

# DEGREE QUADRANGLE 36°-37°, 117°-118°

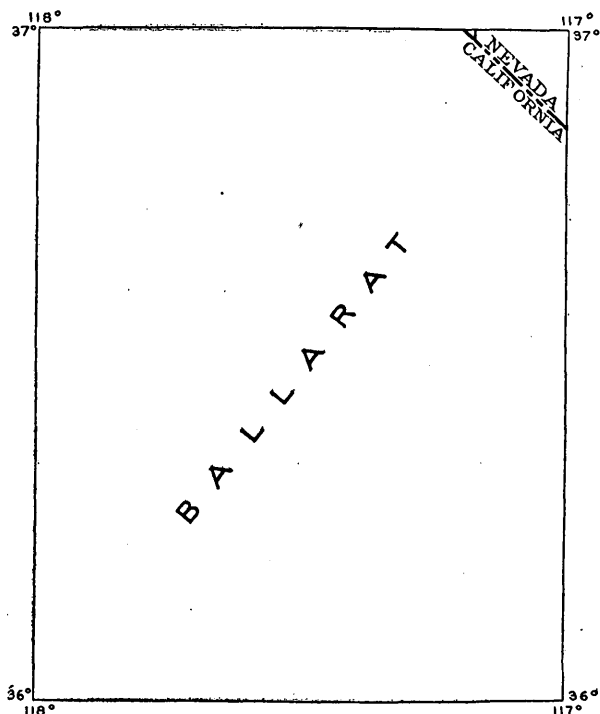


FIGURE 26.—Diagram of degree quadrangle 36°-37°, 117°-118°

## BALLARAT QUADRANGLE

[Latitude 36°-37° ; longitude 117°-118°]

## INYO COUNTY

Precise leveling by R. A. Farmer in 1905

North along stage road to Keeler

	Feet
Little Lake, 8.1 miles north of, 40 feet east of road ; iron post stamped "3370"-----	3,368.840
Little Lake, 10.9 miles north of, 25 feet west of road ; iron post stamped "3444"-----	3,443.144
Haiwee Meadows, 3.4 miles south of, 80 feet east of road ; iron post stamped "3642"-----	3,640.775
Haiwee Meadows, 720 feet north of house, 35 feet west of road ; iron post stamped "3734"-----	3,733.043
	269

	Feet
Haiwee Meadows, 3.1 miles north of, 100 feet west of road on hill-side, at summit of granite boulder; aluminum tablet stamped "3737"-----	3, 735. 887
Olancha, 2.2 miles south of, 20 feet east of road; iron post stamped "3717"-----	3, 715. 771
Olancha, 3.2 miles northeast of, 20 feet southeast of road; iron post stamped "3619"-----	3, 618. 201
Olancha, 6.4 miles northeast of, 50 feet northwest of road; iron post stamped "3628"-----	3, 627. 523
Olancha, 9.4 miles northeast of, 20 feet northwest of road; iron post stamped "3612"-----	3, 611. 503
Keeler, 6.9 miles southwest of, 30 feet north of road; iron post stamped "3618"-----	3, 617. 163
Keeler, 3.4 miles southeast of, 25 feet east of road; iron post stamped "3631"-----	3, 629. 739
Keeler, at southeast corner of post office; iron post stamped "3610"-----	3, 609. 010
Keeler, in front of station; top of east rail-----	3, 599. 6
Keeler, 0.5 mile northwest of, 10 feet from road, marble rock cut 1 foot square, 3 feet high, marking azimuth station; top of copper plate, at intersection of cross lines-----	3, 598. 164
Keeler, 2.1 miles northwest of, 150 feet south of soda works pipe line, 400 feet east of Owens Lake; iron post-----	3, 568. 882
Owens Lake, 200 feet southeast of Soda Co.'s pipe; surface of water, March 30, 1905-----	3, 567. 3

From Keeler along Southern Pacific R. R.

Keeler, 3 miles north of, 8 feet north of telegraph pole opposite milepost 290; iron post stamped "3608"-----	3, 606. 777
Inyo marble quarry, 1 mile north of, 25 feet north of milepost 287; iron post stamped "3675"-----	3, 673. 291
Inyo quarry, 4 miles north of, 200 feet north of milepost 284; iron post stamped "3672"-----	3, 670. 526

Primary leveling by L. F. Biggs in 1905, 1906, and 1907

From bench mark in Furnace Creek quadrangle, 9 miles southeast of Stovepipe, northwest via Stovepipe to Mesquite Springs (1 yard error placed at State line)

Stovepipe, 6.3 miles southeast of, on summit 20 feet east of road; iron post stamped "B 1907 -68"-----	<sup>1</sup> -69. 404
Stovepipe, 3.6 miles southeast of, 20 feet north of road; iron post stamped "B 1907 -90"-----	-92. 047
Stovepipe, 150 feet east of store, at junction of roads; iron post stamped "B 1907 -49"-----	-50. 424
Stovepipe, 3.3 miles northwest of, 30 feet east of road; iron post stamped "B 1907 -13"-----	-15. 087
Stovepipe, 5.6 miles northwest of, 20 feet west of road, boulder; tablet stamped "B 1907 -29"-----	-31. 239
Surveyors Well, 7.5 miles north of, 1.2 miles south of Lost Wagons, 50 feet east of road, large white boulder; aluminum tablet stamped "B 1907 +373"-----	371. 016
Mesquite Spring, 400 feet south of, at junction of roads, boulder; tablet stamped "B 1907 1739"-----	1, 736. 841

<sup>1</sup> Elevations having the minus sign are below sea level.

## From Stovepipe southwest to Emigrant Wash, thence south to Ballarat

	Feet
Stovepipe, 2.5 miles southwest of, 20 feet north of road; iron post stamped "B 1907-46"-----	<sup>2</sup> 47.361
Stovepipe, 6.3 miles southwest of, 20 feet north of road; iron post stamped "B 1907"-----	-1.814
Stovepipe, 9.6 miles southwest of, 20 feet north of road; iron post stamped "B 1907 637"-----	635.117
Stovepipe, 12.5 miles southwest of, 6.7 miles north of Emigrant Spring, 20 feet north of road; iron post stamped "B 1907 1542"---	1,540.571
Emigrant Spring, 4.2 miles north of, 20 feet north of road; iron post stamped "B 1907 2380"-----	2,378.101
Emigrant Spring, 1.7 miles north of, 40 feet east of road; iron post stamped "B 1907 3199"-----	3,197.435
Emigrant Spring, 100 feet south of restaurant at station; iron post stamped "B 1907 4046"-----	4,044.015
Emigrant Spring, 4.3 miles south of, 3.1 miles north of Summit, 20 feet east of road; iron post stamped "B 1907 4899"-----	4,897.638
Summit between Death and Panamint valleys, 20 feet west of road; iron post stamped "B 1907 5321"-----	5,318.987
Summit, 2.9 miles southwest of, 5.6 miles east of Wild Rose, 20 feet north of road; iron post stamped "B 1907 5021"-----	5,019.253
Wild Rose, 2.2 miles north of, 20 feet west of road; iron post stamped "B 1907 4462"-----	4,460.838
Wild Rose, 20 feet west of road; iron post stamped "3617 B 1907"---	3,615.929
Wild Rose, 3 miles south of, 14.7 miles north of Ballarat, 20 feet east of road; iron post stamped "B 1907 2496"-----	2,494.833
Ballarat, 11.7 miles north of, 20 feet west of road; iron post stamped "B 1907 1989"-----	1,987.111
Ballarat, 8.2 miles north of, 200 feet south of well; iron post stamped "B 1907 1104"-----	1,102.321
Ballarat, 4 miles north of, 20 feet east of road; iron post stamped "B 1907 1082"-----	1,080.144
Ballarat, 300 feet north of post office, large boulder; aluminum tablet stamped "Keeler 1906 1069"-----	1,068.787
Ballarat, at southwest corner of post office; iron post stamped "1066"-----	1,065.929

## From Ballarat south 3.8 miles

Ballarat, 1.6 miles south of, 20 feet east of road, boulder; aluminum tablet stamped "B 1907 1054"-----	1,053.400
Ballarat, 3.8 miles south of, 20 feet east of road; iron post stamped "B 1907 1049"-----	1,048.393

## From Keeler southeast along road to Darwin (leveled twice)

Keeler, 3.4 miles southeast of, 25 feet east of road; iron post stamped "B 3631"-----	3,629.739
Keeler, 6.4 miles southeast of, 80 feet northeast of road, dark volcanic boulder; aluminum tablet stamped "3925 B"-----	3,923.710
Keeler, 9.6 miles southeast of, 0.5 mile south of summit, 25 feet east of road, volcanic boulder; aluminum tablet stamped "4300 B"---	4,298.312

<sup>2</sup> Elevations having the minus sign are below sea level.

	Feet
Keeler, 12.8 miles southeast of, 1,000 feet east of stone corral, 20 feet north of road; iron post stamped "4553 B"-----	4, 551. 849
Darwin, 8.4 miles northwest of, 25 feet north of road, black volcanic boulder; aluminum tablet stamped "4880 B"-----	4, 879. 298
Darwin, 5.3 miles northwest of, 25 feet south of road; iron post stamped "5291 B 1905"-----	5, 289. 925

**From Darwin south and southwest *via* Coso Hot Springs to Little Lake (a point on Farmer's precise line)**

Darwin, 2 feet from southeast corner of post office; iron post stamped "4746 B"-----	4, 747. 539
Darwin, 2.5 miles south of, 25 feet west of road, 15 feet west of pipe line, granite rock; aluminum tablet stamped "4787 B"-----	4, 788. 860
Darwin, 5.7 miles south of, 25 feet west of road, granite boulder; aluminum tablet stamped "5425 B"-----	5, 426. 428
Coso, 200 feet north of, 200 feet north of spring, 200 feet northwest of road, summit of cliff of boulders; aluminum tablet stamped "5829 B"-----	5, 830. 336
Coso, 2.8 miles southwest of, 1,700 feet north of Cole Spring, 25 feet south of road, granite boulder; aluminum tablet stamped "6413 B"-----	6, 414. 298
Coso, 6.6 miles southwest of, 20 feet west of road, on summit west of volcanic mountain, volcanic rock; aluminum tablet stamped "6251 B"-----	6, 252. 850
Coso Hot Springs, 3.3 miles northeast of, 40 feet west of road, at east side of large gulch, granite boulder; aluminum tablet stamped "4398 B"-----	4, 391. 057
Coso Hot Springs, 1,000 feet west of, granite rock; aluminum tablet stamped "3632 B"-----	3, 633. 850
Coso Hot Springs, 4.1 miles west of, 20 feet south of road, at top of steep pitch volcanic rock; aluminum tablet stamped "4059 B"-----	4, 060. 610
Coso Hot Springs, 8 miles west of, 60 feet southeast of road, opposite small crater, granite boulder; aluminum tablet stamped "3406 B"-----	3, 407. 661
Little Lake, 1.7 miles north of, 50 feet west of road, summit of boulder; aluminum tablet-----	3, 328. 541

**From Darwin south along road to point 5 miles south of Millspaugh, thence south 6 miles to point 6.6 miles north of Mount Vernon**

Darwin, southwest corner of post office; iron post stamped "4746 B"-----	4, 747. 539
Darwin, 3 miles southeast of, 15 feet west of road, granite boulder; aluminum tablet stamped "4463 B"-----	4, 464. 886
Darwin, 6.4 miles southeast of, 25 feet east of road at junction; iron post stamped "4446 B"-----	4, 448. 032
Darwin, 10.5 miles southeast of, 25 feet east of road, granite boulder; aluminum tablet stamped "4815 B"-----	4, 817. 255
Darwin, 12.3 miles southeast of, 20 feet west of road, granite boulder; bronze tablet stamped "5324 B"-----	5, 326. 153
Darwin, 15 miles southeast of, 60 feet west of Frank Steward's house; iron post stamped "5722 B"-----	5, 724. 529
Mount Vernon Mill, 12.4 miles north of, 5 miles west of Millspaugh, 25 feet east of road; iron post stamped "5685 B 1905"-----	5, 687. 370

## Primary leveling by Ress Philips in 1905-6

From point 5 miles west of Millspaugh east along stage road via Millspaugh to Ballarat

Feet

Millspaugh, 1 mile west of, 20 feet south of road, in large boulder; aluminum tablet stamped "6073 Keeler"-----	6, 073. 648
Millspaugh, 100 feet west of post office, 75 feet south of well, in large outcropping boulder; aluminum tablet stamped "6157 Keeler"-----	6, 157. 005
Millspaugh, 3 miles southeast of, 0.2 mile east of spring and stage station, 12 feet north of road, in top of granite boulder; bronze tablet stamped "4857 Keeler"-----	4, 857. 555
Millspaugh, 5.5 miles southeast of, in canyon 100 feet west of high black cliff, in large outcropping boulder; aluminum tablet stamped "3517 Keeler"-----	3, 517. 121
Ballarat, 8.7 miles northwest of, on broad slope overlooking Ballarat and Panamint valleys, below mouth of Shepherds Canyon, 20 feet north of road, in large granite boulder; aluminum tablet stamped "2460 Keeler 1905"-----	2, 460. 408
Ballarat, 4.6 miles west of, 15 feet north of road, in outcropping boulder; aluminum tablet stamped "1387 Keeler"-----	1, 388. 360
Ballarat, 2.4 miles west of, 40 feet west of junction of Ballarat and Bullfrog roads, in large borax flat; iron post stamped "Keeler 1045"-----	1, 044. 900
Ballarat, 300 feet north of post office, 20 feet north of road, in large outcropping boulder; aluminum tablet stamped "1069 Keeler"-----	1, 068. 787
Ballarat, 20 feet south of post office; iron post stamped "1066 Keeler" set in cubic yard of concrete-----	1, 065. 929

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

Downer's A line station 605+00, 150 feet west of, near summit of ridge; brass plug in rock, "L. A. A. B. M. No. 22, 30 feet W" painted on large blue boulder facing line-----	3, 786. 255
Downer's A line station 515+00, 450 feet west of, near top of ridge; brass plug in rock, marked with red, white, and blue flag and painted "L. A. A. B. M. No. 23"-----	3, 794. 698
Downer's A line station 388+00, 250 feet west of, near top of ridge; brass plug in rock, marked with red, white, and blue flag and painted "L. A. A. B. M. No. 24"-----	3, 781. 571
Downer's A line station 264+00, 150 feet west of, 200 feet north of Olancha Creek, 1 mile west of Olancha; brass plug in boulder, marked with red, white, and blue flag and painted "L. A. A. B. M. No. 25"-----	3, 770. 916
Downer's A line station 130+00, 320 feet east of, 5 feet south of branched yucca tree, marked with red, white, and blue flag on yucca and painted "L. A. A. B. M. No. 26" on blaze. Standard L. A. A. pipe No. 26-----	3, 759. 344
Downer's A line station 1+00, 200 feet west of, 5 feet southeast of branched yucca tree on edge of mesa, marked with red, white, and blue flag on yucca and painted "L. A. A. B. M. No. 27" on blaze. Standard L. A. A. pipe No. 27-----	3, 787. 784
Haiwee Meadows, 750 feet north of house, 35 feet west of road; standard U. S. G. S. pipe, stamped "L. A. A. 28" and "3731.029" on south edge of cap. (Bull. 342, p. 10)-----	3, 733. 043

## From Haiwee Reservoir to Red Rock summit

	Feet
Lower Haiwee dam site, 1,200 feet south of, standard L. A. A. pipe on knoll at end of low ridge, 100 feet west of road and 300 feet east of Young's grade station 3596+00, marked with red, white, and blue flag. No. 29-----	3, 676. 304
Young's grade station 3757+00, 275 feet west of, brass plug in boulder, three-fourths of a mile southwest of Rose Springs and about one-fourth of a mile west of Reaburn's station 94, painted "L. A. A. B. M. No. 30" on rock and marked with red, white, and blue flag. No. 30-----	3, 712. 901
Reaburn's station 72, 400 feet southwest of, brass plug in granite boulder, 600 feet north of station 71 and about three-fourths of a mile northeast of Portuguese Bench, painted "L. A. A. B. M. No. 31" on rock 6 feet west, and marked with red, white, and blue flag. No. 31-----	3, 560. 280
Reaburn's station 49, 400 feet northwest of, brass plug in granite boulder, on summit of knoll about 1 mile west of stage road where it crosses dry lake bed, painted on rock "L. A. A. B. M. No. 32," and marked with red, white, and blue flag. No. 32-----	3, 559. 592
Reaburn's station 25, 1,000 feet northwest of, brass plug in granite boulder, on top of ridge, 300 feet west of deep wash from Little Lake Canyon, painted on rock "L. A. A. B. M., No. 33," and marked with red, white, and blue flag-----	3, 583. 261
Reaburn's station 11, 50 feet east of, on crest of slate-colored ridge, 100 feet southeast of small yucca tree, between north and south portals of tunnel No. 2; standard L. A. A. pipe, marked with red, white, and blue flag, stamped "L. A. A. B. M. No. 33A"-----	3, 502. 710
Little Lake, on first ridge north of steep ridge south of, ending in lava cliff, standard L. A. A. pipe behind small rocky point; Young's grade station 4484+87.4 is below bench mark on same ridge. No. 34. Marked with red, white, and blue flag-----	3, 537. 497
Young's grade station 4507+00, in bottom of first deep canyon south of steep ridge ending in lava cliff, on ridge on north side of canyon; brass plug in granite boulder, painted "L. A. A. B. M. No. 35" on rock and marked with red, white, and blue flag-----	3, 563. 358
Soda Springs Canyon, on crest of sharp yellow ridge in center of upper end of first canyon north of; standard L. A. A. pipe No. 36, marked with red, white, and blue flag-----	3, 583. 918
Soda Springs Canyon, on crest of ridge jutting out from south side of upper end of; standard L. A. A. pipe No. 37, marked with red, white, and blue flag-----	3, 571. 073
Soda Springs Canyon, on saddle on short ridge jutting out from north side of first canyon south of, on rocky point; standard L. A. A. pipe No. 38, marked with red, white, and blue flag-----	3, 573. 824
Soda Springs Canyon, in third canyon south of, on ridge between forks of canyon; standard L. A. A. pipe No. 39, marked with red, white, and blue flag-----	3, 551. 668
Fivemile Canyon, 100 feet south from point 100 feet above crest of falls; brass plug in rock, painted "L. A. A. B. M. No. 40" in large letters facing north side of canyon, marked with red, white, and blue flag-----	3, 481. 756

Feet

- Dead Foot Canyon, near end of low ridge, directly south of pass  
to Fivemile Canyon, 50 feet south of small yucca tree; brass plug  
in flat granite boulder, painted on rock "L. A. A. B. M. No. 41,"  
marked with red, white, and blue flag----- 3,451.380
- Reaburn's station 1051, on rocky point, 150 feet north of mouth of  
Ninemile Canyon; brass plug in boulder, painted "L. A. A. B. M.  
No. 42" and marked with red, white, and blue flag----- 3,533.852
- Reaburn's station 1046, on ridge 600 feet southeast of mouth of  
Ninemile Canyon; brass plug in boulder, painted on rock "L. A. A.  
B. M. No. 43," marked with red, white, and blue flag----- 3,532.644