

Jachon Mine is 12 miles north of Barstow and $6\frac{1}{2}$ miles northeast of Williams Well. Elevation 4000 feet. Owner, R. M. Dillingham, Barstow.

Three fissure veins in granite, varying from 8 inches to 4 feet in width, carry oxidized ores of copper and gold. Strike NE.-SW. Development consists of 120-foot shaft sunk on 70° incline and 60 feet of drifts. Idle.

Juanita Group, in the Morrow District, adjoins the Juanita Mine. Idle for many years.

Bibl: Bull. 50, p. 335.

Juanita Mine is in the Morrow District, 26 miles east of Johannesburg. Idle.

Bibl: Bull. 50, p. 335.

Josie K. Mine is in the Ibex District, 6 miles west of Needles and 3 miles south of Hartoun. Idle.

Bibl: State Mineralogist's Report XV, p. 787.

Lake View Mine is in the Silver Lake District, 16 miles south of Silver Lake Station on the Tonopah and Tidewater Railroad.

The ore occurs on a contact of porphyry and limestone, and consists of chalcopyrite.

Developed by 50-foot shaft and 600 feet of tunnels. Idle.

Leastalk Gold and Copper Company is in the Barnwell District. Idle.

Bibl: State Mineralogist's Report XV, p. 787; Bull. 50, p. 330.

Leastalk Gold and Copper Mining Company has 12 claims in the Vanderbilt District. Idle.

Bibl: Bull. 50, p. 336.

L. and L. Group of Mines, comprising 17 claims, is located in the Ord Mountain District, in Sec. 17, T. 7 S., R. 3 E., S. B. M., 9 miles southeast of Newberry Springs. Owner, L. and L. Mining Company; O. A. Lau, president, Riverside, California.

Several roughly parallel veins occur in this property. On the Gigantic claim a shaft sunk to a depth of 50 feet on a 50° inclination follows a vein, the strike of which is NW.-SE., dip 50° SW. This quartz vein, 12 inches to 18 inches wide, contains malachite, azurite, bornite and chalcopyrite. The footwall is diorite and the hanging wall is monzonite. Reported values up to \$15 gold and 9% copper. In the hill to the northwest of this shaft, a crosscut tunnel was driven 469 feet N. 70° E. and has about 200 feet to go before intercepting this vein.

Some 300 feet east of the shaft is another quartz vein, strike N. 10° E., dip 75° W. It is 3 feet wide and the ore in the vein is from 12 inches to 18 inches wide.

Lucky Jim Mine, consisting of 5 claims, is in the Old Woman Mountains, T. 1 N., R. 21 E., S. B. M., about 20 miles north of Milligan, a station on the Parker cut-off of the Santa Fe Railway. Elevation about

2700 feet. Owner, E. J. Morath, 521 Walnut Street, Long Beach, California. Under lease to F. A. Crampton, on the property.

Quartz vein accompanies a porphyritic dike in granite. As is usual in this type of vein, the lenses are found on either wall of the dike and probably overlap. Strike is N. 65° W., dip about 85° N. The vein is reported to average 4 feet in width. The vein matter is a vitreous quartz. Minerals observed were chlorides and bromides of silver and chalcopyrite. Occurrences of argentite and ruby silver are reported, but none were seen. The principal values are in silver.

Shipments aggregating approximately \$35,000 in value have been made since the opening of the mine in 1911. These shipments of selected ores are reported to have run from 200 to 400 ounces of silver, \$3 to \$4 gold, about 5% copper and 5% lead.

Principal development consists of 500 feet of crosscut tunnel driven north, which is connected with the surface by means of a 200-foot shaft. This shaft was the original opening and considerable work was done in it between the tunnel level and surface, which is now inaccessible. No doubt all ore above the tunnel has been stoped. On the tunnel level, a drift west has been driven about 200 feet and one east for a distance of 150 feet. A winze 85 feet deep was sunk at the intersection of the crosscut and drifts. At 150 feet west of the crosscut, a winze has been sunk to a depth of 35 feet and at about 165 feet west of the crosscut there is a 100-foot raise. As stoped the ore shoot appears to have been from 75 feet to 100 feet long.

Three men are employed sinking the west winze, which is now 35 feet deep, and a drift north has been started at the bottom.

Equipment consists of compressor, driven by tractor engine, drills, Little Tugger hoist at winze, blacksmith shop, and 3 cabins. A three-mile pipe line brings water to the camp from a spring.

The present operator is directing his efforts towards the development of sufficient ore to warrant the erection of a mill.

Mohawk Mine. (Ivanpah Copper Co. See under Lead-Silver.)

New Trail Mine, comprising 28 claims, is located on the east slope of the Ivanpah range of mountains, 11 miles northwest of Cima, a station on the Union Pacific Railroad. Elevation 5000 feet. Owner, New Trail Mining Company; J. F. Kent, president, Box 867, Riverside, California.

Here a bed of limestone some 2500 feet in thickness, strike N. 30° W., dip 45° NE., lying between granite walls, has been intruded by dikes of monzonite. This limestone has been faulted along a northeast-southwest line, with a throw of several hundred feet.

A dike, consisting largely of garnet and epidote, strike N. 40° E., dip 80° NW., cuts across the bedding planes of the limestone. A two-compartment shaft was started on this dike. To a depth of 100 feet the shaft followed the dike, but from the 100 to the 200-foot level the shaft is in the hanging wall of the dike. On the 100-foot level at a distance of 20 feet southwest of the shaft, the dike is faulted to the northwest, showing a displacement of 20 feet. The ore which formed in this fracture and for a few feet in the bedding planes on each side has been stoped to the surface. The dip of the fracture is 50° SW. At 150 feet southwest of the shaft, a high-grade ore consisting of

GOLD (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
71	Big Horn (continued)						800 ft. of level workings on the bottom. Principal production 1918-19 stated to be about \$100,000, all from ore exceeding \$50 per ton in grade. Idle since 1937. (Cloudman 19:801; Eric 48:299; Tucker 21:349; 24:196-198; 30:243; 31:303-304; 40:58; 43:441-442, pl. 7.)
	Black Beauty	R.J. McCausland, 315 N. Swall Dr., Beverly Hills	32	6N	17E	SB	Old Woman Mts. Gold-silver mine. Last operated 1935. Small production.
72	Black Hawk	George H. Clapp, Sewickley, Penn. (1949)	7	30S	41E	MD	Southeast of Randsburg. (Brown 16:471; Crawford 96:187; Hulin 25:130-131; Tucker 23:166-167; 29:29; 33:292-293; 40:29; 49:214,254; herein.)
	Black Hawk						Northeastern San Bernardino Mts. See Santa Fe. Cloudman 19:797-798; Crawford 94:230; 96:320; Crossman 90:226; De Groot 90:523-525; Storms 93:364-365.)
	Black Hawk		19,20, 29,30	30S	41E	MD	Atolia district. See under tungsten.
	Bliss Providence (Providence)	H.C. Bliss, P.O. Box 66, Essex	16,17 (?)	9N	14E	SB	Southeast slope Providence Mts. Probably the Providence noted by Cloudman as being "15 miles south of Bonanza King". Gold-bearing veins in granitic rocks. Developed by several shafts; main shaft inclined to depth of 150 ft. with about 200 ft. of underground workings. Production undetermined but small. Idle. (Cloudman 19:827.)
73	Blue Eagle (Florence)	Blue Eagle Mining Co., Nicholas Aldo, pres., Master Builders Supply Co., 520 E. Lockford St., Iodi	19,20	6N	17E	SB	North slope Old Woman Mts. Three parallel veins in granite about 200 ft. apart dip steeply to the east. Free gold is associated with pyrite, arsenopyrite, galena and sphalerite. Development on west vein consists of 160-ft. shaft and 50-ft. shaft about 1000 ft. to north. Open cut on parallel vein about 1000 ft. south of main shaft. Ore ship-

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GOLD (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
73	Blue Eagle (continued)						ped to Burton Brothers at Rosamond; also treated in mill on property now dismantled. Principal activity 1935-39. Idle. (Tucker 40:58-59; 43:443, pl. 7.)
74	Bluff and Western	Charles Dunbar, Parker Dam	11	2N	23E	SB	West slope, north end Savahia Peak. Probably same as Bailey mine. Narrow quartz vein, probably gold-bearing, in pre-Cambrian gneiss capped by Tertiary volcanic rocks. Explored for less than 50 ft. horizontally by workings on 4 levels through total vertical interval of less than 200 feet. Upper workings consist of short drift adit near a 50-ft. shaft sunk on vein. Lower workings consist of a 200-ft. crosscut adit driven N. 75° E. which does not intersect vein. Intermediate adits and short stopes and cuts on vein. Production undetermined. Bailey mine last worked 1935.
	Boomerang						See Vanderbilt.
75	Branch	H.L. Short, Barstow (1935)	27	7N	4W	SE	Oro Grande district. Developed by workings from a 300-ft. adit and 70-foot shaft. Operated 1931-35. (Tucker 43:pl. 7.)
	Brannigan						See Brooklyn and Los Angeles. (Eric 48:300; Tucker 31:289-290.)
76	Brannigan	Walter Thompson and assoc. 1010 Cadberry Rd., Whittier	26,27	13N	10E	SE	North of Old Dad Mt. (Tucker 31:324; 43:pl. 7.; herein.)
	Erick Consolidated						See Vanderbilt.
	Bronze						See under tungsten. Formerly lead-silver mine with some gold. Gold produced in 1934-35.

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GOLD (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
138	Lady Lou	W.F. Dail, Lucerne Valley	21	3N	2E	SB proj.	See under copper.
	Lester						North slope San Bernardino Mts., 4 mi. east of Blackhawk Canyon. Two quartz veins in granitic rock. Developed by several short tunnels and shallow shafts. Opened probably in late 1920's. Small cyanide mill on property. Small shipments in 1952. (Tucker 30:242; 31:303.)
139	Livingstone	Roy A. Saviers, P.O. Box 3, Big Bear City	29,30	2N	3E	SB	See Morongo King. (Crawford 94:231; 96:320.)
	Log Cabin						San Bernardino Mts. east end. Gold and scheelite in narrow tactite zone at mica-schist and granite contact. Explored by surface trenching only; no production. Pilot mill consisting of rolls, screen, jig and table on property.
140	Long Shot	L.J. Rouchleau, 2700 Budlong Ave., and Mrs. M.M. Richardson, Los Angeles	30,32	6N	17E	SB	Old Woman Mts. Steeply dipping quartz vein, 1 to 4 ft. wide, in granite. Outcrop length 6000 ft. contains auriferous pyrite and chalcocopyrite. Developed by 70-ft. shaft sunk on vein and connecting adit workings. Vein also cut by 300 ft. crosscut adit 160 ft. below upper adit. Ore mined reported to average \$35 per ton. Operated 1940-42. Idle. (Eric 48:310; Tucker 40:69; 43:455, pl. 7.)
	Lookout						See Santa Fe. (Crawford 94:230; 96:324; De Groot 90:524.)
141	Los Padre	Los Padre Mining Co., M. C. Clemens, pres., 540 Title Ins. Bldg., Los Angeles (1943)	35	4N	5E	SB proj.	Near Emerson Dry Lake east of Lucerne Valley. Steeply dipping gold-bearing quartz vein in gneissoid granite; width 2 to 3 ft. A 150-ft. inclined shaft sunk on vein connects with a drift adit at 50 ft. and with a drift off a 700-ft. crosscut adit at 150 ft. Drifts on these levels have explored the vein for 380 ft. High grade ore recovered from upper workings; some gold in wire form. Ore treated in mill half a mile west of mine. Idle. (Tucker 40:70; 43:

GOLD (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS				
			SEC.	T.	R.	B & M					
141	Los Padre (continued)						455-456, pl. 7.)				
	Louisiana - California						See Leiser Ray under vanadium.				
142	Lucky	J.E. Stevenson, Los Angeles (1939)	11	12N	10E	SB	North slope of Old Dad Mt. Small gold mine active 1932-35. On limestone-granite contact. Shipped 1100 tons ore obtained from several shallow cuts and adits. Exploration tunnel 700 ft. long beneath other workings.				
	Lucky Baldwin						See Doble. (De Groot 90:523; Tucker 40:66-67; 43:452-453.)				
	Lucky Jim						See under silver.				
	Luhrman						Probably same as Nightingale. See Supply.				
	Lytle Creek placers						Various - undetermined	2N 2N	6W 7W	SB SB	Eastern end San Gabriel Mts. Gold placer operations extending from near mouth of Lytle Creek Canyon to near its headwater on the slopes of Mt. San Antonio. Worked in the late 1800's by hydraulicking, sluicing, and hand methods.
	Mabel						See Big Horn. (Tucker 21:349; 24:196-198; 30:243; 31:303-304.)				
	Mable group					See Big Horn. (Cloudman 19:801.)					
143	Mancha No. 2	K.L. Storrs, 3030 $\frac{1}{2}$ 9th Ave., Los Angeles (1933)	19,30	14N	1E	SB	Goldstone. Quartz veins 1-2 ft. wide near contact of granite and schistose quartzite. Explored by 100-ft. (?) shaft and surface workings over several hundred yds. of exposed length. Idle.				
144	Markeson	T.N. Hall, Ludlow (1940)	18	6N	8E	SB	South of Ludlow. Gold-bearing quartz vein along rhyolite-monzonite contact. Moderate dip, 4 to 6 ft. wide. Developed by open cuts and shafts. Main shaft inclined to depth of 110 ft. Ore shoot 60 ft. long, average width 5 ft.,				

TUNGSTEN (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
363	Hidden Value (Hidden Value and Victory)	L.J. Rouchleau, 2700 Budlong Avenue and Mrs. M.M. Richardson, Los Angeles	6,8	5N	17E	SB	Old Woman Mts. (Jenkins 42:352; Kerr 46:165; Tucker 43:502-503; pl. 7; herein.)
	Hidden Value and Victory						See Hidden Value.
	Hoeffling Brothers						See Atolia.
	Holliday						See under gold.
	Hollie-Ann						See under gold.
364	Howe (Section 9)	Walter Zindell, Essex	9	5N	17E	SB	In Old Woman Mts. (Tucker 43:503-504, pl. 7; herein.)
	Irish (Lord and Irish)	Joseph Lord and A.A. Irish, Los Angeles (1919)		Approx. 8N	18E	SE	10 miles south of Goffs. Wolframite in quartz, (Boalich 18:12,13; Cloudman 19:846-847; Tucker 30:294; 31:367.)
	Jack	John H. Williams (1917)					Clark Mts. near Nipton. Wolframite. (Hess 17:47, pl. 5; Williams 11:545.)
	Jacobs						See Old Glory. (Boalich 18:13.)
	Jersey Lily	Rare Metals Refining Co. (1918)	6,7	30S	41E	MD	In Red Mountain area. Scheelite in narrow veins. Small production 1917-18. (Hulin 25:72,144; Jenkins 42:345; Partridge 41:288.)
365	Jumbo Tungsten	Bert Craig, P.O. Box 6, Essex	28	6N	17E	SB	Old Woman Mts. Scheelite in tactite. Owner reports 50 tons ore produced 1950. Idle.
	Just Associates						See Just Tungsten Quarries.

TUNGSTEN (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
366	Just Tungsten Quarries (Just Associates, Princess Pat, Shadow Mountain Mines)	Just Associates, 726 Story Bldg., Los Angeles	30,31,32	8N	6W	SB	Shadow Mts. "North" tungsten field. (Jenkins 42:351; Kerr 46:164; Partridge 41:250,316-317; Tucker 40:78; 43:505, pl.7; herein.)
	Keystone						See under gold. "Ferberite (?) in Tertiary volcanics". (Jenkins 42:351; Kerr 46:165.)
	Kinsman	J.C. & W.O. Kinsman, Goffs (1916)		Approx 11N	17E	SB	"8 miles north of Goffs". Probably wolframite. (Boalich 18:13; Cloudman 19:845; Partridge 41:306.)
	Leonard and Halloran						See Black Hawk. Scheelite in placer and lode. (Cloudman 19:837.)
367	Lighthouse (Dorr)	Jack Licht, Jaylite Mining and Milling Corp., Box 306, Barstow	25,36	14N	15E	SE	South end New York Mts. Wolframite associated with quartz in steeply dipping pegmatite dike cutting granodiorite. Explored by 140-ft. inclined shaft with short workings on 40- and 140-ft. levels, an adit driven to intersect the 140 ft. level, and an open cut just north of the shaft. About 1500 tons of ore mined during short period 1950-51 to be hauled to mill at Barstow, but grade of ore proved uneconomical. (Jenkins 42:350; Tucker 41:584-585; 43:501-502, pl.7.)
	Lineberger	Walter F. Lineberger. Leased to Walter W. Hartman, 1230 E. 109th St., Los Angeles		15N	14E	SB	In Ivanpah Mts. Tactite zone with small amounts of scheelite.
	Live Oak						See Bronze. (Jenkins 42:350.)
	Livingstone						See Sunnyside.
	Log Cabin						See under gold.

LEAD-SILVER-ZINC (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
247	Death Valley	J. Lee Strawn, Cima	11	13N	14E	SB	West of southern New York Mts. (Tucker 30:275-277; 31:348-349; 43:480; pl. 7; herein.)
	Del Oro						See under gold.
	Desert Queen						See Imperial Lode. (Crawford 96:607; Storms 93:353-354.)
248	Eastern Star	L.W. Loomis	17	17N	10E	SB	South of Kingston Wash. Several lead- and silver-bearing veins in highly brecciated granite gneiss and quartzite (Archean). Two short adits 50 ft. vertically apart; small stopes and shallow winze. Small tonnage of high-grade ore.
	Emperor						See Vulture under copper.
	Fayle						See under copper. Also see Blue Buzzard herein.
249	Fenner Smelting Company	George Warren and Robert Hollingsworth, 345 So. Grand Ave., Los Angeles	34	9N	17E	SB	See C. and K.
	Fremont						See Nigger Mountain. (Eric 48:305.)
	Garfield	Garfield Lead and Silver Mines, Inc., Joseph Baumgartner, pres. Bakersfield (1943)	12 (?)	3N	1E	SB	East slope San Bernardino Mts. Irregular bodies of lead-silver ore along fault fractures in brecciated limestone. Fractures strike northwest, dip 50° northeast. Developed by 2 cross-cut adits having 400-ft. vertical interval. Small shipments of \$80. ore made in 1932. (Tucker 43:480, pl. 7.)
250	Gemco	Walter Zindell and John Tunney, Essex	10	5N	17E	SB	Old Woman Mts. Vein in granitic rock contains galena, argentite, sphalerite and auriferous chalcopyrite. Principal value in silver. Workings consist of 800-ft. adit connecting with 60-ft. vertical shaft. Last operated by the Gray Eagle Mining Co. in 1936. Idle.

LEAD-SILVER-ZINC (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
251	Gladstone						See Mowry. (Crawford 96:321; Storms 93:358-359.)
	Gold Hill	Shadow Mountains Mines, Paul G. McKenry, pres., Nipton	10	17N	11E	SB	Shadow Mts. Nine miles northwest of Valley Wells. Formerly part of Foster Mines, which see under copper. (Tucker 43:480-481; herein.)
	Green Gold						See Keiper. (Eric 48:307; Tucker 24:92-93; 30:268; 31:341.)
	Halberg						See Mowry. (Storms 93:358-359.)
	Hard Luck						See Blue Bell.
	Homestake	H.E. Briggs, Trona, (1940)		Approx. 25S	44E	MD	In Slate Range. Lead-silver-gold mine. (Eric 48:307.)
	Hoosier and Missouri	J.W. Foglesong and E. Troutman, Barstow (1930)	28	10N	3W	SB	Near Hinkley west of Barstow. Gold-silver-copper-lead ore in quartz vein on contact of rhyolite and granite. (Cloudman 19:787; Eric 48:307; Tucker 30:214; 31:273.)
252	Ibex (Arctopus, Arcturus)	R.W. Busken, Leland Butts, and Leo Butts, Tecopa		20N	5E	SB proj.	In Black Mts. near Inyo County line. May be in Inyo County. Replacement ore bodies in dolomite. Ore in argentiferous galena and carbonates of lead and zinc. Mineralized seams along north-trending, steeply to gently dipping zone. Several shallow shafts and short adits. (Cloudman 19:821-822; Crossman 90:238-239; Norman 51:176; Tucker 21:287; 30:277; 31:350; 38:473; 43:481, pl. 7; Waring 19:96-97.)
253	Imperial Lode (Cave Springs Mining Corp., Desert Queen, Mammoth Chief, Meteor)	W.W. Tucker, 1425 W. Pico, Los Angeles	25, 36 1	7N 7N	5E 6E	SB SB	In Lava Bed Mts. (Crawford 94:376; 96:607; Crossman 90:231; DeGroot 90:529-530; Eric 48:308; Gardner 40:274-275; Storms 93:351-354; Tucker 21:362-363; 30:275-277-278; 31:347-348,360,351; 38:15; 40:244-245; 43:481, pl. 7, herein.)

LEAD-SILVER-ZINC (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
274	Silver King (Perseverance) (continued)						For the Perseverance. Lenses of argentiferous galena and silver chlorides and bromides in Paleozoic limestone. Trend of orebodies N. 25° to 40° E. dip 75° SE. to vertical. Main shaft reported to be 162 ft. deep with levels at 40, 72 and 160 ft. About 20 ft. northeast of shaft is open cut and partly caved shaft. Crosscut adit driven northwest from near collar of shaft. Other exploration pits and an adit several hundred ft. southwest. Perseverance is an old property, one claim having been patented in 1890. Total production undetermined. Long idle. (DeGroot 90:532; Eric 48:314; Tucker 21:364-365; 30:281; 31:354.)
275	Silver Reef (Silver Cliff)	W.C. Buehler, Wesley N. Rowe, Betty Jean Mullinix, 1555 Sunset Ave., Pasadena (1951)	18	7N	5E	SB	Northeast slope Newberry Mts. Lead-silver prospect in brecciated zones in limestone. Three shafts 80 to 360 ft. deep, and several hundred feet of tunnels at various levels. No recorded production. (Tucker 30:283-284; 31:356-357; 43:487-489, pl.7.)
276	Silver Rule (Chambers)	John Prato, 2134 W. Valley, Fontana	19	20N	10E	SB proj.	In Resting Springs district of Kingston Mts. Has been recorded in Inyo County and described in some Inyo County reports. (Eric 48:301,317; Hazzard 37:298; Norman 51:186; Sampson 37:265; Tucker 21:365-366; 26:500; 31:224; 31:357; 38:455,479; 43:489, pl.7; Waring 19:108; herein.)
277	Silver Wave		4	5N	17E	SB	Old Woman Mts. Lead-silver mine last operated in 1902 when production is reported to have been \$15,000. Workings consist of 4 strike adits driven N. 15° - 25° W. on a quartz vein in metamorphic rocks, within a vertical distance of several hundred feet. The millsite has been relocated as part of the Packard Tungsten property. (Bailey 02:-10.)
	South Western Lead Company	E.W. Fisher, Bagdad (1913)					Once operated War Eagle mine, which see. (Eric 48:317.)

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LEAD-SILVER-ZINC (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
278	Spar King	A.E. Weidman and Jerry Korfist, Box 75, Baker	31,32	17 $\frac{1}{2}$ N	13E	SB	North Clark Mt. silver-lead prospect. Oxidized siliceous zone in massive dolomite. Explored by 100-foot shaft. Production undetermined. Idle.
	Standard						See under copper and Riley under tungsten.
	Standard No. 2						See under copper.
	Stonewall		10	17N	13E	SB	See Jackson. (Cloudman 19:826; Eric 48:317; Tucker 21:342; 24:94; 30:285; 31:358.)
	Stonewall Jackson						See Jackson. (Eric 48:317.)
	Sulphide Queen						See under gold.
	Sunnyside Lode						See Jeff Davis.
	Sunshine Copper Company	C.M. McFarlane, Parker, Arizona					In Bullion Mts. south of Mt. Pisgah. Probably operated Tip Top copper-silver mine, which see under copper. (Eric 48:317.)
	Tip Top						See Silver Dream.
	Total Wreck						See Burcham. (Tucker 21:351; 30:285-286; 31:358-359.)
	Tri-metal	Lessees (1942) E.M. Hinshaw and G.B. Hogason, 91 W. Jackson St., Tucson, Arizona	6(?)	2N	23E	SB proj.	In Whipple Mts. Lead and zinc carbonates in vertical shear zone striking N. 10° W. in metamorphic rocks. Developed by 70-ft. shaft and open cuts. A prospect.
	Valentine						See Keiper.
	Victor						See under gold.

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SILVER (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
	Kelly Rand Extension		6	30S	41E	MD	Prospect in Randsburg area. Vertical shaft, 625 ft. deep, with 80 ft. of crosscuts at 600 ft. level. No ore encountered. (Hulin 25:136; Newman 23:104; Tucker 30:279; 31:351.)
320	Lamar	J. Mulcahy, 998 14th St., San Bernardino	16,17	10N	1E	SB	Calico district. Adjacent to Waterloo. See in discussion of west group herein.
321	Langtry	H. Britt and Walter Alf, Daggett	7,8	10N	1E	SB	Calico district. See in discussion of west group herein. (Crawford 96:607; Storms 93:338,343.)
322	Leviathon	H. Britt, Daggett	8,9	10N	1E	SB	Calico district northwest end. Series of parallel veins up to 50 ft. wide in zone several hundred feet wide, traceable over 2000 ft. along strike on surface. Silver in barite-jasper gangue, with abundant iron oxides. Large tonnage of barite visible. Explored by 4 adit levels having 1500 ft. of workings and two winzes, and by shafts over 100 ft. deep having stopes open to the surface. Production undetermined. Long idle.
	Little Jack		7	30S	41E	MD	Prospect in Randsburg area. (Hulin 25:144; Tucker 30:279; 31:352.)
	Lode Star						See Lone Star.
323	Lone Star (Lode Star)	J.B. Mulcahy, 998 14th St., San Bernardino	15	10N	1E	SB	Calico district. One of mines in upper Wall Street Canyon. (Tucker 21:pl.6.)
324	Lucky Jim	Mrs. James Menter, P. O. Box 892, Hollywood	30 25	6N 6N	18E 17E	SB SB	East slope Old Woman Mts. Quartz vein 4 ft. wide, in granite contains chlorides and bromides of silver, chalcopyrite and small amounts of argentite and ruby silver. Developed by over 1200 ft. of workings including a 200-ft. shaft, 500 ft. cross-cut and over 300 ft. of drifts. Reported \$35,000 production when mine was active from

SILVER (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
324	Lucky Jim (continued)						1911 to 1930. Selected ore reported to carry from 200 to 400 ozs. of silver, \$3 to \$4 in gold, 5 percent copper and 5 percent lead. Ore shoot 75 ft. wide, 100 ft. long. Idle. (Eric 48:310; Tucker 30:215-216, 279-280; 31:274-275; 43:pl.7.)
	McShane	Undetermined		10N	1E	SB	Calico district. Three miles west of Waterloo mine. Vein is reported to be 7 to 8 ft. wide, traceable for 700 ft. on the surface and carry \$24 to \$800 per ton in silver. (Ireland 88:499.)
325	Mizpah Montana	Mizpah Montana Mining Co., Inc. (1925)	6	30S	41E	MD	Randsburg area. Vertical shaft. 700 ft. deep, 7 levels, 1300 ft. of workings along contact between Rand schist and quartz monzonite. Small stock-work of veins yielded ore said to average \$20 gold and 100 oz. silver per ton. (Hulin 25:138; Tucker 23:167-168; 29:57-58; 31:352-353.)
	Mojave Rand			29S	41E	MD	Prospect in Randsburg area. (Hulin 25:144; Newman 23:104.)
	Mollusk (Cambria, Mescal)						See under gold.
	Mulcahy	J.B. Mulcahy, 998 14th St., San Bernardino		10N	1E	SB	East Calico district. Located 1925. Prospected by Empire Lead Co. shortly after. Idle since 1934 when 200 tons of ore shipped to A.S. & R. at Murray, Utah. Oxidized lead and silver ore in siliceous gangue in breccia zones range from 10 to 30 ft. in width and 30 to 150 ft. in length. Developed by 50-ft. and 150-ft. adits plus several open cuts and pits.
326	Navajo and Swastika (Grady No. 1 and No. 2)	Undetermined	7	30S	41E	MD	Two vertical shafts in Randsburg area. Sunk through Rosamond sandstone into Rand schist. Swastika shaft more than 500 ft. deep. Navajo shaft 1130 feet deep; 1050 ft. drift north on vein which is 2 to 10 ft. wide and assays 2 to 10 ozs. of silver per ton. Vein explored. No ore shipped.

TUNGSTEN (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
	OK	D.A. Byers, Barstow and George Michels, 29 Palms	7	7N	2E	SB	In Ord Mts. Scheelite sparsely distributed along vertical shear zone, 3 ft. wide in meta-volcanic rock. Shallow pit.
372	Old Glory (Argosy, C.B. Jacobs deposit)	Mrs. M.E. Remalia, 1912 W. 3rd St., Los Angeles	34 ?	11N	18E	SB	North of Goffs. Small veinlets of hubnerite and wolframite in pegmatite dike. Adit 140 ft. into dike, 38-foot raise to surface. Produced 1916-17. (Boalich 18:13; Cloudman 19:844-845; Partridge 41:305-306; Tucker 30:291; 31:364; 43:499, pl.7.)
373	Osdick group (Big Ben, Skylark)	P.J. Osdick, Red Mountain	20, 21	30S	41E	MD	Atolia district. Scheelite in quartz veins. Skylark on extension of Flatiron vein system and explored to depth of 167 ft. Production of nearly \$250,000 from this shaft and adjacent placer deposits 1916-18. Big Ben on extension of Spanish vein system and explored to depth of 187 ft. No production. (Boalich 18:13; Cloudman 19:837-838; Hulin 25:144; Jenkins 42:347; Lemmon 40:240-241; Martin 16:291; Partridge 41:288-289; Tucker 30:295; 31:368; 43:505; pl.7.)
	Pacific Scheelite						See Atolia Rand Placers. (Tucker 40:56.)
374	Packard	Bert Craig, P.O. Box 6, Essex	4	5N	17E	SB	In Old Woman Mts. Epidote-rich tactite developed in limestone and biotite schist. (both Archean.) Scheelite-bearing zone in tactite 6 to 8 ft. wide, exposed on surface for 100 ft. by shallow cuts; dips 55° NW. into steep hillside. Prospect being developed in mid-1952.
	Papoose						See Atolia. Scene of first discovery in the district. Was the leading scheelite-producing mine in the world from 1908-11. (Hulin 25:126; Jenkins 42:346; Lemmon 40:238.)
	Par						See Atolia. (Hulin 25:127; Jenkins 42:346; Lemmon 40:238-239.)

TUNGSTEN (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
	Paradise Mountains	P.R. Hetherington, Los Angeles	6, 7	12N	2E	SB	South side of Paradise Mts. Scheelite-bearing tactite body, 4 ft. wide, on granite-dolomite contact. Several open cuts and a 10-foot shaft. A prospect. (Jenkins 42:350; Kerr 46:165; Tucker 41:585; 43:505, pl.7.)
	Paradox 1 and 3						See Atolia. (Jenkins 42:346; Lemmon 40:239.)
	Pat group	J.L. Strawn and Thompson, Cima	1	11N	14E	SB	In Providence Mts. Wolframite in quartz veins cutting granite. (Jenkins 42:350; Kerr 46:164.)
	Pierce and Creighton	Pierce and Creighton, Los Angeles (1919)					In Providence Mts. Wolframite in quartz veins. (Boalich 18:13; Cloudman 19:848-849.)
	Princess Pat						During late 1940's the Princess Pat Mining Co. leased the property owned by the Just Associates. See Just Tungsten Quarries.
	Prosperity	Undetermined	32	7N	6W	SB	Shadow Mts. tungsten area, "South" field. (Tucker 43: pl. 7.)
375	Pure Quill	G.D. Hedrick; Hesperia, and Leonard Shoush, San Gabriel	4	6N	1E	SB	South part Ord Mts. (Herein.)
	Quirk	Mr. Quirk, Atolia (1916)	17	30S	41E	MD	Atolia district. Scheelite-bearing quartz veins, 4 in. wide, cutting granite; 40-ft. shaft. Small production during World War I. (Cloudman 19:839; Jenkins 42:345; Partridge 41:289.)
	Rainstorm						See Atolia. (Hulin 25:127; Jenkins 42:346; Lemmon 40:236-237.)
	Raynor group						See Federal Company's group.

TUNGSTEN (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
382	Spud Patch Placers (continued)						90; Hulin 25:145; Jenkins 42:348; Kerr 46:69,150; Lemmon 40:225-229; Tucker 43:134-135; 43:506, pl.7.)
	Standard No. 1						See Riley. (Jenkins 42:349; Kerr 46:164.)
	Standard Tungsten						See Riley. (Tucker 41:585-586; 43:506-507, pl.7.)
	Star Dust group	W.W. Woods, 622 W. Valley Blvd., Alhambra (1941)	12	5N	1W	SB	North of Lucerne Valley. A prospect. (Jenkins 42:352; Kerr 46:165; Tucker 41:586.)
383	Starbright	Clair Dunton, 1145 Westminister Ave., Alhambra, and A.C. Lambert, Barstow	19	12N	1E	SB	North of Barstow, 3 miles northeast of Lane Mts. (Herein.)
383	Sunnyside (Livingstone, Morongo King)	G.M. Bussey and E.F. Bain, Whitewater (1943)	27	2N	3E	SB	East slope San Bernardino Mts. Formerly worked for gold and noted in gold section herein. Scheelite discovered in 1941 on Morongo King quartz vein, 800 ft. long and 6 to 8 ft. wide. Contains free gold, pyrite and minor scheelite; on granite-limestone contact. Nearby are 2 scheelite-bearing tactite bodies, 6 to 10 ft. thick, enclosed in granite. Developed by extensions of Morongo King workings and by 2 additional shafts and several open cuts. (Eric 48:317; Jenkins 42:353; Tucker 41:586-587; 43:507, pl.7.)
384	Surcease Mining Company						See Atolia.
384	T.P.A. No. 1	W.F. Decter, 5838 Faculty Ave., Bellflower; J.R. Stevenson, La Habra Heights; Bob Mackray and H.J.	11,13,14	2N	2E	SB	San Bernardino Mts., east of Baldwin Lake. Scheelite with barite in zone, up to 5 ft. wide, between limestone and mica schist. Prospected by trenching along strike for 150 ft.; deepest pit 8 ft. Located late in 1951; no production recorded.

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TUNGSTEN (Cont.)

MAP NO.	CLAIM, MINE, OR GROUP	OWNER NAME, ADDRESS	LOCATION				REMARKS
			SEC.	T.	R.	B & M	
384	T.P.A. No. 1 (continued)	Kandel, 2409 E. 19th St., Long Beach					
385	Three Trees	W.W. Divine	12	13N	1E	SB	Six miles southeast of Goldstone. Sparsely disseminated scheelite in a thin tactite body on limestone-granite contact. A prospect.
	Toboggan	Elmer Beebe, et al, Atolia	20	30S	41E	MD	Atolia district. Scheelite-bearing quartz veins in quartz monzonite. Small production from shallow workings and placer operation. (Boalich 18:13; Cloudman 19:839; Partridge 41:290-291.)
	Top Notch						See American Gold and Tungsten. (Jenkins 42:346; Lemmon 40:244.)
	Treasure Chest	Norman P. Marsh, 1934 Milan Ave., So. Pasadena (1937)	28	3N	2E	SB	North slope San Bernardino Mts. Tactite containing sparsely disseminated scheelite. Several short adits and shallow shafts.
	Treasury	D.V. McBride, M.H. Elliot, C.W. Peterson (1916)	21	30S	41E	MD	Atolia district. Scheelite in placer. Similar to Spud Patch. Small production in 1916. (Boalich 18:13; Cloudman 19:839; Jenkins 42:347; Partridge 41:291; Tucker 30:295; 31:368.)
	Tungsten						See Moonlight.
	Tungsten King group	J.F. Brooke, F.M. Brooke, F.W. Chausse, and J.G. Bliss, Goffs (1916)	32	14N	15E	SB	South slope of New York Mts. Hubnerite and wolframite irregularly disseminated in pegmatite dike 25 to 60 ft. wide and at least 1200 ft. long. Small production in 1916. (Boalich 18:12; Cloudman 19:842-843; Jenkins 42:349; Partridge 41:251; 308-309; Tucker 30:295; 31:368.)
386	Udsogn (Chubbuck Scheelite)	Lee W. Yim, Amboy	18	4N	17E	SB	Scheelite in tactite zone striking N.75°E. Developed by several open cuts and shallow shafts; 12 tons high grade ore produced 1943.

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over an area of several acres. In 1939-40 the western part of this area was leased to W. W. Hartman of Los Angeles, who shipped about 1,000 tons of tungsten ore to the mill at the Valley View gold mine.

Exploration in the tungsten area, resumed in June 1951, consists of the extension of an old adit southeastward through nearly barren limestone toward the granite contact. The adit was 340 feet long by February 1952, but the contact had not been reached.

Hidden Value (Hidden Value and Victory) Mine. Location: secs. 6 and 8, T. 5 N., R. 17 E., S.B.M., in the north end of the Old Woman Mountains. Ownership: L. T. Rouchleau, 2700 Budlong Avenue, Los Angeles, California, and Mrs. M. M. Richardson, Los Angeles, California, own two groups of claims, the Hidden Value group of 13 claims and the Victory group of 8 claims, plus a millsite at Danby.

The Hidden Value mine has been operated intermittently since 1943 and has yielded a little over 500 units of WO_3 . More than two-thirds of this was mined during World War II. From early 1943 through 1945 a total of 333 units of WO_3 was produced from ore which, according to the owner, averaged 2.75 percent WO_3 . During this period a loan from the Reconstruction Finance Corporation was used to aid in building roads and developing the mine.

The scheelite on the Victory group is reported by Tucker and Sampson¹³⁹ to occur in veins in granite. On the Hidden Value group where most of the mining has been, scheelite occurs in tactite developed in Archean metamorphic rocks, consisting of limestone and schist, near a Jurassic granitic body. The tactite belt strikes N. 40° E., dips 30° to 40° NW., and ranges in width from 250 to 300 feet. There are several scheelite-rich lenses 10 to 36 feet wide and 70 to 250 feet long within the tactite zone. The grade of the ore in these lenses ranges from 0.5 to 3 percent WO_3 .

Ore has been mined from adits and transported down a 2500-foot aerial tram to a storage bin. It is hauled by truck 16.5 miles to a 10-ton mill at Danby, where it is crushed, ground to 16-mesh in a 4-foot ball mill and concentrated on a 5- by 14-foot table. A 65 percent WO_3 concentrate can be made, but the tailings assay from 1 to 1.5 percent WO_3 ; these are being saved for future treatment.

Howe Tungsten (Section 9) Mine. Location: sec. 9, T. 5 N., R. 17 E., S.B.M., in the north end of the Old Woman Mountains, 11 airline miles southeast of Danby. Ownership: Walter Zindell, Essex, California owns a patented section plus a millsite at Danby.

This property was first mined during 1944 when, according to the owner, it yielded 218 tons of ore averaging 4.35 percent WO_3 . A much smaller tonnage has been mined since.

A tactite zone is developed in Archean metamorphic rocks, principally crystalline limestone and mica schist, and is parallel to and possibly an extension of the mineralized zone on the Hidden Value mine to the southwest. The zone strikes N. 40° E., and dips 30° NW. Scheelite is disseminated in the tactite.

Ore has been mined from a lens, 6 to 10 feet wide and about 150 feet long, by means of an open cut 100 feet long and 24 feet in maximum depth. Ore was transported over an 1800-foot aerial tram to a bin on the road just north of the ore bin of the Hidden Value mine.

¹³⁹ Tucker, W. B., and Sampson, R. J., op. cit., p. 503, 1943.

Early in 1952 the owner had completed a small concentrating plant in which the ore was to be crushed to 6-mesh and concentrated by means of a jig.

Just Tungsten Quarries (Just Associates, Princess Pat, Shadow Mountains Mines). Location: secs. 30 and 31, T. 8 N., R. 6 W., S.B.M., on the northwest flank of Silver Peak, Shadow Mountains, about 13 airline miles west of Helendale and 14 airline miles northwest of Adelanto. Ownership: Just Associates, E. Richard Just and Oliver P. Adams, 726 Story Building, Los Angeles, California, own unpatented claims totaling 440 acres. The property is leased to Just Tungsten Quarries, E. Richard Just and associates, 726 Story Building, Los Angeles, California.

The deposit, now known as the Just Tungsten Quarries, was discovered in 1937. Operations from late 1937 to early 1938 by the Shadow Mountains Tungsten Mines and W. A. Trout and C. A. Rasmussen resulted in the recovery of about 750 units of WO_3 from nearly 3000 tons of selected ore treated in a 40-ton mill on the property. The operation was not successful and the mill was dismantled. During the mid-1940's lessees mined about 400 tons of ore, and during the late 1940's the Princess Pat Mining Company leased the property but apparently produced no ore. Operations from April 1952 to mid-1952 have yielded a few hundred tons of ore of undisclosed grade.

The scheelite occurs in quartz veins cutting garnet-epidote-quartz tactite bodies which exist at the contact between a Mesozoic granitic rock and Paleozoic (?) metamorphic rocks, mostly impure limestone and schist. The foliated rocks strike slightly north of east and dip gently south. Scheelite-bearing tactite also has been developed, away from the contact, along beds in the limestone, to form thin bodies of ore separated by barren limestone beds.

The deposit was explored during 1937-38 by 1800 feet of zig-zag trenches, 10 feet wide and 6 to 10 feet deep, excavated by a power shovel up a moderate slope in a southwesterly direction. A 65-foot vertical shaft was sunk near the lower end of this trench system, but no mining was done underground.

Employed in the early prospecting was a large field-type lamp requiring a 110-volt current, and a portable gasoline-powered motor generator set. This may have been the first practical application of a lamp of this type.

Ore is being mined from a bench cutting into a trenched area about 50 feet north of the shaft. Mining operations are carried on at night, and the ore is sorted with the aid of ultra-violet light. Shipments have been made to both the Jaylite and Parker custom mills in Barstow.

Lucky Lode (Silver Star) Deposits. Location: sec. 7 (?), T. 15 N., R. 14 E., S.B.M., in the western foothills of the Ivanpah Mountains, about 5 airline miles southeast of Mountain Pass and about 32 airline miles east of Baker. Owners: Jay Ricketts, Tustin, California, T. L. Button, Cima, California, and Elmer Schneider, Santa Ana, California.

The Lucky Lode is a little-explored tungsten prospect. Two pits, each less than 10 feet deep and about one-half mile apart, expose granitic rock with inextensive zones that contain quartz veins, garnet and epidote. This mineralized zone is several hundred feet east of a quartz monzonite-limestone contact.