

NEVADA.

TRIANGULATION STATIONS.

Wabuska, Wellington, and Yerington quadrangles.

LYON COUNTY.

During the field season of 1913 triangulation was extended over part of Lyon County, Nev., in the Wabuska and Wellington 30' quadrangles for control of the Yerington 7½' quadrangle. The old stations Como and Mount Wilson were occupied and the scheme tied by unclosed triangles to Cleaver Peak and Desert Creek Peak. A least-square adjustment was made including the unoccupied points Cleaver and Desert Creek Peak. Observations and computations were made by R. H. Chapman.

The following positions are computed upon approximate North American datum, accepting the azimuth and distance Como-Mount Wilson given in Bulletin 122, page 336.

BUCKSKIN GALLOWES FRAME, LYON COUNTY, NEV. (Not occupied.)

Gallows frame of Kennedy Consolidated shaft at town of Buckskin.

Station mark: Middle of frame.

[Latitude, 38° 59' 33.07". Longitude, 119° 21' 05.08".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Wishart.....	249 00 49	69 03 16	3.77862	3.73
Mickey.....	273 44 43	93 48 47	3.97087	5.81
Packhorse.....	314 22 38	134 26 04	4.04277	6.86
Wilson.....	323 51 55	143 56 45	4.28786	12.06

CARSON HILL, LYON COUNTY, NEV.

On highest of brick-red knolls 6 miles northwest of Yerington and 7 miles southwest of Wabuska. Station is about 0.5 mile north of Yerington-Mason Pass road, 1 mile north of West End mine, and 1 mile east of Ironside shaft.

Signal: Tripod 4.5 feet high, black and white cloth.

Station mark: Neck of bottle on end 10 inches below surface, over which is bronze tablet cemented in rock 18 by 14 by 8 inches.

Reference marks: Tack in peg, 11.2 feet south of center in true azimuth 4° 58'; tack in peg 14.25 feet west of center in true azimuth 100° 01'; wheel on frame of Ironside shaft, about 1 mile west, in true azimuth 100° 14'.

[Latitude, 39° 03' 31.96". Longitude, 119° 14' 12.42".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Mickey.....	4 18 15.41	184 17 59.69	3.9033867	4.974
Wishart.....	39 38 07.56	219 36 14.46	3.8307836	4.209
Thompson Smelter.....	183 33 21	13 34 34	4.06590	7.23
Cleaver Peak.....	206 49 13.4	26 53 09.5	4.2989780	12.369
Luhr.....	317 49 37.83	137 53 31.81	4.1247560	8.281
Yerington water tank.....	319 54 55	139 57 51	4.01931	6.50
Yerington courthouse.....	321 29 09	141 31 57	4.01287	6.40

CLEAVER, LYON COUNTY, NEV. (Not occupied.)

Station is often called Wabuska Hill; a bare, rocky, flat-topped peak, 6 miles east of north of the town of Wabuska, in Lyon County, Nev.

Station mark: A cairn 8 feet high.

[Latitude, $39^{\circ} 13' 07.85''$. Longitude, $119^{\circ} 07' 58.02''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	''	°	'	''	<i>Log. meters.</i>	<i>Miles.</i>
Luhr.....	0	08	06.3	180	08	04.7	4.4415672	17.176
Wilson.....	10	27	47.0	190	24	30.2	4.6179583	25.782
Mickey.....	20	28	44.6	200	24	32.82	4.4388988	17.071
Carson Hill.....	26	53	09.5	206	49	13.4	4.2989780	12.369
Como.....	53	28	44.8	233	15	51.5	4.5645130	22.796
Como ^a	53	29	16	233	16	22	4.5645136	22.796

^a Figures from Bulletin 122.

COMO, WASHOE COUNTY, NEV.

A station of the Coast and Geodetic Survey, on a high conical peak on Pinenut Mountains, about 20 miles nearly due east from town of Genoa, about 20 miles south-east from Carson City, and about 17 miles southeast from Dayton.

Station mark: Subsurface mark a one-half by 4 inch-copper bolt leaded into a large and well-bedded granite rock. The surface mark a half-inch drill hole in center of large flat stone, 19 by 22 inches square and 5 inches thick, firmly cemented to top of stone and brick pier built over and around lower mark.

Reference marks: Two piers, one north and one south; drill holes were made in the rock, one in line to Round Top, distant 6.25 meters; one in line to north pier, distant 10.6 meters; and one in line to south pier, distant 7.24 meters from station.

[Latitude, $39^{\circ} 01' 18.060''$. Longitude, $119^{\circ} 28' 23.621''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	''	°	'	''	<i>Log. meters.</i>	<i>Miles.</i>
Cleaver Peak.....	233	15	51.5	53	28	44.8	4.5645130	22.796
Cleaver Peak ^a	233	16	22	53	29	16	4.5645136	22.796
Thompson Smelter.....	236	15	08	56	25	16	4.44497	17.31
Mickey.....	280	53	52.9	101	02	32.9	4.3064505	12.583
Packhorse.....	300	39	27.36	120	47	29.10	4.3314232	13.328
Mount Wilson ^a	310	37	13	130	46	47	4.4625328	18.025
Desert Creek Peak.....	343	02	19.5	163	08	16.7	4.6744206	29.361
Desert Creek Peak ^a	343	02	38	163	08	36	4.6744512	29.363

^a Figures from Bulletin 122.

DESERT CREEK PEAK, LYON COUNTY, NEV. (Not occupied.)

A bare peak, the northernmost on the ridge between Desert Creek and the Carson-Aurora road. It is 3 miles south of Hall and Simpson's ranch.

Permanent mark: A rock monument.

[Latitude, $38^{\circ} 36' 51.98''$ ($38^{\circ} 36' 51.9''$ ^a). Longitude, $119^{\circ} 18' 53.78''$ ($119^{\circ} 18' 54.1''$ ^a).]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	''	°	'	''	<i>Log. meters.</i>	<i>Miles.</i>
Como.....	163	08	16.7	343	02	19.5	4.6744206	29.361
Como ^a	163	08	36	343	02	38	4.6744512	29.363
Packhorse.....	187	51	25	7	53	28	4.5387706	21.494
Wilson.....	197	28	40.5	17	32	15.3	4.4404205	17.130
Wilson ^a	197	28	53	17	32	28	4.4405014	17.134

^a Figures from Bulletin 122.

LUHR, LYON COUNTY, NEV.

On northern rocky hill, about 3.5 miles northeast of Mason and 2 miles southeast of Yerington. On first bluff east of and 400 feet above Walker River, about 0.8 mile southeast of the Luhr ranch, and 0.5 mile northeast of cemetery at foot of bluff.

Signal: Tripod 4.5 feet high, white cloth, centered over station.

Station mark: Tack in peg under bronze tablet cemented in rock 18 by 18 by 12 inches, set level with surface.

Reference marks: Tack in peg 26.3 feet southwest from center, in true azimuth $70^{\circ} 51'$; tack in peg 53.4 feet east from center, in true azimuth $277^{\circ} 21'$.

[Latitude, $38^{\circ} 58' 11.48''$. Longitude, $119^{\circ} 08' 00.73''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Mount Wilson.....	29	34	46.31	209	31	31.75	4.1798938	9.403
Red Monument.....	37	15	28	217	12	30	4.05236	7.01
Mason schoolhouse.....	63	50	35	243	48	28	3.73434	3.37
Packhorse.....	64	43	20.24	244	38	32.99	4.0853892	7.564
Mickey.....	101	17	15.20	281	13	05.70	3.9883270	6.049
Yerington courthouse.....	125	43	11	305	42	05	3.49389	1.94
Yerington water tank.....	130	21	19	310	20	11	3.46310	1.80
Carson Hill.....	137	53	31.81	317	49	37.83	4.1247560	8.281
Thompson Smelter.....	163	42	26	343	39	45	4.34410	13.72
Cleaver Peak.....	180	08	04.7	0	08	06.3	4.4415672	17.176

MASON SCHOOLHOUSE, LYON COUNTY, NEV. (Not occupied.)

Public schoolhouse, east of railroad and south of Bridge Street, in town of Mason. Station mark: Flagstaff on cupola.

[Latitude, $38^{\circ} 56' 53.88''$. Longitude, $119^{\circ} 11' 22.92''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Mickey.....	132	31	58	312	29	56	3.80288	3.95
Luhr.....	243	48	28	63	50	35	3.73434	3.37

MICKEY (SINGATSE PEAK), LYON COUNTY, NEV.

On northern of two tips on highest mountain about 4.5 miles west of town of Yerington, 0.8 mile north of wagon road at Mickey Pass, and about 0.5 mile west of Nevada-Yerington mine.

Signal: Tripod about 8 feet high, black and white cloth, centered over tablet.

Station mark: Bronze tablet cemented in shattered rock of summit, stamped "6364 V. A."

Reference marks: Tack in peg 24.8 feet from and 10 feet below station, true azimuth $304^{\circ} 19'$; tack in peg 25.5 feet from and 10 feet below station, true azimuth $347^{\circ} 59'$.

[Latitude, $38^{\circ} 59' 13.08''$. Longitude, $119^{\circ} 14' 37.38''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Packhorse.....	11	33	03.49	191	32	25.59	3.8604516	4.506
Buckskin.....	93	48	47	273	44	43	3.97087	5.81
Como.....	101	02	32.9	280	53	52.9	4.3064505	12.583
Wishart.....	126	38	19.96	306	36	42.66	3.6661333	2.881
Carson Hill.....	184	17	59.69	4	18	15.41	3.9038867	4.974
Thompson smelter.....	189	47	02	9	48	30	4.29185	12.17
Cleaver.....	200	24	32.82	20	28	44.6	4.4388988	17.071
Luhr.....	281	13	05.7	101	17	15.2	3.9883270	6.049
Yerington water tank.....	270	07	11	90	10	23	3.86527	4.56
Yerington courthouse.....	270	37	30	90	40	33	3.84607	4.36
Mason schoolhouse.....	312	29	56	132	31	58	3.80288	3.95
Red Monument.....	345	54	57	165	56	08	4.04993	6.97
Mount Wilson.....	352	04	52.9	172	05	47.4	4.1820635	9.450

PACKHORSE, LYON COUNTY, NEV.

On highest point north of Hudson Pass, in range between Smith Valley and Mason Valley (Singatse Range). Rocky knoll on ridge about 4.5 miles southeast of Ludwig, about 5 miles southwest of Mason, 4 miles northwest of Hudson Pass, about 2 miles south of Bluestone Pass, and 2 miles east of south of Douglass Hill mines, from which it is visible.

Signal: Tripod about 8 feet high, black and white cloth, centered over tablet.

Station mark: Bronze tablet in boulder 36 by 24 by 14 inches on surface.

Reference marks: Neck of beer bottle set on end, level with surface, 22.82 feet north from center in true azimuth $198^{\circ} 58'$; neck of beer bottle set on end, level with surface, 24.05 feet southeast from center, in true azimuth $307^{\circ} 52'$.

[Latitude, $38^{\circ} 55' 22.67''$. Longitude, $119^{\circ} 15' 37.66''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Desert Creek.....	7 53 28	187 51 25	4.5387706	21.484
Como.....	120 47 29.10	300 39 27.36	4.3314232	13.328
Buckskin gallows frame.....	134 26 04	314 22 38	4.04277	6.86
Wishart.....	167 03 03.34	347 02 06.01	4.0055546	6.294
Mickey.....	191 32 25.59	11 33 03.49	3.8604516	4.506
Yerington courthouse.....	230 17 41	50 21 22	4.04157	6.84
Yerington water tank.....	231 05 07	51 08 56	4.05265	7.01
Luhr.....	244 38 32.9	64 43 20.24	4.0853892	7.564
Red Monument.....	312 04 12	132 06 01	3.75087	3.50
Mount Wilson.....	335 57 50.12	155 59 22.54	3.9401418	5.414

RED MONUMENT, LYON COUNTY, NEV. (Not occupied.)

High hogback of dark-reddish volcanic rock about 5 miles southwest of Mason and 2 miles southwest of Nordyke, and 1.5 miles southeast of Copperbird claim. There are three large cairns on summit; the western one is pyramidal, and the other two slender conical.

Station mark: Middle cairn of the three as seen from north or south.

[Latitude, $38^{\circ} 53' 20.20''$. Longitude, $119^{\circ} 12' 44.11''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Mount Wilson.....	8 39 11	188 38 55	3.62627	2.63
Packhorse.....	132 06 01	312 04 12	3.75087	3.50
Mickey.....	165 56 08	345 54 57	4.04993	6.97
Luhr.....	217 12 30	37 15 28	4.05236	7.01

THOMPSON SMELTER, LYON COUNTY, NEV. (Not occupied.)

Smelter at Thompson, about 3 miles northwest of Wabuska.

Station mark: Middle of high brick chimney.

[Latitude, $39^{\circ} 09' 38.84''$. Longitude, $119^{\circ} 12' 18.78''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Mickey.....	9 48 30	189 47 02	4.29185	12.17
Carson Hill.....	13 34 34	193 33 21	4.06590	7.23
Como.....	56 25 16	236 15 08	4.44497	17.31
Luhr.....	343 39 45	163 42 26	4.34410	13.72

MOUNT WILSON, LYON COUNTY, NEV.

Highest point of top of hogback, the highest mountain of range between Smith Valley and Mason Valley (Singatse Range). About 2 miles south of Hudson Pass, about 8 miles southwest of Mason post office, 10 miles southwest of Yerington, and 4 miles southwest of Nordyke.

Signal: Cairn 5 feet high and 6-foot base, built by H. E. C. Fensier in 1889.

Station mark: Center of cairn.

Reference marks: Bronze tablet in solid rock 16 feet south of center, true azimuth $5^{\circ} 07'$; cairn, 5-foot base and 7 feet high, on ledge of rock 219.5 feet southeast of center, true azimuth $285^{\circ} 58'$.

[Latitude, $38^{\circ} 51' 04.6''$.^a Longitude, $119^{\circ} 13' 10.5''$.^a]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Desert Creek Peak.....	17 32 15.3	197 28 40.5	4.4404205	17.130
Desert Creek Peak ^a	17 32 28	197 28 53	4.4405014	17.134
Como ^a	130 46 47	310 37 13	4.4625328	18.025
Buckskin frame.....	143 56 45	323 51 55	4.28786	12.06
Packhorse.....	155 59 22.54	335 57 50.12	3.9401418	5.414
Mickey.....	172 05 47.4	352 04 52.9	4.1820635	9.450
Red Monument.....	188 38 55	8 39 11	3.62627	2.63
Cleaver.....	190 24 30.2	10 27 47.0	4.617583	25.782
Luhr.....	209 31 31.75	29 34 46.41	4.179938	9.403

^a Figures from Bulletin 122.

WISHART, LYON COUNTY, NEV.

On knoll on yellowish ridge about 1 mile west of Mason Pass and 4 miles north of Ludwig. The station is about 1 mile southwest from Martha Washington shaft and 1.5 miles north of Albany claims. The highest point of ridge is about 1,500 feet north of station and about 50 feet above it.

Signal: Tripod 4.5 feet high, black and white cloth, over center of station.

Station mark: Neck of beer bottle on end, 10 inches under surface, over which is bronze tablet cemented in flat stone 18 by 14 by 9 inches, sunk level with surface.

Reference mark: Middle of gallows frame Martha Washington shaft about 1 mile northeast, in true azimuth $234^{\circ} 44'$.

[Latitude, $39^{\circ} 00' 42.77''$. Longitude, $119^{\circ} 17' 11.994''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Buckskin, gallows frame.....	69 03 16	249 00 49	3.77862	3.73
Carson Hill.....	219 36 14.46	39 38 07.56	3.8307836	4.209
Mickey.....	306 36 42.66	126 38 19.96	3.6661333	2.881
Packhorse.....	347 02 06.01	167 03 05.34	4.0055546	6.294

YERINGTON COURTHOUSE, LYON COUNTY, NEV. (Not occupied.)

Lyon County courthouse at Yerington.

Station mark: Flagstaff, east front.

[Latitude, $38^{\circ} 59' 10.50''$. Longitude, $119^{\circ} 09' 45.92''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Packhorse.....	50 21 22	230 17 41	4.04157	6.84
Mickey.....	90 40 33	270 37 30	3.84607	4.36
Carson Hill.....	141 31 57	321 29 09	4.01287	6.40
Luhr.....	305 42 05	125 43 11	3.49389	1.94

YERINGTON WATER TANK, LYON COUNTY, NEV. (Not occupied.)

High-pressure water tank of city supply.

Station mark: Center of ball on top of tank.

[Latitude, $38^{\circ} 59' 12.48''$. Longitude, $119^{\circ} 09' 32.71''$.]

To station—	Azimuth.			Back azimuth.		Distance.	
	°	'	"	°	'	Log. meters.	Miles.
Packhorse.....	51	08	56	231	05	4.05265	7.01
Mickey.....	90	10	23	270	07	3.86527	4.56
Carson Hill.....	139	57	51	319	54	4.01931	6.50
Luhr.....	310	20	11	130	21	3.46310	1.80

Manhattan and vicinity quadrangle.

NYE COUNTY.

The field work was done by A. T. Fowler in September and October, 1914. Eight stations were occupied, two of which, Lone Mountain and Toiyabe Dome, were United States Coast and Geodetic Survey stations, and a third, Toiyabe Dome, Southeast Summit, was supposed to be a secondary point of the same survey, but its computed position did not check with position given by the Coast Survey. Positions are on North American datum.

Five points were occupied and marked.

BALD MOUNTAIN, NYE COUNTY, NEV.

Bald Mountain is a prominent bare mountain about 3 miles north of Manhattan. Top of hill is of a light-gray color, and signal is difficult to distinguish unless light is favorable.

Can be reached by driving out the east Manhattan road and taking side road to the north up the Slaughter House Gulch. Wagon can be taken about $1\frac{1}{2}$ miles up this gulch to the old slaughterhouse. From this point saddle horses can be taken over an easy trail up the gulch to the summit.

Station mark: A bronze triangulation tablet.

Signal: Rock monument 5 feet, with flagpole and flag.

[Latitude, $38^{\circ} 34' 39.06''$. Longitude, $117^{\circ} 02' 41.39''$.]

To station—	Azimuth.			Back azimuth.			Distance.
	°	'	"	°	'	"	
Toiyabe Dome.....	136	45	56.79	316	34	24.42	Log. meters. 4.5909388
Lone Mountain.....	32	45	24.24	212	28	42.48	4.8624770
Toquima.....	215	24	06.56	35	27	15.27	4.1009223
Toiyabe Dome, Southeast Summit.....	143	58	42.94	323	50	59.28	4.4834777
Summit.....	5	59	50.27	185	59	30.58	3.8658228
Low Flag.....	68	33	18.06	248	30	25.48	3.8574465
Salisbury.....	354	48	55.78	174	49	05.35	3.6141675
Friday Flag.....	101	36	51.15	281	34	47.47	3.6900712

FRIDAY FLAG, NYE COUNTY, NEV.

Station is on a steep red hill 2 miles west of Bald Mountain and at the edge of the Big Smoky Valley. It is about 4 miles northwest of Manhattan, and rig can be taken to within three-quarters of a mile of the station, along old wood road, leaving town past the War Eagle mill.

Station mark: A bronze triangulation tablet set in ledge.

Signal: Stone windbreak built around west and south sides of station.

[Latitude, 38° 35' 11.00". Longitude, 117° 05' 59.64".]

To station—	Azimuth.			Back azimuth.			Distance.
	°	'	"	°	'	"	<i>Log. meters.</i>
Bald Mountain.....	281	34	47.47	101	36	51.15	3.6900712
Low Flag.....	27	43	33.06	207	42	44.06	3.6117226
Summit.....	334	01	42.09	154	03	25.94	3.9645655
Salisbury.....	314	28	35.60	134	30	48.78	3.8603269

LOW FLAG, NYE COUNTY, NEV.

On a low hill about 3 miles west of Manhattan. It is one-quarter of a mile west of the Manhattan-Round Manhattan road and three-quarters of a mile north of Central, a camp now nearly deserted. The Manhattan-Round Manhattan road leaves the Manhattan Gulch at Central and turns north.

Wagon can be taken nearly to station.

Signal: Quadripod signal covered with white cloth with flagpole and flag.

Station mark: A bronze triangulation table set in ledge.

[Latitude, 38° 33' 13.58". Longitude, 117° 07' 18.23".]

To station—	Azimuth.			Back azimuth.			Distance.
	°	'	"	°	'	"	<i>Log. meters.</i>
Toiyabe Dome, Southeast Summit.....	157	36	48.08	337	31	57.46	4.4693217
Bald Mountain.....	248	30	25.48	68	33	18.06	3.8574465
Summit.....	308	08	15.40	128	10	48.13	3.8780772
Salisbury.....	281	38	12.48	101	41	14.56	3.8588191
Friday Flag.....	207	42	44.06	27	43	33.06	3.6117226

SALISBURY, NYE COUNTY, NEV.

Salisbury Peak is the highest summit in a wooded ridge running northeast from Manhattan and is about 2 miles from the town. It is easily reached by following wagon road leading to Hoosier mine to summit of low pass in hills just east of the White Gap mine, leaving road in this pass and going north about one-half mile to the summit.

Station is on site of old location monument on north brow of hill.

Signal: Stone monument, wrapped with white cloth with flagpole and flag.

Station mark: A bronze tablet set in block of cement at bottom of pit 2 feet deep, solid rock not being found.

[Latitude, 38° 32' 26.22". Longitude, 117° 02' 26.05".]

To station—	Azimuth.			Back azimuth.			Distance.
	°	'	"	°	'	"	<i>Log. meters.</i>
Summit.....	19	33	34.65	199	33	05.29	3.5317292
Low Flag.....	101	41	14.56	281	38	12.48	3.8588191
Friday Flag.....	134	30	48.78	314	28	35.60	3.8603269
Bald Mountain.....	174	49	05.35	354	48	55.78	3.6141675

SUMMIT, NYE COUNTY, NEV.

On a low hill directly south of the "Summit," so called, where the main road from Manhattan to Tonopah crosses the summit of a low gap in the Toquima Range, about 2 miles south of Manhattan.

Station is about 1,500 feet south of road and wagon can be taken nearly to top of hill. Station is about 20 feet west of true summit of hill, which is covered with juniper trees and about 3 feet lower in elevation.

Signal: Large quadripod signal covered with white cloth with flagpole and flag.

Station mark: A bronze triangulation tablet set in block of cement at bottom of pit 2 feet in depth. No solid rock was found.

[Latitude, $38^{\circ} 30' 42.252''$. Longitude, $117^{\circ} 03' 13.055''$]

To station—	Azimuth.			Back azimuth.			Distance.
	°	'	"	°	'	"	<i>Log meters.</i>
Toiyabe Dome, Southeast Summit.....	151	46	08.10	331	38	44.47	4.5590905
Toquima.....	204	39	37.31	24	43	05.63	4.2867040
Bald Mountain.....	185	59	30.58	5	59	50.27	3.8658228
Low Flag.....	128	10	48.13	308	08	15.40	3.8780772
Salisbury.....	199	33	05.29	19	33	34.65	3.5317292
Friday Flag.....	154	03	25.94	334	01	42.09	3.9645655

TOIYABE DÔME, SOUTHEAST SUMMIT, NYE COUNTY, NEV.

On a high rounded summit, near end of ridge running east from Toiyabe Dome, locally known as Arc Dôme.

Southeast Dome overlooks the Big Smoky Valley to the north and south and is on a ridge directly above Darrroughs Hot Springs. There is a rocky peak a quarter of a mile east of station and nearer the end of the ridge, which is more noticeable in looking at the ridge from the Big Smoky Valley.

Station is most easily reached by trail up South Twin River, at the head of which there are good camp sites. Saddle horses can be taken to the summit.

Signal is a stone wall 6 feet high built around north and west sides of station to serve as windbreak at time station was occupied.

Station mark: A triangulation tablet set in rock.

[Latitude, $38^{\circ} 47' 56.90''$. Longitude, $117^{\circ} 15' 03.28''$]

To station—	Azimuth.			Back azimuth.			Distance.
	°	'	"	°	'	"	<i>Log meters.</i>
Lone Mountain.....	13	56	12.42	193	47	09.17	4.9471774
Toiyabe Dome.....	113	07	46.54	293	03	57.55	3.9814813
Toquima.....	299	29	56.30	119	40	49.67	4.4624478
Bald Mountain.....	323	50	59.28	143	58	42.94	4.4834777
Summit.....	331	38	44.47	151	46	08.10	4.5590905
Low Flag.....	337	31	57.46	157	36	48.08	4.4693217

Ivanpah and Las Vegas quadrangles and Yellow Pine mining district.

CLARK COUNTY.

The positions in the following list were determined by L. F. Biggs, in September and October, 1915, on approximate North American datum.

This triangulation is dependent on a weak base (Clark, Olcott, and Kingston) and it should be connected with stations whose coordinates are well determined before the positions can be finally adjusted.

For positions in California in this locality see Bulletin 644-C.

ARDEN, CLARK COUNTY, NEV. (Not occupied.)

Center of black water tank at Arden, a station on the San Pedro, Los Angeles & Salt Lake Railroad 12 miles south of Las Vegas.

[Latitude, 36° 00' 49.93". Longitude, 115° 13' 56.74".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Bird.....	43	55	14.03	223	49	49.54	4.3007460	12.419
Olcott.....	77	37	34.37	257	28	06.09	4.3945892	15.415
Mountain Springs.....	96	20	28.91	276	11	40.60	4.3546137	14.059

BIRD, CLARK COUNTY, NEV.

On highest point of ridge 5 miles north-northeast of Good Springs and 1½ miles west of Birds Spring.

Signal: A rock cairn 6 feet high.

Station mark: A United States Geological Survey bronze triangulation tablet under center of cairn.

[Latitude, 35° 53' 02.46". Longitude, 115° 23' 09.48".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Diablo Grande.....	16	26	17.76	196	23	55.81	4.3337066	13.399
Shenandoah.....	71	24	29.78	251	20	09.94	4.0697081	7.296
Olcott.....	131	07	27.03	311	03	23.94	4.1393085	8.564
Mountain Springs.....	152	52	10.69	332	48	47.78	4.2780511	11.787
Arden.....	223	49	49.54	43	55	14.03	4.3007460	12.419
Borax.....	347	53	45.75	167	55	19.68	4.2844156	11.961

BORAX, CLARK COUNTY, NEV. (Not occupied.)

Center of black water tank at Borax, a station on the San Pedro, Los Angeles & Salt Lake Railroad 24 miles south of Las Vegas.

[Latitude, 35° 42' 51.76". Longitude, 115° 20' 28.91".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Diablo Grande.....	79	37	45.66	259	33	50.30	4.0131508	6.405
Shenandoah.....	134	51	42.96	314	45	49.76	4.3301080	13.288
Bird.....	167	55	19.68	347	53	45.75	4.2844156	11.961

DIABLO GRANDE (IVANPAH), CLARK COUNTY, NEV.

On the highest point of hill known as Diablo Grande, about 10 miles south of Good-springs.

Station mark: A chiseled cross under center of cairn.

Signal: A rock cairn.

Reference mark: Aluminum tablet marked "V. A. 1910 5865," 6.2 feet from station. True azimuth, station to reference mark, 66° 40'.

[Latitude, 35° 41' 51.37". Longitude, 115° 27' 12.19".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Clark.....	32	40	54.31	212	36	11.41	4.3554467	14.086
Knights Well.....	87	47	16.50	267	44	32.44	3.8496820	4.396
Kingston.....	94	34	12.06	274	18	01.28	4.6225326	26.055
Corner secs. 1, 2, 35, and 36.....	109	05	33.96	289	02	35.21	3.9109050	5.061
Ripley.....	129	50	06.55	309	44	55.07	4.2413989	10.833
Green Monster.....	145	00	45.43	324	54	36.05	4.4411812	17.161
Shenandoah.....	163	25	55.52	343	23	58.15	4.2471933	10.979
Olcott.....	171	46	22.82	351	44	42.35	4.4778740	18.673
Bird.....	196	23	55.81	16	26	17.76	4.3337066	13.399
Borax.....	259	33	50.30	79	37	45.66	4.0131508	6.405

GREEN MONSTER, CLARK COUNTY, NEV.

On high hill about 1 mile northeast of Green Monster mine and 7 miles north of Ripley.

Signal: A rock cairn 5 feet high.

Station mark: Chiseled cross under center of cairn.

Reference mark: A United States Geological Survey triangulation tablet 18.3 feet from cairn. True azimuth, station to reference mark, 120° 58'.

[Latitude, 35° 54' 05.04". Longitude, 115° 37' 43.67".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Kingston.....	53	17	29.58	233	07	25.91	4.5097518	20.096
Mesa.....	198	43	51.98	18	45	54.58	4.2114361	10.111
Olcott.....	238	13	31.72	58	18	01.58	4.1320639	8.422
Shenandoah.....	297	41	30.73	117	45	43.13	4.0865641	7.584
Diablo Grande.....	324	54	36.05	145	00	45.43	4.4411812	17.161
Corner secs. 1, 2, 35, and 36.....	337	43	00.38	157	46	10.68	4.3335927	13.395
Knights Well.....	338	56	55.93	159	00	20.84	4.3895211	15.236
Ripley.....	347	50	12.84	167	51	10.42	4.0688141	7.281
Clark.....	354	58	17.75	174	59	42.76	4.6218156	26.012

MESA, CLARK COUNTY, NEV.

On highest point of hill about 3 miles west of Mountain Springs.

Signal: A rock cairn 7 feet high.

Station mark: A chiseled circle under center of cairn.

Reference mark: A United States Geological Survey bronze tablet, 6.8 feet from cairn. True azimuth, station to reference mark, 160° 30'.

[Latitude, 36° 02' 24.98". Longitude, 115° 34' 14.93".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Green Monster.....	18	45	54.58	198	43	51.98	4.2114361	10.111
Kingston.....	41	54	59.92	221	42	52.89	4.6689748	28.995
Mountain Springs.....	273	15	15.53	93	18	23.74	3.9042702	4.984
Olcott.....	322	45	21.36	142	47	48.98	4.0169012	6.460

MOUNTAIN SPRINGS, CLARK COUNTY, NEV.

On peak 1½ miles east of Mountain Springs.

Signal: A rock cairn 6 feet high with tree in center.

Station mark: Chisel mark (X) under center of cairn.

Reference mark: United States Geological Survey bronze triangulation tablet 7 feet from cairn. True azimuth, station to reference mark, 203° 00'.

[Latitude, 36° 02' 10.08". Longitude, 115° 28' 55.02".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Olcott.....	12	25	51.87	192	25	11.44	3.9034861	4.975
Mesa.....	93	18	23.74	273	15	15.53	3.9042702	4.984
Arden.....	276	11	40.60	96	20	28.91	4.3546137	14.059
Rose Tank.....	307	23	06	127	24	44	3.72052	3.265
Bird.....	332	48	47.78	152	52	10.69	4.2780511	11.787

OLCOTT, CLARK COUNTY, NEV.

Described in Bulletin 496, page 38, as follows:

"Highest point on Mount Olcott. It is about 36 miles southwest of Las Vegas, 40 miles southeast of Manse post office, and 3 miles east of the Potosi mine. The station can be reached from Mountain Spring by going 2.25 miles southeast to forks of road,

thence southwest to Hussey mine via Potosi mine, and eastward on south slope of mountain to peak.

"Station mark: Tablet cemented in rock."

[Latitude, 35° 57' 56.37". Longitude, 115° 30' 03.81".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	<i>Log. meters.</i>	<i>Miles.</i>
Shenandoah.....	3	16	08.51	183	15	51.41	4.1082033	7.972
Clark.....	9	12	36.11	189	09	32.54	4.6942983	30.736
Kingston.....	54	49	23.12	234	34	49.68	4.6614279	28.496
Green Monster.....	58	18	01.58	238	13	31.72	4.1320639	8.422
Mesa.....	142	47	48.98	322	45	21.36	4.0169012	6.460
Mountain Spring.....	192	25	11.44	12	25	51.87	3.9034861	4.975
Rose Tank.....	231	51	48	51	54	07	3.87497	4.659
Arden.....	257	28	06.09	77	37	34.37	4.3945892	15.415
Bird.....	311	03	23.94	131	07	27.03	4.1393085	8.564
Diablo Grande.....	351	44	42.35	171	46	22.82	4.4778740	18.673

RIPLEY, CLARK COUNTY, NEV.

Center of windmill at post office, Ripley, Nev.

[Latitude, 35° 47' 53.40". Longitude, 115° 36' 05.35".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	<i>Log. meters.</i>	<i>Miles.</i>
Green Monster.....	167	51	10.42	347	50	12.84	4.0688141	7.281
Diablo Grande.....	309	44	55.07	129	50	06.55	4.2413989	10.533
Clark.....	357	44	35.38	177	45	02.95	4.4810177	18.809

ROSE TANK, CLARK COUNTY, NEV.

Center of wooden water tank on the Potosi-Arden road about 6 miles east of Potosi mine and near forks of road to Goodsprings.

[Latitude, 36° 00' 26.54". Longitude, 115° 26' 08.31".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	<i>Log. meters.</i>	<i>Miles.</i>
Olcott.....	127	24	44	307	23	06	3.72052	3.265
Mountain Springs.....	51	54	07	231	51	48	3.87497	4.659

SHENANDOAH, CLARK COUNTY, NEV.

On the highest hill about 5 miles west-northwest of Goodsprings and about 1 mile west of Yellow Pine mine.

Signal: A rock cairn 7 feet high.

Station mark: A bottle neck cemented in rock under center of cairn.

[Latitude, 35° 51' 00.79". Longitude, 115° 30' 32.96".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	<i>Log. meters.</i>	<i>Miles.</i>
Knights Well.....	6	41	54.22	186	41	07.23	4.2387279	10.767
Corner secs. 1, 2, 35, and 36.....	10	31	21.18	190	30	19.51	4.1618474	9.020
Clark.....	11	16	37.81	191	13	51.51	4.5650049	22.822
Kingston.....	69	40	23.08	249	26	07.91	4.5932003	24.353
Green Monster.....	117	45	43.13	297	41	30.73	4.0865641	7.584
Olcott.....	183	15	51.41	3	16	08.51	4.1082033	7.972
Bird.....	251	20	09.94	71	24	29.78	4.0697081	7.296
Borax.....	314	45	49.76	134	51	42.96	4.3301080	13.288
Diablo Grande.....	343	23	58.15	163	25	55.52	4.2471933	10.979

Bristol Range, Delamar, Newland, and Panaca quadrangles.

LINCOLN COUNTY.

In the summer of 1915 H. H. Hodgeson extended triangulation from U. S. Coast and Geodetic Survey primary station Pioche and supplementary station White Rock over the above-named quadrangles.

Ten primary stations and seven 3-point stations were occupied and 25 points were located by intersections, all on North American datum.

BAILEY, LINCOLN COUNTY, NEV.

A three-point station on a red brushy summit about 4 miles northwest of Bristol well, on east side of Bristol-Ely road and 2 miles northwest of the Horn Silver mine. Can be reached easily with animals from Bristol Well.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Cedar tree, brushy top, cairn around base and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 18.1 feet and in true azimuth $66^{\circ} 36'$; (B) chiseled cross in rock distant from station mark 14.8 feet and in true azimuth $229^{\circ} 53'$.

[Latitude $38^{\circ} 10' 04.24''$. Longitude $114^{\circ} 42' 38.75''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
West Lava.....	35	38	33	215	30	39	4.45144	17.570
Lava Tit.....	61	15	49	241	11	34	4.05903	7.124
Black Cliff.....	71	36	12	251	21	45	4.55728	22.420
Sharks Tooth.....	90	19	21	270	11	49	4.25125	11.082
Black Cone.....	107	49	25	287	42	30	4.21297	10.146
Wilson.....	253	21	42.98	73	33	26.35	4.4603818	17.936
Parsnip.....	273	54	17.00	94	08	34.86	4.5300638	21.058
Jackrabbit.....	313	37	41.40	133	41	30.43	4.0965135	7.760
Bristol.....	329	48	26.40	149	52	23.19	4.2698328	11.566
Highland.....	338	59	53.22	159	04	47.31	4.5124557	20.221
Charcoal.....	346	23	57.72	166	24	41.84	3.8693523	4.599
White Cliff.....	351	59	59	172	00	43	4.09935	7.811

BENNETT, LINCOLN COUNTY, NEV. (Not occupied.)

The rocky south point of a double summit on the north side of Bennett Pass in the Highland Range. It is 6 miles south from Highland Peak.

Signal and station mark: Apparent highest point.

[Latitude $37^{\circ} 50' 09.5''$. Longitude $114^{\circ} 33' 32.4''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	212	01	34	32	04	24	4.10744	7.958
Spring Valley.....	229	44	03	49	55	27	4.55089	22.092
Red Hill.....	236	38	26	56	43	18	4.14281	8.633
Pioche.....	249	20	36	69	39	19	4.67818	29.616

BLACK CONE, LINCOLN COUNTY, NEV. (Not occupied.)

A high dark cone summit about 15 miles northwest from Bristol Well; on same ridge with and about 3 miles northeast of Sharks Tooth. A white rock outcrop (on the east slope) dipping south about 300 feet below the summit gives prominence to the dark upper part of the cone.

Signal and station mark: Apparent highest point.

[Latitude 38° 12' 45.8". Longitude 114° 53' 18.0".]

To station—	Azimuth.			Back azimuth.		Distance.	
	°	'	"	°	'	Log. meters.	Miles.
Wilson.....	265	33	50	85	52	4.63681	26.925
Bailey.....	287	42	30	107	49	4.21297	10.146
Bristol.....	310	08	00	130	18	4.51374	20.282
Highland.....	322	19	10	142	30	4.64967	27.735

BLACK CLIFF, NYE COUNTY, NEV. (Not occupied.)

A high rocky cliff point on a dark summit, sometimes called Indian Peak, at the north end of the Seaman Range, which breaks off abruptly at this cliff, while to the south it extends for 20 miles with higher summits than the one sighted.

Signal and station mark: Apparent highest point.

[Latitude 38° 03' 52.6". Longitude 115° 06' 03.2".]

To station—	Azimuth.			Back azimuth.		Distance.	
	°	'	"	°	'	Log. meters.	Miles.
Bailey.....	251	21	45	71	36	4.55728	22.420
Wilson.....	252	08	39	72	34	4.81251	40.352
Jackrabbit.....	266	05	49	86	24	4.63714	26.946
Highland.....	292	14	22	112	33	4.69614	30.867

BRISTOL, LINCOLN COUNTY, NEV.

On a high rocky summit of the Bristol Range, 12 miles northwest from the town of Pioche and 3 miles north along the ridge from Stampede Gap.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pine tree, brushy top, cairn around base and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 17.2 feet and in true azimuth 171° 16'; (B) chiseled cross in rock distant from station mark 19.4 feet and in true azimuth 333° 21'.

[Latitude 38° 01' 22.25". Longitude 114° 36' 14.96".]

To station—	Azimuth.			Back azimuth.		Distance.	
	°	'	"	°	'	Log. meters.	Miles.
West Lava.....	75	07	09	254	56	4.42712	16.614
White Cliff.....	115	37	37	295	34	3.92620	5.253
Lava Tit.....	118	39	58	298	31	4.34445	13.734
Sharks Tooth.....	120	49	51	300	33	4.50036	19.666
Black Cone.....	130	18	32	310	08	4.51374	20.281
Charcoal.....	139	28	33.47	319	25	4.0686365	7.277
Bailey.....	149	52	23.19	329	48	4.2698328	11.566
Wilson.....	216	58	57.18	37	06	4.4837365	18.927
Page.....	221	43	06.21	41	50	4.4035069	15.734
Parsnip.....	240	39	31.76	60	49	4.4481793	17.439
White Rock No. 1.....	246	41	38	66	52	4.46075	17.951
South Parsnip.....	254	10	02	74	20	4.45521	17.724
Low Cone.....	257	21	32	77	29	4.30670	12.591
Danton.....	259	31	07	79	43	4.49220	19.300
Eight Mile.....	264	28	48.51	84	33	4.0620584	7.168
Quarter Corner.....	262	39	21.67	82	48	4.3435441	13.706
Spring Valley.....	265	51	29.70	86	04	4.4937948	19.371
Section Corner.....	269	05	20.73	89	16	4.4267963	16.602
Pioche.....	274	35	51.64	94	56	4.6877241	30.274
Red Butte.....	275	02	28.89	95	13	4.4086835	15.923
Trestle.....	282	49	17.22	112	56	4.2617251	11.352
Tank.....	300	40	29.6	120	53	4.227982	10.504
Smelter.....	300	44	17.77	120	50	4.2131998	10.152
Pioche School.....	306	00	29.97	126	05	4.2242785	10.414
Ely.....	312	33	31.29	132	38	4.1646145	9.008
Stampede.....	338	46	06.98	158	47	3.7658856	3.624
Gap.....	349	53	12.61	169	53	3.7847822	3.785
Highland.....	350	54	53.19	170	55	4.1606689	8.550

BULLIONVILLE, LINCOLN COUNTY, NEV. (Not occupied.)

Brick chimney at Bullionville smelter, about 1.5 miles northwest of Panaca.
Signal and station mark: Center of chimney.

[Latitude 37° 48' 25.47". Longitude 114° 24' 00.26".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Highland.....	121	40	57.95	301	34	24.54	4.2650302	11.439
Ely.....	152	57	07.01	332	54	06.49	4.1984328	9.813
Red Hill.....	167	38	48.83	347	37	49.21	4.0451501	6.895

CHARCOAL, LINCOLN COUNTY, NEV. (Not occupied.)

The middle one of three charcoal ovens, about 1,000 feet southwest from Bristol Well.

Signal and station mark: Center of oven.

[Latitude 38° 06' 10.89". Longitude 114° 41' 27.31".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Bailey.....	166	24	41.84	346	23	57.72	3.8693523	4.599
Jackrabbit.....	281	02	20.65	101	05	25.43	3.8713584	4.621
Bristol.....	319	25	20.90	139	28	33.47	4.0686365	7.277

DANTON, LINCOLN COUNTY, NEV. (Not occupied.)

A cone summit on the north side of the Spring Valley-Pioche road and in the pass where the road crosses the Wilson Creek Range. It is about 3 miles west of Danton Spring.

Signal and station mark: Apparent highest point.

[Latitude 38° 04' 23.7". Longitude 114° 15' 22.2".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	52	04	39	231	56	20	4.40055	15.628
Highland.....	54	59	48	234	47	54	4.53890	21.491
Bristol.....	79	43	59	259	31	07	4.49220	19.300
Jackrabbit.....	93	35	37	273	22	36	4.49007	19.205

EIGHTMILE, LINCOLN COUNTY, NEV. (Not occupied.)

A large wooden windmill at the Eightmile Well, located in Patterson, Wash. It is about 8 miles northwest of the town of Pioche and is on the Pioche-Silves Park road.

Signal and station mark: Center of windmill tower.

[Latitude 38° 01' 57.98". Longitude 114° 28' 24.12".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	3	50	20.4	183	50	01.8	4.041943	6.844
Bristol.....	84	33	38.6	264	28	48.5	4.062058	7.168
Wilson.....	196	29	45.8	16	32	40.3	4.383987	15.043
Parsnip.....	225	50	27.5	45	56	04.5	4.258202	11.260

ELY (PIOCHE PEAK, U. S. COAST AND GEODETIC SURVEY), LINCOLN COUNTY, NEV.

On the summit of Mount Ely, about 2 miles northwest from town of Pioche. Station is easily reached with animals.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Cedar tree, brushy top, cairn around base and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 31 feet and in true azimuth $352^{\circ} 31'$; (B) chiseled cross in rock distant from station mark 29.6 feet and in true azimuth $271^{\circ} 46'$.

NOTE.—This station is a supplementary point of the U. S. Coast and Geodetic Survey, located in 1881 and called "Pioche Peak." The old monument is very small. The bronze triangulation tablet (present station mark) is at the center of old monument, and the Coast Survey position for the same is: Latitude $37^{\circ} 56' 01.546''$; longitude, $114^{\circ} 28' 54.342''$.

[Latitude $37^{\circ} 56' 01.55''$. Longitude $114^{\circ} 28' 54.32''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
South Highland.....	15	48	32	195	45	47	4.38344	19.024
Bennett.....	32	04	24	212	01	34	4.10744	7.958
Highland.....	62	33	36.94	242	30	03.67	3.9802544	5.938
Stampede.....	117	16	11.34	297	12	33.56	3.9878050	6.042
Bristol.....	132	38	02.47	312	33	31.29	4.1040145	9.078
Jackrabbit.....	147	31	50.95	327	27	21.67	4.3135223	12.790
Eightmile.....	183	50	01.78	3	50	20.36	4.0419426	6.844
Page.....	192	01	26.32	12	04	01.58	4.4084326	12.280
Wilson.....	192	32	29.43	12	35	42.43	4.5445520	21.772
Parsnip.....	210	11	06.31	30	16	53.92	4.4364710	16.775
White Rock.....	216	34	52	36	41	32	4.42345	16.474
Quarter Corner.....	221	16	06.60	41	20	47.60	4.2273010	10.487
South Parsnip.....	223	24	17	43	32	19	4.38238	14.987
Danton.....	231	56	20	52	04	39	4.40055	15.628
Spring Valley.....	239	15	03.95	59	23	37.53	4.3743109	14.712
Red Butte.....	212	45	12.34	62	51	24.92	4.2206456	10.328
Smelter.....	245	04	58.55	65	06	21.24	3.5588492	2.250
Pioche Tank.....	251	47	23.54	71	48	58.77	3.6000411	2.474
Pioche.....	261	05	38.70	81	21	31.80	4.5829009	23.782
Pioche School.....	269	31	02.93	89	32	13.35	3.4467459	1.739
Rim.....	292	53	50	113	06	57	4.53179	21.141
South Rim.....	296	32	42	116	45	13	4.52483	20.805
Red Hill.....	303	48	45.94	123	50	46.94	3.7626372	3.597
Bullionville.....	332	54	06.49	152	57	07.01	4.1984328	9.813

FAIRVIEW PEAK, LINCOLN COUNTY, NEV. (Not occupied.)

The larger of two cone-shaped hills about 6 miles northeast from Bristol Well and 7 miles northwest from Bristol Pass.

NOTE.—South Cone is known locally as Fairview Peak.

Signal and station mark: Approximate highest point.

[Latitude $38^{\circ} 12' 08.7''$. Longitude $114^{\circ} 41' 06.0''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Parsnip.....	281	02	11	101	15	32	4.50714	19.975
Red Butte.....	304	10	42	124	24	57	4.59596	24.508
Smelter.....	323	11	37	143	21	03	4.54784	21.937
Jackrabbit.....	331	26	14	151	29	06	4.15174	8.812

FOGLIANI, LINCOLN COUNTY, NEV.

A three-point station on a small summit at point of ridge, 535 feet east of the chimney of Spring Valley ranch house of Louis Fogliani.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Small pole and flag.

Reference marks: Center of large brick chimney on main part of the Fogliani ranch house distant from station mark 535 feet and in true azimuth $100^{\circ} 17' 42''$.

[Latitude $38^{\circ} 04' 39.10''$. Longitude $114^{\circ} 09' 51.01''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Spring Valley.....	62 46 52.68	242 43 42.29	3.9278139	5.262
Parsnip.....	118 30 13.58	298 24 16.10	4.2054444	9.972
Wilson.....	132 07 54.19	311 59 21.12	4.4350641	16.921
Pioche.....	315 34 28.40	135 38 38.65	4.1510832	8.799
Fogliani's house chimney.....	100 17 42	2.21224	a 535

a Feet.

GAP, LINCOLN COUNTY, NEV.

A three-point station about 300 feet west of the wagon road in Stampede Gap and 25 feet above the road, on a blue-limestone point. (This three-point station was made to locate a section corner.)

Station mark: None.

Signal: Pole and flag.

Reference marks: (A) Bronze triangulation tablet cemented in rock by Levelman D. S. Birkett in 1915 and described as follows: "Stampede Pass, 225 feet west of and 6 feet below level of summit of, 20 feet north and 7 feet above wagon road, witnessed by pile of boulders, in limestone outcrop; bronze tablet stamped '7315 1915 29' (should be restamped 30); 7,315.432 feet," distant from instrument station 480 feet and in true azimuth $211^{\circ} 36' 30''$. (B) Corner to secs. 4, 5, 8, and 9, T. 1 N., R. 66 E. Mount Diablo meridian. Stone in place at corner (properly marked) and four bearing trees (properly marked) distant from instrument station 350 feet and in true azimuth $359^{\circ} 03' 00''$.

[Latitude $37^{\circ} 58' 07.72''$. Longitude $114^{\circ} 35' 31.13''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Lava Tit.....	129 03 48	308 54 42	4.42080	16.374
White Cliff.....	138 02 14	317 58 54	4.11311	8.062
Bristol.....	169 53 39.6	349 53 12.6	3.784782	3.785
Stampede.....	241 44 14.6	61 44 40.9	3.073252	7.357
Bench mark 7315.....	211 36 30	a 480
Section Corner.....	359 03 00	a 350

a Feet.

GRAY CONE, LINCOLN COUNTY, NEV. (Not occupied.)

A gray rocky cone summit about 4 miles southeast from the town of Pioche and on the east side of the Pioche-Panaca road.

Signal and station mark: Apparent highest point.

[Latitude $37^{\circ} 54' 17.3''$. Longitude $114^{\circ} 24' 26.7''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Red Hill.....	89 43 46	269 43 03	3.23688	10.719
Red Butte.....	217 19 55	37 23 23	4.13354	8.451
Spring Valley.....	222 05 07	42 10 58	4.31398	12.803
Pioche.....	253 45 39	73 58 47	4.51298	20.245

HIGHLAND, LINCOLN COUNTY, NEV.

A summit of Highland Ridge about 8 miles west from the town of Pioche. Summit can easily be reached with animals from the ranch of James Wheeler, who lives about 3 miles northeast from the peak. The route lies by road to the forks of Water Canyon, thence up the right fork by trail to saddle in main divide, thence south along ridge to station.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pine tree, brushy top, cairn around base and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 38.3 feet and in true azimuth $27^{\circ} 12'$; (B) chiseled cross in rock distant from station mark 23.2 feet and in true azimuth $139^{\circ} 36'$.

[Latitude $37^{\circ} 53' 38.59''$. Longitude $114^{\circ} 34' 41.40''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
West Lava.....	104	48	39	284	36	51	4.46376	10.076
Black Cliff.....	112	33	41	292	14	22	4.69614	30.867
Sharks Tooth.....	136	01	18	315	48	52	4.62754	26.357
Lava Tit.....	138	58	08	318	48	58	4.51870	20.514
Black Cone.....	142	30	39	322	19	10	4.64967	27.734
White Cliff.....	151	08	48	331	04	39	4.31156	12.732
Bailey.....	159	04	47.31	338	59	53.22	4.5124557	20.221
Bristol.....	170	55	50.75	350	54	53.19	4.1606689	8.996
Stampede.....	178	53	35.39	358	53	31.08	3.9474219	5.505
Wilson.....	202	33	52.16	22	40	39.09	4.6214328	25.989
Page.....	203	42	22.83	23	48	31.85	4.5593252	22.525
Parsnip.....	218	21	09.20	38	30	30.44	4.5533680	22.219
Danton.....	234	47	54	54	59	48	4.53890	21.491
Section Corner.....	238	56	38.75	59	06	54.93	4.4551548	17.721
Ely.....	242	30	03.67	62	33	36.94	3.9802544	5.937
Red Butte.....	242	37	25.21	62	47	11.07	4.4179046	16.265
Smelter.....	243	11	39.18	63	16	35.15	4.1197226	8.186
Pioche.....	257	21	47.89	77	41	13.98	4.6760625	29.472
Red Hill.....	264	51	36.82	84	57	10.98	4.1252579	8.291
Little Summit.....	267	33	22	87	49	34	4.58790	24.058
Rim.....	282	26	57	102	43	37	4.61058	25.347
South Rim.....	285	18	17	105	34	21	4.60052	24.767
Bullionville.....	301	34	24.54	121	40	57.95	4.2650302	11.439

JACKRABBIT, LINCOLN COUNTY, NEV.

A checked three-point station on a dark rocky summit near the north end of the Bristol Range and south from Bristol Pass. It is about half a mile north from the Hillside mine and on the north side of an aerial tram which connects the Hillside and Jackrabbit mines. Can be easily reached by trail with animals from either mine.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pine tree, brushy top, cairn around base and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 25.1 feet and in true azimuth $352^{\circ} 40'$; (B) chiseled cross in rock distant from station mark 22.8 feet and in true azimuth $246^{\circ} 16'$.

[Latitude $38^{\circ} 05' 24.60''$. Longitude $114^{\circ} 36' 27.80''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
West Lava.....	60	40	28	240	29	45	4.46656	18.193
White Cliff.....	62	20	23	242	17	18	3.91569	5.117
Black Cliff.....	86	34	04	266	05	49	4.63714	26.946
Lava Tit.....	99	18	56	279	10	53	4.28637	12.015
Charcoal.....	101	05	25.43	281	02	20.65	3.8713584	4.621
Bailey.....	133	41	30.43	313	37	41.40	4.0965135	7.760
Fairview Peak.....	151	29	06	331	26	14	4.15174	8.812
Wilson.....	227	51	46.67	47	59	40.23	4.4002227	15.616
Parsnip.....	255	46	28.87	75	56	57.01	4.4075926	15.883
Danton.....	273	22	36	93	35	37	4.49007	19.205
Trestle.....	310	19	16.5	130	26	29.3	4.352131	13.979
Smelter.....	317	46	52.08	137	52	54.83	4.3296862	13.275
Ely.....	327	27	21.67	147	31	50.95	4.3135223	12.790

LAVA TIT, LINCOLN COUNTY, NEV. (Not occupied.)

A low lava summit at north end of Dry Lake Valley and about 5 miles southeast of Sharks Tooth. It is on the east edge of broad wash which enters Dry Lake Valley from the north.

Signal and station mark: Apparent highest point.

[Latitude 38° 07' 05.4". Longitude 114° 49' 31.1"]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Bailey.....	241	11	34	61	15	49	4.05903	7.118
Jackrabbit.....	279	10	53	99	18	56	4.28637	12.015
Bristol.....	298	31	46	118	39	58	4.34445	13.734
Gap.....	308	54	42	129	03	48	4.42080	16.374
Highland.....	318	48	58	138	58	08	4.51870	20.514

LITTLE SUMMIT, LINCOLN COUNTY, NEV. (Not occupied.)

A rocky, sharp point on ridge about 5 miles east of Rose Valley. It is on south side of Modena-Rose Valley road and about 2 miles south from the point on this road locally known as Little Summit.

Signal and station mark: Apparent highest point.

[Latitude 37° 54' 29.2". Longitude 114° 08' 18.0"]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Highland.....	87	49	34	267	33	22	4.58790	24.088
Red Hill.....	89	14	32	269	03	53	4.40477	15.780
Red Butte.....	124	12	07	304	05	39	4.26964	11.561
Spring Valley.....	146	43	36	326	38	29	4.25193	11.099

LOW CONE, LINCOLN COUNTY, NEV. (Not occupied.)

A low red cone in the valley of Patterson Wash; it is on the east side of wash and about 6 miles northeast from Eightmile well.

Signal and station mark: Apparent highest point.

[Latitude 38° 03' 45.3". Longitude 114° 22' 43.9"]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Smelter.....	24	16	31	204	14	06	4.14633	8.704
Bristol.....	77	29	52	257	21	32	4.30670	12.591
Parsnip.....	206	52	31	26	54	31	4.01844	6.483
Spring Valley.....	281	03	06	101	07	53	4.06182	7.164

NORTH CONE, LINCOLN COUNTY, NEV. (Not occupied.)

The smaller and sharper of two cone-shaped hills about 7 miles northeast from Bristol Well and 8 miles northwest from Bristol Pass.

Signal and station mark: Apparent highest point.

[Latitude 38° 12' 39.5". Longitude 114° 40' 21.4"]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Wilson.....	261	53	06	82	03	25	4.39043	15.268
Parsnip.....	283	07	39	103	20	32	4.49544	19.444
Red Butte.....	306	13	28	126	26	45	4.59226	24.300
Smelter.....	325	30	58	145	39	25	4.54957	22.025

PAGE, LINCOLN COUNTY, NEV.

A three-point station to locate quarter corner.

On a cedar and nut-pine covered hill west of Page Creek and about half a mile north from the ranch of H. I. Olinghouse.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pole and flag.

Reference marks: (A) Chiseled cross in rock distant from station mark 5.8 feet and in true azimuth $231^{\circ} 10'$; (B) chiseled cross in rock distant from station mark 46 feet and in true azimuth $298^{\circ} 39'$. Quarter-corner description is as follows: T. 4 N., Rs. 67 and 68 E., Mount Diablo meridian, quarter corner to secs. 19 and 24 is distant from Page triangulation station mark 485 feet and in true azimuth $272^{\circ} 01' 20''$.

[Latitude $38^{\circ} 11' 34.72''$. Longitude $114^{\circ} 24' 42.47''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	12	04	01.58	192	01	26.32	4.4686326	18.280
Highland.....	23	48	31.85	203	42	22.83	4.5593252	22.525
Bristol.....	41	50	13.58	221	43	06.21	4.4035069	15.734
Wilson.....	195	17	28.58	15	18	06.33	3.7502913	3.496

PARSNIP, LINCOLN COUNTY, NEV.

On the rocky summit of Parsnip Mountain, Wilson Creek Range, in the northeast corner of T. 3 N., R. 68 E., Mount Diablo meridian. It is south from the head of Hultz Creek, on main divide between Patterson Wash and the Spring Valley drainage basin. It can be reached with animals by trail up the right fork of Hultz Creek (via the old Hultz ranch), then from the head of right fork follow ridge south to station.

Station mark: Bronze triangulation tablet cemented in rock.

Signal (U. S. Coast and Geodetic Survey station White Rock 1881 A): Rock cairn 10 feet high distant from station mark 8.2 feet and in true azimuth $335^{\circ} 12' 40''$. (A large shapely mound of stone was found on Parsnip Peak, the upper portion partly destroyed. This was rebuilt and used as the signal for Parsnip station.)

Reference marks: (A) Chiseled cross in rock distant from station mark 13.6 feet; (B) chiseled cross in rock distant from station mark 23 feet.

[Position of U. S. Geological Survey tablet: Latitude $38^{\circ} 08' 47.11''$; longitude $114^{\circ} 19' 30.21''$. Position of U. S. Coast and Geodetic Survey cairn: Latitude, $38^{\circ} 08' 47.03''$; longitude $114^{\circ} 19' 30.17''$.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Quarter Corner.....	13	29	51.33	193	28	44.97	4.0505959	6.982
Trestle.....	20	16	23.39	200	13	09.23	4.3461609	13.788
Smelter.....	25	25	06.39	205	20	41.62	4.3880550	15.184
Low Cone.....	26	54	31	206	52	31	4.01844	6.483
Ely.....	30	16	53.92	210	11	06.31	4.4364710	16.970
Highland.....	38	30	30.44	218	21	09.20	4.5533680	22.219
Eightmile.....	45	56	04.5	225	50	27.5	4.258202	11.260
Bristol.....	60	49	51.51	240	39	31.76	4.4481793	17.439
Jackrabbit.....	75	56	57.01	255	46	28.87	4.4075926	15.883
Bailey.....	94	08	34.86	273	54	17.00	4.5300638	21.078
Fairview Peak.....	101	15	32	281	02	11	4.50714	19.975
North Cone.....	103	20	32	283	07	39	4.49544	19.444
Wilson.....	150	02	16.61	329	59	41.27	4.0875365	7.601
Fogliani.....	298	24	16.10	118	30	13.58	4.2054444	9.972
Pioche (1883).....	306	24	08.71	126	34	16.27	4.4753260	18.564
Spring Valley.....	330	13	13.42	150	16	00.22	4.1229931	8.248
White Rock (1883 U. S. Coast and Geodetic Survey).....	335	12	40					a 8.2
Section Corner.....	350	35	43.97	170	36	39.83	4.1308522	8.398
Red Butte.....	356	22	38.85	176	23	04.47	4.2051928	9.967

a Feet.

PIOCHE, LINCOLN COUNTY, NEV.

A station of the U. S. Coast and Geodetic Survey on mountain locally known as Government Peak, about 2 miles southwest of State Line, Utah. About 33 miles by road and 22.5 miles direct in an easterly direction from the town of Pioche. The station is marked by a copper bolt leaded in a drill hole in solid bedrock. The station is nearly surrounded by a ring wall of rocks having an inner diameter of about 11 feet.

Four reference marks, each a drill hole in solid rock, are just outside the wall at the following distances and azimuths from the station: 2.52 meters, $214^{\circ} 28'$; 2.41 meters, $271^{\circ} 38'$; 2.72 meters, $344^{\circ} 46'$; and 2.35 meters, $92^{\circ} 30'$. Pioche latitude station, marked by a masonry pin, is 12.10 meters from the station in azimuth $135^{\circ} 57'$. The vertical circle station, nearly surrounded by a ring wall of rocks with an inner diameter of 8 feet, is 21.1 meters north-northwest from the station.

Station can easily be reached with animals from State Line, Utah.

[Latitude $37^{\circ} 59' 10.90''$. Longitude $114^{\circ} 03' 04.82''$]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Bennett.....	69	39	19	249	20	36	4.67818	29.616
Gray Cone.....	73	58	47	253	45	39	4.51298	20.245
Highland (U. S. Geological Survey).....	77	41	13.98	257	21	47.89	4.6760625	29.472
Ely.....	81	21	31.80	261	05	38.70	4.5829009	23.782
Smelter.....	83	00	11.47	262	45	40.96	4.5416715	21.628
Red Butte.....	94	26	45.09	274	17	04.07	4.3635618	14.352
Bristol.....	94	56	17.02	274	35	51.64	4.6877241	30.274
South Parsnip.....	119	18	38	299	09	45	4.38286	15.004
White Rock (1881 Coast and Geodetic Survey station).....	126	34	07.95	306	24	00.39	4.4752941	18.563
Parsnip.....	126	34	16.27	306	24	08.71	4.4753260	18.564
Wilson.....	133	22	44.10	313	10	00.82	4.6167366	25.709
Fogliani.....	135	38	38.65	315	34	28.40	4.1510832	8.709

PIOCHE SCHOOL, LINCOLN COUNTY, NEV. (Not occupied.)

Cupola in the concrete school building in the town of Pioche.

Signal and station mark: Center of cupola.

[Latitude $37^{\circ} 56' 02.30''$. Longitude $114^{\circ} 26' 59.78''$]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	89	32	23.35	269	31	02.93	3.4467459	1.738
Bristol.....	126	05	11.62	306	00	29.97	4.2242785	10.414
Spring Valley.....	235	28	35.71	55	35	58.82	4.3285283	13.299

PIOCHE TANK, LINCOLN COUNTY, NEV. (Not occupied.)

Steel railroad water tank near the station, town of Pioche.

Signal and station mark: Center of tank.

[Latitude $37^{\circ} 56' 41.88''$. Longitude $114^{\circ} 26' 19.42''$]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	71	48	58.8	251	47	23.5	3.600041	2.350
Bristol.....	120	53	36.2	300	40	29.6	4.227982	10.504
Red Hill.....	347	03	40.7	167	04	06.5	3.661127	2.848

QUARTER CORNER, LINCOLN COUNTY, NEV.

Three-point station (checked).

Station mark: Quarter-section corner stone.

Signal: None.

[Latitude 38° 02' 52.75". Longitude 114° 21' 17.76".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	41	20	47.60	221	16	06.60	4.2273010	10.487
Bristol.....	82	48	34.48	262	39	21.67	4.3435441	13.706
Parsnip.....	193	28	44.97	13	29	51.33	4.0505959	6.982
Spring Valley.....	273	40	46.27	93	44	39.17	3.9654022	5.738

RED BUTTE, LINCOLN COUNTY, NEV.

A three-point station on the west summit of a large red butte (longest axis northeast and southwest) northeast from town of Pioche. It is north of the Eagle Valley-Pioche road and about 1.5 miles south of the Spring Valley-Pioche road.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Cedar tree, brushy top. Cairn around base and set off center 1 foot in the same azimuth as Pioche triangulation station.

Reference marks: (A) Chiseled cross in rock distant from station mark 7.4 feet and in true azimuth 45° 28'; (B) chiseled cross in rock distant from station mark 7.7 feet and in true azimuth 257° 04'.

[Latitude 38° 00' 07.92". Longitude 114° 18' 48.67".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Red Hill.....	42	43	09.90	222	38	58.52	4.1678011	9.144
South Highland.....	34	47	07	214	38	10	4.57454	23.329
Gray Cone.....	37	23	23	217	19	55	4.13354	8.45
Highland.....	62	47	11.07	242	37	25.21	4.4179046	16.265
Ely.....	62	51	24.92	242	45	12.34	4.2206456	10.328
Bristol.....	95	13	13.23	275	02	28.89	4.4086835	15.923
Fairview Peak.....	124	24	57	304	10	42	4.59596	24.508
North Cone.....	126	26	45	306	13	28	4.59226	24.300
Parsnip.....	176	23	04.47	356	22	38.85	4.2051928	9.967
White Rock No. 2.....	184	23	05	4	23	32	4.13731	8.525
South Parsnip.....	190	57	42	10	58	31	4.00955	6.352
Spring Valley.....	231	12	06.58	51	14	28.5	3.8548731	4.448
Pioche.....	274	17	04.07	94	26	45.09	4.3635618	14.352
Little Summit.....	304	05	39	124	12	07	4.26964	11.561

RED HILL, LINCOLN COUNTY, NEV.

On summit of a red hill at south end of ridge of which Mount Ely is the north end. It is about 3 miles south from the town of Pioche and can be reached easily with animals from the Pioche-Panaca road.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pine tree, brushy top, cairn around base and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 11.2 feet and in true azimuth 12° 45'; (B) chiseled cross in rock distant from station mark 28.1 feet and in true azimuth 119° 14'.

[Latitude 37° 54' 17.01". Longitude 114° 25' 37.42'']

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
South Highland.....	29	39	30	209	34	44	4.36280	14.327
Bennett.....	56	43	18	236	38	26	4.14281	8.633
Highland.....	84	57	10.98	264	51	36.82	4.1252579	8.291
Ely.....	123	50	46.94	303	48	45.94	3.7626372	3.597
Smelter.....	162	12	45.66	342	12	07.31	3.6978051	3.099
Tank.....	167	04	06.54	347	03	40.72	3.6611270	2.848
White Rock.....	204	11	01	24	15	39	4.42915	16.692
Red Butte.....	222	38	58.52	42	43	09.90	4.1678011	9.144
Little Summit.....	269	03	53	89	14	32	4.40477	15.780
Gray Cone.....	269	43	03	89	43	46	3.23688	1.072
Bullionville.....	347	37	49.21	167	38	48.83	4.0451501	6.895

RIM, LINCOLN COUNTY, NEV. (Not occupied.)

A cone summit on the south end of a dark timbered hill on the rim of Salt Lake basin and about 20 miles southeast from the town of Pioche. It is about 6 miles south along the ridge from the point where the Modena-Rose Valley road crosses the summit.

Signal and station mark: Apparent highest point.

[Latitude 37° 48' 50.2". Longitude 114° 07' 32.9'']

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Highland.....	102	43	37	282	26	57	4.61058	25.348
Ely.....	113	06	57	292	53	50	4.53179	21.141
Spring Valley.....	156	45	55	336	41	20	4.44131	17.165

SECTION CORNER, LINCOLN COUNTY, NEV.

A three-point station, on range line. T. 2 N., Rs. 68 and 69 E. Mount Diablo meridian, corner to sections 13, 18, 19, and 24 (properly marked). From cedar bearing tree in place (and properly marked).

Station mark: Section-corner rock.

Signal: None.

[Latitude 38° 01' 34.61". Longitude 114° 17' 59.66'']

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Highland.....	59	06	54.93	238	56	38.75	4.4531548	17.721
Bristol.....	89	16	35.43	269	05	20.73	4.4267963	16.602
Parsnip.....	170	36	39.83	350	35	43.97	4.1308522	8.398
Spring Valley.....	247	32	28.76	67	34	17.85	3.6761674	2.948

SHARKS TOOTH, LINCOLN COUNTY, NEV. (Not occupied.)

A shark's tooth shaped butte on the Pahroc Range about 15 miles northwest from Bristol Well.

Signal and station mark: Apparent highest point.

[Latitude 38° 10' 06.9". Longitude 114° 54' 51.4'']

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Wilson.....	259	41	57	80	01	13	4.66481	28.718
Bailey.....	270	11	49	90	19	21	4.25125	11.082
Bristol.....	300	38	22	120	49	51	4.50036	19.666
Highland.....	315	48	52	136	01	18	4.62754	26.357

SMELTER, LINCOLN COUNTY, NEV.

Brick chimney of Pioche smelter.

Station mark and signal: Center of chimney.

[Latitude 37° 56' 51.01". Longitude 114° 26' 39.82".]

To station—	Azimuth.	Back azimuth.	Distance.	
			<i>Log. meters.</i>	<i>Miles.</i>
Highland.....	63 16 35.15	243 11 39.18	4.1197226	8.186
Ely.....	65 06 21.24	245 04 58.55	3.5588492	2.250
Stampede.....	103 49 20.74	283 44 20.19	4.0892356	7.631
Bristol.....	120 50 11.74	300 44 17.77	4.2131998	10.152
Jackrabbit.....	137 52 54.83	317 46 52.68	4.3296862	13.275
Fairview Peak.....	143 21 03	323 11 37	4.54784	21.937
North Cone.....	145 39 25	325 30 58	4.54957	22.025
Low Cone.....	204 14 06	24 16 31	4.14633	8.704
Parsnip.....	235 20 41.62	25 25 06.39	4.3880550	15.184
Spring Valley.....	238 13 26.38	58 20 37.27	4.3027112	12.476
Pioche.....	262 45 40.96	83 00 11.47	4.5416715	21.628
Red Hill.....	342 12 07.31	162 12 45.66	3.6978051	3.099

SOUTH HIGHLAND, LINCOLN COUNTY, NEV. (Not occupied.)

The north summit of that part of the Highland Range which lies to the south of Bennett Pass.

Signal and station mark: Apparent highest point.

[Latitude 37° 43' 26.9". Longitude 114° 33' 23.4".]

To station—	Azimuth.	Back azimuth.	Distance.	
			<i>Log. meters.</i>	<i>Miles.</i>
Ely.....	195 45 47	15 48 32	4.38344	15.024
Red Hill.....	209 34 44	29 39 50	4.36280	14.327
Red Butte.....	214 38 10	34 47 07	4.57454	23.329
Spring Valley.....	217 14 31	37 25 49	4.64800	27.628

SOUTH PARSNIP, LINCOLN COUNTY, NEV. (Not occupied.)

A summit on the Wilson Creek Range, similar in shape but smaller and lower than Parsnip Peak. It lies to the west of Spring Valley and is 8 miles southeast of Parsnip Peak.

Signal and station mark: Apparent highest point.

[Latitude 38° 05' 33.4". Longitude 114° 17' 28.9".]

To station—	Azimuth.	Back azimuth.	Distance.	
			<i>Log. meters.</i>	<i>Miles.</i>
Red Butte.....	10 58 32	190 57 42	4.00955	6.352
Ely.....	43 32 19	223 24 17	4.38238	14.987
Bristol.....	74 20 36	254 10 02	4.45521	17.724
Pioche.....	299 09 45	119 18 38	4.38286	15.017
Spring Valley.....	326 47 05	146 48 37	3.82184	4.123

SOUTH RIM, LINCOLN COUNTY, NEV. (Not occupied.)

A dark-timbered cone summit about 20 miles southeast from town of Pioche and about 7 miles south along ridge from the point where the Modena-Rose Valley road crosses the summit.

Signal and station mark: Apparent highest point.

470 TRIANGULATION AND PRIMARY TRAVERSE, 1913-1915.

[Latitude 37° 47' 54.4". Longitude 114° 08' 30.0'.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Highland.....	105	34	21	285	18	17	4.60052	24.707
Ely.....	116	45	13	296	32	42	4.52483	20.805
Spring Valley.....	160	40	17	340	36	18	4.45823	17.848

SPRING VALLEY, LINCOLN COUNTY, NEV.

On divide between Spring Valley and Patterson Wash. On the west point of a double summit. A red-rock, cedar-covered hill at the south end of the Wilson Creek Range. It is about 6 miles southwest from the Spring Valley ranch of Louis Fogliani; about 1.5 miles south from the Spring Valley-Pioche road and about 3 miles southwest of Danton Spring, from which it can be easily reached with animals.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pine tree, brushy top, set off center 9.3 feet and in true azimuth 56° 37'.

Reference marks: (A) Chiseled cross in rock distant from station mark 11.3 feet and in true azimuth 155° 26'; (B) chiseled cross in rock distant from station mark 20.4 feet and in true azimuth 278° 41'.

[Latitude 38° 02' 33.26". Longitude 114° 14' 59.85'.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
South Highland.....	37	25	49	217	14	31	4.64800	27.628
Gray Cone.....	42	10	58	222	05	07	4.31398	12.803
Bennett.....	49	55	27	229	44	03	4.55089	22.092
Red Butte.....	51	14	28.53	231	12	06.6	3.8548731	4.449
Pioche School.....	55	35	58.82	235	28	35.71	4.3285283	13.240
Smelter.....	58	20	37.27	238	13	26.38	4.3027112	12.476
Ely.....	59	23	37.53	239	15	03.95	4.3743199	14.712
Section Corner.....	67	34	17.85	247	32	28.76	3.6761674	2.948
Bristol.....	86	04	35.30	265	51	29.70	4.4937948	19.37
Quarter Corner.....	93	44	39.17	273	40	46.27	3.9654022	5.738
Low Cone.....	101	07	53	281	03	06	4.06182	7.164
South Parsnip.....	146	48	37	326	47	05	3.82184	4.123
Parnsip.....	150	16	00.22	330	13	13.42	4.1229931	8.248
White Rock.....	153	48	05	333	46	10	4.01068	6.368
Fogliani.....	242	43	42.29	62	46	52.68	3.9278139	5.262
Pioche.....	289	37	47.02	109	45	07.38	4.2577687	11.511
Little Summit.....	326	38	29	146	43	36	4.25193	11.090
Rim.....	336	41	20	156	45	55	4.44131	17.165
South Rim.....	340	36	17	160	40	17	4.45823	17.848

STAMPEDE, LINCOLN COUNTY, NEV. (Not occupied.)

On summit of rocky hill at south end of Bristol Range, about 1 mile northeast of Stampede Gap. Can be reached with animals from the gap.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pine tree, brushy top, cairn around base and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 11.5 feet, bears north; (B) chiseled cross in rock distant from station mark 11 feet, bears southeast.

[Latitude 37° 58' 25.90". Longitude 114° 34' 48.42'.]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Gap.....	61	44	40.9	241	44	14.6	3.073252	0.736
Bristol.....	158	47	00.25	338	46	06.98	3.7658856	3.624
Smelter.....	283	44	20.19	103	49	20.74	4.0892356	7.631
Ely.....	297	12	33.56	117	16	11.34	3.9878050	6.042
Highland.....	358	53	31.08	178	53	35.39	3.9474219	5.505

TRESTLE, LINCOLN COUNTY, NEV. (Not occupied.)

The railroad trestle over Patterson Wash about 3 miles northeast from the town of Pioche.

Signal and station mark: Center of trestle.

[Latitude 37° 57' 31.86". Longitude 114° 24' 45.17".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Bristol.....	112 56 21.8	292 49 17.2	4.261725	11.352
Jackrabbit.....	130 26 29.3	310 19 16.5	4.352131	13.979
Parsnip.....	200 13 09.2	20 16 23.4	4.346161	13.788

WEST LAVA, LINCOLN COUNTY, NEV. (Not occupied.)

The summit of a large hill on west side of and about 2,000 feet above Dry Lake Valley. It is about 20 miles west of Stampede Gap and lies south of and on the same ridge as Sharks Tooth.

Signal and station mark: Apparent highest point.

[Latitude 37° 57' 38.2". Longitude 114° 53' 53.5".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Bailey.....	215 30 39	35 37 33	4.45144	17.570
Wilson.....	234 34 53	54 53 31	4.73298	33.599
Jackrabbit.....	240 29 45	60 40 28	4.46656	18.193
Bristol.....	254 56 19	75 07 09	4.42712	16.614
Highland.....	284 36 51	104 48 39	4.46376	18.076

WHITE CLIFF, LINCOLN COUNTY, NEV. (Not occupied.)

A light-colored summit on the foothills west of the Bristol Range. It is on west side of road from Bristol Well to Stampede Gap and about 3 miles southwest of Bristol Well. The summit breaks off abruptly on the west side, but on the east the slope is easy climbing for animals.

Signal and station mark: Apparent highest point.

[Latitude 38° 03' 20.5". Longitude 114° 41' 27.0".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Bailey.....	172 00 43	351 59 59	4.09935	7.811
Jackrabbit.....	242 17 18	62 20 23	3.91569	5.117
Bristol.....	295 34 25	115 37 37	3.92620	5.242
Gap.....	317 58 34	138 02 14	4.11311	8.062
Highland.....	331 04 39	151 08 48	4.31156	12.732

WHITE ROCK NO. 2 (U. S. GEOLOGICAL SURVEY), LINCOLN COUNTY, NEV. (Not occupied.)

A sharp rocky summit on the Wilson Creek Range about 2 miles southeast from Parsnip Peak. It has large patches of light-colored rocks exposed on the south, east, and west slopes.

Signal and station mark: Apparent highest point.

[Latitude 38° 07' 31.6". Longitude 114° 18' 05.6".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Red Butte.....	4	23	32	184	23	06	4.13731	8.324
Red Hill.....	24	15	39	204	11	01	4.42915	16.692
Ely.....	36	41	32	216	34	52	4.42345	16.474
Bristol.....	66	52	50	246	41	38	4.46075	17.951
Spring Valley.....	333	46	10	153	48	05	4.01068	6.368

WILSON, LINCOLN COUNTY, NEV.

On the west summit of Mount Wilson near north end of Wilson Creek Range, in T. 4 N., R. 68 E. Mount Diablo meridian. It is about 4 miles north from the 7L ranch, owned by H. I. Olinghouse, on Page Creek and can be easily reached with animals from this ranch.

Station mark: Bronze triangulation tablet cemented in rock.

Signal: Pine tree, brushy top, braced with poles and centered over station mark.

Reference marks: (A) Chiseled cross in rock distant from station mark 22 feet and in true azimuth 350° 05'; (B) chiseled cross in rock distant from station mark 16.9 feet and in true azimuth 52° 31'.

[Latitude 38° 14' 30.76". Longitude 114° 23' 41.44".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Ely.....	12	35	42.43	192	32	29.43	4.5445520	21.772
Page.....	15	18	06.33	195	17	28.58	3.7502913	3.497
Eightmile.....	16	32	40.30	196	29	45.8	4.383987	15.043
Highland.....	22	40	39.09	202	33	52.16	4.6214328	25.989
Bristol.....	37	06	42.46	216	58	57.18	4.4837365	18.927
Jackrabbit.....	47	59	40.23	227	51	46.67	4.4002227	15.616
West Lava.....	54	53	31	234	34	53	4.73298	33.599
Black Cliff.....	72	34	48	252	08	39	4.81251	40.352
Bailey.....	73	33	26.35	253	21	42.98	4.4603818	17.936
Sharks Tooth.....	80	01	13	259	41	57	4.66481	28.718
North Cone.....	82	03	25	261	53	06	4.39043	15.268
Black Cone.....	85	52	09	265	33	50	4.63681	26.925
Fogliani.....	311	59	21.12	132	07	54.19	4.4350641	16.921
Pioche.....	313	10	00.82	133	22	44.10	4.6167366	25.709
Parsnip.....	329	59	41.27	150	02	16.61	4.0875365	7.601