assays:** Ore said to range from $10 to $47 per ton. 4 samples showed 0.32 to 0.44 oz. Au, 1.74 to 4.30 oz. Ag, 8.5% to 10.0% Zn. **Prod:** Test shipments in 1938 and 1939. **Ref:** 97, 1939, p. 490; 1940, p. 478. 104, 5/30/32, p. 26; 4/30/35, p. 29; 12/15/35, p. 26; 12/15/36, p. 31. 106, 5/19/32, 7/7/32, p. 11. 155.

**Methow (London, New London) (198)**

(see also Roosevelt under gold, and Mineralite, Homestake under tungsten)

**Loc:** E 1/2 secs. 12 and 13, (30-22E) and W 1/2 secs. 7 and 18, (30-23E), on NE. slope of Hunter Mtn., Squaw Cr. dist. **Access:** Methow highway crosses E. end of property and is connected with W. end by truck road. **Prop:** At least 4 claims E. of Hunter Mtn. on W. side of Methow R. and at least 3 claims E. of the river. **Owner:** Methow Mining & Milling Co., Seattle, Wash. (1934-1946). Methow Gold & Copper Co. (1902-1924). **Ore:** Gold, silver, copper, tungsten. **Ore min:** Pyrite, chalcopyrite, scheelite. **Deposit:** Mineralized quartz veins from 3 in. to 15 ft. wide; among them the New London Homestake, Mineralite, Roosevelt. **Dev:** Mill, 1,200 ft. of underground workings, of which more than half are W. of the river, also numerous trenches and open cuts. **Assays:** Au, 0.44 oz. Au, 0.8 oz. Ag, 1% Cu, and a small amount of W. **Prod:** $40,000 in gold in 1940-1941. **Ref:** 22, p. 8. 33, 1907, p. 784. 37, pp. 47-49. 63. 88. 88. p. 55. 98, 1912-1925. 158.

**Mid Range (159)**

**Loc:** Sec. 34, (25-18E), at head of North Cr. Elev: 6,000 to 7,760 ft. **Access:** About 5 mi. by trail N. of Gilbert, terminus of the Twisp B. road. **Prop:** 8 unpatented claims. **Owner:** Bill Johnson and Corwin Johnson, Winthrop, Wash. (1946). **Ore:** Gold, silver, copper, zinc. **Ore min:** Pyrite, arsenopyrite, pyrrhotite, chalcopyrite, sphalerite. **Deposit:** 2 mineralized quartz veins in diorite. **Dev:** Several adits and open cuts. **Assays:** Ore shipped in 1940 av. 1.37 oz. Au, 1.81 oz. Ag, 0.24% Cu. **Prod:** 10 tons shipped to Tacoma smelter in 1939 and 22 tons in 1940. **Ref:** 58, p. 44. 97, 1940, p. 478. 158.

**Mills**

**Loc:** Squaw Cr. dist. **Ore:** Gold, silver. **Prod:** Unknown amount prior to 1897. **Ref:** 63. p. 88.

**Mineral Hill (Washington Consolidated, Seven Devils) (223)**

(see under silver)

**Minnehaha (221)**

(see under silver)

**Minnie (175)**

**Loc:** NW 1/4 sec. 23, (32-22E), Twisp dist. Elev: 2,400 ft. **Access:** Road up Leecher Cr., 3/4 mi. NE. of Carlton. **Prop:** 4 unpatented claims. **Owner:** Franklin C. Blockson, Twisp, Wash. (1949—). **Ore:** Gold, silver, zinc. **Ore min:** Pyrite, sphalerite, chalcopyrite, scheelite, marmatite. **Gangue:** Quartz, gyspsum, native sulfur. **Deposit:** Leached and honeycombed quartz vein av. 3 ft. wide in metamorphic rocks. **Dev:** 160-ft. adit on which is 55-ft. winze, 25-ft. drift, and 30-ft. stope, also several open cuts. **Impov:** House (1951). **Assays:** Carload of ore shipped in Nov. 1945: 0.46 oz. Au, 7.76 oz. Ag, net $667.66. **Prod:** 2 carloads, one in 1941, one in 1945. **Ref:** 97, pp. 52-53. 43, 1918, p. 309. 68, p. 14. 97, 1918, p. 42. 158.

**Minnie (68)**

**Loc:** Eastern extension of the Anacosta claim in sec. 14, (39-26E), Wannacut Lk. dist. **Prop:** 1 claim. **Owner:** Messers. Hall and George Pascall (1892). **Ore:** Gold. **Deposit:** 2-ft. vein. **Dev:** Shaft. **Assays:** $22 Au. **Ref:** 13, p. 102.

**Mocoe (250)**

(see under copper)

**Molly (Sheep Mountain)**

(see Sheep Mountain under molybdenum)

**Molly (145)**

(see under copper)

**Molson**

(see Poland China)

**Moncosilgo (48)**

(see under silver)

**Moneymaker (239)**

(see under silver)

**Montana (266)**

(see under silver)

**Montana (147)**

(see under copper)

**Monterey (126)**

(see under copper)

**Morning Glory**

**Loc:** Myers Cr. dist. **Ore:** Gold. **Prod:** 1940. **Ref:** 97, 1941, p. 474.

**Mother Lode**

(see Crystal Butte)

**Mountain Beaver (8)**

**Loc:** NW 1/4 SE 1/4 sec. 15, (38-20E), on Isabella Ridge adjacent to Billy Goat prospect. Elev: 4,400 to 4,800 ft. **Access:** 27 mi. by road from Winthrop. **Prop:** 3 unpatented claims: Mountain Beaver, Buckhorn Nos. 1 and 2. **Owner:** H. A. and Edgar Hotchkiss, Winthrop, Wash., and D. W. Tomlinson, Mansfield, Wash. (1946). **Ore:** Gold, copper, silver, bismuth. **Ore min:** Pyrite, chalcopyrite. **Deposit:** Mineralized andesite agglomerate. **Dev:** 4 adits; one 275 ft. long, another with 200 ft. of work, 2 shorter ones. **Impov:** Cabin and small flotation mill (1949). **Assays:** Crude ore shipped av. 1.55 oz. Au, 1.13 oz. Ag, 1.1% Cu. Minor amount of bismuth reported. **Prod:** Small shipments in 1922, 1931, 1934, 1935. **Ref:** 97, 1931, p. 477; 1935, p. 354. 158.

**Mountain Goat**

**Loc:** On Gilbert Mtn., Twisp dist. **Ore:** Gold. **Ref:** 63, p. 90.

**Mountain Lily**

**Loc:** Squaw Cr. dist. **Ore:** Gold. **Ref:** 58, p. 46.

**Mountain Sheep (15)**

(see under silver)

**Mule Deer**

**Loc:** Concomity dist. **Ore:** Gold, silver. **Ref:** 113, 7/1/37, p. 18.

**Multnomah (251)**

(see under copper)

**Myrtle**

(see St. Paul under silver)

**Neutral**

(see Magnetic under iron)

**New Deal**

(see Antony Queen under antimony)

**New Hope (2)**

(see under copper)

**New London**

(see Methow)
New York
(see Chicago and New York)

New York

Newport (270)

Nina Lu (267)
(see under silver)

Ninety-Two (63)

Nip and Tuck (201)

Nip and Tuck (127)
(see under copper)

No Monicker (Dorian) (228)

North Star (171)

Northern Gold
(see Bodie)

Number One (24)
(see under lead)

O. K. (44)
(see under copper)

Occident (55)
(see also Triune)

Oceanic

Okanogan (190)
(see also Holden-Campbell)

Okanogan Copper (104)

Okanogan Free Gold (Owasco, Allison) (49)

Old Glory (244)
(see under copper)

Olentangy (110)

Opal (111)
Loc: Sec. 20, (40-30E), Myers Cr. dist. Ore: Gold, copper, lead. Ref: 116, no. 4, 1907, p. 18.

Oregon
(see also Washington)

Oregonian

Orient

Oriental and Central
(see American Flag)

Oro Fino (39)

Oro Fino

Osiola
(see under copper)

Oversight (261)
(see under lead)

Overtop
(see Poland China)

Owasco
(see Okanogan Free Gold)

Palmer Lake (50)
(see under copper)
Palmer Mountain Tunnel (97)

Palmer summit (Grand Summit) (64)

Panama (252)
(see under silver)

Parallel

Pateros
(see Sullivan)

Pay Day (163)

Paymaster (202)

Peacock (Bornite) (5)
(see under copper)

Peacock (227)
(see under silver)

Pendennis (117)

Pennington
(see Chelan)

Pennsylvania
(see under silver)

Peoria (169)

Peterson

Phil Sheridan
(see Sheridan under silver)

Pingston

Pinnacle (65)

Poland China (Molson, Overtop) (108)

Poorman
(see under lead)

Porphyry

Portland

Premier
Pride of the Hills

Prize (23)
(see under lead)

Plhomigan
(see under cobalt)

Pyrrargyrite
(see Ruby under silver)

Q. S. (106)
(see under copper)

Rainbow (142)

Rainbow (65)

Ramore (245)
(see under lead)

Ramsey (247)
(see under copper)

Rattlesnake (163)

Reckless (132)

Reno (118)

Red Jacket (100)

Red Shirt (170)

Reedy
(see Antimony Queen under antimony)

Review (119)

Riverside

Riverview (21)

Rock House

Roosevelt (208)
(see also Methow)
Loc: SW 1/4 NW 1/4 sec. 16, (30-23E), 1/4 mi. E. of the Methow R., Squaw Cr. dist. Elev: 75 ft. above Methow R. Owner: Methow Mining & Smelting Co. (1930-1945). Ore: Gold, copper, tungsten. Ore min: Pyrite, chalcopyrite, scheelite. Deposit: Quartz vein associated with basaltic dike in gneissic granite rock. It varies from less than 1 in. to 6 ft. thick and av. 2% to 3 ft. Sulphides occur in pods on walls of the vein. Scheelite is in pockets and stringers throughout the vein. The vein is exposed in adits and on the surface for length of more than 700 ft. and depth of 400 ft. Dev: 665-ft. drift, a lower 240-ft. drift, both caved in 1938. Assays: Less than 1/4% scheelite. Assays for the back 180 ft. of the lower adit av. 0.5% to 0.75% WO, over an av. width of 2 ft. Lower scheelite values in the upper adit. Ref: 37, p. 49. 46, p. 15. 97, 1929, p. 426; 1930, p. 873. 106, 4/3/30. 158.

Roosevelt (128)
(see under iron)

Rosalin (46)
Ruby
(see under silver)

Ruby (Pyrrargyrite) (13)
(see under silver)

Ruby Silver
(see under silver)

Rush (13)

Russia
(see under copper)

Rustler (233)

Safe Deposit
(see under copper)

Saint (37)

St. Anthony (181)

St. Lawrence (160)

St. Patrick (183)

St. Paul (263)
(see under silver)

Salmon River (224)
(see under silver)

San Francisco
(see under lead)

San Francisco (33)

San Marino (268)

Satellite

Schoenfeld
(see Floyd under copper)

Schulz and Chesney (211)
Loc: Secs. 29 and 30, (30-23E), Squaw Cr. dist. Ore: Gold, silver, copper. Ref: 63, p. 89.

Second Prize

Security (80)
(see under copper)

Seven Devils
(see Mineral Hill under silver)

Sharp
(see Silver King under copper)

Shaw-Bergman
(see under copper)

Sheep Mountain (1)
(see under molybdenum)

Shelby
(see under silver)

Sheridan (138)
(see under silver)

Sherman (252)
(see under lead)

Sidewinder

Silent Friend (56)
(see under silver)

Silver Bell (140)

Silver Bluff
(see under silver)

Silver King (155)
(see under copper)

Silver Ledge (177)
Silver Mountain (102)  
(see silver under silver)

Silver Queen  
(see Lucky Lady under silver)

Silver Seal  
(see Antimony Queen under antimony)

Silver Star  
(see Silver Mountain under silver)

Silver Star  
(see under silver)

Six Eagles  
(see Little Chopaka under lead)

Snow Cap  
(see Iron Cap and Snow Cap)

Sonny Boy (231)  
(see under silver)

Spokane (American Rand) (57)  

Spokane (Gold Crown) (166)  

Standard  

Standard (Sherman)  
(see Sherman under lead)

Standard and Louisa (105)  

Star  
(see Lone Star under lead)

Stone  
(see Kelsey under copper)

Submarine  
(see Lone Pine under silver)

Sullivan (Pateros)  
Loc: 5 mi. NW. of Pateros, on E. side of Methow R.  Access: Mine is across Methow R. from highway, by which it is 5 mi. to railroad at Pateros.  Prop: 5 claims: Friday, Saturday, Key, Lone Pine, Prince of Paris.  Owner: J. J. Sullivan, Pateros, Wash. (1947), leasing to Dr. Roy W. Key (1940-1947).  Pateros Mining Co. (1943).  Ore: Gold, silver, copper.  Ore min: Pyrite, chalcopyrite.  Gange: Quartz, carbonate minerals.  Deposit: Sheared zones up to 6 ft. thick but av. less than 2 ft. in granite along margins of “andesite” dikes contain small scattered pods of shipping-grade ore.  Dev: 1,200 ft. of underground workings on 3 levels. A block of ore 75 ft. long, 30 ft. high, and up to 6 ft. thick was stoped above the upper adit in early days.  Assays: $6 to $30 per ton, mostly in gold. 7 tons shipped in 1940 showed 0.63 oz. Au, 0.80 oz. Ag. 0.17% Cu.  Prod: Reported 80 carloads of ore prior to 1897 valued at $72,000. 1940, 1941.  Ref: 157. 158.

Summit (77)  
(see also Alice)


Summit (31)  
(see under silver)

Summit (243)  
(see under lead)

Sunnyside  

Sunshine  
(see Hidden Treasure)

Sunshine Chief  
(see Chief Sunshine under silver)

Surprise (269)  
(see under silver)

Teddy Roosevelt  
(see Roosevelt under iron)

Thomas  
(see Hill-Thomas under silver)

Three Links  

Tom Hal  
(see Friday)

Treasury  

Triangle  
(see Hidden Treasure)
Trinidad (see Central under silver)

Trinity (47)

Triune (Crescent) (58)
(see also Jessie, Occident)

Tuesday (209)

Twin Pine (252)
(see under zinc)

Twisp View (172)

Uncle Sam (see under silver)

Utica (96)

Valley View (149)

Virginia

Wannacut Lake (45)

War Eagle (61)
(see also Alice)

War Eagle (see under silver)

Warsaw

Wasco (241)
(see under silver)

Washington (210)
(see also Oregon)

Washington Consolidated (see Mineral Hill under silver)

Wauconda (141)

Weche (71)

Western Star (129)
(see under copper)

Whiskey Hill

Whitestone (136)

Willman (see Harts Pass)

Windfall (see under silver)

Windsor (see Detroit-Windsor)
Lode Gold Occurrences—Okanogan County

Wolverine (162)

Wyandotte (14)

Yakima (115)
(see under copper)

Yellow Girl
(see under copper)

ACIFIC COUNTY

Chetlo Harbor (1)
(see also Chetlo Harbor under iron)

END OREILLE COUNTY

Ace High (8)
(see under silver)

Best Chance
(see Rainbow under copper)

Blazing Star

Blue Jim (15)
(see under silver)

Bornite (30)
(see under copper)

Bromide
(see La Sota under silver)

Calispell (25)
(see under copper)

Campbell (27)
(see under copper)

Champagne-Hoosier
(see Hoosier under copper)

Cliff (2)
(see under zinc)

Copper Queen (1)
(see under copper)

Cougars (7)
(see under copper)

Deenier (5)

Eagle
(see Ries under lead)

Fairview Copper
(see Skippy and Queen Bess under lead)

Farmer Jones

Fissure
(see under silver)

General MacArthur (31)
(see under lead)

Gilbert (33)

Glass
(see General MacArthur under lead)

Gold Arrow
(see Ries under lead)

Gold Coin-Hardtack (26)
(see under silver)

Golden Anchor
(see Ries under lead)

Grandview (Reuther) (4)
(see under silver)

Gray Eagle
(see Hawkeye-Gray Eagle-Last Chance under copper)

Gypsy (6)
(see under copper)

Hansen (36)

Hardrock Thomas (20)
(see under copper)

Hardtack
(see Gold Coin-Hardtack under silver)

Hawkeye-Gray Eagle-Last Chance (28)
(see under copper)

Holbeck
(see Bornite under copper)

Hoosier (12)
(see under copper)

Huffman
(see Mule Deer under lead)

Independence (29)
(see under silver)
Isabelle (19)  
Loc: SE¼NW¼ sec. 26, (34-44E), Newport dist. Access: Road. Prop: 1 unpatented claim. Owner: Axel E. Walgren, Newport, Wash. (1941). Ore: Gold, silver, copper. Ore min: Chalcopyrite, azurite, pyrite, polybasite. Deposit: Said to be a mineralized quartz vein which varies from a few in. to 4 ft. in width. Vein has been exposed for 70 ft. in one adit. Dev: 65-ft. adit, 75-ft. adit, both caved. Assays: High-grade ore assayed in 1921 showed $15.00 Cu, $3.00 Au, $2.00 Ag. Representative sample showed 0.4% Pb, 0.6% Zn, 0.2 oz. Ag. Ref: 29, p. 66. 130, p. 45.

Katydid  
(see Ries under lead)

La Sota (16)  
(see under silver)

Last Chance  
(see Hawkeye-Gray Eagle–Last Chance under copper)

Little Noisy (11)  
(see under zinc)

McCann (21)  
(see under copper)

Midas  
(see Ries under lead)

Mule Deer (17)  
(see under lead)

Nevell (37)  

O. K. (14)  
(see under silver)

Oriole (13)  
(see under zinc)

Pat (9)  
(see under lead)

Proudy (10)  
(see under silver)

Queen Bess  
(see Skippy and Queen Bess under lead)

Rainbow (22)  
(see under copper)

Reidt (34)  
(see under copper)

Reuther  
(see Grandview under silver)

Ries (32)  
(see under lead)

Rocky Creek (16A)  
(see under silver)

Silver Crest  
(see La Sota under silver)

Silverado  
(see Z Canyon under lead)

Skippy and Queen Bess (18)  
(see under lead)

Snyder (23)  
(see under copper)

Star (Independence)  
(see Independence under silver)

Star (Campbell)  
(see Campbell under copper)

Sunrise (35)  

Victory (24)  
(see under copper)

West  
(see Blue Jim under silver)

Wold (38)  

Z Canyon (3)  
(see under lead)

Pierce County

Bear Gap  
(see Fife under Yakima County)

Black Hawk (10)  

Blazing Star  

Blue Bell  
(see Fife under Yakima County)

Blue Grouse and Sure Thing (5)  

Blue Star  
(see under copper)

Boston  

Campbell (6)  
Loc: Sec. 36, (17-10E), on S. end of Crystal Mtn. at the head of Silver Cr. Elev: 5,500 to 6,000 ft. Access: 3 mi. by trail from end of Morse Cr. road. Prop: 5 unpatented claims. Ore: Gold. Ore min: Free gold. Deposit: Small quartz veins in volcanic rock. Both veins and volcanics reputedly carry gold values. Assays: Gold values from 20¢ to a few dollars per ton. Ref: 158.

Cascade  
Silver Creek Gold & Lead (3)  
Loc: Sec. 12, (17-10E), Summit dist. Access: 35 mi. by road to railroad at Enumclaw. 60 mi. by road to copper smelter at Tacoma. Prop: 6 unpatented claims and a millsite. Owner: Silver Creek Gold & Lead Corp., Seattle, Wash. (1951—__). Ore: Gold, silver, lead, zinc, copper. Ore min: Arsenopyrite, pyrite, chalcopyrite, galena, sphalerite. Deposit: Rhyolite cut by fault zone 1 to 4 ft. wide containing limy gouge and bands of quartz with sulfides. Dev: 100-ft. crosscut with 100-ft. drift. Improv: Small cabin, rails, mine car, 10-ton ore bin (1951). Prod: 20 tons (1945) reported to have contained $89.75 per ton in gold, silver, lead, copper. Unknown amount of placer gold has been produced from stream gravels. Ref: 133, p. 39, 157.

Star (11)  

Sure Thing  
(see Blue Grouse and Sure Thing)

Surprise (2)  
(see under copper)

Tacona  
(see under copper)

Washington Cascade (New Deal) (9)  
(see also Tacoma under copper)  

Welcome  

SKAGIT COUNTY

Anacopper (2)  
(see under copper)

Bald Mountain (6)  
(see under copper)

Big Shot  

Bornite  
(see North Coast)

Boston (16)  
(see under lead)

British  
(see Skagit Queen under silver)

Cascade (24)  
(see under lead)

Chicago (17)  
(see under lead)

Denver  
(see under silver)

Devils Mountain  
(see Mount Vernon under nickel)

Dispassi  
(see under copper)
Dorothy
(see Thunder Creek under lead)

Eldorado (12)
(see under silver)

Epoch (25)
(see under lead)

Everett
(see Willis and Everett under silver)

Everett Extension
(see under silver)

Fidalgo
(see Stephens under copper)

Fidalgo Island (3)
(see under copper)

Fourth of July (26)
(see under silver)

Friend (19)
(see under silver)

Gold Run (20)

Great Northern

Hartford (15)
(see under lead)

Johnsburg (23)
(see under lead)

Lakeside
(see under lead)

Logan No. 2 (10)
(see under silver)

Marine

Matrix (4)
(see under copper)

Midas (21)
(see under silver)

Mount Vernon (5)
(see under nickel)

North Coast (Bornite) (7)

Ontario (13)
(see under lead)

Pacific
(see Mount Vernon under nickel)

Sierra Grande (14)
(see under lead)

Silver Tip (9)
(see under lead)

Skagit Queen (8)
(see under silver)

Soldier Boy (18)

Stephens (1)
(see under copper)

Thunder Creek
(see under lead)

Ventura (22)
(see under silver)

Willis and Everett (11)
(see under silver)

SKAMANIA COUNTY

Athens
(see under copper)

Bronze Monarch (9)
(see under copper)

Brown and Livingston (21)
Loc: On Granite Cr., a tributary of McCoy Cr., 3 mi. above the mouth of McCoy Cr., probably in sec. 15, (10-8E). Ore: Gold, silver. Assays: $6.00 to $30.00 Au. Ag. Ref: 158.

Bruhn (16)

Camp Creek (17)

Chicago (13)
(see under copper)

Chief
(see Ripper and Chief under copper)

Coe
(see Sweden under copper)

Copper Dyke
(see under copper)

Earl
(see Samson under copper)

Fisher

Germania (3)
Golconda (5)


Gold Creek
(see Zinc Creek under zinc)

Grizzly Creek (6)


Independence (1)
(see under copper)

Index (7)
(see under copper)

Johnson (18)


Juanita
(see under copper)

Knudson and Myers


Last Chance (24)
(see under copper)

Livingston
(see Brown and Livingston)

Martha Washington
(see Bronze Monarch under copper)

Maybee (27)
(see under copper)

Minnie Lee (2)
(see under copper)

Mount Fairy (14)


Mountain King
(see under copper)

Myers
(see Knudson and Myers)

Norway (12)
(see under copper)

P. F. R.

Perry (19)


Plamondon (22)


Polar Star (8)
(see under copper)

Primary Gold (20)

Loc: Sec. 10, (10-8E), on both sides of Camp Cr. Access: 4 mi. by trail from the end of Niggerhead road. Prop: 18 unpatented claims: Jim Nos. 1 to 6; Inez Nos. 1 to 4; Eva Nos. 1, 2, and 5; Jim No. 8; Iline; O Bill; Orell. Owner: Primary Gold Co., Yakima, Wash. (1938). Ore: Gold, silver, and platinum reported. Deposit: 30-ft. ledge of coarsely crystalline pyrite in quartz gangue. This carries only traces of gold, but narrow stringers of free gold in quartz cut the pyrite. Dev: Numerous open cuts, some placering. Assays: Said to range from $2.10 to $1,500.00 per ton. Prod: Has produced (probably small amount). Ref: 58, p. 55, 158.

Rainbow (25)
(see under copper)

Ripper and Chief
(see under copper)

St. Helens
(see Sweden under copper)

Samson (4)
(see under copper)

Skamania (23)
(see under copper)

Sweden (10)
(see under copper)

Yellow Metals (15)
(see under copper)

Young America (11)
(see under copper)

Zinc Creek (26)
(see under zinc)

SNOHOMISH COUNTY

Ajax (111)

Ala-Dickson (68)
(see under copper)

Alleghany
(see Foggy under copper)

Alpha


Alta (142)
Loc: Sec. 6, (28-11E), Silver Cr. dist. Owner: Clara Thompson, Index, Wash. Ore: Gold, silver, lead, copper. Ref: 158.

Anaconda (176)
Annie

Annie Laurie and Ethel (114)

Argonaut and Typo (115)

Arlington (32)
(see under copper)

Bald Mountain (33)
(see under copper)

Baltimore (51)

Bangor Creek (45)
(see under copper)

Bear (143)
Loc: Sec. 6, (28-11E), Silver Cr. dist. Owner: Clara Thompson, Index, Wash. Ore: Gold, silver, lead, copper. Ref: 158.

Beatrice
(see Sunset and Beatrice under lead)

Beckler River
(see under copper)

Bell and Crown (65)
(see under copper)

Ben Butler (144)

Ben Lomond
(see Rainy)

Bergersen
(see Taylor & Nunn)

Big Bear and Butte (31)

Big Copper (84)
(see under copper)

Big Raymond (210)

Billy Lee (145)
(see under lead)

Black Hawk (193)

Blomquist (42)
(see under copper)

Blue Bird (4)

Blue Bird (177)

Blue Rock (92)
(see under copper)

Bluebell (146)
Loc: Sec. 6, (28-11E), at Mineral City, Silver Cr. dist. Owner: Clara Thompson, Index, Wash. Ore: Gold, silver, lead, copper. Ref: 158.

Bluff (147)

Bon Ton (87)
(see under copper)

Bonanza
(see Mineral Center)

Bonanza Queen (46)
(see under copper)

Border Queen (75)
(see under copper)

Borneite
(see Bangor Creek under copper)

Boston
(see under copper)

Broken Ridge (178)
(see under copper)

Brooklyn (93)
Buckeye (235)
(see under copper)

Bullet (41)
(see under copper)

Bullion King
Loc: Silver Cr. dist. Ore: Gold, silver, copper, lead. Ref: 158.

Bunker Hill
(see Copper Belle under copper)

Burns (6)

Butte and Big Bear
(see Big Bear and Butte)

Calumet
(see Glacier Peak under copper)

Calumet (200)

Caplin-Holbrooke (116)

Cascade (232)
(see under copper)

Cassidy (112)

Castle (211)

Champion (148)

Charlotte (230)
(see under copper)

Clara Thompson
(see Jasperson)

cleveland (47)
(see under copper)

Colts (78)
(see under copper)

Commercial (194)
(see under copper)

Commonwealth

Commonwealth
(see Jasperson)

Consolidated

Cooperative (195)
(see under copper)

Copper Belle (229)
(see under copper)

Copper Chief (149)
(see under copper)

Copper Cliff

Copper Independent (Independent) (48)
(see also Ore Recoveries under copper)

Copper Prince (49)

Copper Queen (39)
(see under copper)

Copperhead (50)
(see under copper)

Cora M (135)

Cornucopia (82)
Corona (136)  
(see under silver)

Courtney (19)  
(see under copper)

Covered Wagon (179)  
(see under copper)

Crown  
(see Bell and Crown under copper)

Crown Point (150)  
(see under lead)

Dahl  
(see Eclipse)

Daisy (137)  

Damm  
(see under copper)

Darrington (Elwell-Darrington)  
(see Elwell-Darrington)

Darrington  
(see Gold Mountain under copper)

Deerfly (81)  
(see under lead)

Del Campo  

Delco and Marengo (117)  

Delta  
(see under copper)

Dewey (180)  

Diamond Hitch (212)  
(see under copper)

Double Eagle (77)  

Dry Creek  

Eclipse (Dahl) (51)  

Edison (215)  
(see also Mineral Center)


El Dorado (105)  
(see under copper)

Elmo  
(see Gold Bar and Elmo under lead)

Elwell-Darrington (20)  

Emma Bess (151)  

Emma Moore (118)  
(see under lead)

Emma No. 2  
(see under lead)

Engdahl (152)  
(see Martin Engdahl under lead)

Ethel  
(see Annie Laurie and Ethel)

Ethel (231)  
(see under copper)

Ethel Consolidated  
(see Ethel under copper)

Etruria  
(see under lead)

Eureka (78)  
(see under copper)

Everett (52)  
(see under copper)

Evergreen (181)  
(see under copper)

Fanny (53)  
Feldt (11)  
(see under silver)

Florence-Rae (233)  
(see under copper)

Florence Rae (Rudebeck-Florence Rae) (201)  
(see under copper)

Foggy (106)  
(see under copper)

Forest Hope (7)  
(see under copper)

Fortunate  

Loc: Monte Cristo dist.  
Ore: Gold, silver.  
Deposit: Mineralized zone at contact of peridotite with slaty quartzite.  
Prod: Reported to have produced some ore.  
Ref: 14, p. 20. 149, p. 830.

Fortunate (214)  

Loc: Sec. 32, (29-11E), 1 mi. NE. of Mineral City, Silver Cr. dist.  
Ore: Gold, silver.  
Prod: Reported to have produced some ore.  
Ref: 14, p. 28.

45° (66)  
(see under silver)

Garfield  
(see under lead)

Gettysburg (153)  
(see under lead)

Gift  

Loc: On the divide between Goat Lk. and the N. Fk. of Sauk R., Monte Cristo dist.  
Ore: Gold, silver.  
Ore min: Pyrite.  
Deposit: 6-ft. quartz vein.  
Dev: 15-ft. adit.  
Ref: 14, p. 23. 63, pp. 16-17.

Glacier Peak (80)  
(see under copper)

Glengarry  
(see under silver)

Glory of the Mountain (94)  

Prop: 7 claims.  
Ore: Gold, silver.  
Ore min: Arsenopyrite, pyrite.  
Deposit: Wide mineralized fracture zone contains an ore body 20 ft. wide.  
Dev: 40-ft. adit.  
Assays: $21 to $27 Au, $1.80 to $4.80 Ag.  
Prod: Has produced.  
Ref: 14, p. 23. 58, p. 63. 63, p. 16.

Golconda  
(see under lead)

Gold Bar (215)  
(see under copper)

Gold Bar and Elmo  
(see under copper)

Gold Boy (154)  

Loc: Sec. 7, (28-11E), on W. side of Silver Cr.  
Ore: Gold.  
Deposit: 15-ft. vein with 2 ft. of ore.  
Dev: 20-ft. adit.  
Assays: $18 Au.  
Ref: 14, p. 32. 63. 31.

Gold Eagle (216)  

Loc: Sec. 29, (29-11E), on Silver Tip Mtn., Silver Cr. dist.  
Prop: 3 claims.  
Ore: Gold, copper.  
Ore min: Chalcopyrite, chalcocite, arsenopyrite.  
Deposit: 5-ft. vein.  
Dev: 175-ft. adit.  
Assays: $12 to $15 Au.  
Ref: 14, p. 32. 63. p. 29.

Gold Mountain (10)  
(see under copper)

Gold Standard (155)  

Loc: NW1/4 sec. 5, (28-11E), Silver Cr. dist.  
Ore: Gold, silver.  
Dev: Open cut.  
Ref: 63, p. 29.

Golden Chord (34)  

Loc: NW1/4 sec. 12, (30-9E), Silverton dist.  
Ore: Gold, silver, copper.  
Ref: 63, p. 22.

Golden Chord  
(see Justice)

Golden Eagle (203)  
(see under molybdenum)

Good Hope (119)  

Loc: Sec. 33, (29-11E), 2 mi. from Monte Cristo.  
Access: Road from Mineral City.  
Good Hope Gold & Copper Mining Co. (1899).  
Ore: Gold, silver, copper, lead, zinc, vanadium.  
Dev: About 2,000 ft. of adits.  
Prod: Reportedly 1 carload in 1909.  

Granite and Maud (54)  

Loc: SW1/4 sec. 20, (30-10E), on Silver Gulch, Silverton dist.  
Ore: Gold, silver, lead.  
Ore min: Arsenopyrite, galena.  
Deposit: 2 veins, one of which carries 8 in. of ore.  
Dev: 30-ft. shaft, 40-ft. adit.  
Assays: $43 Au, Ag.  
Ref: 14, p. 43. 63, pp. 18-19.

Granite Mountain  
(see under copper)

Grant (120)  

Loc: Sec. 27, (29-11E), Monte Cristo dist.  
Ore: Gold.  

Gray Mare (12)  
(see under silver)

Gray Rock (1)  

Owner: D. A. Witcher, Darrington, Wash. (1942).  
Ore: Gold.  
Ore min: Pyrite.  
Deposit: Small quartz stringers carrying pyrite and cutting granitic rock.  
Dev: One 50-ft. adit.  
Ref: 14, p. 8.

Great Northern (72)  

Loc: NW1/4 sec. 35, (29-9E), on S. side of Sultan R.  
Access: Road up Sultan R.  
Prop: 3 claims.  
Ore: Gold, copper, silver.  
Ore min: Chalcopyrite, pyrite.  
Deposit: Mineralized shear zone 60 ft. wide along a contact between granite and slate. Ore minerals are disseminated throughout the zone.  
Assays: Av. of 6 assays showed $32 Au, $3.45 Cu, $1.76 Ag.  

Great Scott (138)  

Loc: Sec. 3, (28-11E), Silver Cr. dist.  
Prop: 7 claims.  
Ore: Gold, silver, copper.  
Ore min: Arsenopyrite, chalcopyrite, pyrite.  
Deposit: 40-ft. vein between granite and slate walls carries 3 to 18 in. of ore.  
2 other veins 5 and 10 ft. wide.  
Dev: 30-ft. crosscut, open cuts.  
Assays: $58 to $56 Au, 2% to 3% Cu.  
Ref: 14, p. 33. 63. p. 32.

Green Crown (13)  
(see under copper)

Grizzly  
(see under copper)

Gunn Peak (198)  
(see under copper)
Inventory of Washington Minerals—Part II, Metallic Minerals

Gypsy Queen (156)
(see under lead)

Hammond
(see Keystone under copper)

Hancock (217)
(see under copper)

Hannah (14)
(see under copper)

Hard Pass (204)
(see under copper)

Harley

Hecla (35)
(see under copper)

Helena (30)
(see under copper)

Helena and Sadie (205)
(see under copper)

Hiawatha (121)

Hicks
(see Sultan King under copper)

Highland (29)
(see under copper)

J. J. Hill

Holbrooke
(see Caplin-Holbrooke)

Homestead
(see Cascade under copper)

Hoodoo (55)
(see under copper)

Hope (157)

Horseshoe and Treasure Box (206)

Howard
(see Cooperative under copper)

Hunter (21)
(see under copper)

Idaho (158)
(see under lead)

Imperial (56)
(see under copper)

Independent
(see Copper Independent)

Index
(see Lake Serene under copper)

Index Gold Mines, Inc. (182)

Index-Independent
(see Lake Serene under copper)

Iowa (Mint) (202)
(see under copper)

Iowa (Washington-Iowa)
(see Washington-Iowa under copper)

Iron Clad (183)

Iron Mountain

Isabel
(see Red Cross under copper)

J. B. (122)

Jackson
(see St. Louis and Jackson under copper)

Jamboree (159)
(see under copper)

Jaspersn (Clara Thompson, Webster, Commonwealth, McCombs) (160)

Jesse (22)

Jessie (218)
Jim Dandy (161)


John Newhouse (70)


Jones

(see Kromona under copper)

Jumbo (219)


Jumbo


Justice (Golden Chord) (123)


Justin (8)


Kena and Troly

(see Skrindle under copper)

Keystone (100)


Keystone (74)

(see under copper)

Keywinder (23)

(see under copper)

Kromona (209)

(see under copper)

Lake Serene (238)

(see under copper)

Lakeview Extension (79)


Lalla Rookh

(see Tobique and Lalla Rookh)

Larson (2)

(see under lead)

Last Chance (184)


Last Dollar (182)

(see under copper)

Last Hope


Le Roy (90)

(see under silver)

Lida (220)

(see under copper)

Lily James (57)


Lily of the West (95)


Little Chief (69)

(see under copper)

Little Giant (107)


Lockwood (164)

(see under lead)

Lockwood Pyrite (73)

(see under iron)

Lost Creek (196)

(see under copper)

Louise

(see Mineral Center)

Lucky Joe (166)


Lulu (58)


M and H No. 2 (165)

McCombs  
(see Jasperson)

McKinley (185)  
Loc: Sec. 18, (28-11E), on E. side of Silver Cr. Ore: Gold. 
Ref: 14, p. 34.

Mackinaw (89)  
(see under copper)

Magus  
(see "43" under silver)

Manley (24)  
(see under copper)

Marengo  
(see Delco and Marengo)

Martin Engdahl (163)  
(see under lead)

Maud  
(see Granite and Maud)

Mayflower (186)  
Ore min: Pyrite. Deposit: 20-ft. shear zone with from 8 to 36 
in. of ore. Dev: 30-ft. adit. Assays: $12 Au. Ref: 14, p. 35, 63, 
p. 31.

Michigan (187)  
Loc: NE ¼ sec. 18, (28-11E), on W. side of Silver Cr. Owner: 
shale zone with from 2 to 15 in. of ore. A 2- to 3-ft. cross 
shear zone with from 1 in. of ore. Dev: 70-ft. adit. Assays: $40 to 

Miiki Maru (207)  
Loc: Sec. 36, (29-10E), just below Sheep Gap, Silver Cr. 
dist. Ore: Gold, silver, copper. Ore min: Chalcopyrite, pyrite. 
Deposit: Mineralized shear zone with from 14 to 48 in. of ore. 
Assays: $17 Au, 4 oz. Ag, 3% Cu. Ref: 14, p. 35. 63, p. 30.

Milwaukee (67)  
(see under zinc)

Mineral Center (Bonanza, Edison, Louise, Washington-
Iowa) (221)  
(see also Edison under gold, Washington-Iowa under copper)

Loc: W½ sec. 32, (29-11E), ¼ mi. E. of Red Gulch on N. 
side of Silver Cr. Elev: 3,500 ft. Access: 1¼ mi. by trail from 
Mineral City. Prop: 13 claims, 10 of which are patented: Rattler, 
Emma, White Rose, Jessie, Monarch, Red Rose, Louise, Louise 
Fr., Jumbo, Blackbeard, Blue Bird, Torino, Edison. Owner: 
Mineral Center Mining Co., Tacoma, Wash. (1919-1951). Bon-
anza Mining & Smelting Co. (1902-1918). Ore: Gold, copper, 
silver, lead, zinc. Ore min: Pyrite, chalcopyrite, malachite, 
azurite, galena, arsenopyrite, pyrrhotite, sphalerite, molybde-
nite. Gangue: Sillified rock. Deposit: Mineralized shear zones 
in metasediments. One zone is 40 ft. wide and contains abun-
dant pyrite and some chalcopyrite. Dev: Workings on 3 
levels total 3,500 ft. Improv: 5 buildings, sawmill, compressor, black-
smith shop, and hand tools (1948). Assays: Various assays 
show from 0.04 to 0.18 oz. Au, 0.04 to 0.32 oz. Ag. The large 
zone assays 0.10 oz. Au, 0.38 oz. Ag. Ref: 88, p. 74. 97, 1907, 
p. 476. 98, 1918, p. 60. 150, p. 30, 156.

Mineral Mines (167)  
(see under copper)

Minnehaha (126)  
Loc: Sec. 33, (29-11E), on E. side of the E. Fk. Silver Cr. 
Prop: 1 claim. Owner: John A. Campbell (1892). Ore: Gold, 
shale zone from 6 to 20 in. of ore. Dev: 60-ft. adit. Assays: 
$30 to $65 Au, Ag. Ref: 13, p. 162. 14, p. 35. 63, p. 28.

Mint  
(see Iowa under copper)

Molly  
Loc: On Jumbo Mtn., Darrington dist. Prop: Group of 
claims. Owner: Mr. Neste et al. (1910). Ore: Gold, silver, 
copper. Dev: 170-ft. adit, 50-ft. adit. Assays: Av. value of 
$15 Au, Ag, Cu, more than half of which is Au. Ref: 14, p. 10, 
88, p. 63.

Monitor and Sterling (40)  
(see under copper)

Monte Cristo (Mystery, Pride) (113)  
Loc: Sec. 26, (29-11E), 1 mi. E. of Monte Cristo. Elev: 3,000 
to 5,600 ft. Access: Trail from Monte Cristo. Prop: 14 claims, 
including: Pride of the Woods, Pride of the Mountains, Mystery, 
Galore, Eighty Nine, Baltic. Owner: H. S. Oftsite, Everett, 
Monte Cristo Metals Co. (1907). Puget Sound Reduction 
Co. (1907-1918). Boston-American Mining Co. (1922- 
1926). Ore: Gold, silver, lead, zinc, copper. Ore min: Arseno-
pyrite, pyrite, chalcopyrite, galena, sphalerite, jamesonite, real-
gar. Gangue: Quartz, calcite, sheared rock. Deposit: Shear 
zone in schist and tonalite contains lenses of sulfide ore from 
100 to 300 ft. in dia. and 1 to 5 ft. thick. Mineralization in 
other minor fractures. Dev: 3 main levels of adits and several 
smaller adits. Total underground work about 12,000 ft. Assays: 
0.20 oz. Au, 3.00 oz. Ag, more than 6% As. Other assays showed 
for surface ores: 0.93 oz. Au, 12 oz. Ag, 4% Cu, 5% Pb; for 
deeper ores: 0.6 oz. Au, 7 oz. Ag, 1% Cu, 2% Pb. Pred: 
300,000 tons of ore. The ore came mainly from the Mystery 
and Pride claims above the 700-ft. level. Ref: 13, p. 148. 14, 
71-72. 97, 1907, p. 475. 98, 1918-1926. 100, 1897, p. 180. 112, 
p. 197. 132, pp. 130-134. 149, pp. 803-804, 813, 818-821, 841. 
158. 159, p. 136.

Morning Star (139)  
(see under lead)

Mountain Cedar (71)  
(see under copper)

Mountain Goat  
(see under lead)

Murdock  
(see under lead)

Myrtle C. (9)  
(see under copper)

Mystery (Mountain Cedar, Paystreak)  
(see Mountain Cedar under copper)

Mystery (Monte Cristo, Pride)  
(see Monte Cristo)

National (222)  
(see under copper)

Nemo (59)  
Loc: NW¼ sec. 17, (30-10E), Silverton dist. Prop: 5 claims. 
Ore: Gold, silver, copper. Ore min: Chalcopyrite, arsenopyrite. 
Deposit: Quartz vein. Dev: 175-ft. adit at valley level. Assays: 
$8 to $15 Au, Ag. Ref: 14, p. 45. 63, p. 21.
Nesta (25)
(see under copper)

Nevada (96)
(see under copper)

New Seattle (36)
(see under silver)

New York (60)
(see under copper)

New York-Seattle (140)
(see under copper)

Non Pareil (197)
(see under copper)

North Star
(see Sunrise)

Northwest Consolidated

Nunn
(see Taylor & Nunn)

O and B (101)
(see under copper)

Occidental (85)

Old Gray Mare
(see Gray Mare under silver)

Oldfield
(see Sunrise)

Ontario (171)
(see under lead)

Ore Recoveries (61)
(see under copper)

Oro Fino (183)
(see under copper)

Orphan Boy (125)
(see also Silver Queen)

P. and I. (102)

Paystreak
(see Mountain Cedar under copper)

Peabody (124)
(see also Sidney)

Pelican (26)

Penn
(see Foggy under copper)

Perm
(see under copper)

Pride
(see Monte Cristo)

Pride of Index
(see Lake Serene under copper)

Q. T. (127)
(see also Silver Queen)

Queen Anne (27)

Rainy (Ben Lomond) (103)

Red Cloud (169)

Red Cross (228)
(see under copper)

Remonille (141)
Republican (109)
(seen under lead)

Ruby King (188)

Rudebeck-Florence Rae
(see Florence Rae under copper)

S. M. P. (170)
(seen under zinc)

Sadie
(seen Helena and Sadie under copper)

St. Louis (173)
(see under copper)

St. Louis and Jackson (37)
(see under copper)

Sam Strom (5)
(see under copper)

Scriber
(see Kromona under copper)

Seattle

Seventy Six (128)
(see under lead)

Shirley (189)
(see also Skrine under copper)


Sidney (129)
(see also Peabody)


Silver Coin (38)
Loc: NW¼ sec. 11, (30-9E), on Marten, Cr. just W. of Silverton. Elev: 2,700 to 3,500 ft. Access: 3½ mi. by bulldozer road from highway, 40 mi. to railroad. Prop: 4 claims: Silver Coin Nos. 1 to 4. Owner: Silver Coin Mining Co., Lake Stevens, Wash. (1950). Ore: Gold, silver, lead, copper, bismuth, zinc. Ore min: Chalcopyrite, pyrite, chalcopyrite, pyrite, sphalerite, pyrrhotite, pyrite. Gangue: Quartz, sericite, chlorite. Deposit: Mineralized fractures in granite. Widest mineralized zone was 3 ft., though a zone 12 ft. wide has been hydrothermally altered. Dev: Caved adit said to be 187 ft. long. Assays: Grab sample of coalite ore showed 0.94 oz. Au, 98.78 oz. Ag, 2.20% Cu, 8.8% Bi, 12.2% Zn, 0.1% Pb. Chip sample across 4-ft. width showed 2.5% Zn, 0.5% Pb, 0.01% Bi, 1.40 oz. Ag, 0.005 oz. Au. Chip sample across 3-ft. width showed 10.1% Zn, 1.4% Pb, 0.01% Bi, 4.70 oz. Ag, tr. Au. Ref: 69, p. 14. 157. 158.

Silver Creek
(see Broken Ridge under copper)

Silver Horseshoe (83)
(see under silver)

Silver Lake (130)

Silver Queen (131)

Silver Slipper (172)

Skride (190)
(see under copper)

Sloman (15)

Standard
(see under lead)

Steele (88)

Sterling
(see Monitor and Sterling under copper)

Sultan King (208)
(see under copper)

Sultan Queen
(see Sultan King under copper)

Sunday Star

Sunrise (North Star, Oldfield) (16)
Loc: NE¼NE¼ sec. 29, (29-9E). Access: 5 mi. by road 1 railroad near Darrington. Prop: 4 claims. Owner: W. E. Oldfield, Seattle, Wash. (1931-1932). Ore: Gold, silver, copper lead, zinc, molybdenum. Ore min: Chalcopyrite, galena, molybdenite, arsenopyrite, sphalerite, pyrite. Gangue: Quartz. Deposit: Narrow fractures cutting granite are filled with quartz and ore minerals. Dev: 2 adits aggregating 155 ft. Assays: $0.08 to 0.55 oz. Au, 1.3 to 9.1 oz. Ag, 0.8% to 1.67% Cu, 0.1% Mo, 0.1% As. Ref: 14, p. 10. 133, p. 40.

Sunrise (66)
(see under copper)
Sunset (234)
(see under copper)

Sunset (97)
Deposit: Fracture zone carrying 3 ft. of ore. Assays: $35 Au, Ag. Ref: 14, p. 25, 63, p. 16.

Sunset and Beatrice (181)
(see under lead)

Taylor & Nunn (Bergensen, Tum Tum) (17)

Texas (192)

Threadwell

Three Sisters (62)

Three Star (98)

Tobique and Lalla Rookh (104)

Treasure Box
(see Horseshoe and Treasure Box)

Troly
(see Skrinde under copper)

Troublesome Pass
(see under silver)

Tum Tum
(see Taylor & Nunn)

Twentieth Century (132)
(see under silver)

Typo
(see Argonaut and Typo)

Uncle Sam (199)
(see under copper)

Undaunted (223)

Union (99)

Vandalia (175)
(see under lead)

Victory

Virginia (63)
(see under copper)

Washington-Iowa (225)
(see Mineral Center, and see also Washington-Iowa under copper)

Wayside (42)
(see under copper)

Webster
(see Jasperson)

Weden Creek
(see Mackinaw under copper)

Welman (3)

Westland (174)
(see under copper)

Whealback (224)

Whistler (110)
(see under lead)

White Gander (28)
(see under copper)

Whitehorse (16)
(see under zinc)

Wilbur Index
(see Lake Serene under copper)

Wild Rose (226)
(see under copper)

Wildcat (133)

Wilmon Peak

Winnie (227)
(see under copper)

Winter Coon (64)

Yankee Boy (44)
(see under copper)
Yellow Jacket


Zeta (134)

Loe: Sec. 34, (29-37E), about 1 mi. E. of Silver Lk. on the Monte Cristo side of the divide. Ore: Gold, silver, copper. Ore min: Pyrite, chalcopyrite, bornite. Deposit: 3 parallel mineralized fractures. One shows from 8 to 24 in. of ore, another shows 2 to 10 in. of ore. Dev: 15-ft. adit, several open cuts. Assays: $5 to $8 Au, $3 to $11 Ag. Ref: 14, p. 26. 63, p. 27.

STEVEN'S COUNTY

A and C (131)

(see under copper)

Abe Lincoln (41)


Abe Lincoln (Comstock)

(see Comstock under lead)

Acme (F. H. and C.)

(see F. H. and C.)

Acme (Acme-Dora) (151)

(see under lead)

Admiral (192)

(see under copper)

Advance (101)

(see under zinc)

Aguila (153)

(see under lead)

Al Ki

(see under lead)

Aladdin (Blue Ridge, Sierra Zinc)

(see Sierra Zinc under zinc)

Aladdin (140)

(see under lead)

Alert


Alice

(see under copper)

Alice C (45)


Alice May


Alma (152)

(see under silver)

Amazon (174)

(see under copper)

American Boy (64)


Anaconda (113)

(see under lead)

Antelope (82)


Ark (150)

(see under silver)

Audrey M. (63)

(see under copper)

B and B (170)

(see under copper)

Bald Eagle (32)


Banner

(see Chinto under copper)

Bear Mountain (155)

(see under lead)

Beecher (37)


Belcher (176)

(see under copper)

Belle of the Mountain

Belmont (54)


Benvenue
(see Gold Reef)

Bertha M (157)
(see under lead)

Big Iron (28)
(see under iron)

Big Jim (Sweet Home) (75)

Big Strike (121)

Birton

Black Horse
(see Columbia Tungsten under tungsten)

Black Witch
(see Alma under silver)

Blue Belle

Blue Bird (85)

Blue Goose (15)
(see under copper)

Blue Grass (Katy) (57)

Blue Ridge
(see Sierra Zinc under zinc)

Blue Star
(see Eagle under silver)

Bluebird
(see Loon Lake Copper under copper)

Bonanza Copper (195)
(see under copper)

Brooks (201)
(see under silver)

Bruce Creek
(see A and C under copper)

Bryant (28)
(see under copper)

Bucher

Buck Mountain
(see under silver)

Buffalo (118)
(see under silver)

Bullion (97)
(see under lead)

Burrus (130)
(see under zinc)

Butte (45)

Centennial (76)
(see under copper)

Charity
(see F. H. and C.)

Checops (168)
(see under copper)

Chewelah Consolidated (156)
(see under lead)

Chewelah Eagle
(see Eagle under silver)

Chewelah Standard (183)
(see under lead)

Chinto (175)
(see under copper)

Churchill (30)
(see under copper)

City View (149)

Clara (110)

Coffin (73)
(see under copper)
Colonel Fish
(see Gold Hill)

Columbia
(see Iroquois under zinc)

Columbia River (146)
(see under copper)

Columbia Tungsten (163)
(see under tungsten)

Comstock (31)
(see under copper)

Comstock (Abe Lincoln) (89)
(see under lead)

Contention
(see Mountain View under silver)

Copper Butte (65)
(see under copper)

Copper-Gold
(see Coffer under copper)

Copper Jack (18)
(see under copper)

Copper King (135)
(see under lead)

Copper Queen (173)
(see under copper)

Coyote (105)
(see under lead)

Coyote (Rightside)
(see Rightside under copper)

Coyote (see Coyote under lead)

Crescent
(see Orient, Crescent, and Deadwood under copper)

Daisy
(see Daisy-Tempest under silver)

Daisy-Tempest (160)
(see under silver)

Deadwood
(see Orient, Crescent, and Deadwood under copper)

Defender (59)
(see under zinc)

Dille
(see Pelkey and Dille under copper)

Dora
(see Acme under lead)

Double Standard (90)
(see under copper)

Douglas
(see under tungsten)

Douglas Hunter

Dumboltlon (190)

Eagle (176)
(see under silver)

Eagle Newport
(see Agulla under lead)

Easter Sunday (25)

Easy Money
(see Magma under zinc)

Edna (191)
(see under copper)

Eldorado

Eldorado (Magma)
(see Magma under zinc)

Elmo (74)
(see under copper)

Elvick (93)

Empire

Enterprise

Eureka (Eureka and Orient, Indian, Orient Eureka) (3)

Eureka (Uncle Sam)
(see Uncle Sam under lead)

Eureka and Orient
(see Eureka)
Examiner

Express
(see St. Paul-Express under copper)

F. H. and C. (Faith, Hope, and Charity; or Acme) (13)

Faith
(see F. H. and C.)

Father Lode

Fidelity (52)

First Thought (47)

First Thought Extension (49)

Fissure (24)

Flannigan
(see Iroquois under zinc)

Frisco Standard (119)
(see under silver)

Galena Farm (132)
(see under lead)

Galena Ridge
(see Galena Farm under lead)

Gem (58)

Georgie (70)
(see under tungsten)

Germania (202)
(see under tungsten)

Giant Silver
(see Red Cloud under copper)

Globe (66)
(see under copper)

Gold Bar (127)
Loc: Secs. 15 and 22, (37-38E). Elev: 1,600 to 2,100 ft. Access: 1,000 ft. E. of State Highway 22 by road. 1½ mi. to railroad at Evans. Prop: 120 acres of deeded land in 8 patented claims: Mayflower Nos. 1 to 6 and Contact Nos. 1 and 2. Owner: Gold Bar Mining Co., Bossburg, Wash. (1945-1950). Ore: Gold, silver, copper, lead, zinc. Ore min: Pyrite, tetrahedrite, sphalerite. Deposit: Quartz veins from ½ in. to 8 in. wide filling fractures in quartzite and argillite. Veins sparsely mineralized. Small tonnage of ore exposed. Dev: About 1,000 ft. of workings in 4 adits and 2 inclines. Assays: 7 assays show from 0.005 to 0.15 oz. Au. 1.2 to 62.0 oz. Ag. tr. to 1.3% Pb. tr. to 1.7% Zn. tr. to 0.3% Cu. 1.02% to 2.70% As. Prod: 400-lb. test shipment to Bunker Hill smelter prior to 1945. Ref: 30, pp. 80-81. 69, p. 5. 158.

Gold Fisher and White Bear

Gold Hill (Colonel Fish)

Gold Ledges (143)

Gold Reef (Benevenu, Golden Reef) (145)
Inventory of Washington Minerals—Part II, Metallic Minerals


Gold Stake (14)

Gold Wreath

Golden Hope
(see Sunday)

Golden Reef
(see Gold Reef)

Graves (69)
(see under copper)

Gray Eagle
(see Rightside under copper)

Great Republic (91)
(see under copper)

H. R. H. (122)

Ham (162)
(see under lead)

Harper
(see Pritchard and Harper)

Hartford
(see Krug under copper)

Hecla (179)
(see under copper)

Hi Cliff
(see Uncle Sam under lead)

Hidden Treasure (48)

High Grade
(see Turk under copper)

Highland (115)
(see under lead)

Homestake (77)

Honest John (196)
(see under silver)

Hope
(see F. H. and C.)

Hope and Twin Cabins (86)
(see under copper)

Hubbard (96)
(see under lead)

Indian
(see Eureka)

International (40)

Interstate

Iron Cap
(see Ham under lead)

Iron Horse

Iron Horse (20)
(see under iron)

Iron Mask (10)
(see under zinc)

Iroquois (114)
(see under zinc)

Jay Gould (181)
(see under silver)

Jayhawk (24)
(see under copper)

John Hays (159)
(see under silver)

Juno-Echo (184)
(see under copper)

Katy
(see Blue Grass)

Kemp Komar
(see Loon Lake under copper)

Kepough (120)
(see under lead)

Kettle River
(see White Elephant)
Key West
(see Loon Lake under copper)

King
(see Edna under copper)

Koyotte
(see Rightside under copper)

Krug (164)
(see under copper)

Lake

Lakeside (7)
(see under copper)

Lakeview
(see Roosevelt under silver)

Lem (29)

Liberty Copper (166)
(see under copper)

Little Gem
(see under silver)

Little Giant (12)
(see under lead)

Little Kitten

Lone Star (102)
(see under silver)

Loon Lake Copper (194)
(see under copper)

Lottie (78)
(see under copper)

Lucky Boy
(see Turk under copper)

Lucky Four (123)
(see under silver)

Lutjens (94)

M. and C.
(see U. S. Copper Gold under silver)

McAdoo (182)

McKinley (4)

McNally (21)
(see under copper)

McNess (26)

Magma (136)
(see under zinc)

Margarete (1)
(see under lead)

Maryland
(see Bonanza Copper under copper)

Michigan (50)

Middleport (142)
(see under zinc)

Minnelah (171)
(see under copper)

Minorea (79)
(see under copper)

Mint
(see under copper)

Mogul (11)
(see under copper)

Molly Gibson (87)

Monahan (197)
(see under copper)

Monitor (16)

Montana (83)

Montana and Washington (35)
(see under copper)

Montgomery (189)
(see under copper)
Montgomery (Platsburg)
(see Platsburg under copper)

Moonlite
(see Morning under silver)

Moore (106)

Moraski (111)
(see under copper)

Morning (137)
(see under silver)

Morning Star

Mount Olive (51)

Mountain View (103)
(see under silver)

Mountain View Extension (104)
(see under silver)

Mullen (187)
(see under lead)

Mullen Iron (126)
(see under iron)

Myeerah (117)
(see under lead)

Myrtle
(see under lead)

Mystery (19)
(see under copper)

Nabob (180)
(see under copper)

Napoleon (125)
(see under iron)

Nellie S.
(see Chewelah Standard under copper)

Nest Egg (61)

Newport (Eagle-Newport)
(see Aguila under lead)

Noble Four
(see under copper)

North Star (55)

Northport (99)

O-Lo-Lim (204)
(see under copper)

O'Neal-Schenk
(see Righside under copper)

Ora
(see under copper)

Orazada (203)
(see under silver)

Orient, Crescent, and Deadwood (63A)
(see under copper)

Orient Eureka
(see Eureka)

Oropacum (43)

Orpha (80)
(see under copper)

Pacific Copper (167)
(see under copper)

Pay Streak (88)

Paymaster
(see under copper)

Payne (185)
(see under copper)

Pedivar
(see under silver)

Pedro (84)

Pelkey and Dille (22)
(see under copper)

Pennant (52)

Perry (2)
(see under lead)

Platsburg (165)
(see under copper)
Pomeroy (27)
(see under zinc)

Pop (71)
(see under copper)

Princess

Pritchard and Harper (129)

Quadrangle

Reardon Copper
(see Turk under copper)

Red Cloud (200)
(see under copper)

Red Lion (42)
(see under copper)

Red Sheaf (128)

Redwood
(see Eagle under silver)

Regina (23)
(see under copper)

Revenue
(see under copper)

Rich Four

Rightside (148)
(see under copper)

Rinchaw
(see Middleport under zinc)

Robena
(see Young America under zinc)

Rocky Creek
(see Burrus under zinc)

Rocky Lake (154)
(see under molybdenum)

Roosevelt (112)
(see under silver)

Royal Gold
(see Hubbard under lead)

St. Crispin (107)

St. Paul-Express
(see under copper)

Saratoga

Scandia (100)
(see under zinc)

Schenk
(see Rightside under copper)

Scotia (67)
(see under copper)

Scott (138)

Second Thought (56)

Short Wait (98)
(see under lead)

Sierra Zinc (134)
(see under zinc)

Silent Bell
(see Pop under copper)

Silver Mountain
(see Daisy-Tempest under silver)

Silver Queen
(see Ark under silver)

Smoky Bullion
(see A and C under silver)

Sprague
(see Checops under copper)

Steel Galena
(see Han under lead)

Sterrett (109)
(see under lead)

Stockwell
(see Columbia Tungsten under tungsten)
Sugar Loaf  
(see Vanasse under silver)

Summit (8)  
(see under copper)

Sunday (Sunday Morning Star, Golden Hope) (147)

Sunday Morning Star  
(see Sunday)

Sunnyside  

Sunset (108)  
(see under lead)

Superior Copper (169)  
(see under copper)

Sure Thing (60)

Surprise  
(see Uncle Sam under lead)

Swamp King (38)

Swamp Queen  

Sweet Home  
(see Big Jim)

Syndicate  
(see under copper)

Tempest (161)  
(see under silver)

Thomason Queen (158)  
(see under copper)

Three Orphans (9)  
(see under lead)

Titanic (Valley Dew) (44)

Tom Moore (33)  
(see under lead)

Tramp  
(see under copper)

Treadwell  
(see Iron Mask under zinc)

Trojan (62)

Trophy (53)

Tungsten King (310)  
(see under tungsten)

Turk (199)  
(see under copper)

Twilight (68)  
(see under copper)

Twin Cabins  
(see Hope and Twin Cabins under copper)

U. S. Copper (186)  
(see under silver)

Udeard (6)

Uncle Sam (72)  
(see under copper)

Uncle Sam (Hi Cliff) (130)  
(see under lead)

United Copper (172)  
(see under copper)
United Silver Copper
(see United Copper under copper)

United Treasure (116)
(see under silver)

Valley Dew
(see Titanic)

Van Stone (133)
(see under zinc)

Vanasse (144)
(see under silver)

Victory
(see Vanasse under silver)

Viking (39)
(see under copper)

War Eagle (81)

Washington
(see Montana and Washington under copper)

Wells Fargo (193)
(see under anorthosite)

Western Molybdenum
(see Juno-Echo under copper)

White Bear
(see Gold Fisher and White Bear)

White Elephant (Kettle River) (5)

White Horse (95)
(see under copper)

Wilkinson (141)

Windfall (188)
(see under copper)

Winslow (177)
(see under lead)

Yellow Jacket (17)


Young America (124)
(see under zinc)

WHATCOM COUNTY

Alameda (20)

Allen Basin (28)

Alphetta (25)

American Eagle
(see St. Francis)

Anacortes (27)

Anoka (47)

Azurite (59)
B. C. & M. (51)

Baltimore (30)

Beck and Short Grub (51)

Bird and Saw Pits (53)

Bismarck (54)

Blonden (16)

Bonita
(see New Light)

Boundary Gold
(see Lone Jack)

Boundary Red Mountain (Red Mountain) (11)

Brooks-Willis
(see Lone Jack)

Casa Grande (32)

Chain Lakes (19)
(see under zinc)

Chancellor (Indiana) (33)

Crown Point (26)

Dick
(see Tom, Dick, and Harry)

Eureka
(see New Light)

Evergreen (12)

First Chance (3)

First Find and Ivanhoe (34)

Fourth of July (22)

Galena
(see Verona)
Lode Gold Occurrences—Whatcom County

Gargett (57)

Glacier (see Midas under copper)

Goat (35)
(see also New Light)

Goat Mountain (17)

Gold Basin (8)

Gold Coin (Randall) (55)

Gold Hill (60)
(see under silver)

Gold Ridge

Gold Run (9)

Gold Standard (13)

Golden Arrow
(see Tacoma)
Lone Jack (Mount Baker, Post-Lambert, Brooks-Willis, Boundary Gold) (14)


Lone Star


Maccabee


Mammoth (40)


Mansfield (10)


Midas (2)

(see under copper)

Minnesota

(see Seattle-St. Louis)

Monica

(see New Light)

Monte Cristo


Morley B. (49)


Morovitz


Mount Baker

(see Lone Jack)

Mountain Goat


Myrtle (41)


Nevada City


New Light (Eureka, Bonita, Slate Creek, Monica) (42)

(see also Goat)


Ninety-nine (42)


Nooksack (1)


North American (Velvet) (48)

Northern Cascade
(see Gold Hill under silver)

Peterson
(see Gold Hill under silver)

Pierce

Post-Lambert
(see Lone Jack)

President
(see Great Excelsior)

Randall
(see Gold Coin)

Red Mountain
(see Boundary Red Mountain)

Rockefeller (61)

Ruth Mountain Pyrite (23)
(see under iron)

Saginaw (15)

St. Francis (American Eagle)

St. Louis
(see Seattle-St. Louis)

Saw Pits
(see Bird and Saw Pits)

Seattle-St. Louis (Minnesota) (46)

Shanghai (56)

Short Grub
(see Beck and Short Grub)

J. E. Sigh
(see under copper)

Silver Creek (24)
(see under molybdenum)

Silver Tip (18)
(see under copper)

Slate Creek
(see New Light)

South Mt. Baker

Square Shooter

Sun

Tacoma (Golden Arrow) (44)

Terra Alta

Tom, Dick, and Harry

Trapper (62)

Tripod (45)

Tyler
(see Veredell)

Velvet
(see North American)

Veradell (Tyler) (50)

Verona (Galena) (21)

Walla Walla (57)
White Swan  

Willis  
(see Lone Jack)

Wright (63)  

Yellow Aster  
(see under nickel)

YAKIMA COUNTY  

Bear Gap  
(see Fife)

Black Hawk (2)  

Blue Bell  
(see Fife)

Chinook (11)  
(see under copper)

Comstock (3)  
Loc: SW¼ sec. 29, (17-11E), Summit dist.  Ore: Gold, silver.  Ref: 63, p. 44.

Copper Mining Co. (14)  
(see under copper)

Crown Point (4)  

Dampino (5)  

Dry Spring (6)  

Elizabeth Gold Hill (10)  

Eva  

Fife (Bear Gap, Pickhandle, Manitau, Blue Bell) (7)  
Loc: Sec. 31, (17-11E), along the Cascade crest from Bear Gap to Crown Point.  Elev: 5,000 to 6,000 ft.  Access: Road up Morse Cr. from Chinook Pass highway reaches within ½ mi of the property.  Prop: 2 patented claims: Gold Spring, Silver Reef; and 12 unpatented claims.  Owner: Manitau Mining & Milling Co. (1941).  Ore: Gold, silver.  Ore min: Free gold.  Deposit: Small quartz veinlets in volcanic rock.  Volcanic rock itself reputedly carries gold values.  Assays: 90 channel samples 10 to 20 ft. in length over an area 1,200 by 1,000 ft. showed an av. value of $1.37 Au.  Prod: 1896.  Ref: 13, p. 162.  63, p. 44. 158.

Gold Hill (8)  

Gold Links (1)  

Highland (12)  

Lakeview  
(see under tungsten)

Lolette (9)  
Loc: NW¼ sec. 29, (17-11E), Summit dist.  Ore: Gold, silver.  Ref: 63, p. 44.

Manitau  
(see Fife)

New Find (15)  
(see under copper)

Pickhandle  
(see Fife)

Richmond (13)  
(see under lead)
GOLD, PLACER

The numbered placer gold occurrences are shown on late 10, on page 20 in volume 2.

SOTIN COUNTY

Clarkston Placer (1)


Snake River Placer


ENTON COUNTY

Artesian Coulee Placer (1)


Berrian Island (Goody) Placer (4)


Blakloch Island Placer (3)


Gone Busted Placer (2)


Goody Placer

(see Berrian Island Placer)

IELAN COUNTY

Bloom Placer (14)


Cook Placer (17)


Crawford Placer (18)


Deep Creek Placer (4)


Entiat River Placers (6)


Ice Creek Placers (7)


Ingalls Creek Placer (12)


Lakeside Placer (3)


Last Chance Placer (19)

(see Last Chance under gold, lode)

Leavenworth Placer (8)


Mad River Placer (5)


Nigger (Negro) Creek Placers (15)


Peake and Son Placer (20)


Peshestin Creek Placers (24)


Railroad Creek Placer (2)


Ruby Creek Placer (13)


Shaver Creek Placer (16)


Simbach Placer (21)


Solita Placer (22)


Stehekin River Placers (1)

Wednesday placer (10)

Wenatchee placer (11)

Wenatchee river placer (9)

Wilson placer (23)

CLALLAM COUNTY

Bartens placer
(see Main and Bartens placer)

Big Wink creek placer
(see Morgan placer)

Cedar creek (starbuck) placer (8)
Loc: Near mouth of Cedar Cr. in E1/2 sec. 18, (29-15W). Elev: Sea level. Access: 10 mi. up the beach from La Push. Owner: J. M. Starbuck (1917). Ore: Gold, platinum. Ore min: Free gold, platinum, ilmenite, magnetite, chromite, zircon. Deposit: Gold and platinum occur in a beach placer in a 2- to 15-in. sand layer on the surface of a wave-cut bench in clay. The sand layer is said to be 400 ft. long and 100 ft. wide at low tide. Assays: Said to yield from 2 to 5 pennyweights of Au and Pt per cu. yd. Ratio of Pt to Au ranges from 1:5 to 1:15. Prod: Reported $5,000 in gold and 5 oz. of crude platinum prior to 1917. Ref: 126, pp. 3-5.

Japanese placer
(see little wink placer)

Johnson point placer (7)

Little Wink (Japanese, sand point) placer (3)

Lovelace placer
(see Shi Shi beach placer)

Main and Bartens placer (6)

Morgan (big wink creek) placer (3A)

Morrow placer (4)

Ozette beach placer (2)

Sand point placer
(see Little Wink placer)

Shi Shi beach (lovelace) placer (1)

Starbuck placer
(see cedar creek placer)

Sunset creek placer (9)

Yellow banks placer (5)

CLARK COUNTY

Brush prairie placer (3)

Camas placer (4)
(see under tinctum)

Lewis river placer (2)
McMunn Placer (1)

DOUGLAS COUNTY

Columbia River Placer

Trouble Placer

ERRY COUNTY

Alva Stout Placer (6)

Baby Ben Placer
see Big and Baby Ben Placer.

Bacon Bar Placer (30)

Big and Baby Ben Placer

Biance Placer (7)

Blue Bar Island Placer (20)

Bridge Creek Placer (18)

Chas. V. Burnell Placer

Covington Bar Placer (29)
Loc: Sec. 8, (29-33E), on N. side of Columbia R. Owner: Henry Covington. Ore: Gold. Assays: 19 test holes showed no values of importance except in a small area of less than 1 acre, where 5 holes tested gave an av. of 30¢ per cu. yd. Ref: 158.

Daisy Placer (12)

Davis Placer

Dora B. Placer (8)

Fish Placer

Frank Thorp Placer (4)

Fruitland Placer (15)

Gold Creek Placers (10)

Goosmus Creek Placer (2)

Hellgate Bar Placer (31)
Loc: Lot 5, sec. 13, (28-33E), N. side of Columbia R. Owner: United States. Ore: Gold. Deposit: A high bar had gravel 2½ to 3 ft. thick showing values of 21.8¢ per cu. yd. A lower bar had 7 or 8 acres of gravel 2 to 3 ft. thick avg. 27¢ per cu. yd. A low bench 2 mi. long and 300 ft. to ½ mi. wide contains an iron-stained gold-bearing layer about 6 in. thick, 100 to 600 yd. wide, and 2 mi. long. Assays: The 6-in. paystreak av. 1¢ to 5¢ per cu. yd. Prod: Small amount in early 1900's. Ref: 26, pp. 62-63. 158.

Johnson Placer (13)

Keller Placers (24)

Kettle River Placers (3)

Kirby Bar Placer (35)
Long Placer


Marcella Placer (5)


Newton Placer


Ninemile Placer (25)

Loc: On Columbia R. near mouth of Nine Mile Cr., probably in sec. 16, (29-35E). Ore: Gold. Ore min: Flake gold worth 0.02¢ per flake and much flour gold. Deposit: 2 terraces, one 30 ft. and the other 100 ft. above Columbia R. Paystreaks as much as 1 to 3 ft. thick in the terraces. Dev: Old Chinese workings extend ½ mile along the river and 200 ft. back from the river. Assays: Paystreak av. a little more than 40¢ per yd. Ref: 26, pp. 64-65.

Peach Placer (34)


Peach Island Placer (33)


Plum Bar Placer (28)


Rico Placer (11)


Rogers Bar Placer (22)

Loc: Sec. 23, (30-35E), on W. bank of Columbia R., 2 mi. below the town of Hunters. Prop: Bar is about 3½ mi. long. Owner: Colville Indian Reservation. Ore: Gold, platinum. Deposit: 3 bars, 30, 75, and 100 ft. above the river, include 1,600 acres of land. The best pay gravel is found in bars exposed only at low water. Assays: Tests indicate paystreaks in the lower bar to run 1¢ to 50¢ per yd. in gold. Prod: 4 operators were working in 1934. Ref: 26, pp. 65-66. 97, 1935, p. 332. 138.

Sanpoil River, West Fork Placers (9)

Loc: Down W. Fk. from Gold Cr. to mouth of W. Fk. Sanpoil R. Ore: Gold. Dev: Prospect pits only. Assays: Greatest amount of Au from a single pan was 0.005¢. Est. 4¢ per cu. yd. Ref: 13, p. 174. 25, p. 68. 122, p. 103.

Singer Placer (1)


Sixmile Placer (26)

Loc: At mouth of Sixmile Cr., 6 mi. above the mouth of Spokane R. In sec. 34, (29-35E). Ore: Gold. Ore min: Flake gold av. 0.01¢ in value, and considerable flour gold. Deposit: Terrace of Columbia R. Gold is found in the upper 2 ft. of the terrace, which consists of clayey silt and gravel. Assays: Upper 2 ft. of the section was found to have a value of 8¢ per cu. yd. Ref: 26, p. 64.

Stout Placer

(see Alva Stout Placer)

Stranger Creek Placer (14)

Loc: At mouth of Stranger Cr., opposite Gifford. Ore: Gold. Deposit: Bar contains a 1- to 3-ft. paystreak at a depth of 7 ft. Sampling indicates the paystreak to have a very limited extent. Assays: Panning tests indicate the paystreak runs 5½¢ to 40¢ per cu. yd. Ref: 26, p. 67.

Stray Dog Placer (21)


Taft Placer (16)


Thompson Placer (19)


Throne mile Placer (27)


Turtle Rapids Placer (17)


Whitestone Placer (32)


Wilmont Bar Placer (23)

Loc: Lot 6, sec. 4, (29-36E), on N. bank of Columbia R., opposite Gerome post office. Ore: Gold, cerium, thorium. Ore min: Monazite, magnetite, ilmenite, zircon, free gold. Deposit: 2 terraces, one 20 and the other 100 ft. above Columbia R. In lower terrace gold occurs in surficial 1 to 5 ft. of material. Assays: Lb. per ton: magnetite, 1,308; ilmenite, 150; monazite, 30; zircon, 60; gold, $1.65 per ton. Panning tests indicate a value of 10¢ to 14¢ gold per cu. yd. in lower bar and a fraction of a cent per cu. yd. in the upper bar. Prod: 1934. Ref: 26, p. 65. 38-A, pp. 1218-1219. 97, 1935, p. 352. 126, p. 15. 158.

GARFIELD COUNTY

Pomeroy Placer

IRANT COUNTY
A. B. C. Placer (1)  

Chinaman Bar Placer (2)  

RAY'S HARBOR COUNTY
Cow Point Placer  

Damon Point Placer  
(see under titanium)

Kaufman Placer  

Moquilis Placer  
(see under cerium)

Moquilis River Placer (1)  

Oyhtut Placer (2)  

Point Brown Placer (3)  

EFFERSON COUNTY
Ruby Beach Placer (1)  

ING COUNTY
Money Creek Placer (2)  

Raging River Placers (3)  

Seattle Placer  

Snoqualmie Placer (4)  

Snoqualmie River Placers  

Tolt River Placer (1)  
Loc: SE1/4 sec. 29, (26-8E), on Tolt R. Ore: Gold. Deposit: Fine placer gold said to occur in top 18 in. of gravel in the river bars in this vicinity. Ref: 158.

KITITSAS COUNTY
Baker Creek Placers (7)  
Loc: Along Baker Cr. above its junction with Swauk Cr. Ore: Gold. Deposit: One nugget found on a bench of Swauk Cr. above the mouth of Baker Cr. had a value of $1,004. Ref: 88, p. 88.

Battle Axe Placer  

Bear Cat Placer (6)  

Becker Placer (13)  

Beckman Placer  

Big Salmon La Sac Placer (2)  

Black Bar Placer  

Black Jack Placer  

Boulder Creek Placer (10)  

Bovec Placer  

Bryant Bar (Deer Gulch) Placer (14)  

Burcham Placer (15)  

Cedar Creek Placer (17)  

China Camp Placer  
(see under platinum)

Cle Elum Placer (4)  
Cle Elum River Placer

Deer Gulch Placer
(see Bryant Bar Placer)

Dennett Placer (16)

Discovery Placer

Elliott Placer
Loc: On Williams Cr. Prop: 1 claim. Ore: Gold. Assays: One nugget found in 1900 had a value of $1,100. Ref: 63, p. 66. 88, p. 88.

Emma Placer

Ford Placer

Fortune Creek Placer (1)

Fountain Head Placer

Fraction Placer (18)

General Minerals Placer (27)

Gold Bar Placer (21)

Golden Rule Placer

Hamilton Placer

Hampton Placer

Hinds Placer
(see Needham and Hinds Placer)

Hinton-McCauley Placer (8)

Hope Placer

Kittitas Placer

Laurel Placer

Little May Placer
(see Weninger and Little May Placer)

Livingston Bar Placer

McCauley Placer
(see Hinton-McCauley Placer)

Magpie Canyon Placer (26)

Manastash Creek Placer (5)

Midnight Star Placer

Naneum Creek Placer (9)

Needham and Hinds Placer

Nez Jensen Placer

Nugget Placer (11)

Old Bigney Placer (12)

Perry Placer (25)

Princeton Bar Placer

Sheep Springs Placer (23)

Sunflower Placer
Sunny Bar Placer

Swauk Creek Placers (22)

Swauk Mining & Dredging Placer (19)

Tennaway River Placers (3)

Theresa Placer

Wenington and Little May Placer

Williams Creek Placers (20)
Loc: Along Williams Cr. near Liberty and at its junction with Swauk Cr. Ore: Gold. Deposit: Good pay gravel is found within 3 or 4 ft. of bedrock and 70 or 80 ft. below present stream level. Prod: Considerable. Ref: 88, p. 88. 143, p. 77. 144, p. 9.

Yakima River Placer (24)

LINCOLN COUNTY

Angle Placer
(see Keller Ferry Placer)

Barnell Placer (1)

China Bar Placer (7)

Clark Placer (2)

Creston Ferry Placer (5)

Davenport Placer

Keller Ferry (Angle) Placer (3)

Latta and Phillips Placer

Peach Bar Placer (6)

Phillips Placer
(see Latta and Phillips Placer)

Winkelman Bar Placer (4)
Loc: S1/2 sec. 9, 28-33E. Owner: Mr. Winkelman (1934). Ore: Gold. Ore min: Free gold. Assays: 2 composite samples showed 22.5¢ and 20.8¢ per cu. yd. Ref: 158.

OKANOGAN COUNTY

Altona Placer (9)

Ballard Placer (20)
Loc: 1 mi. below Conconully, on Salmon R. Owner: Charles H. Ballard and J. R. Wallace (1897). Ore: Gold. Deposit: Bench about 1 mi. square. Assays: 0.1¢ to 16¢ per pan. Ref: 63, p. 94.

Ben Holland Placer

Cassimer Bar Placer (23)
Loc: At mouth of Okanogan R. Ore: Gold. Prod: Considerable production reported from 1880 to 1890. Ref: 12, pp. 10, 94.

Chinaman's Friend Placer

Condon Ferry Placer

Crounse (Strawberry Creek) Placer (29)

Cuba Line Placer (7)
Loc: Sec. 1, 40-29E, Myers Cr. dist. Ore: Gold. Ref: 158.

Dan Mooney Placer (11)

Davey Placer (10)
Deadman Creek Placer (12)

Fourth of July Creek Placer (13)

Funk Placer

Gold Bar Placer (24)

Gold Creek Placers (30)
Loc: Along Gold Cr. from the mouth of Strawberry Cr. to W. Fk. Sanpoil R. Ore: Gold. Dev: Prospect pits only. Assays: "Color" or two of gold per pan. Ref: 122, p. 103.

Gove Placer

Grove Placer

Hill Placer

Hopkins Placer (26)

Johnson Placer (14)

Johnson Placer (22)

Lucky Strike Placer

Mary Ann Creek Placer (18)

Meadows Placer (19)

Meathow River Placers (21)

Murray Placer (25)

Myers Creek Placer (15)

Nespelem Bar Placer (27)
Loc: On Nespelem Bar, at and near the mouth of Nespelem R. Access: Road. Prop: 320 acres of patented land. Ore: Gold. Deposit: Terrace ½ mi. wide and 100 ft. above Columbia R. contained a thin paystreak of iron-stained sandy clay. Assays: Tests indicate no ground on the bar can be expected to yield as much as 0.01¢ per cu. yd. Ref: 26, p. 62.

Nespelem River Placers (28)

Nugget Placer (31)

Okanogan River Placers

Olcott Placer (1)

Ottia May Placer (16)

Poyneer Placer

Rock Creek Placer

Shotwell Placer (32)

Similkameen Placers (2)

Similkameen Falls Placer (6)

Slate Rock Placer (3)

Spoonamore Placer (17)

Strawberry Creek Placer
(see Crouse Placer)

Vancouver Placer (4)
Walker Placer (8)
**Loc:** Secs. 13 and 14, (40-29E), Myers Cr. dist. **Ore:** Gold. **Prod:** 1930. **Ref:** 97, 1930, p. 673.

Wasco Placer (5)
**Loc:** Oroville dist. **Ore:** Gold. **Prod:** 1934. **Ref:** 97, 1935, p. 354.

ACIFIC COUNTY

Fort Canby Placer (2)
**Loc:** Mouth of Columbia R., near Fort Canby. **Ore:** Gold. **Deposit:** Sand. **Assays:** 822 lb. magnetite, 240 lb. ilmenite, 91¢ gold per ton. **Ref:** 38-A, pp. 1218-1219. 126, p. 15.

Ocean Park Placer (1)
**Loc:** Ocean beach at Ocean Park. **Ore:** Gold. **Deposit:** Sand. **Assays:** 22 lb. magnetite, 4 lb. ilmenite, 87¢ gold per ton. **Ref:** 38-A, pp. 1218-1219. 126, p. 15.

Sand Island Placer (3)
**Loc:** Island at mouth of Columbia R., just S. of Ilwaco. **Ore:** Gold. **Deposit:** Sand. **Assays:** 160 lb. magnetite, 68 lb. ilmenite, 2 lb. zircon, $1.51 gold per ton. **Ref:** 38-A, pp. 1178, 1218-1219. 126, p. 15.

END OREGON COUNTY

Browns Lake Placer (5)
**Loc:** NW¼NE¼ sec. 24, (34-44E), at E. end of Brownes Lk., Newport dist. **Access:** Road. **Owner:** Wm. Abraham and C. N. Newburn (1920). **Ore:** Gold. **Dev:** 20 ft. shaft. **Assays:** Only occasional colors. **Ref:** 138, p. 86.

Harvey Bar Placer (2)
**Loc:** On Pend Oreille R. in N. center sec. 26, (40-42E). **Access:** ½ mi. W. of Slate Cr. road. **Ore:** Gold. **Deposit:** Placer gravel on pocket dolomite bedrock. **Prod:** Intermittent. **Ref:** 128, p. 73.

O'Sullivan Creek Placer
(see Sullivan Creek Placer)

Schierding Placer (1)
**Loc:** On E. side Pend Oreille R. just below mouth of Z Canyon gorge. **Elev:** 1,900 ft. **Access:** 2½ mi. by road W. of Crescent Lk. **Prop:** 120 acres of patented land. **Owner:** William Schierding and associates, Metalline Falls, Wash. (1943). **Ore:** Gold. **Deposit:** Well-rounded river gravel, generally less than 6 in. in dia., but some boulders up to 6 in. **Impro:** Dragline scraper, revolving grizzly, a screen and waterjet, and 3 sets of sluice boxes lined with riffles and blankets, dismantled (1928). **Assays:** Small colors of flat gold with well-rounded edges. One nugget of 2 pennyweight. **Prod:** 1935. **Ref:** 29, p. 51. 128, p. 78.

Schultz Placer (4)
**Loc:** Near SE. cor. sec. 19, (39-43E), in draw near Schultz's cabin. **Ore:** Gold. **Deposit:** Surface gravels. **Assays:** Reportedly 50¢ to $1.50 per yd. **Prod:** Reportedly produced about 1906. **Ref:** 158.

Sullivan (O'Sullivan) Creek Placer (3)
**Loc:** On Sullivan Cr. E. of Metalline Falls. **Ore:** Gold. **Assays:** Nuggets valued at $20 each have been found. **Prod:** Reportedly several hundred thousand dollars. **Ref:** 12, pp. 6-9, 95. 13, p. 173.

PIERCE COUNTY

Morse Creek Placer (3)
**Loc:** Near head of Morse Cr. **Ore:** Gold. **Ref:** 63, p. 44.

Ogren Placer (1)
**Loc:** Sec. 12, (17-10E), Summit dist. **Owner:** R. E. Ogren and Walter Zelepusa, Enumclaw, Wash. (1952—). **Ore:** Gold. **Ref:** 133, p. 38.

Silver Creek Placer (2)
**Loc:** NE¼ sec. 25, (17-10E), on headwaters of Silver Cr. **Elev:** 4,500 ft. **Access:** Road up Silver Cr. **Ore:** Gold. **Deposit:** Placer deposit from which considerable coarse gold has reportedly been recovered. **Impro:** Sluice boxes. **Assays:** Recoveries over a 10-yr. period av. $1.25 per yd. **Prod:** About 1920 to 1930. **Ref:** 158.

SKAGIT COUNTY

Anacortes Placer (1)
**Loc:** Near Anacortes. **Ore:** Gold. **Deposit:** Placer (probably beach). **Assays:** 2 samples showed 715 and 1,137 lb. chromite, 41¢ and 14¢ gold per ton. **Ref:** 38-A, pp. 1218-1219. 126.

Babe Placer
**Loc:** Skagit County. **Owner:** Walter E. Woodrich, Rockport, Wash. **Ore:** Gold. **Ref:** 158.

Day Creek Placer (2)
**Loc:** Day Cr. **Ore:** Gold. **Prod:** 1939. **Ref:** 158.

Fidalgo Island Placer
(see Fidalgo Island under chromium)

Ruby Creek Placer
**Loc:** Near headwaters of Ruby Cr. **Ore:** Gold. **Deposit:** First placer gold discovery west of the Cascade Mtns. **Assays:** Reportedly as high as $28 per yd. **Ref:** 12, pp. 7-8, 94. 13, pp. 171-172. 145, p. 95.

Skagit River Placer
**Loc:** Along headwaters of Skagit R. **Ore:** Gold. **Ref:** 13, p. 171.

SKAMANIA COUNTY

Camp Creek Placer
**Loc:** Skamania County. **Ore:** Gold. **Prod:** 1939, 1940. **Ref:** 97, 1940, p. 479; 1941, p. 475.

Hudson and Meyers Placer (1)
**Loc:** On McCoy Cr., probably in sec. 15, (10-8E). **Ore:** Gold. **Ref:** 158.

Meyers Placer
(see Hudson and Meyers Placer)

Texas Gulch Placer (2)
**Loc:** E½ sec. 25, (4-5E). **Ore:** Gold. **Ref:** 158.

SNOHOMISH COUNTY

Alder Placer (30)
**Loc:** Sec. 6, (27-8E), Sultan dist. **Ore:** Gold. **Ref:** 158.

Alpha and Beta Placers (8)
**Loc:** SW. cor. sec. 32, SE. cor. sec. 31, (30-10E), and E½ sec. 6, (29-10E). **Elev:** 2,000 ft. **Prop:** 2 patented claims. **Owner:** Sykes estate (1943). **Ore:** Gold. **Deposit:** Sand and gravel in flat area below steep slopes at head of Williamson Cr. **Dev:** No visible pits or other digging. **Ref:** 22, p. 50.

Aristo Placer (22)
**Loc:** Sec. 17, (28-8E), on Sultan R. just below the mouth of Sultan R. Canyon. **Owner:** H. E. Rathje, Sultan, Wash. **Ore:** Gold. **Prod:** Small amount produced by primitive methods and small hydraulic unit. **Ref:** 14, p. 50. 23, p. 13.
Bench Placer (35)
Loc: Sec. 19, (28-11E), 800 ft. from junction of Silver Cr. with N. Fk of Skykomish R. Owner: Mrs. Belle Fowler, Index, Wash. Ore: Gold. Assays: 80¢ to $1.00 per yd. Ref: 158.

Bertha D. Placer (23)

Beta Placer
(see Alpha and Beta Placers)

Black Hawk Placer (20)

Blake Placer (16)

Bonnie Belle Placer (36)

Calf Moose Placer (1)

Condor Placer (9)

Cow Moose Placer (2)

Cox Placer (17)

Darrington Placer (3)

Deer Creek Placer (4)

Dixie Placer (37)

Double Eagle Placer (7)
Loc: Secs. 8 and 9, (30-10E), on Coal Cr. about 2 mi. NE. of Silverton. Prop: 8 claims. Ore: Gold. Ref: 14, p. 50.

Douglas Placer (38)

Emerson Placer (10)

F and W Placer

Franklin Placer (11)

Gold Bar Placer (33)

Granite Falls Placer (5)
Loc: NW¼ sec. 8, (30-7E), on N. side of the S. Fk of Silla- guamish R. about 1 mi. NE of Granite Falls. Ore: Gold. Ref: 14, pp. 50-51.

Helen Deahn Placer (24)

Horseshoe Bend Placer (25)

Howard Placer (41)

Ida Placer (31)
Loc: Sec. 6, (27-8E), Sultan dist. Ore: Gold. Ref: 158.

Jones Placer (12)

Junction Placer (13)

Junction Nos. 1 to 3 Placer (18)

Leon Placer (39)

Line a Little Placer (34)

Lockwood Placer (14)

McCloud Placer
(see Sultan Canyon Placer)

Merry Mixer Placer (26)

Mom and Pop Placer (27)
Olympic Placer (42)

Orient Placer (15)

Peterson Placer (5)

Phoenix Placer (40)

Pork Barrel Placer (28)

Sailors Bar Placer

Shirley Placer

Stilaguamish River Placers
Loc: Along Stilaguamish R. Ore: Gold. Assays: Said to have been some rich placer deposits. Ref: 13, p. 172. 4. 51.

Sultan Placer (22)

Sultan Canyon (McCloud) Placer (19)

Sultan River Placer (29)

Sultan River Placers

Young Placer

Yreka Placer (21)

TEVENS COUNTY
Anderson Placer

B and W Placer

Blue Bar Placer (18)

Bosburg Bar Placer (11)

Brod-Hurst Placer (14)

China Bend Placer (9)
Loc: Lots 3 and 4, sec. 7, (38-97E), on SE. bank of Columbia R. Ore: Gold. Assays: 8 samples showed 8.7¢ to 32.5¢ per cu. yd. Ref: 158.

Collins Placer (18)

Colville River Placer

Dead Man's Eddy Placer
(see Nigger Creek Bar Placer)

Evans Placer (3)

Gibson Bar Placer (21)

Grover Placer

Holsten Placer (17)

Hurst Placer
(see Brod-Hurst Placer)

La Dow Placer (20)

McGrath Placer

Marcus Placer (15)


**Meyers Falls Placer (16)**


**Nigger Bar Placer (2)**

Loc: Secs. 14 and 21, (40-41E), 2 mi. S. of Canadian boundary, on W. side of Columbia R. Ore: Gold. Deposit: Bar 300 ft. wide and more than 1 mi. long is covered by a 2-ft. overburden of sand and large boulders. Assays: A 125-ft. strip 1,000 ft. long had 2½ ft. of gravel av. 28¢ per cu. yd. Ref: 158.

**Nigger Creek Bar (Dead Man’s Eddy) Placer (5)**


**Ninemile Bar Placer (10)**


**No Bear Placer (1)**


**Nobles Placer (7)**


**Northport Bar Placer (6)**


**Orient Placer (8)**


**Poble Placer**


**Reed and Roberts Placer (4)**


**Roberts Placer**

(see Reed and Roberts Placer)

**Sandoz Placer (13)**


**Valbrush Bar Placer (12)**


**Van Stone Placer**


**Weston Placer**


**WHATCOM COUNTY**

**Alice Mae Placer (7)**


**Bellingham Placer**

(see under iron)

**Combination Placer (6)**


**Donald A Placer**


**Eureka Placer**


**Farrar Placer (12)**


**Grizzly Placer (14)**


**Hope Placer (1)**

Loc: Sec. 18, (39-5E), on Bill Cr. Ore: Gold. Ref: 158.

**Jackass Placer (4)**


**Johnnie S. Placer (10)**


**Lazy Tar Heel Placer (8)**


**New Light Placer (13)**


**Nip and Tuck (Tanya) Placer (9)**


**Normandy Placer**


**Old Discovery Placer (11)**

Park Placer  
**Loc:** Slate Cr. dist. **Prop:** 1 placer claim. **Owner:** James Yelton, Bellingham, Wash. (1922). **Ore:** Gold. **Ref:** 158.

Rose Placer (2)  
**Loc:** On headwaters of S. Fk. Nooksack R. **Prop:** 1 placer claim. **Owner:** J. W. Erlundson, Mount Vernon, Wash. (1922). **Ore:** Gold. **Ref:** 158.

Ruby Creek Placer (15)  
**Loc:** Sec. 3, (37-17E), Slate Cr. dist. **Owner:** Granite Creek Mining Co. (1906-1909). **Ore:** Gold. **Prod:** 1906, 1908. **Ref:** 63, p. 58. 97, 1906, p. 368; 1908, p. 382. 114, no. 5, 1909, p. 91.

Scougale Placer (3)  
**Loc:** Sec. 36, (38-13E), Slate Cr. dist. **Ore:** Gold. **Prod:** $950 taken out in 6 weeks in 1897. **Ref:** 63, p. 58.

Tanya Placer  
(see Nip and Tuck Placer)

Washington Placer  
**Loc:** Slate Cr. dist. **Ore:** Gold. **Prod:** 1915. **Ref:** 158.

Woodrich Placer (5)  
**Loc:** Approx. in sec. 25, (37-14E), 2 mi. up Canyon Cr. from Beebo's cabin on Granite Cr. **Access:** About 5 mi. by trail from the Ruby Cr. road. **Ore:** Gold. **Deposit:** An old gravel bar, 300 ft. long and 5 to 20 ft. thick, from which at least 2 nuggets valued at $30 to $40 each were taken. **Ref:** 158.

**WHITMAN COUNTY**

**Indian Bar Placer (1)**  
**Loc:** Sec. 15, (14-41E), near Penawawa. **Ore:** Gold. **Prod:** 1894. **Ref:** 77, 1935, p. 356.

**YAKIMA COUNTY**

**Elizabeth Placer (1)**  
**Loc:** Secs. 4 and 5, (17-11E), Summit dist. **Owner:** Gold Links Mining Co. (1939). **Ore:** Gold. **Ref:** 158.

**Gold Hill Placer (3)**  
**Loc:** Sec. 35, (17-11E), Morse Cr. area. **Ore:** Gold. **Prod:** 1933, 1934. **Ref:** 97, 1934, p. 298; 1935, p. 356.

**Gold Links Placer (2)**  
**Loc:** Secs. 4 and 5, (17-11E), Summit dist. **Prop:** 3 placer claims. 20 lode claims. **Owner:** Gold Links Mining Co. (1939). **Ore:** Gold. **Ref:** 158.

**Morse Creek Placer**  
**Loc:** Near head of Morse Cr., Summit dist. **Owner:** H. L. Tucker and George Gibbs, Yakima, Wash. (1880-1882). **Ore:** Gold. **Deposit:** An $80 nugget was found, and 11 nuggets were not uncommon. **Assays:** Early operators made "good wages." **Ref:** 63, p. 44.

**Surveyors Creek Placer (4)**  
**Loc:** Sec. 14, (8-12E), on Klickitat R. **Ore:** Gold. **Ref:** 158.

**IRON**

**Properties**—Iron is exceeded in abundance in the earth's crust only by silicon and aluminum. Pure iron is a silver-white, moderately hard, ductile malleable magnetic metal that is capable of taking a high polish. Commercial iron usually contains some carbon, phosphorus, silicon, sulfur, and manganese. Pig iron contains about percent carbon and is hard and brittle and has a fairly high melting temperature. Wrought iron contains only a few tenths of a percent or less of carbon and is tough, malleable, grayish white, and is difficult to be worked. The electrical conductivity of iron is about one-seventh that of copper. Much of the metal's usefulness stems from its great variation in physical properties which can be produced by annealing, working, and adding various quantities of other elements. Iron is stable in dry air but oxidizes readily in moist air or water, forming rust. In its chemical reactions it exhibits valences of +3 and 3+ and forms ferrous and ferric compounds. Other properties are given in the table on page 12.

**Uses**—Iron is the cheapest, most abundant, and most versatile of metals. To list all the uses of iron and steel would require a detailed description of modern civilization and industry. Iron salts are used in dyes, inks, polishing powder, in the textile industry, and in many other applications. Iron ore is used primarily in the manufacture of pig iron, some of which is used to make cast wrought iron, but most of which is converted to steel. However, iron ores are put to a number of other uses, such as in making concrete aggregate, for shielding atomic reactors, in making special portland cements, in ferroalloys, and in mineral pigments such as ochre, umber, and sienna. Washington ores have been used for all of these purposes. Other uses are as a heavy medium in sink-float ore-concentrating plants, in the manufacture and purification of heating gas, and as a flux in smelting ores of other metals.

**Production**—Iron accounts for more than 90 percent of the total production tonnage of the 30 or so metallic elements used industrially. The ore was produced in 17 states in 1950. About 80 percent of the ore produced in that year came from the Lake Superior region; and only about 6 percent came from the western states, most of it from Utah and California. There were 247 producing mines in the country, 38 of which each mined over one million tons of ore in that year. Three of the largest ore producers were located at Provo, Utah; Fontana, California; and Pueblo, Colorado. Much smaller plants in Seattle and elsewhere in Washington have used small tonnages of iron ore. Pig iron was first made in the state at Irondale, near Port Townsend, in 1881. By the end of 1889 this plant had turned out 24,806 tons of iron. Production continued irregularly for a few more years, and during these later stages of activity (1902-1903, 1907-1910, and 1917-1919) the plant is reported to have produced 41,000 tons of pig iron. Iron ore production in Washington has never been large and has been intermittent, but during the years from 1918 through 1944 there were only 4 years in which there was no production. Total production amounted to about 100,000 tons, and the maximum output for any one year has been about 14,000 tons.

**Prices**—Iron is the cheapest of the metals. The average value of all grades of pig iron f.o.b. blast furnaces in 1950
was $42.85 per ton. The average price for finished steel was nearly double this figure, rising from 2.396 cents per pound in 1943 to 3.862 cents in 1950. The average value per gross ton of Lake Superior iron ore f.o.b. mines was $4.90 in 1950, compared with $4.50 in 1949, $3.91 in 1948, and a range of from $4.45 to $5.50 in the years 1929 to 1941. The average values of iron ores produced in Washington have been considerably higher than these figures, perhaps twice as high, and the sale price, here, may vary within rather wide limits, subject to negotiation for each individual sales contract.

Ore minerals—Iron is a normal constituent of hundreds of minerals, and is one of the most abundant elements of the earth’s crust, yet few minerals are capable of serving as ores of iron, since few contain the metal in sufficient quantities or in the right combination to make extraction profitable. The chief ore minerals in order of their importance are: hematite, Fe₂O₃, containing 70.0 percent iron; magnetite, Fe₃O₄, containing 72.4 percent iron; limonite, a hydrous iron oxide of variable composition and containing 59 to 63 percent iron; and siderite, FeCO₃, containing 48.2 percent iron. The sulfides pyrite and pyrrhotite are ordinarily considered to be ores of sulfur, but they contain 46.6 and 61.6 percent iron respectively, and the sinter that remains after roasting to recover the sulfur is sometimes marketable as iron ore. The best grades of iron ore, as mined, contain 48 to 68 percent iron, with a minimum of silicon, titanium, phosphorus, calcium, aluminum, and sulfur. Specifications regarding impurities vary considerably, but phosphorus should not exceed 0.045 percent and sulfur 0.25 percent; nevertheless, acceptable ore may in some instances contain as much as 0.18 percent phosphorus and 0.20 percent sulfur.

Geology—Iron-ore deposits are of various origins, including segregations of magnetite and titaniferous magnetite in igneous rocks; contact-metamorphic deposits of magnetite and specularite; replacement deposits of hematite; sedimentary deposits of hematite, limonite, and siderite; residual or lateritic deposits of hematite and limonite; oxidation or gossan deposits of limonite; and placer deposits of magnetite sands. Ores occurring in any of these types of deposits may have been subjected to metamorphism subsequent to their origin. Each of these types of origin is represented by Washington iron-ore deposits. Of interest but no economic importance is the occurrence of metallic iron as small masses and grains disseminated in basalt penetrated by a well drilled in a search for gas and oil in Grant County.

Occurrences

The map showing the numbered iron occurrences is plate 11, on page 31 in volume 2.

ASOTIN COUNTY

Clarkston Placer (1)
(see under gold, placer)

Snake River Placer
(see under gold, placer)

CHelan COUNTY

Blewett (Washington Nickel) (3)


Davenport
(see Nigger Creek)

First Creek (1)
(see under titanium)

Iron King
(see Rothert)

Nigger Creek (Davenport) (2)

Rothert (Iron King) (4)

Washington Nickel
(see Blewett)

CLALLAM COUNTY

Cedar Creek Placer (3)
(see under gold, placer)

Lovelace Placer
(see Shi Shi Beach Placer under gold, placer)
Shi Shi Beach Placer (1)
(see under gold, placer)

Starbuck Placer
(see Cedar Creek Placer under gold, placer)

Yellow Banks Placer (2)
(see under gold, placer)

LARK COUNTY

Bokemier
(see Howland Acres)

Brush Prairie Placer (2)
(see under gold, placer)

Camas Placer (5)
(see under titanium)

Canyon Creek Placer


Howland Acres (Bokemier) (3)
Loc.: E¼SW¼ sec. 5, (2-2E), ½ mi. S. and ¼ mi. E. of Barberton. Elev: 200 ft. Access: 1 mi. by road from railroad. Owner: A. H. Bokemier, Vancouver, Wash. (1945). Ore: Iron. Ore min: Limonite. Deposit: Surface deposit (covered by 6 to 18 in. of soil) of bog iron covering an exposed area 12 by 24 ft. is said to be as much as 20 ft. deep. Deposit consists of spongy limonite contaminated by included sand. Float and small outcrops in an area of 30 to 50 acres, but ore is not continuous over this whole area. Assays: Two analyses, each representing only 2-ft. thickness of ore, showed 10.7%, 10.9% ignition loss; 14.3%, 23.6% SiO₂; 0.4%, 0.2% TiO₂; 30.4%, 42.6% Fe; 5.5%, 9.2% MnO; 1.81%, 2.52% P₂O₅. Ref.: 157, 158.

McMunn Placer (1)
(see under gold, placer)

Washougal (4)

WLITZ COUNTY

Ayers (1)

JUGLAS COUNTY

Columbia River Placer
(see under gold, placer)

RRY COUNTY

Belcher (11)
(see under copper)

Belcher (Blue Bell-Belcher) (9)

Blue Bell-Belcher
(see Belcher)

Boyd's

Copper Key (8)
(see under copper)

Curlew Lake

Hawkeye (5)
(see under gold)

Iron Chief (7)

Kelly Camp (1)
(see under tungsten)

Lambert Creek (6)

Lamefoot (3)

Oversight (10)
(see also Pin Money under gold)
Inventory of Washington Minerals—Part II, Metallic Minerals

Wilmont Bar Placer (12)
(see under gold, placer)

Winnipeg (4)
(see under gold)

Wiseman (2)

Yaki
(see Winnipeg under gold)

GARFIELD COUNTY

Pomeroy Placer
(see under gold, placer)

GRAY'S HARBOR COUNTY

Dennis
(see Elma)

Elma (Dennis) (1)

JEFFERSON COUNTY

Black Hump (3)
(see under manganese)

Chimacum Valley (1)

Mount Claywood (2)
(see under manganese)

North Pole Wood (2)
(see under manganese)

KING COUNTY

Anderson (Baring) (1)
Loc: S1/2 sec. 10 and near SE. cor. sec. 11, (26-10E), 1 mi. from railroad at Baring. Elev: 1,200 ft. Access: 1 mi. by road S. of Baring, thence by trail 1/4 mi. Prop: 2 claims and 80 acres of deeded land. Owner: Theodore Anderson, Everett, Wash. (1943). Ore: Iron, lead, zinc, silver, gold. Ore min: Magnetite. Gangue: Amphibole. Deposit: Ore body in limy quartzite is presumably a contact-replacement deposit. Exposure is a lenticular mass 25 to 30 ft. in height and 15 ft. in width. Known tonnage 2,000. Dev: 2 open cuts and a caved adit said to be 175 ft. long. Assays: 35.00% to 60.70% Fe, 9.31% to 10.29% SiO2, 0.75% Al2O3, 4.89% CaO, 1.15% MgO, 0.69% P2O5, 0.09% S, tr. to 0.84% TiO2. Prod: 1 carload said to have been shipped. Ref: 48, p. 9, 141, p. 66. 142, pp. 92-93. 158.

Baring
(see Anderson)

Chair Peak
(see Kelley)

Chief

Cliff (7)

Climax (8)

Denny (6)

Dohroff (9)

Green Mountain (3)

Green River
Loc: Snoqualmie dist. Ore: Iron. Assays: 45.51% Fe, 10.12% SiO2, 0.05% S. tr. P. Ref: 13, p. 48. 48, p. 10.

Guye (Mt. Logan, Summit) (4)
Loc: Secs. 28, 32, and 33, (23-11E), about 2 1/4 mi. from the railroad at Rockdale, Snoqualmie dist. Elev: 4,600 ft. Prop: 12 patented claims. Owner: J. F. Hubbart, Auburn, Wash. (1928—1929). F. W. Guye (1834-1929). Ore: Iron, lead, zinc, silver, gold. Ore min: Magnetite, pyrite, galena, sphalerite. Gangue: Garnet. Deposit: Deposits are of contact-metamorphic origin and very similar to those of the Denny property but ore, in general, wider and more continuous. Known tonnage 10,000. A vein near the center of the Industry Lode claim is said to be 6 ft. wide and is well mineralized with galena and sphalerite. Dev: 1 adit, 4 or 5 open cuts and pits. Assays: Two representative analyses show 59.94% to 64.31% Fe, 2.0% to 2.64% Al2O3, 4.07% to 6.71% SiO2, 0.32% to 0.93% CaO, 0.37% to 0.39% MgO, 0.019% to 0.020% P, 0.013% to 0.016% S, 0.11% to 0.24% TiO2, 0.39% to 0.58% Mn. Other samples show as high as $138 per ton in Pb, Zn, Ag. Two assays on picked samples showed 0.04 oz. Au, 2.44 oz. Ag, 16.6% to 24.5% Pb, 32.4% Zn. Ref: 13, pp. 45, 48, pp. 8-9. 63, p. 41. 111, p. 7. 130, p. 70. 140, pp. 25-26. 141, p. 66. 142, pp. 90-92. 146, p. 13. 167, pp. 25-27. 178, 178, pp. 22-24.
Kelley (Chair Peak) (5)


Mt. Logan

(see Guye)

Seattle Placer

(see under gold, placer)

Smith

(see Williams-Smith)

Summit

(see Guye)

Williams-Smith (2)

Loc: Secs. 35 and 36, (26-10E), 5 mi. from railroad at Miller R. Elev: 2,900 ft. Prop: 2 claims: Washington, Chicago. Ore: Iron. Ore min: Magnetite. Deposit: Ore bodies are probably contact replacements of limestone. Magnetite crops out in 3 places, the largest exposure being 51 ft. across. Dev: 257-ft. adit said to have been driven into one of the bodies. Assays: 66% to 87% Fe, 2.70% to 4.10% SiO₂, 0.024% to 0.37% Fe, no S. Ref: 48, p. 9. 141, p. 65. 142, pp. 93-94. 158.

CUTTITAS COUNTY

Balfour Guthrie

(see Cle Elum River)

Bean Creek (5)


Big Creek (7)

Loc: Exact location unknown; said to be 5 mi. SE. of Easton. Ore: Iron. Assays: Av. composition of 5 analyses is 44.73% Fe, 27.35% SiO₂, 3.18% CaO, 0.35% MgO, 2.79% Mn, 1.20% P, 0.02% S, 0.08% Cu. Ref: 48, p. 12. 187, p. 24.

Cle Elum River, north deposit (Balfour Guthrie) (1)

Loc: Secs. 26, 34, and 35, (23-14E), on both sides of Cle Elum R., N. of Boulder Cr. Elev: 3,000 ft. Access: Cle Elum R. road. Prop: 14 claims of a 20-claim block. Owner: Balfour, Guthrie & Co., Ltd. (1948). Ore: Iron, nickel, chromium. Ore min: Magnetite, hematite, millerite, chrome spinel. Gangue: Diaspore, clasticite. Deposit: Sedimentary iron ore occurring along contact of Swauk formation with peridotite. Drilling indicates an ore reserve of about 8½ million tons of 40.66% Fe. Dev: Numerous trenches, open cuts, and diamond drill holes. Assays: Av. of analyses from 52 diamond drill holes was 40.82% Fe, 0.83% Ni, 2.40% Cr₂O₃, 0.68% SiO₂, 16.46% Al₂O₃, 0.051% P, 0.115% S, 0.46% Mn. Ref: 13, pp. 42-43. 17, pp. 40-41. 48, pp. 10-11. 78, pp. 29, 31. 85. 87-A. 90. 130, p. 70. 135. 141, p. 65. 142, pp. 73-79. 146, pp. 13-14. 158. 167, pp. 22-25. 176. 177. 178. 179, 1949, pp. 67-76. 190.

Cle Elum River, south deposit (Balfour Guthrie) (2)


Devine

Loc: T. 22 N., R. 16 E. on Beaver Cr.; about 3 mi. S. of Mt. Stuart, E. of Teanaway R. Ore: Iron. Assays: 46.23% Fe, 16.56% SiO₂, 12.60% Al₂O₃, 0.54% Mn, 1.11% Ni, 1.7% Cr. Ref: 114, no. 5, 1994. 112, pp. 84-85.

Durrwachter (Liberty Lode) (9)


Ellensburg Improvement Co.

Loc: S. of Cle Elum. Prop: 5 claims: Iron Heart, Iron Crest, Nigger Baby, Uncle Sam, Brother Jonathan. Owner: Ellensburg Improvement Co. (1892). Ore: Iron. Ore min: “Brown hematite.” Assays: 54.30% to 55.00% Fe, 7.90% to 8.02% SiO₂, 0.69% to 0.13% S, 0.13% to 0.18% P. Ref: 13, p. 43.

Grand Entry


Iron Peak (4)

Loc: SW1⁄4SW1⁄4 sec. 7, (22-16E), and S3⁄4 sec. 12 and SE1⁄4 and N1⁄4 sec. 11, (22-16E). Elev: 3,700 to 5,000 ft. Access: Reached from Teanaway R. road by 2 mi. of trail up Bean and Beverly Creeks. Owner: In part by E. K. Brown, Ellensburg, and A. R. Jordin, Liberty, Wash. (1944). Ore: Iron, nickel, chromium. Ore min: Magnetite, hematite. Deposit: 7 exposures of sedimentary iron ore along serpentine-Swauk formation contact contain 176,260 tons of exposed, 35,670 tons of probable, and 98,370 tons of possible ore. Dev: A few old open cuts. Assays: An av. of 13 analyses included with others from Blewett and Cle Elum showed 45.55% Fe, 1.79% Cr, 0.90% Ni, 0.05% P. Ref: 17, pp. 66-68. 190. 142, pp. 84-85.

Kittitas Placer

(see under gold, placer)

Liberty Lode

(see Durrwachter)

Manastash Creek (10)


Stafford Creek (6)

contact of Swauk formation with serpentine occurs in two areas about ½ mi. apart. Exposed tonnage is 1,650, probable tonnage 3,040, and possible tonnage 62,150. Dev: Several old open cuts. Ref: 17, pp. 20-23. 90.

Taneum (8)
Loc: On N. Fk. of Taneum Cr., 12 mi. SE. of Easton. Ore: Iron. Deposit: Said to be a deposit of iron ore 10 ft. thick. Assays: Five analyses show an av. of 44.73% Fe, 27.33% SiO₂, 2.79% Mn, 1.20% P, 0.02% S. Ref: 48, p. 12. 142, p. 86. 187, pp. 24-25.

Teanaway (3)
Loc: Probably sec. 12, (22-15E), about 3 mi. S. of Mt. Stuart, E. of Teanaway R. Elev: 5,000 to 6,000 ft. Ore: Iron, nickel, chromium. Assays: Av. of 13 analyses shows 50.13% Fe, 11.71% SiO₂, 9.83% Al₂O₃, 0.34% Mn, 1.09% Ni, 1.65% Cr, 0.27% P, no S. Ref: 48, p. 11. 142, pp. 84-85.

LINCOLN COUNTY
Davenport Placer
(see under gold, placer)

MASON COUNTY
Brown Mule
(see Triple Trip under manganese)

Triple Trip (1)
(see under manganese)

OKANOGAN COUNTY
Aztec (9)
Loc: NW¼ sec. 24, (40-30E), on Buckhorn Mtn. Elev: 5,100 to 5,400 ft. Access: 14 mi. from Toroda by Toroda Cr.-Nicholson Cr. road. Prop: 1 unpatented claim: Aztec. Owner: Henry T. Nelson, Frank Woodworth, G. W. Bartell, and W. O. Miller (1947). Ore: Iron. Ore min: Pyrrhotite, pyrite, magnetite, chalcopyrite. Gangue: Garnet, epidote. Deposit: Contact-meta morphic replacement of limestone. Dev: Caved shaft, drill holes. Assays: Drill hole at elev. 5,278 ft. at depth intervals of 480-490, 339-399, and 884-957 ft. showed 18.6% to 50.6% Fe, 0.01% to 0.01% Cu, 0.02% to 0.02% Mn, 11.8% to 25.6% SiO₂, 0.05% to 0.28% TiO₂, tr. to .005 oz. Au, 0.1 to 0.4 oz. Ag. Ref: 15. 106, 2/4/32. 142, p. 63. 154, p. 46. 181.

Buckhorn
(see Magnetic)

Controller (26)
(see under copper)

Copper Queen (10)
(see under copper)

Copper World Extension (4)
(see under copper)

Crouse Placer (17)
(see under gold, placer)

Crystal Butte (16)

Dutch John (5)
(see under tungsten)

Eureka (24)
(see under zinc)

Finella (8)

Fuller (Pateros, Lone Pine) (6)
Loc: Near center sec. 26, (30-23E), just W. of the nose of the ridge back of Pateros. Elev: 2,300 ft. Access: 2¼ mi. by road from Pateros. Prop: 2 claims. Lone Pine Nos. 1 and 2. Owner: Leased by S. J. Holdren, Cle Elum, Wash., from the A. D. Fuller estate (1949). Ore: Iron. Ore min: Magnetite, a little chalcopyrite. Gangue: Hornblende, actinolite, biotite, calcite, epidote. Deposit: Ore is an intimate intermixture of magnetite with hornblende and actinolite. It occurs in veins and thin lenses in a body of hornblende, actinolite, and biotite. Exposure along the strike is 400 or 500 ft. in length and about 50 ft. wide. Sulphides in the zone are associated with quartz. Dev: 150 ft. of adits and a quarry. Assays: Analysis of better than av. grade ore shows 57.02% Fe, 4.51% SiO₂, 0.05% P₂O₅, 0.097% S, 3.25% TiO₂. A 10-ft. channel sample showed 40.50% Fe, 4.19% Ti, 0.026% P, 0.004% S, 0.02% Cu; and an 18-ft. channel sample showed 24.28% Fe, 3.10% Ti, 0.024% P, 0.038% S, 0.11% Cu. Prod: Reportedly 1,600 tons prior to 1943, 1,250 tons in 1943. 1 carload in 1944. Ref: 48, p. 14. 111, p. 7. 142, pp. 68-69. 157. 158.

Gold Axe (11)

Grant
(see Roosevelt)

Great Western (20)
(see under lead)

Hart Stone
(see Kelsey under copper)

Hidden Treasure (18)
(see under copper)

Home Run (22)
(see under silver)

Iron Cap (23)
Iron Crown (25)

Iron Mask
(see Copper World Extension under copper)

Kelsey (2)
(see under copper)

Lodge
(see Dutch John under tungsten)

Lone Pine
(see Fuller)

MacLean
(see Roosevelt)

Magnetic (Buckhorn, Neutral Aztec) (12)
(see also Aztec and see also Number Nine under copper)

Mohawk
(see under zinc)

Monterey (13)
(see under copper)

Myers Creek (8)

Neutral Aztec
(see Magnetic)

Number Nine (14)
(see under copper and see also Magnetic)

Pateros
(see Fuller)

Peerless (1)
(see under copper)

Ramsey (19)
(see under copper)

Rebecca (28)
(see under copper)

Red Bird (27)
(see under copper)

Roosevelt (Grant, MacLean, Teddy Roosevelt) (15)

Sherwood
(see Dutch John under tungsten)

Similkameen Falls Placer
(see under gold, placer)

Stone
(see Kelsey under copper)

Strawberry Creek Placer
(see Crouse Placer under gold, placer)

Strawberry Lake (7)

Teddy Roosevelt
(see Roosevelt)

Texas Creek
(see Dutch John under tungsten)

Twin Pine (21)
(see under zinc)

PACIFIC COUNTY

Beards Hollow Placer (2)
(see under platinum)

Chetio Harbor (1)
(see also Chetio Harbor under lode gold)
Loc: Sec. 8, (11-10W), at Chetio Harbor at the mouth of Naselle R. Ore: Iron. Ore min: Pyrite. Deposit: Said to be a deposit about 3 ft. wide at the surface and extending for 7 mi. Ref: 158.

Fort Canby Placer (3)
(see under gold, placer)
SKAGIT COUNTY

Eagle (1)

Fairhaven (2)

Hamilton (Iron Mountain) (3)

Iron Mountain
(see Hamilton)

Katie (4)

Last Chance (5)

Mabel (6)

Mayflower (7)

O'Toole (8)
Loc: Hamilton area. Ore: Iron. Ore min: Hematite, magnetite. Deposit: Bodies of ore 15 to 60 ft. thick reported. Assays: Av. of 7 analyses: 54.45% Fe, 9.77% SiO₂, 0.155% S, 0.6557% P. Ref: 13, pp. 41, 44.

Pittsburg (9)
Loc: Hamilton area. Ore: Iron. Ore min: Hematite. Gangue: Quartz. Assays: 29.11% to 32.92% Fe, 28.05% to 32.46% SiO₂, 0.20% to 0.61% P, 8.43% to 8.56% Al, 8.11% to 13.11% Mn, 6.71% to 8.06% Ca. Ref: 140, p. 24.

Puget (10)
Scottish Chief (11)

Tacoma (12)

Tennessee No. 3 (13)

Treadwell (14)

Tyee (15)

Washington (16)
Loc: Secs. 23 and 24, (35-SE), Hamilton area. Ore min: Hematite, magnetite. Gänge: Glaucophane schist. Assays: 56.72% Fe, 5.84% SiO₂, 0.03% S, 0.01% P. Ref: 13, pp. 44, 47, 142, p. 99.

NOHOMISH COUNTY

Arlington (2)

Big Four

Blue Stone (8)

Coe (4)

Darrington (5)

Florence-Rae (9)
(see under copper)

Florence Rae (Rudebeck-Florence Rae) (7)
(see under copper)

Jefferson (3)

Lockwood Pyrite (6)
Loc: NE¼ sec. 36, (29-6E), Sultan dist. Elev: 1,700 to 2,350 ft. Access: Reached from Sultan by way of Olney Cr. road for 4 1/2 mi., thence by Blue Mtn. road and old logging road for 5 mi., thence by trail for 3 mi. Prop: 160 acres held under State land lease by Thomas P. Rook and John R. Allen, Seattle, Wash. (1951). Formerly leased by A. H. Bruggeman and associates, Seattle, Wash. (1943-1951). Joseph F. Koehler, Everett, Wash., claims the same property by virtue of staked claims. (1943). Ore: Iron, sulfur, gold, silver. Ore min: Pyrite, pyrrhotite, sphalerite. Gänge: Quartz, sericite. Deposit: Some 3,500,000 tons of ore to a depth of 500 ft. in 3 tabular bodies, totaling more than 3,000 ft. in length, 1 to 75 ft. thick in metamorphic rock. Dev: 1 adit about 210 ft. long and about 35 open cuts, pits, and trenches. Assays: Assays on more than 150 samples from 5 to 52 ft. in length show 10% to 43% Fe, 9% to 48% S. Av. of 75 analyses shows 25% Fe, 25.8% S. Other analyses show 0.05 to 0.20 oz. Au, 0.49 to 0.99 oz. Ag. Ref: 14, p. 49. 23, pp. 79-86. 46, pp. 169-170. 158, 178, pp. 37-41.

Pilchuck Creek (1)

STEVENSON COUNTY

Bechtol (8)
(see lead)

Bechtol Iron
(see Idler)

Big Iron (1)
Deer Lake (23)


Deer Lake Road (24)


Dunn Mountain

(see Taylor)

Electric Point (10)

(see under lead)

Gladstone (11)

(see under lead)

Grannis

(see Iron Duke-Iron Duchess)

Hill (Iron Jack) (29)

(see also Clay)


I. X. L. (3)

Loc: Sec. 11, (39-37E), Colville area. Ore: Iron. Ore min: Limonite, hematite. Deposit: Ore occurs as small irregular bodies in limestone. Dev: 2 adits, 60-ft. shaft at face of lower one. Assays: 50.48% to 56.58% Fe, 4.90% to 14.90% SiO₂, 2.00% to 2.43% Al₂O₃, 0.32% S, 0.30% to 0.31% P. Ref: 140, pp. 97-98. 142, pp. 46-57.

Idler (Bechtol Iron, Tyee) (13)


Iron Duchess

(see Iron Duke-Iron Duchess)

Iron Duke-Iron Duchess (Grannis) (32)

Loc: Center and SW¼ sec. 9, and NW¼ sec. 16, (30-38E), Deer Trail dist. Access: ¼ mi. S. by trail from a point 4.3 mi. NE. on Cleveland mine road from the Hunters-Springdale road. 18 mi. from railroad at Springdale. Prop: 3 patented claims:
Iron Duke, Duke's Daughter, Duchess. **Owner:** H. J. Grannis, Duluth, Minn. (1941-1949). **Ore:** Iron. **Ore min:** Hematite. **Deposit:** Lens of sedimentary hematite 300 to 400 ft. long and up to 10 ft. thick enclosed in argillite which is a red-bed that can be traced for several miles. **Dev:** 75-ft. shaft, open cuts. **Assays:** Owner reports a specimen showed 62.03% Fe, 0.014% P, 0.019% S. **Ref:** 39, p. 70. 157.

Iron Horse (2)  
**Loc:** Near SW cor. sec. 28, (40-37E), Orient dist. **Access:** About 300 ft. by trail N. of the Pierre Cr. road from a place ½ mi. E. of the Pierre Lk.-Gilbert Lk. road junction. **Ore:** Iron, copper, gold. **Ore min:** Magnetite, pyrrhotite, pyrite, chalcopyrite. **Deposit:** Ore minerals occur as narrow stringers and pods in limestone. Several hundred tons of ore on the dump. Dip needle showed no deflection, indicating small deposit. **Dev:** Open cut, shaft reportedly 75 ft. deep. **Improv:** Cabin (1940). **Ref:** 116, no. 3, 1909, p. 64. 158.

Iron Jack  
(see Hill)

Iron Tunnel  
(see Thompson)

Keystone (McDonald) (12)  
**Loc:** Secs. 17 and 20, (39-42E), 4 mi. E. of Leadpoint. **Access:** 14 mi. by road from railroad at Boundary. **Prop:** 5 unpatented claims. **Owner:** C. R. McDonald, Northport, Wash. (1941). **Ore:** Iron, lead, silver. **Ore min:** Limonite, galena, hematite. **Deposit:** Said to be ore chimneys similar to those at the Electric Point mine, in which is galena carrying small values in silver. **Dev:** 650 ft. of workings mostly in small shafts and open cuts. **Improv:** Cabin (1941). **Assays:** Lead ore shipped said to have run 72% to 60% Pb, 2 oz. Ag. Iron ore avg. 57% Fe. **Prod:** A few tons of high-grade lead ore prior to 1941. Iron ore shipped for use in Portland cement 1936-1940. **Ref:** 39, p. 103. 97, 1937-1941. 158.

Kulzer (Capital, Vigilant) (21)  
**Loc:** Secs. 20 and 21, (31-41E), Chewelah dist. **Elev:** 2,200 ft. **Access:** 6 mi. by road from railroad at Valley. **Prop:** 4 claims: Vigilant, Capital, Climax, Ninety-eight. **Owner:** Leased by Three Peaks Mining Co., Salt Lake City, Utah (1931-1932). Mike Kulzer, Valley, Wash. (1910-1949). **Ore:** Iron. **Ore min:** Limonite, hematite. **Gange:** Dolomite limestone. **Deposit:** Irregular limonite-hematite bodies in limestone at its contact with granite. Ore zone from a few to 30 ft. wide and traceable for 500 ft. Ore also occurs at contact of limestone with overlying basalt. **Dev:** 15 adits, open cuts, and pits. **Assays:** Ore shows on analysis: 53.36% Fe, 8.43% SiO₂, 0.14% P, 0.004% S. **Prod:** About 7,000 tons produced prior to 1914 was used at Tacoma smelter as flux. Small production in 1921. Total of 12,-000 tons reported. **Ref:** 12, p. 80, 13, p. 123, 30, p. 46, 48, pp. 17-18, 58, p. 71, 111, p. 7, 112, p. 156, 130, p. 71, 140, pp. 38-39, 141, p. 67, 143, pp. 37-40, 157, 158, 164, pp. 186-187. 167, pp. 31-32.

Lenna's Luck (Lenore's Luck) (17)  
**Loc:** Near center sec. 30, (35-36E), about 300 ft. down the SW. slope of the ridge. **Prop:** 4 unpatented claims. **Owner:** Mrs. Lenore Marty, Kettle Falls, Wash. (1941). **Ore:** Iron. **Ore min:** Earlhy and specular hematite. **Deposit:** 2 beds of iron ore in quartzite have a max. thickness of 6 in. and are separated by 6 in. of quartzite. Noncommercial quantity of ore exposed. **Dev:** 5-ft. pit. **Assays:** High-grade ore. **Ref:** 30, p. 59. 158.

Lenore's Luck  
(see Lenna's Luck)

Loon Lake (22)  
**Loc:** SE¼ sec. 28, (31-41E), on S. slope of mountain N. of Loon Lake. **Prop:** Copper mine. **Access:** Truck road within 300 ft. of workings. **Ore:** Iron. **Ore min:** Hematite, limonite. **Deposit:** A quartz vein 6 ft. wide in argillite and quartzite contains seams of hematite and limonite as much as 5 in. wide. Noncommercial deposit. **Dev:** Several open cuts. **Assays:** Iron constitutes less than 10% of the vein. **Ref:** 158.

Lucile (7)  
**Loc:** Sec. 19, (40-39E), Northport dist. **Access:** 1 mi. from road. **Prop:** 1 unpatented claim. **Owner:** Ben Hofer and associates, Northport, Wash. (1941). **Ore:** Iron. **Ore min:** Hematite (?). **Deposit:** Said to be "dike" of hematite about 6 ft. in av. width. **Dev:** 8-ft. shaft (caved 1941). **Ref:** 30, pp. 194-105.

McDonald  
(see Keystone)

McKale (20)  
**Loc:** NW¼ sec. 19, (32-40E), on W. side of Buck Canyon, Chewelah dist. **Elev:** 2,550 ft. **Access:** Road. **Prop:** 80 acres of deeded land. **Owner:** Messrs. Kulzer and Woodbury, Valley, Wash. **Ore:** Iron. **Ore min:** Hematite. **Gange:** Quartz. **Deposit:** Quartzite, and siliceous limestone in which is said to be a 2-t. vein of hematite. **Dev:** Adit caved 40 ft. from portal. **Ref:** 36, p. 45. 104, p. 187.

Mally (26)  
**Loc:** NW¼ sec. 11, (31-38E), SW. of the 3,814-ft. peak in the Huckleberry Mts. **Elev:** 4,400 ft. **Access:** 1 mi. by trail from end of old logging road just N. of the summit on the Cedonia-Blue Cr. road. **Owner:** Joe Mally (1944). **Ore:** Iron, reportedly chromium. **Ore min:** Hematite, martite, magneteite. **Gange:** Quartzite. **Deposit:** A bed of hematite-rich argillite or quartzite interbedded with quartzite. Bed has a max. thickness of 20 ft. and is exposed discontinuously for a distance of a mile. **Dev:** 20-ft. trench. **Assays:** Sample from the 20-ft. trench reportedly assayed 35% Fe, 1% Cr. **Ref:** 158.

Marcus  
(see under gold, placer)

Mullen Iron  
**Loc:** Sec. 12, (37-37E). **Access:** Near road. **Prop:** 40 acres of deeded land. **Owner:** Mr. Mullen, Chewelah, Wash. (1941). **Ore:** Iron, gold. **Ore min:** Pyrrhotite. **Dev:** Caved adits. **Assays:** Said to carry small values in gold. **Ref:** 30, p. 78.

Napoleon (5)  
**Loc:** NW¼ sec. 3, (37-37E), Orient dist. **Elev:** 2,350 to 2,600 ft. **Access:** 2 mi. by road from railroad at Boys. **Prop:** 2 patented claims. **Owner:** Ideal Cement Co., Spokane, Wash. (1935—). P. Burns & Co. (1904-1905). British Columbia Copper Co. (1905-1916). Spokane Portland Cement Co., Spokane, Wash. (1843-1854). **Ore:** Iron, copper, gold. **Ore min:** Pyrrhotite, pyrite, magneteite, chalcopyrite, limonite, a little hematite. **Gange:** Amphibole, garnet, calcite. **Deposit:** Amphibole intruded by monzonite porphyry is host of the ore minerals. Contact deposit developed to width of 300 ft., length of 700 ft., and depth of 250 ft. Ore in lower workings is primary sulﬁdes and at upper workings is mostly iron oxide. **Dev:** 1,230 ft. of surface work, 1,200 ft. of underground work, diamond drilling. Production is from open pit (1932). **Assays:** Run-of-mine ore said to contain approx. 33% Fe, 12% S, 10% CaO, 30% SiO₂, 0.3% Cu, 0.05 to 0.1 oz. Au, tr. Ag. **Prod:** 1907-1910, 1913-1917, 1918-1935. **Ref:** 7, pp. 89-91. 30, pp. 85-86. 33, 1907, pp. 391-392; 1908, p. 418. 48, p. 20. 97, 1907-1910, 1913-1917, 1928-1940. 164, 8/30/32, p. 29. 114, no. 5, 1909, pp.
Northwest Magensite (27)


Pittsburgh


Read (33)


Scotia (4)

(see under copper)

Silver King

Loc: Valley dist. Ore: Iron. Ore min: hematite and some magnetite. Deposit: Veins and bedded deposits principally in limestone and porphyry. Assays: 67.56% to 68.10% Fe, 1.12% to 1.66% SiO₂, 0.25% to 0.38% S. Ref: 140, pp. 36, 38.

Taylor (Dunn Mountain) (19)


Thompson (Iron Tunnel) (9)

Loc: E½ sec. 23, (39-41E), at NE. end of Deep Lk. Elev: 3,075 ft. Access: 14 mi. by road from railroad at Northport. Prop: 6 claims: Iron Rich, Iron Farm, Iron State, Iron Tunnel, Iron Slope. Owner: S. J. Morin, Spokane, Wash. (1949-1952). Ore: Iron. Ore min: Limonite, goethite, turgite. Deposit: Limonite occurs as vein in dolomite. It is 3½ to 60 ft. wide and continuous for 800 ft. A continuation of the vein has an av. width of 10 ft. and is traceable for 1,000 ft. Dev: 85-ft. adit, numerous pits and trenches. Assays: 16 representative samples from an av. width of 17.5 ft. showed an av. of 53.78% Fe, 0.155% P, 4.29% In, 0.04% Mn, 0.1% Pb, 0.1% Zn, 0.5% S, 0.84% Ti. Prod: 1941. Ref: 36, p. 97. 48, p. 20. 73, pp. 97-98. 141, pp. 68-69. 142, pp. 51-54. 150, p. 40. 158.

Tyee (see Idler)

Vigilant

(see Kulzer)

Wolfrey (35)


Woohana

(see Bechtol under lead)

THURSTON COUNTY

St. Clair Lake (Talcott) (1)


Talcott

(See St. Clair Lake)

WHATCOM COUNTY

Bellingham Placer

Loc: Bellingham area. Ore: Iron, gold. Ore min: Magnetite, hematite, limonite. Deposit: Samples of black sand tested by the U. S. Geological Survey. Assays: Two samples tested. One carried 1,978.0 lb. per ton of magnetite and hematite, the other 1,427.0 lb. per ton of limonite. Each carried tr. Au. Ref: 38, p. 156.

Church Mountain (3)


Hematite

(see Sumas Mountain)

Herrings

(see Sturman and Herrings)

Jim Mountain (5)


Ruth Mountain Pyrite (4)

of the mountain 20 ft. wide, one halfway down 15 ft. wide, one near down 20 ft. wide, and one near the river 10 to 15 ft. wide. **Dev:** Short crosscut adit on 15-ft. vein. **Assays:** Reportedly $0.28 to $176.00 Au. **Ref:** 158.

**Sturman and Herring (1)**

**Loc:** Secs. 8 and 17, (40-3E), near Lynden. **Elev:** 100 ft. **Prop:** Farm land. **Owner:** Thomas Herring and Mr. Sturman. **Ore:** Iron. **Ore min:** Limonite (bog iron). **Deposit:** Typical of several bog deposits in the vicinity of Bellingham, Ferndale, and Lynden. The Sturman deposit covers an acre or so to an average depth of 2 ft. The Herrings deposit may cover 5 acres and varies in thickness from 0 to 2 or 3 ft. **Assays:** 39.87% Fe, 19.49% SiO₂, 0.13% P, 0.013% S. **Ref:** 48, pp. 22, 142, pp. 105-106. 158. 179, pp. 42-43.

**LEAD**

Properties—Lead is a bluish-gray metal, which on rough surfaces has a bright luster that soon tarnishes on exposure to air. It is one of the heaviest metals, is very soft and highly malleable, but has only slight tenacity and low ductility. It is a poor conductor of electricity, is very plastic, tends to flow under very light loads, and may be extruded easily to form wire or tubes. Lead as an unusual and useful combination of properties in saving a low melting point but high boiling point. It is semicrystalline in an inert to common corrosive conditions, and is used upon very slowly by dilute acids. It forms two series of chemical compounds, in which it shows valences of 2 and 4. Other properties are given in the table on page 12.

Uses—Lead was probably one of the first metals to be won from its ores by smelting. In 1950 about 52 percent of all lead consumed went into three products—batteries (12 percent), cable coverings (11 percent), and tetraethyl lead for high-octane gasoline (9 percent). About 9 percent of the total consumption went into paint pigments. The two last mentioned uses the lead is in the form of chemical compounds; other important uses of lead are in dyes, insecticides, ceramic glazes, medicines, matches, oil refining, and gas production. Other uses of lead in the metallic form are for ammunition, cabling metal, casting metal, sheet metal, sheet lead, lead plating, collapsible tubes, foil, weights, ballast, shot, and pipe lines for corrosive liquids. Lead is a constituent of many alloys, antimony being the most common alloying metal, but common also are tin, arsenic, and calcium. Some of these alloys are used as solder, type metal, bearing metal, pewter, and terre metal.

Production—In 1951 there were 11 lead smelters in the country, 1 each in California, Colorado, Idaho, Illinois, Kansas, Missouri, Montana, New Jersey, and Texas, and in Utah. An important factor in the lead market is secondary lead, the recovery of which has exceeded mine production of new lead each year for many years. The first recorded production of lead in Washington was in 1888, and some lead has been mined each year since then, although the amount has varied greatly from year to year. The record was in 1952, when 11,744 short tons valued at $3,761,568 was produced. The previous record was in 1950, with 10,334 tons, which ranked Washington ninth among the states in lead output, and amounted to 2.4 percent of the total United States production for that year. Lead accounted for 26 percent of the value of metallic ore produced in Washington in 1952. Total output from 1898 through 1952 was 124,766 short tons, valued at $25,617,254. Some lead has been mined in each of 10 different counties, but of recent years most has been from the Metaline district in Pend Oreille County and the Bossburg and Northport districts in Stevens County. In 1950 these 3 districts produced respectively 7,445 tons, 2,640 tons, and 237 tons of lead and ranked 10th, 20th, and 41st among the lead-producing districts in the United States. The mine of the Pend Oreille Mines & Metals Co. was the leading lead producer in the state in 1952.

Prices—The price of lead has very closely paralleled that of zinc for at least the past 60 years, and the prices of the two metals have been close to the same figure at any given time. During the period 1897 through 1950, the yearly average prices of the two metals have been within 2½ cents of each other each year except for the years 1915, 1916, 1947, 1948, and 1949. The spread was greatest at 8.5 cents in 1915, and the average spread for the years 1947 to 1949 was 3.86 cents. During the 25 years preceding 1953 the lowest price reached was 3.18 cents per pound in 1932 and the highest was 21.5 cents in late 1948. From 1900 until World War 1, lead prices averaged between 4 and 6 cents per pound. The yearly average price advanced to 8.71 cents in 1917, but by 1921 had fallen to 4.55 cents. It then rose to 9.02 cents by 1925, after which began a continued drop which ended at the low of 3.18 cents in 1932. The price rose to 6.01 cents by 1937, dropped a little in 1938, then rose again to 6.5 cents by 1942, where it was maintained by government regulation through 1945. When the ceiling price restriction was removed the yearly average price rose rapidly to 18.04 cents by 1948, and late in that year the all-time high quotation of 21.5 cents was reached. The following year the price was dropping, and the average for 1950 was 13.3 cents per pound. The 1951 average was back up to 17.3 cents, but by April 1953 the price had dropped back to 12.5 cents. By October 1954 the price was back to 15 cents, where it remained through June 1955.