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Bittick Property This property is about 6½ miles east of Winkleman. The camp is located in Rattlesnake Basin and the claims are in sec. 17, 18, 19, 20, R17E, T5S.

Mr. Bittick thought that this was a gold-silver property but after taking several samples and sending them in for assay I have come to the conclusion that it is of no value.

Some gold and silver is found in a calcareous shaly bed under which is the Barnes conglomerate.

Cloud Burst Mine This property is just west of Chief Butte in the Owl Heads Mining District.

This is an old mine and about $80,000 worth of gold and copper has been taken out of a 300 ft. shaft here.

The vein is in pre-Cambrian granite.

North Star Mining Company This property is located about 8 miles east of Picacho Reservoir. There are two groups of claims here, the North Star Mining Company group, and the Copper King group. These claims were staked in January of 1948.

The area is located in pre-Cambrian granite and sulphides may be seen in some of the cuts. There appear to be a large number of veins striking northwesterly and dipping to the west.

There is some chalcopyrite boxwork here and a lot of copper stains similar to the area around the Owl Heads.

The location of the area is in sections, 5, 6, 7, 8, R10E, T7S.

Sharingson Claims This property is across the Gila River from Cochran and is located in NE ¼ Sec. 6, R12E, T4S, N½ Sec. 5, R12E, T4S, W½ Sec. 4, R12E, T4S, S½ of the S½ of Sec. 32, R12E, T3S.

This property has some nice looking chalcopyrite boxwork and limonite after chalcocite in the pre-Cambrian granite capping.

Several holes were drilled here at one time and according to some of the old-timers they were drilled by a Bud Wilson.

A typed report on these claims was sent to Mr. Twitty and Mr. Pennebaker.

U.S. Vanadium Co. Mine This property is located up the old Troy road about 4 miles from the Kelvin-Winkelmann highway.

In this area there were a large number of veins in conglomerate and Dripping Springs quartzite. Northeast of the above described area and in the same wash there were some more vanadium diggings. The Chavez group of claims were located here.

Packard and Cornett Claims The Nora Belle claims owned by A.M. Packard and Joe Cornett are located about 30 miles SW of Globe, 8 miles E of Ray, 18 miles N of Christmas, and at the head of Dripping Springs Wash.

This property had been opened for only about three weeks when I visited it and not much work had been done.

Wire gold is found here in the Dripping Springs quartzite. All of the gold is in the fines after blasting and no crushing is necessary.

I consider this a good prospect.

Wooley Mine This property is in the N½ of Sec. 33, T4S, R13E. Leo Wall of Ray owns twelve claims covering this property. The mining claims are also on a patented grazing homestead owned by J.H. England and C. W. England, both of Coolidge.

Two tunnels, 301 ft. and 262 ft. in length are the only developments giving information of value. A 500 ft. shaft and two 100 ft. shafts are now inaccessible.

A report on this property was submitted to me by Henry W. Nichols of Oracle, Arizona. I prepared a summary of it March 7, 1949

Antelope Mine This property is located in Sec. 20, R15E, T6S. At the present time the mine is closed down. The watchman there said that the vein of copper ore pinched out at about 400 feet.

The shaft is sunk in the Apache group.

Grand Prize Mine The location of this property is in Sec. 19, R14E, T6S. This property appears to have been abandoned for some time. There are two shafts here and they appear to be quite deep.

This apparently was a gold mine but some copper and lead may be seen on the dumps.

It is in the pre-Cambrian granite.

The Arizona Consolidated Gold and Copper Company This property is located in Sections 26, 27, 28, 33, 34, 35, R11E, T4S.

The claims are called the B.J.L.'s and I saw one that was No. 38. We were not invited to inspect this property at the time of my visit so our scouting was limited.

I did note some nice box work though and noted that quite an area here has a nice color.

I understand that the property is now being diamond drilled but have not heard about any of the results.

I would recommend that this property be looked over and mapped if possible.

Several large veins may be seen in Big Wash striking directly for this property.

Copper Butte This property is located in Sec. 19, R13E, T3S and Sec. 24, R12E, T3S.

This is a small open pit copper operation. The copper is being mined from the Gila conglomerate and was of value to the Hayden smelter because of its high silica content.

At the present time this operation is closed down because of the drop in the price of copper.

Recently, considerable ground has been staked and optioned around Copper Butte and at the present time the South American Mining and Development company is diamond drilling here.

These copper stained conglomerates may also be seen at other places in this general area. They are present just across the river north from Cochran, up the large wash north of Cochran near Knudle Mountain, in Section 36, R.2E, T3S, and at other places in the general area where smaller amounts are present.

At the present time Kennecott Copper has an option on the ground in Section 36 from Lee Acton of Ray and several other men.

I would recommend some additional scouting in the area east of the Silver Bell mine and along the contact of the Pinal Schist and the pre-Cambrian granite.

Silver Queen Group This group of claims is located in Sec. 1, R13E, T3S and is comprised of 24 claims. The property is owned by Leo Wall of Ray, Arizona.

There are a few high grade veins here but the property is not large enough to be of interest to a large mining company.

A Mr. T.A. Smith of the Butte Copper Company of Silver Plume, Colorado wrote a geological report on this property.

According to his theory there is a large underlying orebody which will be found at a depth of 300 ft. I tend to disagree with him though.

Pinal schist is the formation here.

Hughes Claims These claims are located in Sec. 5, 8, R13E, T3S. The area is in pre-Cambrian granite and there are some pockety veins of lead and silver ore with considerable wulfenite present.

Mr. Tom Parker of Ray is in charge of this property.

Other prospects and claims visited
(This is only a partial list as some were not worth noting)

Silver King Group B.S. Burbridge Located at the base of Mineral Mt. in the Florence Quadrangle. Pb-Ag

Anglin, J.C. Located about 2 miles SW of Ripsey Mine . There is about a ten foot wide zone of chalcopyrite boswork here.

Unnamed Claim Located south of Kelvin and West of Riverside. Andy Perkins and A.K. Miller. Some crysocolla and turquoise here.

Red Hill Located about 1 mile SW of the Ripsey Mine. There is some chalcopyrite boxwork and relief limonite after chalcocite here but the area is quite spotty. On the east side of the hill there is a shaft and some nice looking sulphides can be found on the dump. The claims here are owned by Mr. Martin Fishback..

Lone Star Group Located S65°W of the U.S.G.S. marker on the hill south of the Ripsey Mine. Mr. Ed Halderman is the owner of these claims. There is a shaft here and a tunnel. Pb-Zn-Cu.

John Tynes Claims This group is located near Whites Well and may be found on the Florence Quadrangle. There are a number of veins here striking SW ¼NE and ~~con~~ a considerable amount of work has been done at some time. The mineralization is in pre-Cambrian granite and was mined for Cu.

Gold Standard Located about 2½ miles south of the Ripsey Mine. Owned by J.C. Anglin. Au

Hercules Located in the Ripsey Mining District about 18 miles south of Ray. Owned by Ben and J.M. Mariscal. Some Cu.

Anaconda Mining Claim Located about 1 mile west of the Ripsey Mine. Owned by Pollard Pearson. Fair looking area of chalcopyrite boxwork.

Jack Group Located south of the Anaconda claim about ½ mile. Owned by John D. Mac Carthy. At the present time Leo Wall of Ray has restaked this in his name though. There is a shaft here and at one time quite a bit of work has been done. The remains of an assay office may be seen here and quite a bit of good copper ore is on one of the dumps. The location here is in the SE¼ and the SW¼ of Sect. 15, R13E, T5S.

Roaring Gulch Located about 1 mile SW of the Ripsey Mine. At one time there was a mill here and the cement foundations are still standing. The ore has been stoped out to the surface in several places. This was on a vein sililar to the Ripsey Mine. The property is owned by Joe Fishback.

Two Friends Located south of the Ripsey Mine, N65°E of an old Ranch, and in a silver mining area. This area is in the Troy quartzite. The Silver Hill and Gilpin claims are also in this area.

Rare Metals Mine Located in Sec. 17, R13E, T4S. Owned by A.H. Johnson. There is a shaft on this property but at the time of my visit it was filled with water. On the dump there was some very nice looking chalcopyrite and molybdenite.

Suspicion Claims These claims are located directly East of Mineral Mt. in the volcanics. The main vein here strikes N45°W and is about 10 feet wide. Cu-Pb-Ag.

Sunset Copper Company Located up Box Canyon about 2 miles above the Gilbert cabin. There is a shaft here and it is apparently quite deep as there is quite a large dump. The mine is owned by a Colorado company and is not running at the present time. The vein is in the Pinal schist and some chalcopyrite was seen on the dump.

Herrings Mine Located up a tributary of Box Canyon above the Gilbert cabin. There is a small vein here in the Pinal Schist. The George Meyers mine is also in this vicinity. Cu-Pb-Zn.

Tom Thumb Located to the east of the intersection of the Box Canyon road and the Cottonwood Canyon road. The mine is S60°W of Mineral Mt.. There is a shaft here and some Cu and Pb has been taken out.

Ajax Mine Located about 1½ miles south of Reymert and NE of Mineral Mt.. A small mill was recently built here and should be running by now if the drop in the price of lead has not forced them to close down. This area is similar to the Victor Lamb property which lies just to the east of it.

Woodpecker Claims Located just north of the Ajax mine. There are several patented claims here and considerable work has been done. This is another lead property similar to the Ajax. The veins strike N70°W and are in the Pinal schist.

Transvall Located 1½ miles west of the old Reymert mill. A quartz vein running through diabase has some copper stains in it here.

Red Hill Located in Sec. 29, R11E, T2S. There is a small area of Chalcopyrite boxwork and relief limonite after chalcocite here. There is both granite and schist present.

Reymert Located in Sec. 22, 23, 26, 27, R11E, T2S. There are seven patented claims and four mill sites here. We were not able to look at the main workings but did look at the south end of the property. There was a vein here striking about N5°E and which was about 8 feet think. Much of the vein had been stoped out. The vein was apparently mined for its silver content.

Cactus Glade group Located ¼ mile east of the old Reymert smelter. There were several small veins of silver ore here. These claims were owned by Joseph V. Ortega.

Depression Group Located near Brady spring on McPherson wash about 2 miles SW of Black Mt. which is on the Winkelman quadrangle. Chrysocolla, turquoise, and some chalcocite were in some small veins in the pre-Cambrian granite here.

California Copper Group Located about ¼ mile west of the old Barkerville school. Owned by Best, Toruerlin, Allison, and Edgar.
A small vein in pre-Cambrain granite strikes N40°W and dips 80° W here. Cu

Gold Hill Group Located 1 mile north of the Butte railraad siding on the west side of Butte Wash. Owned by Gortas, Whitlow, and McKenzie. Several small quartz veins here. The Joe Wing Yuen and Y.V. Golaz claims are also in this area.

Owl Heads Area Located about 26 miles south of Florence and west of the Florence-Tucson highway. This area includes the Copper King Group, Durham, O.I.C., Giant Group, Javelina Group, Copper Glance Group, Olivia Group, Owens Claims, Various Edwards Claims, and others. This is the area recently drilled by Magma and A.S.&.R. and apparently abandoned.

White Ridge Located about 2 miles east of Gray Back Mt. in the Florence quadrangle. Owned by Eselzo and Panfilo Coronado. There is about an 8 inch vein of quartz in diabase here.

Arizona Gold Located about ½ mile west of the Zelleweger station. A 2 ft. vein the the pre-Cambrian granite has been stoped here for about 25 feet. Owned by J.M. Aguayo.

Jim Group Located about 1 mile north of the Copper Butte mine. There are 49 claims in this group. Mr. C.M. Taylor of Box 1494, Tucson, Ariz. is the owner. The area is all covered with conglomerate and volcanics and no mineralization is in view at the surface.

West End Mining Co. Located in Sec. 32, R13E, T4S and Sec. 33, R13E, T4S. They have a mining lease from the state and the number of the lease is 42185-S. The owners are J.C. Ballard, J.C. Hyndes, and C.T. Phillips. There is some copper mineralization here but it is quite poor. The rock is pre-Cambrian granite.

Barkerville Group Located in the SE ¼ of Sec. 7, R14E, T7S and the SW¼ of Sec. 8, R14E, T7S. There was a flat dipping 1 ft. vein of galena here that was striking about N.S. SW of here was the Black Mt. Group and the Jule Group. They were similar to the Barkerville Group.

Comet Located in the S½ of the SE¼ of the SE¼ of Sec. 8, R16E, T8S about 3 miles north of Mammoth. Some copper stain was present here. The rock was pre-Cambrian granite. Owned by Reynolds and Cline.

Copper Basin Claims Located NW. of Mammoth. A churn drill hole had been drilled on No. 7 which is about ¼ mile NW from the SE corner of Sec. 9, R16E, T8S. Very little evidence of copper mineralization was evident from the surface exposures. The rock was pre-Cambrian granite. Owned by Frank Solas.

El Tigre Group Located in the W½ of the NE¼ of the NW ¼ of Sec. 16, R10E, T8S. This group is similar to the Comet and Copper Basin Groups. Owned by Reynolds and Cline.

Red Hills Group Located about 1 mile east of steel storage tank in the Black Hills NW of Mammoth. Owned by Paul Wade. The area is in pre-Cambrian granite and there are quite a few veins of chrysocolla running it in a N direction.

Silver Crescent Mining Co. Located about 4 miles north of Signal Peak on the Wilkelman Quadrangle. Some work has been done here in the past but they abandoned the workings and nothing is in the area not. Several small N-S veins of copper mineralization were noted in the pre-Cambrian granite.

Copper King Group Located just west of the North Star Mining Group which has already been described. Owned by Randall, Cunningham, and Nelson. Quite a little chalcopyrite boxwork was seen here but it looks like a lot of veins and not a disseminated ore body.

Aggaster Claim Located about ¼ mile south of Knudle Mt. and up a wash which is just north across the river from Cochran. There is some copper stained conglomerate near here and according to several old prospectors there is a good looking area just north of here. The country is so rough that I don't imagine many people have been in here. This claim is in the Pinal schist and was staked by Campbell, Bauer, and Crafton in 1921.

I looked at many more claims but I don't feel that they are worth mentioning as they were either located where there was no mineralization or very little.

KELVIN-SULTANA COPPER CO. ARIZONA

Office: 339 Monadnock Bldg., Chicago, Ill. Mine office; Kelvin, Pinal Co., Arizona. Officers: A. H. Westfall, pres.; Geo. P. Baldwin, v.p.; H. Carman Lutkin, sec.; Jas. W. Nye, treas.; preceding with Jas. A. Russell, Donald G. Ross, and Dr. J. A. Glenn, directors. A. L. Flagg, supt. Inc. April 19, 1910, in Arizona. Cap. $3,000,000, increased Dec. 1914, to $5,000,000; shares $1 par, nonassessable; issued 3,842,752 shares. Authorized bond issue to Nov. 1, 1919, $200,000, $198,700 outstanding. Company was a reconstruction of the Sultana-Arizona Copper Co., financed by the Baldwin Syndicate of Chicago and the entire floating indebtedness eliminated.

Property: 21 claims and 3 fractions, 530 acres; all patented but 2 claims and fraction, in Ray-Kelvin district, in Pinal county, Ariz. Company also owns 30 acres of gold and silver lands in Ures district of Mexico.

The Arizona mines were formerly known as the Riverside and Bryan groups, and are across the Gila river from and 1½ miles S. E. of Kelvin, Management reports 21 contact deposits, between granite and diorite, of which 5 veins have been developed; reported as 18" to 6' wide, and estimated to average 5' in width, with a generally N. W. trend. The property also was said, formerly, to show a 6' vein carrying chalcopyrite in the lower workings, from which shipments to the Humboldt smelter returned 8.7 to 10.6% copper. Average tenor of ore in all veins is estimated by the company as 6% copper and 3 to 4 oz. silver per ton.

Development: by 6 shafts, deepest 590' and the Hunter and Agnes tunnels. About 10,000' of underground work has been done and is said to show widening of veins at depth. A 165' shaft on Diamond Joe claim is reported by Ralph Harris, mining engineer, to cut cuprite, chalcocite, chalcopyrite and pyrite. Vein No. 2 is said to show 6' of 4% ore and in a winze from the 300' level 3' of 6% ore. On the Bryan claim, a 175' incline shaft has exposed shipping ore, reported to be very rich.

A crosscut on the 540' level, being driven 2,000' and 1,267' long, Feb. 1916, is reported to have intersected 3 veins which are now under development; No. 510--a vein 4' wide, carrying 2% copper ore and No. 510-b, about 1' wide, with from 3-17% copper, 4½% lead and 2½ oz. silver.

Equipment: includes a 575 h.p. oil-burning electric plant, a 1-mile aerial tram across the Gila river, to the railway station of Kelvin and a concentrator of 200 to 300 tons daily capacity.

1916

KELVIN-SULTANA COPPER CO. Sheet Two

Production: of old company, to end of 1909, was 522 tons of ore, yielding $12,450. Production in 1907 was 45,838 lbs. fine copper and 653 oz. silver. Daily shipments of 20 tons to the Hayden smelter were made in summer of 1913. The mill has been closed down until sufficiently large reserves have been blocked out to insure profitable operation. Lessees are working on the surface and have made shipments said to average 8-14% copper.

Company not favorably regarded.

RAY BOSTON COPPER CO. ARIZONA

A reorganization of the "Kelvin-Sultana Copper Co."

Address: Suite 400, 372 Boylston St., Boston, Mass. C. E. Hart, mgr., Box 995, Miami, Ariz.

Officers: A. H. Westfall, pres.; O. M. Gale v.p.; G. O. Swarts, sec.; G. P. Baldwin, treas, 732 Monadnock Block, Chicago, Ill, C. E. Hart, gen-mgr.; E. P. Worthington, supt.

Cap. $5,000,000.

Property: 21 claims and 3 fractions, 530 acres, all patented land but 2 claims and fraction, in Ray-Kelvin district, Pinal County.

Company also owns 30 acres of gold and silver lands in Ures district of Mexico.

The Arizona mines were formerly known as the Riverside and Bryan groups, and are across the Gila river from and 1½ miles S. E. of Kelvin. Management reports 21 contact deposits, between granite and diorite, of which 5 veins have been developed; reported as 18" to 6' wide, and estimated to average 5' in width, with a generally N. W. trend. The property also was said, formerly, to show a 6' vein carrying chalcoyprite in the lower workings, from which shipments to the Humboldt smelter returned 8.7 to 10.6% copper. Average tenor of ore in all veins is estimated by the company at 6% copper and 3 to 4 oz. silver per ton. From published reports the deposits appear to be gash veins, pinching out at shallow depth.

Development: by 6 shafts, deepest 590' and the Hunter and Agnes tunnels, with about 10,000' of underground work. Crosscuts on the 540' level, driven 2,000' and 1,267' are reported to have intersected 3 veins. Old workings are described in Vol. XIII of this book.

Equipment: includes a 575 h.p. oil-burning electric plant, a 1-mile aerial tram across the Gila river to the railway station of Kelvin and a concentrator of 200 to 300 tons daily capacity.

Production: of old company, to end of 1909, was 422 tons of ore, yielding $12,450. Production in 1907 was 45,838lb. fine copper and 653 oz. silver. Daily shipments of 20 tons to the Hayden smelter were made in summer of 1913. The mill

has been closed down until sufficiently large reserves have been blocked out to insure profitable operation.

To March, 1921, the new owners did 1,417' of diamond drilling in one hole at an angle of 68° to meet No. 2 vein.

1922

RIPSEY COPPER CO. ARIZONA

Address: R. P. Sharpe, mgr., 1216 State Life Bldg, Indianapolis, Ind.

Officers: M. P. Woody, pres.; J. W. Sharpe, v.p.; M. W. Hopkins, sec.; Henry Severin, treas., with Dr. L. M. Green and W. H. Adams, directors.

Inc. 1914, in Arizona, to succeed Arizona Pacific Copper Co. Cap. $6,000,000; $1 par; all issued and owned by four directors. Securities Trust Co., Indianapolis, registrar. Stock transferred at company office. A $400,000 bond issue was authorized in 1920 to provide funds for further development.

Property: 12 claims, 240 acres, in Pinal county, 5 miles S. of Kelvin, said to show a disseminated deposit, 1,650' x 600'; in granite diorite, with N. E.-S. W. course. The ore is mainly chalcocite with copper oxides and carbonates, averaging 1.78% copper and $1.50 in gold and silver.

Development: by 500' vertical shaft and tunnels.

Equipment: includes hoist, compressor and pump.

Property shut down since 1907, but resumption of operations planned for 1921.

RAY-ARIZONA COPPER CO. ARIZONA

Address: Fritz Bock, Jr., mgr., Kelvin, Arizona
Officers: Fritz Bock, pres.; M. A. McCabe, sec.

Property: 42 claims, on the south side of the Gila river, opposite Kelvin, Gila county, shows monzonite porphyry in mineralized granite with impregnations and veins carrying copper ore.

Development: by tunnel, shaft and churn-drilling. Lessees shipped several cars of copper ore in 1916 to Hayden smelter. Idle.

KELVIN-SULTANA COPPER CO. ARIZONA

Fully described in Vol. XIII. Company was a reconstruction of the "Sultana-Arizona Copper Co.", financed by the Baldwin Syndicate of Chicago.

Property was sold by receivers in January, 1919, to bondholders, who then reorganized under the name of "Ray Boston Copper Co.," which see.

1916

RAY-ARIZONA COPPER CO. ARIZONA

P. T. McGrath, pres. and mgr., Kelvin, Ariz. Property: 42 claims, on the south side of the Gila river, opposite Kelvin; shows schists cut by igneous rocks, with impregnations and veins carrying copper ore. Development, by shaft and churn drilling. F. L. Underwood is reported to have financed the company under an option on 51% of the stock for $250,000.

Equipped with Leschen tramway. Lessees shipped a car of copper ore early in 1916 to Hayden smelter.

1931

RIPSEY COPPER CO. ARIZONA

Address: M. P. Woody, pres., 2920 N. Capital Ave., Indianapolis, Ind. Idle many years. Described in Vol. XVI.

1931

SHAWMUT MINING COMPANY ARIZONA

Address: Robt. T. Charlton, 100 Milk St., Boston, Mass. Mine Address: Percy Williams, mgr., Tucson, Ariz. No recent information. Fully described in Vol. XVII.

American Code
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