

DEGREE QUADRANGLE 35°-36°, 117°-118°

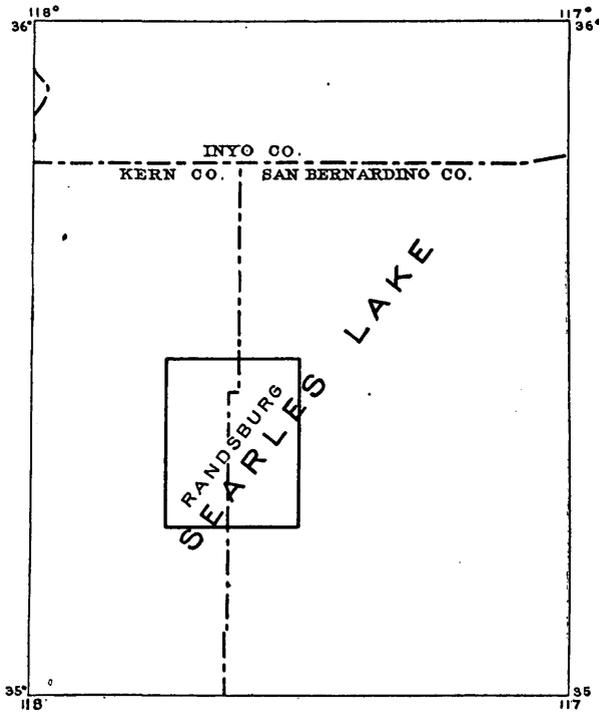


FIGURE 20.—Diagram of degree quadrangle 35°-36°, 117°-118°

SEARLES LAKE QUADRANGLE

[Latitude 35°-36°; longitude 117°-118°]

INYO, KERN, AND SAN BERNARDINO COUNTIES

Primary leveling by C. W. Wardle in 1913

From Brown southeast along highway to point 5.5 miles northeast of Indian Wells

	Feet
Indian Wells, 5.9 miles north of, 30 feet west of road; iron post stamped "B" -----	2, 598. 215
Brown, 30 feet east of railroad, in front of railroad eating house; iron post stamped "2395" -----	2, 394. 174
Brown, 1.3 miles south of, in base of milepost 455; spike -----	2, 345. 80
Brown, 2.1 miles south of, in base of milepost 454; spike -----	2, 323. 10
Brown, 3.1 miles south of, in base of milepost 453; spike -----	2, 301. 17
Indian Wells, 5.5 miles northeast of, 30 feet east of road, in an alkali flat; iron post stamped "2236 B" -----	2, 240. 278

	Feet
<b>From point 5.2 miles southwest of Desert Wells southeast along road to point 8.9 miles north of Granite Wells</b>	
Desert Wells, 5.2 miles southwest of, 50 feet east of road; iron post stamped "2225 B"-----	2, 229. 066
Brown, 12.6 miles southeast of, in an alkali flat, in wooden post; aluminum tablet stamped "2184"-----	2, 182. 662
Brown, 16.7 miles southeast of, west edge of China Borax Lake, about midway north and south, in wooden post; aluminum tablet stamped "2154"-----	2, 152. 949
Brown, 19.5 miles southeast of, at west end of black point, on 5-foot granite boulder; chiseled square-----	2, 174. 21
Salt Wells, 8.2 miles northwest of, 100 feet north of summit of divide between China Borax Lake and Salt Wells Basin, in large granite rock; aluminum tablet stamped "2191 W 1913"-----	2, 190. 357
Salt Wells, 7.2 miles northwest of, 50 feet north of center of canyon, on large sharp-topped granite rock standing 3.5 feet above ground; cut square-----	2, 097. 28
Salt Wells, 4.5 miles northwest of, 15 feet east of old road, on rock 1 foot in diameter; painted circle, marked "1981"-----	1, 980. 59
Salt Wells, 1 mile northwest of, 10 feet west of road; chiseled square on granite rock-----	1, 969. 00
Salt Wells stage station, southwest corner of adobe house, 5 feet from corner of granite rock; aluminum tablet stamped "1965 W 1913"-----	1, 964. 209
Salt Wells, 1.1 miles east of, 50 feet north of road at turn, on granite boulder 3 feet in diameter; painted circle, marked "1920"-----	1, 919. 00
Salt Wells, 2.0 miles east of, in Salt Wells Canyon, 10 feet north of road; painted circle on granite rock 1 foot in diameter, painted "1891"-----	1, 890. 62
Salt Wells, 3.2 miles east of, in Salt Wells Canyon, west side of canyon, painted circle on granite boulder 4 feet in diameter, marked "1823"-----	1, 821. 73
Salt Wells, 5.5 miles east of, near mouth of Salt Wells Canyon, 250 feet west of road at base of granite butte; aluminum tablet stamped "1701 W 1913"-----	1, 700. 450
Salt Wells, 10.4 miles east of, at forks of road, 50 feet south of road, on top of location monument; painted circle-----	1, 641. 00
Granite Wells, 11.8 miles northwest of, center of dry basin, at top of divide between Searles Lake Basin and Panamint Valley, in granite rock; aluminum tablet stamped "2262 W 1913"-----	2, 261. 591
Granite Wells, 8.9 miles north of, 20 feet east of road; iron post stamped "2370 B 1907" (erroneously stamped)-----	2, 269. 778
<b>From point 5.5 miles northeast of Salt Wells to soda works and return</b>	
Salt Wells, 6.7 miles northeast of, 100 feet north of road forks, on top of granite boulder 2 feet in diameter; painted circle marked "1674"-----	1, 672. 82
Soda works, 4.1 miles south of, in Searles Lake, 20 feet west of old road, stake driven in ground; copper nail in top-----	1, 622. 84
Soda works, 2.8 miles southwest of, 50 feet west of road, at point of hill, on top of granite boulder 4 feet in diameter; painted circle, marked "1644"-----	1, 642. 91
Soda works, 2.2 miles south of, 400 feet northeast of road forks, at point where the stage road enters the lake, on top of granite boulder 2 feet in diameter; painted circle, marked "1640"-----	1, 638. 85

Soda works, 800 feet southwest of boiler house, 30 feet east of stage road, on granite boulder 3 feet in diameter; painted circle marked "1636"-----	Feet. 1, 635. 15
Soda works, 0.7 mile southeast of, 40 feet north of road, United States mineral monument marked "U. S. L. M. No. 112 S" and 1-4402; in top of granite rock standing 2½ feet above ground; aluminum tablet stamped "1623 W 1913"-----	1, 622. 650
Soda works, 5.4 miles southwest of, 10 feet east of stage road, on top of granite boulder 2 feet in diameter; painted circle, marked "1659"-----	1, 657. 94

Single spur line of flying levels to Searles Lake

Searles Lake; surface of water, March 26, 1913, (lake 0.6 foot deep)-----	1, 618. 08
Searles Lake, south side of Tanks Canyon near mouth; approximate former level-----	2, 261. 64
Searles Lake, in southwest canyon, on bench marking former water level, at foot of monument erected by Mr. Gale-----	2, 254. 75

Primary leveling by L. F. Biggs and Ress Phillips in 1905-1907

From point 9 miles north of Barstow to Ballarat

Barstow, 9 miles north of, 10 feet north of 18-inch Yucca tree; iron post stamped "B 2892 1906"-----	2, 892. 651
Barstow, 12.5 miles north of, summit 30 feet west of road; iron post stamped "B 3960 1907"-----	3, 960. 445
Barstow, 15 miles north of, 20 feet east of road; iron post stamped "B 3679 1907"-----	3, 679. 546
Barstow, 18.2 miles north of, 20 feet east of road; iron post stamped "B 3306 1907"-----	3, 306. 581
Barstow, 21.3 miles north of, 20 feet east of road; iron post stamped "B 3221 1907"-----	3, 220. 847
Barstow, 24.8 miles north of, 20 feet east of road, 200 feet south of dry lake; iron post stamped "B 3006 1907"-----	3, 005. 702
Copper City, 7.3 miles south of, 20 feet east of road; iron post stamped "B 3035 1907"-----	3, 035. 080
Copper City, 3.5 miles south of, 20 feet east of road; iron post stamped "B 3291 1907"-----	3, 290. 973
Copper City House, 100 feet east of; iron post stamped "B 4001 1907"-----	4, 000. 860
Copper City, 3.2 miles north of, on summit 15 feet west of road; iron post stamped "4402 B 1907"-----	4, 402. 217
Granite Wells, junction of roads, large boulder; aluminum tablet stamped "B 3939 1907"-----	3, 939. 383
Granite Wells, 2.7 miles north of, 40 feet east of road, sandstone ledge; aluminum tablet stamped "B 3404 1907"-----	3, 403. 308
Granite Wells, 6 miles north of, 40 feet east of road, boulder; aluminum tablet stamped "B 2719 1907"-----	2, 718. 180
Granite Wells, 8.9 miles north of, 20 feet east of road; iron post stamped "B 2370 1907"-----	2, 269. 778
Granite Wells, 12.2 miles north of, 20 feet east of road; iron post stamped "2276 B 1907"-----	2, 175. 265
Lone Willow, 10 miles south of, 15.3 miles north of Granite Wells, 20 feet east of road; iron post stamped "B 2203 1907"-----	2, 103. 201

	Feet
Lone Willow, 6 miles south of, 20 feet east of road; iron post stamped "2121 B 1907"-----	2, 020. 578
Lone Willow, 2.6 miles east of, at junction of road to Lone Willow; iron post stamped "2016 1907 B"-----	1, 914. 978
Lone Willow, 2.5 miles north of, 10 feet east of road, large boulder; aluminum tablet stamped "B 1932 1907"-----	1, 831. 364
Lone Willow, 5.4 miles north of, 20 feet east of road at junction of road to Ballarat; iron post stamped "B 1786 1907"-----	1, 684. 679
Lone Willow, 8.1 miles north of, 200 feet north of large boulder, 30 feet west of road; iron post stamped "B 1907 1632"-----	1, 630. 782
Lone Willow, 10.1 miles north of, 10 feet east of road; boulder, tablet stamped "B 1907 1427"-----	1, 426. 416
Lone Willow, 12.7 miles north of, 17.1 miles south of Ballarat, 20 feet east of road; iron post stamped "B 1907 1229"-----	1, 228. 140
Ballarat, 14 miles south of, 20 feet west of road; iron post stamped "B 1907 1098"-----	1, 097. 500
Ballarat, 10.9 miles south of, 20 feet east of road; iron post stamped "B 1907 1059"-----	1, 058. 247
Ballarat, 7.6 miles south of, at junction of road, 10 feet east of road; iron post stamped "B 1907 1051"-----	1, 050. 237

**From point 5.4 miles north of Lone Willow along Ballarat road east to point 3.3 miles east of Windgate Pass**

Windgate Pass, at summit, 10 feet east of road, 2.5 miles east of junction of road; iron post stamped "B 1977 1907"-----	1, 975. 911
Windgate Pass, 3.3 miles east of, 20 feet north of road; iron post stamped "B 1925 1907"-----	1, 924. 041

**From Freeman southeasterly to Randsburg, thence easterly to Granite Wells**

Freeman, 400 feet south of, 20 feet west of road, on hillside, south side of Walker Canyon; iron post stamped "3379 B"-----	3, 380. 504
Freeman, 5 miles east of, 150 feet north of road, on point 300 yards west of wash, 10 feet east of section corner, large boulder; tablet stamped "B 2705 1907"-----	2, 706. 001
Freeman, 12.3 miles east of, 30 feet south of road, in ledge; tablet stamped "B 2975 1907"-----	2, 976. 402
Willow Spring, at summit of divide south of, 15 feet west of road, 10 feet from granite boulder; iron post stamped "J 4116"-----	4, 109. 025
Garden station, 3.3 miles south of, at junction of road to Willow Springs, 300 feet west of road; volcanic boulder; aluminum tablet stamped "B 3512 1907"-----	3, 512. 659
Randsburg, 5.1 miles north of, 25 feet northwest of junction of old borax road to Garlock, 20 feet northwest of road; iron post stamped "3010 J"-----	3, 002. 258
Randsburg, 1.5 feet west of door of butcher shop (stone building), 1 foot above ground; bronze tablet stamped "3530 J"-----	3, 522. 252
Johannesburg, 2.5 feet northwest of platform of station, north side of track; iron post stamped "3544 J"-----	3, 535. 865
Johannesburg, 4.4 miles east of, on summit of divide 20 feet west of road; iron post stamped "3326 J"-----	3, 317. 433
Tps. 29 and 30 S., Rs. 41 and 42 E., 10 feet southeast of common corner; iron post stamped "2823 J"-----	2, 813. 914

Granite Wells, 9 miles southwest of, 30 feet south of Blackwater Well, granite ledge flush with ground; tablet stamped "B 3520 1907" -----	Feet 3, 521. 399
Granite Wells, 7.3 miles southwest of, on summit 20 feet north of road, large boulder; tablet stamped "B 3952 1907" -----	3, 952. 611
Granite Wells, 1.5 miles south of, 39.8 miles north of Barstow, 10 feet east of road; point on small boulder painted "3947 U. S. B. M." -----	3, 946. 775

## From Freeman northwest to Walkers Pass

Walker Pass, 5 miles southeast of, 50 feet west of road, 200 feet east of spring, granite boulder; aluminum tablet stamped "BB" -----	4, 033. 279
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## From point 6.6 miles north of Mount Vernon Mill southwest to Indian Wells north of Freeman

Mount Vernon Mill, 4 miles north of, 350 west of spring, 20 feet northwest of road, in top of large granite boulder; bronze tablet stamped "5323 B 1905 24" -----	5, 325. 952
Mount Vernon Mill, 1.7 miles north of, 5 feet south of road, 40 feet west of Vurless cabin, in large granite boulder; bronze tablet stamped "4276 B 1905" -----	4, 278. 802
Mount Vernon Mill, 2.25 miles west of, at mouth of Mount Springs Canyon, 20 feet west of road, in large boulder; bronze tablet stamped "3388 B" -----	3, 391. 308
Mount Vernon Mill, 5.8 miles southwest of, 15 feet west of road, in cropping of granite boulder; bronze tablet stamped "2631 B" -----	2, 635. 001
Mount Vernon Mill, 8.8 miles southwest of, 25 feet west of road; iron post stamped "2273 B" -----	2, 277. 160
Desert Well, 1 mile east of, 35 feet north of road, in borax flat, in ledge; bronze tablet stamped "2199 B" -----	2, 202. 975
Desert Well, 2 miles south of, 100 feet east of road, on south side of dry lake; iron post stamped "2209 B" -----	2, 213. 208
Desert Well, 5.2 miles southwest of, 50 feet east of road; iron post stamped "2225 B" -----	2, 229. 166
Indian Wells, 5.5 miles northeast of, 30 feet east of road, in alkali flat; iron post stamped "2236 B" -----	2, 240. 378
Indian Wells, 2.5 miles north of, 15 feet west of road; iron post stamped "2402 B" -----	2, 406. 333
Indian Wells, 300 feet north of, 10 feet west of road; iron post stamped "F 16" -----	2, 739. 018

## RANDSBURG QUADRANGLE

[Latitude 35° 15'-35° 30'; longitude 117° 30'-117° 45']

## KERN AND SAN BERNARDINO COUNTIES

## From Johannesburg west to Randsburg

Johannesburg, in front of station; top of rail -----	Feet 3, 536. 8
Johannesburg, 2.5 feet northwest of platform of station, north side of track; iron post stamped "3544 J" (recovered by Biggs, 1907) -----	3, 535. 865
Randsburg, 1.5 feet west of door of butcher shop (store building), 1 foot above ground; bronze tablet stamped "3530 J" (recovered by Biggs, 1907) -----	3, 522. 252

## From Randsburg north to Garden station

	Feet
Randsburg, 5.1 miles north of, 25 feet northwest of junction of old borax road to Garlock, 20 feet northwest of road; iron post stamped "3010 J" (recovered by Biggs, 1907)-----	3, 002. 258
Garden station, 1 mile northeast of, sec. 18, T. 28, S., R. 41 E., Mount Diablo meridian, 50 feet northwest of road, 4 feet east of northwest corner of section; iron post stamped "3024 J." (This bench mark is north of Randsburg 15' quadrangle)-----	3, 015. 825
<b>From T. 28 S., R. 40 E., northwest to summit of divide south of Willow Springs</b>	
T. 28 S., R. 40 E., sec. 34, 300 feet west of junction of roads, in volcanic boulder; aluminum tablet stamped "3512 B 1907" (set by Biggs, 1907)-----	3, 512. 659
Willow Spring, at summit of divide south of, 15 feet west of road, 10 feet from granite boulder; iron post stamped "4116 J" (recovered by Biggs, 1907)-----	4, 109. 025

## From Garden station south via summit diggings to Johannesburg

Little Dry Lake, summit of divide at south end of, 30 feet east of road; iron post stamped "3220 J"-----	3, 211. 690
<b>From Randsburg southeast to Black Hawk mine, thence north to Johannesburg</b>	
Black Hawk mine, on ridge 750 feet north of road, 50 feet from junction with road to Stringer; iron post stamped "3706 J"-----	3, 698. 211
<b>From Johannesburg east via Skilling Wells road to township corner, thence northeast to southwest corner sec. 29, T. 29 S., R. 42 E.</b>	
Johannesburg, 4.4 miles east of, on summit of divide 20 feet west of road; iron post stamped "3326 J" (recovered by Biggs, 1907)----	3, 317. 433
T. 30 S., R. 42 E., 10 feet southeast of northwest corner sec. 6; iron post stamped "2823 J" (recovered by Biggs, 1907)-----	2, 813. 914
T. 29 S., R. 42 E., 5 feet northeast of southwest corner sec. 29; iron post stamped "2812" (single spur)-----	2, 802. 823
<b>From Johannesburg south along line of Randsburg R. R. (single spur line)</b>	
St. Elmo, 50 feet west of switch stand; iron post stamped "3184 J"__	3, 175. 639
St. Elmo, 3.84 miles south of, 30 feet west of track; iron post stamped "2984 J"-----	2, 975. 410
Mount Vernon Mill, 9.3 miles north of, 50 feet west of road, in large granite boulder; bronze tablet stamped "5842 B 1905"-----	5, 844. 237
Mount Vernon Mill, 6.6 miles north of, 15 feet east of road, near summit, in large granite boulder; bronze tablet stamped "5884 B"----	5, 886. 668

## Precise leveling by R. A. Farmer in 1905

## North along stage road

Dixie stage station, 2 miles northeast of, 10 feet east of road; iron post stamped "3172 B"-----	3, 173. 639
Dixie station, 5.3 miles northeast of, 10 feet west of road; iron post stamped "3290 B"-----	3, 291. 562
Freeman, 400 feet south of, 20 feet west of road on hillside south side of Walker Canyon; iron post stamped "3379 B"-----	3, 330. 504

Freeman, 3.2 miles northeast of, 30 feet east of road; iron post stamped "3110 B"-----	3, 110. 930
Indian Wells, 300 feet north of, 20 feet west of road; iron post stamped "B"-----	2, 739. 018
Indian Wells, 3.1 miles north of, 10 feet east of road; iron post stamped "B"-----	2, 697. 418
Indian Wells, 5.9 miles north of, 30 feet west of road; iron post-----	2, 598. 715
Indian Wells, 9.2 miles north of, 40 feet east of road; iron post-----	2, 485. 770
Little Lake, 8.8 miles south of, 40 feet west of road, at summit of granite boulder; aluminum tablet-----	2, 817. 365
Little Lake, 1.2 miles south of, 10 feet east of road, summit of black boulder; aluminum tablet-----	2, 946. 862
Little Lake, 1.7 miles north of, 50 feet west of road, at summit of granite boulder; aluminum tablet-----	3, 328. 541
Little Lake, 4.9 miles north of, 50 feet east of dry lake bed, 40 feet east of road, in summit of lava boulder; aluminum tablet-----	3, 332. 519

Precise leveling along the Los Angeles Aqueduct by the Aqueduct Commission in 1907, adjusted by the Geological Survey in 1922

Reaburn's station 1024, on north side of No Name Canyon, on rocky point 350 feet southwest of; brass plug in granite boulder, painted on rock "L.A.A. B.M. No. 44" and marked with red, white, and blue flag-----	3, 384. 054
No Name Canyon, 20 feet west of immense boulder cracked vertically, at east end of long granite ledge, on south side of ledge; brass plug in granite boulder, on the ledge is painted "L.A.A. B.M. No. 45" large enough to be seen from bench mark 44, marked with red, white, and blue flag-----	3, 320. 925
Sand Canyon, south side of first draw north of, 250 feet southwest of waterfall (dry), 225 feet northwest of Reaburn's station 98.5; brass plug in large granite boulder, painted on rock "L.A.A. B.M. No. 46" and marked with red, white, and blue flag-----	3, 395. 421
Sand Canyon, on rocky point on north side of, 300 feet south of Reaburn's station 971; brass plug in granite boulder, painted "L.A.A. B.M. No. 47" and marked with red, white, and blue flag-----	3, 250. 785
Sand Canyon, on crest of rocky ridge south side of, 200 feet northwest of Reaburn's station 968; brass plug in rock, painted "L.A.A. B.M. No. 48" and marked with red, white, and blue flag-----	3, 399. 586
Sand Canyon, on south side of bottom of first draw south of, 600 feet west of Reaburn's station 950; brass plug in granite boulder, painted "L.A.A. B.M. No. 49" and marked with red, white, and blue flag-----	3, 461. 918
Grape Vine Canyon, in saddle in ridge on north side of, near mouth about one-quarter of a mile east of north end of siphon; standard L.A.A. pipe, marked with red, white, and blue flag-----	3, 319. 657
Grapevine Canyon, on rocky point on south side, directly south of houses, 900 feet west of Reaburn's station 903, brass plug in large granite slab resting on edge, painted "L.A.A. B.M. No. 51," marked with red, white, and blue flag-----	3, 405. 681
Short Canyon, on ridge on north side of, near mouth, 125 feet northeast of Reaburn's station 874; brass plug in granite boulder, painted "L.A.A. B.M. No. 52," marked with red, white, and blue flag---	3, 430. 122
Short Canyon, at end of ridge on south side of, opposite mouth, in saddle west of rocky knoll; standard L.A.A. pipe No. 53, marked with red, white, and blue flag-----	3, 427. 073

	Feet
Indian Wells Canyon, at north end of rocky ridge near bottom of, 175 feet southwest of Reaburn's station 841; brass plug in granite boulder, painted "L.A.A. B.M. No. 54," marked with red, white, and blue flag-----	3, 337. 790
Indian Wells Canyon, south side of, opposite bench mark 54 and 500 feet southwest of Reaburn's station 838; brass plug in granite boulder, painted "L.A.A. B.M. No. 55," marked with red, white, and blue flag-----	3, 441. 905
Harmon's L line station 936+18, on ridge 350 feet west of; standard L.A.A. pipe No. 56, marked with red, white, and blue flag-----	3, 412. 192
Freeman, 400 feet south of, 20 feet west of road on hillside, south side of Walker Canyon; standard U.S.G.S. pipe No. 57, stamped with "L.A.A. 57" and elevation on side of cap (Bull. 343, p. 10)---	3, 380. 504
Harmon's L line station 607+00, 250 feet west of; standard L.A.A. pipe No. 58, marked with red, white, and blue flag-----	3, 357. 971
Harmon's L line station 426+00, 250 feet west of; standard L.A.A. pipe, No. 59, marked with red, white, and blue flag-----	3, 336. 493