ARIZONA AND NEW MEXICO.

TRIANGULATION STATIONS.

Mogollon, Nutrioso, and Reserve quadrangles.

APACHE AND GREENLEE COUNTIES, ARIZ.; SOCORRO COUNTY, N. MEX.

In the winter of 1913-14 C. B. Kendall extended triangulation control for the Reserve quadrangle, N. Mex., from stations Mogollon, Sunset, and Pleasant, described in Bulletins 201 and 551. He occupied five new stations and located five points by intersections all based on North American datum. Additional control work was done in the Patterson quadrangle in 1915 by Mr. Kendall, but final computations have not yet been made.

ESCADILLO, APACHE COUNTY, ARIZ.

On the highest point of the Escadillo Mountain, about 10 miles northwest of Luna and about 8 miles east of Nutrioso. Station can be easily found, as a Forest Service lookout tower, 40 feet high and very solid, was used to observe from. Can be best reached from the west by trail from Nutrioso, from south by Forest Service trail from Bush Valley, and from east by trail from the "E. L. C." ranch. The mountain is heavily timbered, but the tower affords a good view in all directions, except a small segment to the north. The station is on the west side of the mountain and on the second hill from the north end. A ranger's cabin is on the east slope in saddle between the two hills and about 0.5 mile northeast of station.

Signal: Center of tower over which was erected a flag.

Station mark: A bronze triangulation tablet in large bowlder set in ground directly under center pole of tower.

[Latitude 33° 56′ 50.81″.	Longitude 109° 0	7′ 16.99″.]
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To station —	Azimuth.	Back azimuth.	Distance.	
Sunset Fox Apache Tularosa. Box. Turner Peak Brushy Mountain Whiterocks	249 16 18.98 269 39 40 300 35 52.42 300 57 06.05 312 10 13	0 / " 186 05 33.56 69 30 17.81 89 56 26 120 54 03.64 121 07 18.99 132 12 48 163 08 08 171 40 06.81	Log. meters. 4. 9638596 4. 6139437 4. 66524 4. 7685262 4. 5183765 3. 98363 4. 58510 4. 6971698	Miles. 57. 175 25. 544 28. 747 36. 465 20. 499 5. 984 23. 903 30. 941

SUNSET, GREENLEE COUNTY, ARIZ.

Situated 6 miles northeast of town of Clifton, on mountain locally known as Sunset Mountain. Wagon road from Clifton to old slaughter corral on Limestone Wash about 2 miles above its mouth, thence good trail taking left hand (to north) to gap east of station, thence dim trail to station.

Station mark: A bronze triangulation tablet cemented in solid rock over which is built a cairn 6 feet in diameter and 7 feet high.

[Maricopa datum: Latitude 33° 07′ 15.81″; longitude 109° 13′ 40.22″. United States standard datum: Latitude 33° 07′ 21.16″; longitude 109° 13′ 37.30″.]

a Maricopa datum.

APACHE, SOCORRO COUNTY, N. MEX. (Not occupied; sighted from five stations.)

In T. 4 S., R. 17 W., near corner secs. 21, 22, 27, and 28, approximate. On the west end of the Apache Mountain, about 3 miles southeast of the Jewett ranger station and 7 miles northwest of the village of Aragon. Can be easily reached from the Jewett ranger station.

Station mark and signal: An oak tree 15 feet high carrying flag and around tree was built a quodripod of poles.

[Latitude 33° 56′ 55.88″. Longitude 108° 37′ 15.57″.]

To station—	Azimuth.	Back azimuth.	· Distar	100.
Whiterocks Box Escadillo Fox Tularosa	89 56 26 151 36 39	218 16 12 226 22 43 269 39 40 331 33 50 172 16 04	Log. meters. 4. 79960 4. 39613 4. 66524 4. 21161 4. 48336	Miles. 39. 170 15. 470 28. 747 10. 115 18. 911

BEARWALLOW, SOCORRO COUNTY, N. MEX. (Not occupied; sighted from four stations.)

On Bearwallow Mountain of the Mogollon Range, about $8\frac{1}{2}$ miles northeast of the town of Mogollon, at the head of Copper Creek on the west and Gilita Creek on the east.

Signal and station mark: Center of United States Forest Service lookout tower, about 40 feet high.

[Latitude 33° 26′ 58.60″. Longitude 108° 40′ 06.18″.]

To station—	Azimuth.	Back azimuth.	Distance.
Pleasant. Whiterocks. Tularosa. Mogollon.	56 48 38 99 48 10 198 37 06 340 36 52	279 35 45 18 40 08	Log. meters. Miles. 4. 47816 18. 686 4. 54834 21. 963 4. 42536 16. 547 4. 31965 12. 972

b United States standard datum.

BOX, SOCORRO COUNTY, N. MEX.

On the east end of the San Francisco Range, locally known as the South Mountain. About 8 miles north and 3 miles west of Reserve. It is in the northwest part of T. 6 S., R. 19 W., about 3 miles southeast of the junction of Rio San Francisco and the S. A. Creek, and 1 mile northeast along ridge from a point where trail from the S. A. ranch to Reserve crosses summit. Station is about 2 miles southwest of a point where the Rio San Francisco goes into a canyon locally known as "The Box," from which station derives its name.

Signal: Flag in top of pine tree, 11.4 feet distant, true azimuth from station mark 156° 54'.

Station mark: A bronze triangulation tablet set in solid rock.

[Latitude 33° 47′ 38.75". Longitude 108° 48′ 57.20".]

To station—	Azimuth.	Back azimuth.	Distance.	,
Whiterocks Escadillo Apache Tularosa	33 15 11 08 121 07 18 99 226 22 43 300 18 50 28	0 / // 213 07 37 37 300 57 06 05 46 29 14 120 26 48 54	4. 5859557 4. 5183765 4. 39613	iles. 23. 950 20. 499 15. 470 15. 967

BRUSHY MOUNTAIN, SOCORRO COUNTY, N. MEX. (Not occupied; sighted from four stations.)

In the southwest part of T. 8 S., R. 21 W., on the west side of the Pueblo Creek, about 7 miles north and 2 miles east of Whiterocks Mountain.

Signal and station mark: Highest point of mountain.

[Latitude 33° 36′ 56.21". Longitude 109° 00′ 02.51".]

To station—	Azimuth.	Back azimuth.	Distance.
Whiterocks	17 39 26	97 38 03	Log. meters. Miles. 4.11618 8.120 4.58510 23.903 4.60118 24.804 4.54866 21.979
Escadillo	163 08 08	343 04 07	
Tularosa	260 04 26	80 18 32	
Pleasant	350 34 56	170 36 59	

FOX, SOCORRO COUNTY, N. MEX.

In sec. 4 (approximate), T. 3 S., R. 18 W., on the highest point of the "Fox" Mountain and is a high round bare peak overlooking the country for miles in every direction. Several canyons head against the peak, viz, Perry Lawson southeast, American northwest, and Des Meter northeast. It is about 3 miles west of the Jewett Gap and 10 miles northwest of the Jewett ranger station and N. H. ranch. It is an excellent natural triangulation station, as it overlooks the American, Salt Lake, and Agua Frio valleys and the Johnson Basin. It is easily ascended by following Forest Service trail from Jewett Gap.

Signal: Rock cairn 4 feet high around which was built a quodripod of poles. A bushy pine was set over center.

Station mark: A bronze triangulation tablet set in 6 by 8 by 24 inch stone buried in ground over which was built a rock cairn 4 feet high.

[Latitude 34° 04' 40.51". Longitude 108° 42' 17.41".]

To station—	Azimuth.	Back azimuth.	Distanc	e.
Whiterocks Turner Peak Escadillo Apache Tularosa	26 17 06. 92 56 21 22 69 30 17. 81 331 33 50 345 02 13. 01	206 05 49.17 236 09 59 249 16 18.98 151 36 39 165 06 30.19	Log. meters. 4. 8514387 4. 57648 4. 6139437 4. 21161 4. 6630428	Miles. 44. 135 23. 434 25. 544 10. 115 28. 602

GROUSE, SOCORRO COUNTY, N. MEX. (Not occupied; sighted from four stations.)

On the highest point of Grouse Mountain of the Mogollon Range, in T. 11 S., R. 18 W., near line between secs. 20 and 21, approximate. Station is a quarter of a mile north of trail leading from the Tennessee Cabin to Apache Spring at a point 3 miles east of the Tennessee Cabin.

Station mark and signal: A 35-foot pine tree trimmed and carrying flags and targets. Space around tree was cleared.

Note.—This station was built to be occupied later and a triangulation tablet was set in an 8 by 8 by 30 inch stone over which a small rock cairn was built, but as snow prevented occupying it, no angles or distance was taken from it to the signal tree. The tablet is about 30 feet northeast of tree.

[Latitude 33° 19' 43.68". Longitude 108° 42' 59.01".]

To station—	Azimuth.	Back azimuth.	Distance.
Sunset	64 28 14 81 33 38 122 33 29 299 08 57	244 11 34 261 26 19 302 22 41 119 12 59	Log. meters. Miles. 4.72275 32. 818 4.32053 12. 998 4.55660 22. 385 4.11535 8. 104

MOGOLLON, SOCORRO COUNTY, N. MEX.

Situated on highest peak of the Mogollon Range, locally known as Baldy, about 10 miles north of Farquar's ranch on Mogollon Creek. Bare on south and southwest slopes; east and north slopes timbered.

Station mark: A bronze triangulation tablet cemented in triangular stone about 18 by 14 by 14 inches, set 10 inches in the ground. Underneath stone on center a "30 caliber Government" cartridge shell is driven in ground. A cairn 4 feet high was built over mark.

[Maricopa datum: Latitude 33° 16′ 11.72″; longitude 108° 35′ 41.44″ U. S. standard datum: Latitude 33° 16′ 17.27″; longitude 108° 35′ 38.88″.]

To station—	Azimuth.	Back azimuth.	Distance.	
Cliff a Line b Line a Sunset b Sunset a Jordan a Chalk a Copperas a Black a Canyon b Canyon a Grouse a Whiterocks a Bearwallow a Tularosa a Tularosa a	2 44 28. 60 39 02 56. 22 39 02 28. 27 74 32 48. 81 74 32 20. 25 250 49 43. 88 293 14 02. 62 295 42 26. 24 314 44 05. 77 334 03 49. 29 119 12 59 121 43 12. 63 160 39 20 182 03 42. 39	0 , , , , , , , , , , , , , , , , , , ,	Log. meters. 4. 5353289 4. 7769400 4. 7768804 4. 7873978 4. 5584409 4. 3480791 4. 6088055 4. 7551806 4. 4502461 4. 4501926 4. 11535 4. 6908202 4. 31965 4. 6532044	Miles. 21. 315 37. 173 38. 079 22. 480 13. 849 25. 244 35. 361 17. 520 8. 104 30. 491 12. 972 27. 961

PLEASANT, SOCORRO COUNTY. N. MEX.

Situated on highest point of Brushy Mountain about 3 miles due west from Pleasanton. Brush and timber cleared from summit in 1901. Easily ascended from San Francisco River at Pleasanton via lane to west side of river and thence by cattle trail to top of ridge, thence northward to station.

Station mark: A bronze triangulation tablet cemented in bowlder.

[Maricopa datum: Latitude 33° 17′ 57.90″; longitude 108° 56′ 21.62″. U. S. standard datum: Latitude 33° 18′ 03.30″; longitude 108° 56′ 18.82″.]

To station—	Azimuth.	Back azimuth.	Distance.	
Sunset a Sunset b Canyon a Canyon b Cliff b Bullard a Bullard b Whiterocks a Brushy Mountain a Tularosa a Bearwallow a Grouse a Grouse a Grouse a Sunse a Grouse a Canyon b Cliff b Canyon b Canyon b Cliff b Canyon b Canyon b Cliff b Canyon	302 39 34.51 320 48 18.53 330 10 35.08 330 10 09.78 156 33 10.29 170 36 59	0. / // 233 35 23. 45 233 35 03. 06 122 55 39. 16 122 55 13. 05 140 59 01. 76 150 23 16. 03 336 29 42. 64 350 34 56 38 58 06. 02 56 48 81 33 38	Log. meters. 4. 5235914 4. 5235652 4. 7232391 4. 7231782 4. 6845221 4. 8784318 4. 8783710 4. 3886081 4. 54866 4. 7289620 4. 47816 4. 32053	Miles. 20. 745 32. 850 30. 052 46. 959 15. 204 21. 979 33. 290 18. 686 12. 998

a Maricopa datum.

TULAROSA (EAGLE PEAK), SOCORRO COUNTY, N. MEX.

Station is on the highest peak of the Tularosa Mountains, locally known as Eagle Peak, under which name it was occupied by the Wheeler Survey. It is in T. 7 S., R. 17 W., sec. 22, approximate, and is at the head of Long Canyon on the north and Cox Canyon on the south. They both head in a saddle about one-fourth mile west of the station. The Forest Service trail from Tularosa ranger station across mountains to the Nigrito ranger station crosses through the saddle. There is a ranger cabin in saddle from which a trail and telephone line leads east up hill to station. Station is about 11 miles east of Reserve and 15 miles south and 4 miles west of Aragon on the Magdalena public road.

Signal: A pole set over tablet and carrying flags; around the pole was erected a quadripod with white cloth around top, and between this and the flag were placed pine boughs. Three targets of red cloth were placed on the sides of quadripod north, south, and west.

Station mark: A bronze triangulation tablet in a 6 by 8 by 24 inch stone set in ground over which is erected a rock cairn 5 feet high.

[Latitude 33° 40′ 36.94″. Longitude 108° 34′ 36.04″.]

To station —	Azimuth.	Back azimuth.	Distance.	
Mogollon. Bearwallow Pleasant Sunset Whiterocks Brushy Mountain Box. Escadillo Fox Apache.	° ' '' 2 04 17.05 18 40 08 38 59 06.02 44 43 04.81 66 09 32.71 80 18 32 120 26 48.54 120 54 03.64 165 06 30.19 172 16 04	° ' ',' 182 03 42.39 198 37 06 218 47 07.16 224 21 35.98 245 54 03.26 260 04 26 300 18 50.28 300 35 52.42 345 02 13.01 352 14 35	Log. meters. 4. 6532044 4. 42536 4. 7289620 4. 9358163 4. 6758515 4. 60118 4. 4098781 4. 7685262 4. 6630428 4. 48336	Miles. 27. 961 16. 547 33. 290 57. 601 29. 458 24. 804 15. 967 36. 465 28. 602 18. 911

b U.S. standard datum.

TURNER PEAK, SOCORRO COUNTY, N. MEX. (Not occupied; sighted from three stations.)

Near the northwest corner of T. 5 S., R. 21 W., about 9 miles northwest of the town of Luna, and about 6 miles southeast of the Forest Service lookout tower on Escadillo Mountain.

Signal and station mark: The highest point of a sharp peak locally known as Turner Peak.

[Latitude 33° 53′ 20.83″. Longitude 109° 02′ 39.36″.]

To station —	Azimuth.	Back azimuth.	Distance.
Escadillo	32 12 48 236 09 59 359 53 05	312 10 13 56 21 22 179 53 07	Log. meters. 3. 98363 5. 984 4. 57648 23. 434 4. 63140 26. 593

WHITEROCKS, SOCORRO COUNTY, N. MEX.

On the highest and most southerly of the three peaks of Whiterocks Mountain, which rises abruptly from the mesa west of the junction of Pueblo Creek with the Rio San Francisco and is about 9 miles northwest of same and 12 miles northwest of Alma. The peak is timbered, but was cleared on the east slope and affords an excellent view for about 90° both sides of due east. Station can be reached by climbing the mountain from almost any direction. Water can be found at the Grey Bull Spring in the next canyon north of the white rocks on the east slope of the third peak north and is about 1½ miles northeast of station. An old rock cairn was found, and on tearing it down to place tablet a tin box was found in which was a paper upon which was written in pencil the following: "Explorations west of the 100th meridian, triangulation station XXX. Occupied Oct. 24th, 1873, Gilbert Thompson, Topographer."

Signal: Flag and targets on oak tree 15 feet high, distance 9 feet, true azimuth 59° 15′ from station mark; tree was braced by a pole quadripod.

Arizona-New Mexico State line crosses the mountain less than 0.25 mile west of station.

[Latitude 33° 30′ 11.79". Longitude 109° 02′ 36.02".]

To station —	Azimuth.	Back azimuth.	Distance.	
Sunset. Escadillo Turner Peak Brushy Mountain Fox. Box Apache. Tularosa. Bearwallow Mogollon Grouse.	° , ,, 22 06 12.80 171 40 06.81 179 53 07 197 38 03 206 05 49.17 213 07 37.37 218 16 12 245 54 03.26 279 35 45 301 28 22.73 302 22 41 336 29 42.64	0 / // 202 00 09.62 351 37 30.81 359 53 05 17 39 26 26 17 06.92 33 15 11.08 38 30 16 66 09 32.71 99 48 10 121 43 12.63 122 33 29 156 33 29 10.29	Log. meters. 4. 6585718 4. 6971698 4. 63140 4. 11618 4. 8514387 4. 5859557 4. 79960 4. 6788515 4. 54834 4. 6908202 4. 35660 4. 3886081	Miles. 28, 309 30, 941 26, 593 8, 120 44, 135 23, 950 39, 170 29, 458 21, 963 30, 491 22, 3855 15, 204

NEW MEXICO.

TRIANGULATION STATIONS.

Koehler, Mount Laughlin, and Ute Creek quadrangles.

COLFAX COUNTY.

In 1914 J. R. Ellis extended triangulation west from stations Eagletail and Mount Laughlin, described in Bulletin 551. Eight new stations were occupied and five points were located by intersections; all on approximate North American datum. Azimuth observations were made at Maxwell station; the observed azimuth was used in computations of positions west of the line French-Koehler.

BARTLETT, COLFAX COUNTY, N. MEX.

Situated in northwest part of Colfax County on a small peak about 2 miles northeast of Vermejo Park post office on land owned by Wm. H. Bartlett. The signal is visible from the above post office.

Signal: A small topped pine tree centered over the tablet with a quadripod built around it and covered with white cloth.

Station mark: A bronze tablet cemented in solid rock.

[Latitude 36° 54′ 30.55". Longitude 104° 57′ 52.20".]

To station—	Azimuth.	Back azimuth.	Distar	100.
Sharp peak to southwest Sharp peak to west Ridge Roek Koehler Colfax Dawson	70 12 22 250 44 07 275 18 37.41 303 49 04.02 324 03 18	0 / // 215 33 53 250 03 05 70 47 40 95 21 58 37 123 58 32 57 144 12 12 168 51 17.58	Log. meters. 4. 57897 4. 38845 3. 96815 3. 9201820 4. 4519159 4. 57639 4. 3660890	Miles. 23. 568 15. 198 5. 774 5. 170 17. 590 23. 428 14. 436

CHASE, COLFAX COUNTY, N. MEX.

On partly bare knoll at east end of ridge on Mrs. Mary Springer's land and about 3 miles southwest of Chase ranch.

Signal: A pine tree 15 inches in diameter stripped to within 10 feet of top. Signal is 2.4 feet northwest of station mark.

Station mark: A bronze tablet set in solid rock at foot of pine tree.

[Latitude 36° 32' 22.79". Longitude 104° 58' 11.10".]

To station —	Azimuth.	Back azimuth.	Distance.	
Knob. Dawson. Koehler Colfax. French.	18 33 02 195 19 46.21 223 37 03.12 245 16 48 279 14 27.53	198 31 40 15 21 45.69 43 46 40.49 65 25 50 99 22 44.47	Log. meters. 4. 03112 6. 675 4. 2742944 11. 685 4. 5412396 21. 607 4. 39588 15. 461 4. 3232646 13. 080	

COLFAX, COLFAX COUNTY, N. MEX. (Not occupied.)

On the south end of a prominent bluff about 3 miles northeast of Maxwell station. Signal and station mark: A 6-foot rock cairn centered over a bronze tablet set in solid rock.

[Latitude 36° 37' 59.39". Longitude 104° 43' 01.37".]

To station—	Azimuth.	Back azimuth.	Distance.	
Chase Dawson Bartlett Eagletail Maxwell	144 12 12	245 16 48 293 42 46 324 03 18 78 47 51 118 31 10	Log. meters. 4. 39588 4. 28445 4. 57639 4. 44043 4. 32204	Miles. 15. 461 11. 962 23. 428 17. 131 13. 043

DAWSON, COLFAX COUNTY, N. MEX.

On the southwest end of a wooded ridge on the divide between Von Bremer Creek and Cerososo Arroyo, about 6 miles west and 2 miles north of Dawson village. The ridge is in the shape of a horseshoe and the station stands on the southwest part of ridge.

Signal: A 12-inch pine tree trimmed to within about 10 feet of the top, which stands 2.7 feet southwest of the station mark.

Station mark: A bronze tablet set in sandstone 20 by 20 by 5 inches, which projects 3 inches above surface of ground.

To station—	Azimuth.	Back azimuth.	Dista	nce.
Chase	5 / // 15 21 45.69 16 32 01 73 18 28 168 51 17.58 189 46 37.68 249 43 29.33 293 42 46 323 44 00.97	0 , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Log. meters. 4. 2742944 4. 47039 4. 44434 4. 3660890 4. 3491612 4. 3069900 4. 28445 4. 4264875	Miles. 11. 685 18. 354 17. 286 14. 436 13. 884 12. 599 11. 962 16. 590

EAGLETAIL, COLFAX COUNTY, N. MEX.

Station is situated 16 miles a little south of east from Raton, on the highest point of Eagletail Mountain—a very prominent position. It is on the farther south of the two small peaks on the summit. Considerable timber was cut around this station.

Station mark: An aluminum tablet set in solid rock over which was erected a tripod of poles 12 feet high.

[Latitude 36° 40′ 54.49″. Longitude 104° 24′ 52.66″.]

To station	Azimuth.	Back azimuth.	Distar	ice.
Goat Hill. Yankee Bellisle Thomson Laughlin Maxwell French Colfax Koehler Red River Highest peak of group	216 19 28.73 238 58 36.16 286 54 22.69 29 12 53.99 56 32 43.57 78 47 51 110 11 33.24 150 43 39.38	0 / // 16 45 58.20 36 27 35.26 59 07 05.77 107 02 35.48 209 09 27.53 236 21 09.96 290 01 16.67 330 40 33.26 160 21 33	Log. meters. 4. 39522 4. 4257508 4. 5305900 4. 3917615 4. 3311658 4. 2465241 4. 5403411 4. 44043 4. 4355593 4. 1978934 4. 17414	Miles. 15. 437 16. 562 21. 083 15. 315 13. 320 10. 962 21. 512 17. 131 16. 931 9. 800 9. 279

FRENCH, COLFAX COUNTY, N. MEX.

On the east point of a flat-topped butte, the northernmost of a group of three, on land owned by Capt. French, and is about 7 miles due south of Colfax station.

Signal: A small (topped) piñon tree centered over tablet and supported by four poles. White cloth was tacked to the four faces.

Station mark: A bronze tablet in top of sandstone 5 by 12 by 26 inches, which projects 5 inches above surface of ground 15 feet east of point of butte.

To station—	Azimuth.			Back azimuth.		Distance.		
Knob Chase Dawson Koehler Koehler, observed azimuth Red River Eagletail Maxwell	74 99 143 186 186 212 236	50 33 33 39 21	48 44. 47 19. 43 31. 83 10. 62 44. 73 09. 96 32. 14	254 279 323 6 6 32 56	16 14 44 34 34 48 32	10 27.53 00.97 50.80 29.52 13.61 43.57 38.58	Log. meters. 4. 40025 4. 3232646 4. 4264875 4. 4584027 4. 5927348 4. 5403411 4. 3155726	Miles. 15. 618 13. 080 16. 590 17. 855 24. 327 21. 562 12. 851

HIGHEST PEAK IN GROUP EAST OF MAXWELL, COLFAX COUNTY, N. MEX. (Not occupied.)

The highest point of the highest peak of a group of peaks situated about 9 miles due east of Maxwell City.

Station mark: A rock or small tree on the highest part of peak.

[Latitude 36° 33′ 18.28′. Longitude 104° 21′ 30.50′.]

To station—	Azimuth.	Back azimuth.	Distance.
Maxwell	84 26 20	264 20 54	Log. meters. Miles. 4. 13682 8. 514 4. 17414 9. 279 4. 23930 10. 780
Eagletail	160 21 33	340 19 32	
Laughlin	243 13 07	63 19 16	

KNOB, COLFAX COUNTY, N. MEX. (Not occupied.)

Station mark: A large sharp-topped rock projecting from a spur of the Snow Range Mountains.

[Latitude 36° 26′ 52.34". Longitude 105° 00′ 28.33".]

To station—	Azimuth.	Back azimuth.	Distance.
Dawson.	96 28 41	0 / // 16 32 01 18 33 02 74 25 48	Log. meters. 4.47039 18.354
Chase.	198 31 40		4.03112 6.675
French	254 16 10		4.40025 15.618

KOEHLER, COLFAX COUNTY, N. MEX.

About 6 miles northwest of Koehler village, at the highest point of the intersection of three ridges, which forms a T with the stem pointing north. The hill is timbered, but lines were opened from the station to the surrounding stations.

Signal: A 40-foot pole carrying cross arms to which black cloth targets were attached. The pole is wired and nailed to a stripped tree. Signal is 9.5 feet northwest of station mark.

Station mark: A bronze tablet set in top of sandstone 26 by 10 by 5 inches projecting 4 inches above surface of ground.

Eagletail.....

To station-Azimuth. Back azimuth. Distance. Miles. Log. meters. 6 34 50.80 6 34 29.52 186 33 31.83 French... 4.4584027 17.855 186 33 10.62 223 37 03.12 French, observed azimuth . . 43 46 40.49 4.5412396 21.607 69 51 08.01 249 43 29.23 4.3069900 12.599 123 58 32.57 303 49 04.02 17.590 4.4519159 Rock.....Red River..... 134 41 12.16 256 07 58.91 314 35 04.29 76 15 10.08 4. 3297740 4. 2644453 13.278

[Latitude 36° 45′ 58.38". Longitude 104° 42′ 03.91".]

LAUGHLIN, COLFAX COUNTY, N. MEX.

290 01 16.67

110 11 33.24

11,423

16.931

4, 4353393

A bare, grassy mountain about 18 miles east of Maxwell, at the head of Tinaja Creek, in T. 28 N., R. 26 E. The station is on highest point of the mountain and about 2 miles east of Gus Brackett's ranch. This mountain is known by some as Laughlins Peak, but by more as Old Baldy.

Station mark: An aluminum tablet in loose stone 1 foot underground, over which is a stone with drill hone 4 inches underground. A pile of stone above ground marks the site.

To station—	Azimuth.	Back azimuth.	Distance.	
Eagletail. Goat Hill Yankee Thomson Highest peak of group. Maxwell Red River Peak	0 / // 107 02 35.48 143 18 08 158 07 03.13 181 59 03.02 63 19 16 72 40 13.99 125 26 59.46	286 54 22.69 338 01 54.36 1 59 18.84 243 13 07 252 28 35.68 305 15 39.95	Log. meters. 4. 3311658 4. 58717 4. 5347908 4. 2775297 4. 23930 4. 4877057 4. 5389034	Miles. 13. 32/ 24. 01' 21. 28/ 11. 77/ 10. 78/ 18. 97/ 21. 49/

[Latitude 36° 37′ 31.45". Longitude 104° 11′ 07.18".]

MAXWELL, COLFAX COUNTY, N. MEX.

On the highest part of a low hill 1.5 miles due east of the town of Maxwell. Maxwell-Chico wagon road runs south of the station, about 0.25 mile distant. muth observations were made on Polaris October 13, 1914.

Signal: A 12-foot sawed lumber tripod covered with white cloth on the upper portion of the 3 sides. Centered over station mark.

Station mark: A bronze tablet set in the top of a concrete post 7 by 9 by 40 inches, which projects 6 inches above surface of ground.

To station—	Azimuth.	Back azimuth.	Distance.	
French. Colfax Red River. Eagletail Laughlin. Highest peak of group.	79 32 38, 58 118 31 10 181 42 26, 83 209 09 27, 53 252 28 35, 68 264 20 54	0 / // 259 24 32.14 1 42 47.77 29 12 53.99 72 40 13.99 84 26 20	Log. meters. 4. 3155726 4. 32204 4. 4649220 4. 2465241 4. 4847057 4. 13682	Miles. 12, 851 13, 043 18, 125 10, 962 18, 970 8, 514

[Latitude 36° 32' 34.84". Longitude 104° 30' 38.83".]

RED RIVER PEAK, COLFAX COUNTY, N. MEX. (Not occupied.)

Station is on peak about 10 miles southwest of Raton and 3 miles southwest of Otero, on the Atchison, Topeka & Santa Fe Railway.

Station mark: An aluminum tablet set in stone placed in ground, over which was erected a tripod of poles 6 feet high.

[Latitude 36° 48′ 20.71". Longitude 104° 30′ 03.77."]

To station—	Azimuth.	Azimuth. Back azimuth.		Distance.	
Barela Yankee Thomson Maxwell French Koehler Laughlin Eagletail	1 42 47. 77 32 48 13. 61 76 15 10. 08 305 15 39. 95	43 00 16 52 37 20 92 14 25 181 42 26. 83 212 39 44. 73 256 07 58. 91 125 26 59. 46 150 43 39. 38	Log. meters. 4, 50719 4, 28701 4, 46019 4, 4649220 4, 5927348 4, 2644453 4, 5389034 4, 1978934	Miles. 19. 977 12. 033 17. 928 18. 125 24. 327 11. 423 21. 491 9. 800	

RIDGE, COLFAX COUNTY, N. MEX. (Not occupied; sighted from two stations only; no check on this position.)

[Latitude 36° 56′ 09.86″. Longitude 104° 51′ 57.70″.]

To station—	Azimuth.	Back azimuth.	Distance.	
Rock	° ' '' 7 17 47 70 47 40	0 / // 187 17 35 250 44 07	Log. meters. 3. 58737 2. 403 3. 96815 5. 774	

ROCK, COLFAX COUNTY, N. MEX.

On the highest part of ridge, about 8 miles east of Vermejo Park post office. It is near the divide between Red River and Rio Vermejo. Road Canyon heads about 3 miles north of the station. A wagon road leaves the Rio Vermejo valley about 3 miles southeast of Vermejo Park post office and follows up Road Canyon and over the divide to Bartlett's horse ranch, thence down Longs Canyon.

Signal: A 12-foot tripod covered with white cloth, centered over tablet.

Station mark: A bronze tablet cemented in solid rock on small knoll at highest point of ridge.

[Latitude 36° 54′ 05.44". Longitude 104° 52′ 17.54".]

To station—	Azimuth.	Back azimuth.	Distance.	
Dawson Sharp peak to southwest Sharp peak to west Bartlett Ridge Koehler	9 48 09.49 45 26 05 76 33 31 95 21 58.37 187 17 35 314 35 04.29	189 46 37.68 225 13 49 206 20 53 275 18 37.41 7 17 47 134 41 12.16	Log. meters. 4. 3491612 4. 63020 4. 50771 3. 9201820 3. 58737 4. 3297740	Miles. 13. 884 26. 519 20. 001 5. 170 2. 403 13. 278

SHARP PEAK TO SOUTHWEST, COLFAX COUNTY, N. MEX. (Not occupied.)

A sharp peak in the Snow Range, about 22 miles west of Dawson village. From French and Maxwell triangulation stations a cairn was visible, and was sighted. Station mark: A cairn.

[Latitude 36° 37′ 50.57". Longitude 105° 12′ 43.31".]

To station—	Azimuth.	Back azimuth.	Distance.	
Bartlett	215 33 53	35 42 46	Log. meters. 4.57897 23.568	
	225 13 49	45 26 05	4.63020 26.519	
	253 07 47	73 18 28	4.44434 17.286	

SHARP PEAK TO WEST, COLFAX COUNTY, N. MEX. (Not occupied; sighted from only two stations; no check on this position.)

A high summit in the Snow Range, probably Castilla Peak. Station mark: A cairn.

[Latitude 36° 50′ 00.84". Longitude 105° 13′ 20.96".]

To station—	Azimuth.	Back azimuth.	Distance.	
Bartlett	250 03 05 256 20 53	70 12 22 76 33 31	4. 38845 15	iles. 5. 198 5. 001