

1922 Book N. 1922

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FIELD NOTES

OF THE SURVEY OF THE

Retracement and Resurvey of the
3rd Standard Parallel North,
through Range 10 East
and

Retracement, T. Rds. sec. 21 on T. Rd. of
R. No. 10 North, R. No. 11 East.

Retracement of that Rd. of R. No.
7, R. 10 E, bet. sec. 1 and 6;
and 12; and 14 and 18

1922

Of the Gilg Salt River Meridian,

State of Arizona

AS SURVEYED BY

Chas. J. Campbell, United States Deputy Surveyor,
joint

Under his Contract No. 116, dated April 18, 1904, 189

Survey commenced August 16, 1904, 189

Survey completed August 18, 1904, 189

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NAMES AND DUTIES OF ASSISTANTS.

Oliver D. Ross, chairman

Donald Stevenson

C. H. Gault

Virgil D. Earl

Chas. W. Brown, organ

Paul Gilstrap, flagman

I, Charles L. Campbell, D. S.,
do solemnly swear, that,
in order to complete surveys
under joint Contract No. 116, Dated
April 15, 1904 in accordance with
the requirements of the Manual and
Special Instructions, the following
was necessary:

- Recovery of the red standard
Parallel North, through Range 10 E;
- Retacement of T. 6 N. of section 21,
T. 12 N. R. 11 E, Black Mesa River Rdy;
- Retacement of West Rdy. of
T. 12 N. R. 10 E, bet. sec. 1 and 6; road
12; 13 and 18.

signed in Charles L. Campbell
Subscribed by said Chas. L. Campbell
Campbell and sworn to
before me this 21st
day of Aug, 1904.

signed
J. M. Johnston

Clerk District Court in and for County of Coconino, Arizona

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LD
BOOK 1922

PRELIMINARY OATHS OF ASSISTANTS.

WE, C. H. Goetz and Oliver B. Paser
Virgil D. Earl and Donald Stevenson
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of 3rd Stand. P. N. through R. 10 E.; retracement of S. Rdy. sec. 31
S. Rdy. of T. 12 N., R. 11 E.; retracement of S. Rdy. of T. 12 N., R. 10 E.

Oliver B. Paser C. H. Goetz, Chainman.
Donald Stevenson Virgil D. Earl, Chainman.

Subscribed and sworn to before me this 16th
day of August, 1894



Chas. L. Campbell
of T. Dept. Surveyor

WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



WE, Chas. M. Brown and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of 3rd Stand. P. N. through R. 10 E.; retracement of S. Rdy. sec. 31
S. Rdy. of T. 12 N., R. 11 E.; retracement of S. Rdy. of T. 12 N., R. 10 E.

Chas. M. Brown, Axman.
_____, Axman.

Subscribed and sworn to before me this 16th
day of August, 1904



Chas. L. Campbell
of T. Dept. Surveyor

I, Orval Gilstrap, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of 3rd Stand. P. N. through R. 10 E.; retracement of S. Rdy. sec. 31
S. Rdy. of T. 12 N., R. 11 E.; and S. Rdy. of T. 12 N., R. 10 E.

Orval C. Gilstrap, Flagman.

Subscribed and sworn to before me this 16th
day of August, 1904



Chas. L. Campbell
of T. Dept. Surveyor

Resurvey commenced on August 16, 1904 and executed with an improved light mountain transit No. 50; with color attachment, made by Frank L. O. Gurley of Pease, N. H. The horizontal limb is provided with two double verniers placed opposite to each other, reading to seconds of arc; which is also the least count of the verniers of the lat. circle and declination arc.

The instrument was examined, tested on the true meridian at Spokane, Wash., by Geo. D. Campbell, Civil Engineer, found correct and was approved on June 1, 1904.

I examined the adjustments of the transit and find no level or collimation error; then to test the color apparatus by comparing its indications resulting from color observations made during p.m. and a.m. hours with a true meridian, determined by observations on Polaris.

I proceed as follows:
At the standard cor. of Twp. 10 N., R. 10 and 11 E.
Latitude $40^{\circ} 25' N.$ longitude $111^{\circ} 10' - 48'' W.$ I set off $0^{\circ} 25' N.$ on the lat. arc; $100^{\circ} 40' W.$

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the def. acc. and at 9^h 30^m a.m. l.m.t. determine with the solar & meridian and mark a point thereon on a stone set firmly in the ground, 5 chs. N. of the cor.

At 9^h 45^m p.m. by my watch which is correct with l.m.t. I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point thereon by driving a tack in a peg set 5 chs. N. of my station.
August 16, 1904.

Aug. 17, 1904: -

At 6^h 50^m a.m. l.m.t. I lay out the azimuth of Polaris 102° 21' 2" of the N. and mark a point thereon, 5 chs. N. of the meridian by cutting a small groove in the stone already set, 5 chs. N. of the station, on which the true meridian falls 0.3 ins. east of the meridian determined by the solar.

At 7^h 10^m a.m. l.m.t. I set off 54' 28" N. on the lat. acc. 102° 28' N. on the def. acc. and determine a meridian with the solar and mark a point in the line thus determined by cutting a notch in the stone already set 5 chs. N. of my station, this notch falls 10.3 ins. east

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The meridians established by the Polaris observations

The solar apparatus by p.m. and a.m. observations, defines positions for true meridians about, respectively, 16" west and 16" east of the true meridian determined by the Polaris observations. Therefore, I conclude that these adjustments of the transit were satisfactory.

The magnetic bearing of the true meridian at 7^h 45^m a.m. (L.M.T.) is $N. 14^{\circ} 28' E.$, the angle thus determined gives the mean mag. decl., $14^{\circ} 28' E.$

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The closing of the east boundary of $T. 10^{\circ} N., R. 10^{\circ} E.$, with the old Standard Parallel 7° , shows an error of closure in the township of the following:
30. 34 chs. in latitude and
10. 57 chs. in departure.
Therefore, I retrace my own lines, liable to contain the error, but find good lines correct. I then begin the retracement of the old Standard Parallel 7° , through $D. 10^{\circ} E.$

I commence at the old Standard Cor. of $T. 10^{\circ} N., R. 10^{\circ} E.$ and $11^{\circ} E.$, which is

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a quartz stone, 10x6x4 in. above ground, and not a post as described by the surveyor general, marked S. Q. on the N. with 69 rods on the N and S. faces, from which the witness bears as stated by the surveyor general, with the exception of the N. E. tree which had been cut out so as to obliterate marks. Thence I run West on a retracement, random on the S. side of sec. 06.

41.15 Fall 45 lbs. N. of the top closing corner of T. 10 N. R. 10 E. and 11 E.

41.15 The old 1/4 sec. cor., bears S., 45 lbs. dist.

81.89 The old Standard cor. of secs. 05 and 06, which is a sandstone 5x12x4 in. above ground, marked and witnessed as described by the surveyor general; bears South 89° 22' dist.

Therefore the first half mile is 41.15 chs. long and it bears S. 89° 22' fr. 41.15 chs.

The last half mile is 40.74 chs. long and it bears S. 89° 23' fr.

~~~~~

I set over and commence anew at the standard cor. of secs. 05 and 06. and run N.

41.28 The old 1/4 sec. cor., which is a limestone, 5x10x5 in. above ground, marked and witnessed as described by



by the surveyor general; bears  
 South 16 lks. dist.  
 82.45 The old standard cor. of sec.  
 04 and 05; which is a decayed  
 post, marks all obliterated  
 and witnessed as described  
 by the surveyor general;  
 bears South 40 lks. dist.  
 Therefore the first half  
 mile is 41.5 lks. long and  
 bears  $\nabla$  89° 46' th.  
 The last half mile is 41.5 lks.  
 long and bears  $\nabla$  89° 07' th.

~~~~~

I set over and commenced
 anew at the standard
 cor. of sec. 104 and 05
 I tried that on a retraced
 line on ∇ sides of sec. 04
 4000 ft. to find any trace
 of old $\frac{1}{4}$ sec. cor. A great
 fire has extended through
 there and cor. too no doubt
 very destroyed.

82.42 The old standard cor. of
 sec. 00 and 04 which is
 a decayed post, marks all
 obliterated, witnessing as
 described by the surveyor
 general. bears South 09 lks.
 dist.
 Therefore this mile is 82.42 X
 long and bears ∇ 89° 00' th.

~~~~~

I set over and commenced  
 anew at the standard cor.  
 of sec. 00 and 04.

Fchs.

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Hence I run  
 West on a retrace line of  
 S. W. cor. of sec. 33  
 40.94 1/4 old 1/4 sec. cor., which  
 is a sandstone, 2 x 10 x 6 in.  
 above ground, marked  
 and witnessed as described  
 by the surveyor general, bears  
 South 2 1/2 lbs. dist.  
 51.84 1/4 old standard cor. of sec.  
 34 and 35 which is a post,  
 all decayed, and witnessed  
 as described by the surveyor  
 general, bears South 6 1/2 lbs.  
 dist. Therefore the first  
 half mile is 40.94 chs. long  
 and bears S. 89° 41' th.  
 The last half mile is 41.00 chs.  
 long and bears S. 89° 46' th.

I commence anew at the  
 standard cor. of sec. 32 and

<sup>33</sup>  
 Hence I run  
 West on retrace line of  
 S. W. cor. of sec. 34  
 41.69 1/4 old 1/4 sec. cor., which  
 is a decayed post, marks  
 all obliterated, and wit-  
 nessed as described by  
 the surveyor general,  
 bears South 2 1/2 lbs. dist.  
 40.82 Hence West from the 1/4 sec. cor.  
~~51.84~~ 1/4 old standard cor. of  
 sec. 31 and 32, which is  
 a decayed post, marks all  
 obliterated, bears South  
<sup>44</sup>  
~~44~~ lbs. dist.  
 Therefore, the first half mile  
 is 41.69 chs. long and

beach V. 89° 33' N. H.  
The last half mile is 40.80 chs.  
long and bears V. 89° 29' N. H.



Next over and commenced  
around of the old stand.  
cor. of sec. 6 and 34.

Therefore I have  
that on a retraced line on the  
W. side of sec. 31.

40.80 The local 1/4 sec. cor., which  
is a decayed post, marks  
all obliterated and  
witnessed as described  
by the surveyor general,

40.24 beach south of Sec. dist.  
87.46 It is west from the cor.  
of the Sec Standard cor. of  
R. 9 and 10 C.

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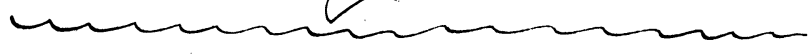
which is an iron stone,  
10 x 10 x 6" in. above ground,  
and not a post as described  
by the surveyor general,

marked and witnessed  
as described by the  
surveyor general, bears  
length 40 chs. dist.

Therefore the first half  
mile is 40.84 chs. long and  
bears V. 89° 30' N. H.

The last half mile is  
40.74 chs. long and bears  
V. 89° 26' N. H.

Aug. 17, 1904.





heavy timber and scattering  
undergrowth.

3.27 Q Pine, 4 1/2 ins. dia. on line, block with notches on E. and W. sides.

10.00 descended into canyon.

16.00 Creek, 2 lks. wide, in canyon 25 ft. deep, course N. 60 W.

21.75 Tree, 50 ft. high, slope N. W.

25.60 Creek, 5 lks. wide in ravine, 25 ft. deep, course W. descend.

29.50 Top of bank; thence over mesa following N. Colorado slope.

30.54 Q Pine, 4 1/2 ins. dia. on line, block with notches on E. and W. sides.

31.15 The true point for closing arc of the R. 10 and 11 C. I described under the C. Poly.

That sets of chainmen <sup>of the R. 10 C.</sup> no difference in measurement

4.00 ~~Let a sand stone, 24x14x10 ins., 15 ins. in the ground, for standard 1/4 sec. cor., marked N. C., 1/2 of the N. face; from which~~

Q Pine, 4 1/2 ins. dia. on line, bears N. 50 E. 28 lks. dist. marked

40.11 high N. of cor. <sup>no other trees within limits.</sup> Pile impracticable. <sup>raised a no. of stones 2 ft base 1/2 ft</sup> Q Pine, 6 ins. dia. on line, block with notches on E. and W. sides.

41.15 The point of the old, destroyed, 1/4 sec. cor., bears South 0.5 lks. dist.

50.00 descended into canyon, bears N. and E.

56.50 General Springs Creek, 10 lks. wide in valley 100 ft. deep, course N. 40 W. Over bottom.

60.00 Ascend from valley, N. and E.

~~60.00 Let a sandstone, 24x14x10 ins., 15 ins. in the ground, for standard 1/4 sec. cor., marked N. C., 1/2 of the N. face; from which~~  
no difference in measurement bet. two sets of chainmen.

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Reurvey of the Standard Parallel N, through R. 10 C.

marked with  
 8000 Let 9 sandstone, 24x14x8 ins,  
 18 ins. in the ground, for  
 standard cor. of recs. 05 and  
 06 marked with T.C. on the  
 N, with a groove on the E. and  
 a groove on the N. face,  
 from which  
 A pine, 14 ins. dia, bears  
 N. 31 1/2 E., 20 lks. dist, marked  
 T.C. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

General Springs cabin bro. south about 25 chs. dist.  
 and rolling  
 Soil, sandy, and rather  
 timber, pine, fir and  
 cedar  
 Undergrowth, small pine.  
 Heavily timbered lands, 8000 chs.  
 Puummmmm

Start on end Standard Parallel  
 North, through R. 10 C. on T.  
 cor. of recs. 05.  
 Over rolling Mogollon Mts  
 through heavy timber and  
 scattering undergrowth.

1.89 The old destroyed cor. of recs.  
 05 and 06 bears South, 40 chs.  
 dist.  
 05.65 Enter dense undergrowth,  
 bears N. and T.  
 4000 Difference bet. measurements  
 of 40 chs. by two sets of  
 chainmen is 4 lks; section  
 of middle point  
 of 1st set, 39.98 chs.  
 " end " 40.00 chs.; the mean  
 of which is  
 40.00 Let 9 sandstone, 18x14x4 ins,

10 ins. in the ground; four  
standard red cor. marked  
N.C. 1/4 of the N face; from  
which

A pier, 40 ins. dia, bears N  
20° W. 45 lbs. dist. marked  
P.T. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. raised a mound of stone 2 ft. base  
no other trees within limits.  
P.T. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. raised a mound of stone 2 ft. base  
no other trees within limits.  
P.T. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. raised a mound of stone 2 ft. base  
no other trees within limits.

40.00 Ravine, 50 ft. deep, course  
N. 60° E. Grass down under-  
growth.

50.00 Ridge spur, 50 ft. high, slopes  
toward the N. E.

56.50 Valley, 40 ft. deep, 8 chs. wide,  
bears N. 60° E.

Difference bet. measurements  
of 8 chs. by two sets of chain  
line is 10 lbs.; position of  
middle point

By 1st set, 50.08 chs.

" 2nd set, 59.95 chs; the  
mean of which is

50.015 chs. left to quartz stone, 15 x 12 x 6 ins.

10 ins. in the ground, four  
standard cor. of red cor. and  
20, marked N.C. in N face,  
with 2 grooves on E. and 4  
grooves on N. face; from  
which

A pier, 40 ins. dia, bears  
N. 70° E. 59 lbs. dist. marked  
P.T. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20.

A pier, 44 ins. dia, bears  
N. 60° E. 45 lbs. dist. marked  
P.T. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20.  
Land, level and rolling  
soil sandy; 1st and 2nd  
gate

Pinus, Juniper, fir and cedar

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Undergrowth, small pine  
huckle berry, vine maple and  
choparral.  
Heavily timbered. or land  
covered with dense under-  
growth, 5000 ft. ✓

Next on sec of Standard Parallel  
N, through R. 10 E. on T. 6 N  
of sec. 04.

Over rolling Mogollon Mesa  
Colorado slope, through  
heavy timber, and scattering  
undergrowth.

- 15.10 Trail, bars N. and T.
- 15.50 Step descent into canyon.
- 19.15 Trail, bars N. and T.
- 19.50 Dry bed of stream, 500 ft. wide,  
in canyon, 500 ft. deep, course  
N. 10. W. around steep E. slope  
of bank.

20.00 More gradual ascent.  
Wood fence bet. measurements  
of rocks by two sets of chaining  
is 4 lbs; position of middle  
point.

By 1st set, 40.00 chs  
" 2nd set, 29.95 chs, the mean  
of which is

40.00 Set a sand stone, 18 x 12 x 4 ins,  
10 ins. in the ground, for  
standard 1/2 sec. cor, marked T. 6  
4 on the N. face; from which

of pine, 20 ins. dia, bars N.  
20.00 8 slope dist marked T. 6  
no other trees in limits, fallen in mound  
of stone 2 ft base 1/2 ft high 2 ft for  
P. impracticable

- 55.00 Rock valley, bars N. and T.
- 60.00 Cave valley and around,  
bars N. and T. 20 ft.



Difference bet. measurement  
 of Dochs. by two sets of chain  
 run is 2 lbs., position of  
 middle point is

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the

mean of which is

80.00  
 2K  
 Set a quartz stone, 18 x 12 x 4  
 ins., 2 ins. in the ground,  
 for cor. of sec., standard, and  
 24 marked T C on N face;  
 with grooves on E. and W.  
 faces; from which

A pie, 4 ins. dia, base of  
 21. E. 20 lbs. dirt, marked  
 T C 210 N D 10 E 2 1/2 W P.

A pie, 6 ins. dia, base of  
 20. H. 5 lbs. dirt, marked  
 T C 210 N D 10 E 2 1/2 W P.

Land, level and rolling.  
 Soil, sandy; red color.  
 Timber, pine and fir.  
 Undergrowth, small pines.  
 Heavily timbered lands,  
 80.00 chs.

Aug. 17. At this standard  
 sec. cor., I set off 102.20 ft  
 on the def. acc; and at  
 10.46 a.m. (mt. observe the  
 sun on the meridian; the  
 resulting lat. is 34.28 N  
 which is correct.

Next on red Standard  
 Parallel N, through R.  
 10 E on S. bdy. of sec. 33.  
 Over rolling slope of  
 Mogollon Mesa the  
 heavy timber and scattering

BOOK 1022

undiscovered  
2000 Ridge edge, 100 ft high,  
slopes North  
2500 Base valley, through quaking  
aspen thicket, bears N and S  
dip bet. measurement of  
rocks by two sets of channery  
is 5 lbs.; position of middle  
point.

Dip 1st set, 40.24 chs  
2nd set 39.96 chs; the  
mean of which is  
40.00 Set an iron stake, 18x14x6  
ins, 10 ins in the ground,  
for standard of N.C. Co.,  
marked N.C. 1, on the N.  
face, from which

A quaking aspen 14 ins.  
dia. bears N. 60 W. 11 lbs. dist.  
marked N.C. 1, on the N.  
face, from which  
40.00 Set an iron stake, 18x14x6 ins, 10 ins in the ground,  
for standard of N.C. Co.,  
marked N.C. 1, on the N.  
face, from which

A quaking aspen 14 ins.  
dia. bears N. 60 W. 11 lbs. dist.  
marked N.C. 1, on the N.  
face, from which  
40.00 Set an iron stake, 18x14x6 ins, 10 ins in the ground,  
for standard of N.C. Co.,  
marked N.C. 1, on the N.  
face, from which

A pie, 40 ins dia, bears N  
60 W. 10 lbs. dist, marked  
N.C. 1, on the N. face, from  
which  
A pie, 40 ins dia, bears N  
75 W. 10 lbs. dist, marked N.C.  
1, on the N. face, from  
which

stone

Soil, sandy, and later  
 timber, pine, fir and  
 quaking asp.   
 Undergrowth, small ferns,  
 pine and vine maple.  
 Heavily timbered lands,  
 5000 ft.

Stop on end Standard  
 Parallel N, through R. 10  
 O. on T. Ddy. of Sec. 22  
 Does reflect Mogollon  
 Mesa through many  
 timber and scattered  
 undergrowth.

25.00 Dry bed of stream, 10 lbs.  
 wide, by ravine 10 ft.  
 deep, course N. Ascend  
 steep bank

29.00 More gradual ascent  
 by left measurements of  
 40 chs. by two sets of chain-  
 men of 6 lbs; position of  
 middle point is

By 1st set, 40.00 chs.  
 " end set 39.97 chs; the  
 mean of which is

40.00 Set of standards, 15 x 14 x 8  
 ins, 10 ins in the ground,  
 for standard + sig. cor.,  
 marked N.C. on the N. face,  
 from which

A pine, 20 ins dia, base  
 N. 89 1/2 W, 54 lbs. dist marked  
 L.C. 1/2 ft. of cov. Pits impracticable  
 no other trees within limits;  
 raised a md. of stone 2 ft. base

50.44 The position of destroyed  
 standard + sig. cor. bears  
 South 6.19 chs dist  
 over small ridge, spurs  
 and draws.

62.00 Ridge, 500 ft. high, slopes N.

BOOK 1922

dry wt. measurement of  
rocks by two sets of  
chambers is 10 lbs; portion  
of middle part is  
of 1st set, 50.55 lbs.  
" 2nd set, 29.95 lbs; the  
mean of which is

5000 ft of quartz stone, 10x10x<sup>1/4</sup>  
ins, 18 ins by the ground,  
for standard cor. of sec.  
31 and marked S.C. on  
the N face; with 5 grooves  
on E and 1 groove on the  
N face; from which  
of 1/2 in. dia, bars  
N. 10 E, 11 lbs dist, marked  
S.C. 1, 10 N, 10 E, 10 S, 10 W

marked, 2x in. dia, bars  
N. 15 E, 15 lbs, dist, marked  
S.C. 1, 10 N, 10 E, 10 S, 10 W  
and rolling.

Soil, sandy, fine and red color,  
timber, pine, oak, fir and  
spruce and  
undergrowth, small pines,  
vine maple and chopwood  
heavily timbered lands,  
5000 ft.

August 12. At 3<sup>h</sup> 10<sup>m</sup>  
A.M. I set off of 3<sup>h</sup> 4<sup>m</sup>  
at 11<sup>h</sup> on the lot acc, 13<sup>h</sup> 2<sup>m</sup> 11<sup>s</sup>  
with decl. acc, and  
determine a meridian  
with the solar at the  
standard cor. of sec. 31 and  
of fence I run  
that on sec standard  
parallel N, through R. 10  
E, on S. bay of sec. 31

- 19.00 Cross rolling *W. through D. 10 E* through heavy timber and scattering undergrowth.
- 28.00 Canyon, 200 ft. deep, course *W. around* over mountainous land.
- 28.00 Ridge, 175 ft. high, base *W. and N.*
- 39.00 Trench, 175 ft. deep, course *N. 10° E.*
- 40.00 *Ref. bet measurements of 40 chs. by two sets of chainings is 6 chs. Position of middle point is by 1st set, 40.00 chs. " 2nd set, 39.97 chs; the mean of which is*
- 40.00 Set a sandstone, 48x12x8 ins, 18 ins in the ground for standard  $\frac{1}{4}$  sec. cor., marked *N. C. 10* on the *N. face*, from which a line, 86 ins. dia, base *N. 85° W.*, 51 lbs. dist. marked *N. C. 10* *of P. T. raised a mid. of stone 2 ft. base* *no other trees within limits: Pits impracticable*
- 51.76 *10 ft. high* destroyed standard  $\frac{1}{4}$  sec. cor. bears *N. 6.88 chs. dist.*
- 85.00 Trench, 10 lbs. wide, in canyon 175 ft. deep, course *W. around*.
- 92.00 Wall 7.20 chs. *N. of the old standard cor. of D. 10 W., D. 9 and 10 E.* Cut out all marks on this corner that pertain to *D. 10 W., D. 10 E.*, and at point of intersection 7.20 chs. *N. of old corner*  
Set a sandstone 48x12x8 ins, 24 ins in the ground.

BOOK 1922

struck rock and raised  
mound of stone around.  
For Standard Closing  
Corners of  $\frac{1}{2}$   $\frac{1}{2}$  R. 10 E.  $\frac{1}{2}$   $\frac{1}{2}$  P.  
marked S.C. on  $\frac{1}{2}$  face and  
C.C. on E. face, with 6  
grooves on  $\frac{1}{2}$  and E. faces;  
from which

A finer, 40 ins. dig, bears  
 $\frac{1}{2}$   $\frac{1}{2}$  E. 116 lbs, dist, marked  
S.C.  $\frac{1}{2}$   $\frac{1}{2}$  R. 10 E.  $\frac{1}{2}$   $\frac{1}{2}$  P.  
Land, level, rolling and  
mountainous.

Soil sandy and gravelly,  
red and grey silt  
timber, pine, fir, oak  
and choppers  
Undergrowth, small pines,  
oak brush, vine, maple  
and choppers.

Mountainous or heavily  
timbered lands; 92.  $\frac{1}{2}$   $\frac{1}{2}$  P.

August 17, 1904

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Aug. 18. At 7:10 a.m. (cont.)
I set off 042-4877 on the
lat. acc; 102-0477 on the
decl. acc and determine
a meridian with the
color of the closing
cor. of Tps. 107, R. 9 and 10
S, which is a limestone,
8 x 16 x 6 ins. above ground,
marked and witnessed as
described by the surveyor
general.

OK

Thence I run
South on a retracement line bet
secs. 8 and 6.

Around steep N.H. slope
through heavy pine
and oak timber.

40.01 Intersect the $\frac{1}{4}$ sec. cor., which
is a limestone, 6 x 8 x 6 ins.
above ground, marked and
witnessed as described by
the surveyor general.

1922

50.03 Intersect the cor. of secs.
1, 6, 7 and 10 which is a
limestone, 8 x 8 x 6 ins. above
ground, marked and
witnessed as described by
the surveyor general.

OK

Therefore this line is
correct both in alignment
and measurement.

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South on retracement line bet  
secs. 7 and 10.

89.98 Intersect the  $\frac{1}{4}$  sec. cor.,  
which is a sandstone,  
4 x 8 x 6 ins. above ground,  
marked and witnessed

BOOK 1922

as described by the surveyor general.  
5000 Intersect the cor. of sec. 10, 12, 14 and 18 which is a sandstone, 6 x 10 x 8 ins. above ground, marked and witnessed as described by the surveyor general. Therefore this mile is correct.



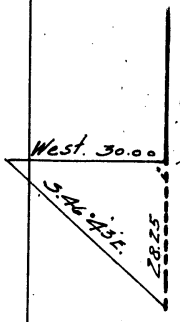
South on retrace line bet. sec. 10 and 18. Over gradual S. slope through heavy timber. 4000 ~~Intersect~~ Intersect the cor. of the 1/4 sec. cor. which is a sandstone, 4 x 10 x 8 ins. above ground, marked and witnessed as described by the surveyor general.

4675 Rim rock of mountain, Mogollon Rim, bears S. 80° E. and S. E.

Since the line from here onto the section cor. passes down the almost impossible rim, I set a flag on the line, below the obstructions, at the cor. of sec. 10, 18, 19 and 24 which is a sandstone approx. 10 x 10 x 8 ins. marked and witnessed as described by the surveyor general.

Then from the 4675 chain point on the bank of the Mogollon Rim, I run





75.00

Sheet for 3000 chs. on  
 base for triangulation.  
 From the 3000 chain point  
 to the flag at the  
 cor. of recs. 13, 18, 19 and  
 24 base S. 46°-43'E.  
 therefore the distance  
 from the 46.73 chain point  
 on the rim to the  
 flag at the cor. of recs.  
 13, 18, 19 and 24 is  
 tangent of 40°-17' x base  
 or 0.9418 x 3000 = 2825  
 making the whole distance  
 from the 1/2 sec. cor. S. to  
 cor. of recs. 13, 18, 19 and 24  
 just 3000 chs.  
 Consequently the last half  
 mile of the line bet.  
 recs. 13 and 18 is just  
 3000 chs.



I commence at the cor.  
of Tps. 12 N., R. 10 and 11 E.,  
which is an iron post  
with brass cap, marked  
and witnessed as described  
by the surveyor general.

Thence I run East on a  
retace line on S. E. of  
Sec. 01, T. 11, R. 10, E. 1  
around gradual S. E. slope.

2.25 A dry branch, 15 lbs. wide,  
course S. 15° E., around  
gradual S. E. slope.

16.25 A juniper, 5 ft. diam on  
line.

25.50 Top of ridge, 100 ft. high,  
base N. and S.

00.00 Dry branch, 10 lbs. wide in  
ravine, 50 ft. deep, course S.  
around steep S. slope.

40.00 Top of ridge, 100 ft. high,  
slopes toward the N.  
Set measurements of  
distances to 1/2 sec. cor. 10  
lbs.; position of middle  
point  
By 1st set, 44.45 chs.  
By 2nd set, 44.85 chs.; the  
mean of which is

44.40 Intersection of sec. cor. which  
is a sandstone, 5 x 10 x 6 ins.,  
above ground, marked  
and witnessed as described  
by the surveyor general.

50.90 Donita Creek, 10 lbs. wide,  
6 ins. deep, in ravine, 25 ft.  
deep, course S.

54.90 Ding road, base N. and S.

54572. Dyle's house bears N. 20° E, 15 chs. dist. Two small drains and a curb. By bet. measurement of distances to Rdy post No. 04, for cor. of sec. 01 and 02 is 5 chs.; position of middle point of Rdy set is 84.44 chs. " " end set 84.36 chs; the mean of which is

84.40 to Rdy post No. 04, for cor. of sec. 01 and 02, which is an iron post, with brass cap, marked and witnessed as described by the surveyor general.

Therefore the first half mile is 44.40 chs, showing an error in measurement of 5.57 chs.

The last half mile is 40.00 chs. which is correct. Land, mountainous. Soil sandy and stony; wood and timber, pine, oak, fir and quaking asp.

Aug. 18, 1904

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BOOK 1922

Note Table of latitude
 and departures in
 Book L, E. Day of T. 10 N.
 R. 10 E.
 and also in Book I.
 Exterior of T. 11 1/2 N. R. 11 E.

Note: - No one authorized to
 administer oaths other
 than myself being
 available without
 great delay, inconvenience
 and expense, therefore
 I administer the
 required preliminary and
 final oaths.

Chas. L. Campbell
 C. V. Sept. Recorder

General Description.

These lines are rolling and mountainous,
 with some level meadow lands. The Magellan
 Rim extends through the northern half
 of T. 12 N. R. 10 E., from East to West and
 is almost entirely impassible. The land
 above the rim is mostly heavily timbered.
 There are settlers in the township.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

96
25

LIST OF NAMES.

BOOK 1922

A list of the names of the individuals employed by Chas. J. Campbell

....., United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of 3rd Stand
R. N. through R. 10 E.; retrace of S. body of R. 10 E. and S. body of
R. 10 N. R. 11 E.; and the Rdy of R. 10 N. R. 10 E.
showing the respective capacities in which they acted:

- Oliver B. Raser , Chairman.
- Donald Stevenson , Chairman.
- C. H. Goetz , Moundman.
- Virgil W. Earl , Moundman.
- Chas. M. Brown , Axman.
- Orval C. Gilstrap , Axman.
- , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Chas. J. Campbell

....., United States Deputy Surveyor, in surveying all

those parts or portions of the Meridian of 3rd Standard of R
N. through R. 10 E.; retrace of S. body of R. 10 E.
and S. body of R. 10 N. R. 11 E.
and the Rdy of R. 10 N. R. 10 E. of the Gilstrap
East River meridian, Section of Arizona, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Arizona

- Oliver B. Raser C. H. Goetz , Chairman. ✓
- Donald Stevenson Virgil W. Earl , Chairman. ✓
- , Moundman.
- , Moundman.
- Chas. M. Brown , Axman. ✓
- , Axman.
- Orval C. Gilstrap , Flagman. ✓

Subscribed and sworn to before me this 15th
day of August, 1922, 189



Chas. J. Campbell
U. S. Deputy Surveyor

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BOOK 1922

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Chas. L. Campbell, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Gen. Frank S. Ingalls, United States Surveyor General for Arizona, bearing date of the 18th day of April, 1894, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Resurvey of Standard Parallel North, through R. 10 E., retirement of S. Body sec. 31, T. 12 N., R. 11 E. and S. Body of T. 12 N., R. 10 E. of the Gila and Salt River meridian, in the territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Chas. L. Campbell
United States Deputy Surveyor.

Subscribed by said Chas. L. Campbell and sworn to before me }
this 21 day of Aug., 1894.



W. J. Finster
Clerk District Court and for
Coconino County Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A. T., February 16th 1905

The foregoing field notes of the survey of resurvey of 3rd Standard Parallel North through Range 10 East; retirement of South Boundary of Sec. 31 on S. Body of T. 12 N., R. 11 E., and W. Body of T. 12 N., R. 10 E. of the Gila and Salt River Base and Meridian, in the Territory of Arizona

executed by Chas. L. Campbell U. S. Deputy Surveyor under his joint contract No. 116, dated April 18th 1904, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.