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(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY

AND SUBDIVISIONAL LINES, AND

SURVEY OF SUBDIVISION AND TRACT C,

IN SECTION 12,

TOWNSHIP 17 NORTH, RANGE 5 EAST

(EXCHANGE SURVEY NO. 678)

Of the GILA AND SALT RIVER *Meridian,*

In the State of ARIZONA

EXECUTED BY

EVERETT H. KIMMELL, CADASTRAL ENGINEER

Under special instructions dated JUNE 20, 19 49, *which provided for the surveys included under* ~~Exception~~ EXCHANGE SURVEY NO. 678, *approved* JULY 7, 1949 *and assignment instructions dated* OCTOBER 18, 19 49.

Survey commenced OCTOBER 26, 19 49.

Survey completed NOVEMBER 4, 19 49.

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

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SURVEY OF TRACT C PAGE 10

T. 17 N., R. 5 E.

Township 17 North, Range 5 East, of the Gila and Salt River Meridian, Arizona, is located within the Coconino National Forest and the survey of certain tracts in section 12 was initiated on the official request of the U. S. Forest Service to accommodate the exchange of lands.

The east boundary of section 12 was originally surveyed by J. C. Smith in 1885; the north, south, and west boundaries of the section were originally surveyed by R. C. Powers in 1886. The north boundary of the section was resurveyed by W. O. Secor in 1902.

All corners on the north and east boundaries of section 12 were found in a fairly good state of preservation. The corner of sections 11, 12, 13, and 14 had been perpetuated by a Licensed Surveyor, Clyde M. Etter, of Sedona, Arizona, by driving an iron pipe in the center of a mound of stone, in April of 1946, and he states that the original stone corner monument was found lying loose on the ground nearby and that he placed it alongside the iron pipe. This position was accepted as being the best available evidence of the position of the original corner. Many local surveys have been initiated from and based on this position.

The survey was executed with Gurley solar transit, Serial No. 49657, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The horizontal circle has two double opposite verniers reading to single minutes, and the vertical circle is equipped with one double vernier reading to single minutes.

The directions of all lines were determined by transit method, with azimuth based on altitude observations of the sun at the southwest corner of section 12. Measurements were made with a Lallie steel tape, 5 chains in length, graduated every link for the first 100 links, and thereafter at intervals of 10 links. The tape was tested by comparison with a standard tape and found correct. Measurements were made on the slopes and the vertical angle of each interval ascertained by a clinometer in good adjustment; summations of the horizontal equivalents only are entered in the following field note record.

Oct. 25, 1949, at the corner of sections 11, 12, 13, and 14, of T. 17 N., R. 5 E., in latitude 34° 51 3/4' N., and longitude 111° 47 3/4' W., at 3h 28m p.m., app. time, a series of three altitude observations of the sun were made for azimuth, reading the horizontal angle from the north edge of an isolated pinnacle, about three miles distant, counter-clockwise to the sun.

Mean observed horizontal angle	176° 31' 40"
Mean observed vertical angle	22° 03' 55"

Oct. 26, 1949, at the same station, at 8h 52m a.m., app. time, a second series of three observations were made, reading the horizontal angle from the north edge of the pinnacle, clockwise to the sun.

Mean observed horizontal angle	75° 26' 10"
Mean observed vertical angle	24° 55' 25"

Computed bearing from p.m. observations	N. 52° 26' 33" E.
Computed bearing from a.m. observations	N. 52° 25' 05" E.
Mean bearing to N. edge of pinnacle	N. 52° 25' 49" E.

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Dependent Resurvey, E. Bdy. Sec. 12, T. 17 N., R. 5 E.

Chains	
	Reestablishment of Survey Executed by J. C. Smith, Deputy Surveyor, in 1885.
	Beginning at the cor. of secs. 7, 12, 13, and 18, on E. bdy. of the Tp., which is monumented by a properly marked sandstone, 12x6x2 ins., firmly set in a small mound of stone.
	At the corner point
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap mkd.
	T17N R5E | R6E S12 | S 7 S13 | S18 1949
	from which
	The original bearin trees:
	A cedar, 16 ins. diam., bears N. 3 3/4° E., 20 lks. dist., mkd. T17N R6E VII BT.
	A pinon, 8 ins. diam., (dead) bears S. 4¼° E., 31 lks. dist., mkd. T17N R6E XVII BT.
	New bearing trees:
	A pinon, 8 ins. diam., bears S. 77° E., 50 lks. dist., mkd. T17N R6E S18 BT.
	A cedar, 8 ins. diam., bears S. 34¼° W., 72 lks. dist., mkd. T17N R5E S13 BT.
	A cedar, 10 ins. diam., bears N. 65¼° W., 89 lks. dist., mkd. T17N R5E S12 BT.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. and bury the old corner stone alongside the iron post.
	N. 1° 44' E., bet. secs. 7 and 12.
	Descend broken N. slope, through medium heavy timber and undergrowth.
8.33	U. S. Coast and Geodetic Survey Bench Mark "R 31", a brass tablet in a concrete monument, 13 lks. W. of line.
8.80	A graded road, bears ENE. and WSW.
10.78	Center of U. S. Highway No. 89-A, at curve bearing NE. and SW., 60 ft. below the sec. cor.; thence over rolling and broken land, continue through timber and undergrowth.
19.30	Ravine, course E. from NW.
19.94	Point for the S. 1/16 sec. cor. of secs. 7 and 12.
24.35	Bottom of a small canyon, course E. from NW., asc. 66 ft.
28.40	Spur, slopes E., desc. 63 ft.
34.00	Wash, 10 lks. wide, 4 ft. deep, course SE., asc. 64 ft.
38.50	Spur, slopes SE., desc. 13 ft. to the ¼ sec. cor.
39.88	The ¼ sec. cor. of secs. 7 and 12, monumented by a properly marked, broken sandstone, in a small mound of stone.

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Dependent Resurvey, E. Bdy. Sec. 12, T. 17 N., R. 5 E.

Chains	
	At the corner point,
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd.
	$\frac{1}{4}$ S12 | S 7 1949
	from which
	Original bearing trees:
	A pinon, 12 ins. diam., bears S. 34° 38' E., 44 lks. dist., dimly marked 1/4 S7 BT.
	A pinon, 8 ins. diam., bears N. 42½° W., 70 lks. dist., mkd. 1/4 S12 BT.
	New bearing tree:
	A cedar, 24 ins. diam., bears S. 14° W., 42 lks. dist., mkd. 1/4 S12 BT.
	Raise a mound of stone, 2 ft. base, 1½ ft high, W. of cor., and bury the old corner stone alongside the iron post.
	N. 1° 22' E., beginning new measurement.
	Along a broken E. slope.
4.70	Spur, slopes E., desc. 80 ft.
12.00	Draw, course E., thence over rolling and broken land.
15.80	Desc. NE. slope, 65 ft.
19.00	Top of a rock ledge, bears E. and W.
19.80	Wash, 40 lks. wide, 3 ft. deep, course ESE., gradually asc. 65 ft. over rolling and broken land to the sec. cor.
39.65	The cor. of secs. 1, 6, 7, and 12, on top of a low ridge which bears N. and S., monumented by a properly marked sandstone, 18x12x6 ins., firmly set in the ground and old mound of stone.
	At the corner point,
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with brass cap mkd.
	T17N R5E | R6E S1 | S6 S12 | S 7 1949
	from which
	The original bearing trees: (all in good condition)
	A juniper, 12 ins. diam., bears N. 47° E., 107 lks. dist., mkd. T17N R6E S6 BT.
	A pinon, 12 ins. diam., bears S. 81° E., 68 lks. dist., mkd. TXVII RVIE S7 BT.
	A pinon, 12 ins. diam., bears S. 82° W., 17 lks. dist., mkd. T17N R5E S12 BT.

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Dependent Resurvey, E. Bdy., Sec. 12, T. 17 N., R. 5 E.

Chains

A juniper, 12 ins. diam., bears N. 22° 40' W., 162 lks. dist., mkd. T17N R5E S2 BT.

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., and bury the old corner stone alongside the iron post.

Land, rolling, broken, and hilly.
Soil, sandy clay and loam.
Timber, juniper and pinon; undergrowth, oak brush.

Dependent Resurvey, Portion of Subdivision, T. 17 N., R. 5 E.

Reestablishment of Surveys Executed by
R. C. Powers and W. O Secor, Deputy Surveyors,
in 1886 and 1902.

At the ¼ sec. cor. of secs. 13 and 14, which is monumented by a properly marked malpais stone, 16x10x6 ins., firmly set in a mound of stone.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd.

¼

S14 | S13

1949

from which

Original bearing tree:

A juniper, 12 ins. diam., bears N. 35 3/4° E., 35 lks. dist., with old scribe marks visible but not legible.

New bearing trees:

A juniper, 16 ins. diam., bears S. 55¼° E., 109 lks. dist., mkd. 1/4 S13 BT.

A juniper, 16 ins. diam., bears S. 54¼° W., 52 lks. dist., mkd. 1/4 S14 BT.

Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., and bury the old corner stone alongside the iron post.

N. 0° 07' E., bet. secs. 13 and 14. (N. ½)

Over rolling land, through scattered timber and undergrowth.

6.30 Wash, 30 lks. wide, 6 ft. deep, course W. from N. of E.

38.61 The cor. of secs. 11, 12, 13, and 14, marked by a local survey monument, an iron pipe, 1 in. diam., firmly driven in the ground and surrounded by a mound of stone, and alongside of which is lying the original corner stone, a properly marked limestone, 12 x 8 x 6 ins. This position is accepted as being marked by the best available evidence of the position of the original monument.

At the corner point,

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap mkd.

T17NR5E

S11 | S12

S14 | S13

1949

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Dependent Resurvey, Portion of Subdivision, T. 17 N., R. 5 E.

Chains	
	from which
	New Bearing trees:
	A pinon, 8 ins. diam., bears N. 79° 56' E., 3.16 chs. dist., mkd. T17N R5E S12 BT.
	A juniper, 6 ins. diam., bears S. 82° 15' E., 3.10 chs. dist., mkd. T17N R5E S13 BT.
	A juniper, 15 ins. diam., bears S. 85° 08' W., 2.24 chs. dist., mkd. T17N R5E S14 BT.
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor., and bury the old corner stone alongside the iron post.
	Land, gently rolling and rolling. Soil, sandy clay and loam. Timber, juniper,and pinon; undergrowth, scrub oak.
	From the cor. of secs. 7, 12, 13, and 18, on E. bdy. of the Tp.
	N. 89° 37' W., bet. secs. 12 and 13.
	Over rolling land, through medium heavy timber and undergrowth.
13.50	Enter cultivated field, bears N. and S.
19.52	Point for the E. 1/16 sec. cor. of secs. 12 and 13, at proportionate dist.
38.80	Wash, 20 lks. wide, course SW., leave cultivated land and enter gently rolling land and scattered timber.
39.035	Point for the ¼ sec. cor. of secs. 12 and 13, at proportionate dist. There is no evidence of the original corner.
	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to solid rock and in a mound of stone with 4 ft. base to top, on slope of right bank of wash, with brass cap mkd.
	1/4 S12 / S13 1949
	from which
	A juniper, 6 ins. diam., bears N. 43¼° W., 77 lks. dist., mkd. 1/4 S12 BT.
	A juniper, 7 ins. diam., bears S. 74¼° W., 44 lks. dist., mkd. 1/4 S13 BT.
43.915	Point for the E-E-W 1/256 sec. cor. of secs. 12 and 13, at proportionate dist.
48.795	Point for the E-W 1/64 sec. cor. of secs. 12 and 13, at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.
	S12 / E-W 1/64 / S13 1949
	raise a small mound of stone, W. of cor.
53.70	Arroyo, 10 lks. wide, 6 ft. deep, course S.

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Dependent Resurvey, Portion of Subdivision, T. 17 N., R. 5 E.

Chains	
58.55	Point for the W. 1/16 sec. cor. of secs. 12 and 13, at proportionate dist.
63.43	Point for the E-W-W-1/256 sec. cor. of secs. 12 and 13, at proportionate dist. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd. S12 E-W-W 1/256 S13 1949
68.31	Point for the W-W 1/64 sec. cor., at proportionate dist.
78.07	The cor. of secs. 11, 12, 13, and 14. Land, rolling and gently rolling. Soil, sandy clay and loam. Timber, pinon and juniper; undergrowth, scrub oak.
	N. 0° 06' W., bet. secs. 11 and 12. Over nearly level land, through very scattered timber and undergrowth.
9.865	Point for the S-S 1/64 sec. cor. of secs. 11 and 12, at proportionate dist. (This point is not a corner of one of the exchange survey tracts but is monumented on the request of the Forest Servide). Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. S-S 1/64 S11 | S12 1949
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
12.24	Center of U.S. Highway No. 89-A, bears ENE. and WSW., enter rolling land and scattered timber and undergrowth.
19.73	Point for the S.1/16 sec. cor. of secs. 11 and 12, at proportionate dist. (This point is not a corner of one of the exchange survey tracts but is monumented an the request of the Forest Service. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd. S 1/16 S11 | S12 1949
	raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
39.465	Point for the ¼ sec. cor. of secs. 11 and 12, at proportionate dist. There is no evidence of the original corner. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

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Dependent Resurvey, Portion of Subdivision, T. 17 N., R. 5 E.

Chains	
	$\frac{1}{4}$ S11 | S12 1949
	from which
	A juniper, 8 ins. diam., bears S. 27½° E., 28 lks. dist., mkd. 1/4 S12 BT.
	A juniper, 8 ins. diam., bears S. 63 3/4° W., 46 lks. dist., mkd. 1/4 S11 BT.
	NE. corner of a house and concrete porch bears S. 62° 48' W., 60 lks. dist.
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Asc. SSE. slope, 37 ft.; enter medium heavy timber and undergrowth.
42.50	Top of ascent, bears ENE. and WSW., thence over rolling land, continuing through medium heavy timber and undergrowth.
46.96	An arroyo, 6 lks. wide, 4 ft. deep, course SW. from ENE.
52.00	An arroyo, 15 lks. wide, 8 ft. deep, course SW.
55.00	An arroyo, 8 lks. wide, 6 ft. deep, course SW.
67.60	Power line, bears NW. and SE.
78.93	The cor. of secs. 1, 2, 11, and 12, monumented by a properly marked sandstone, 16x10x8 ins., firmly set in the ground and mound of stone.
	At the corner point.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap mkd.
	T17N R5E S2 | S1 S11 | S12 1949
	from which
	The original bearing trees (all in good condition):
	A pinon, 8 ins. diam., bears N. 14 1/4° E., 39 lks. dist., marks are partially overgrown and not legible.
	A juniper, 12 ins. diam., bears S. 22° E., 70 lks. dist., mkd. 17N R5E S12 BT.
	A juniper, 18 ins. diam., bears S. 67 3/4° W., 42 lks. dist., mkd. T17N R5E S11BT.
	A juniper, 9 ins. diam., bears N. 13 3/4° W., 58½ lks. dist., marks are partially overgrown and not legible.
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., and bury the old corner stone alongside the iron post.
	Land, nearly level to hilly. Soil, sandy clay and loam and rocky. Timber, juniper and pinon; undergrowth, scrub oak, catclaw and cactus.
	From the cor. of secs. 1, 6, 7, and 12, on E. bdy. of the Tp.
	S. 89° 54' W., bet. secs. 1 and 12.

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Dependent Resurvey, Portion of Subdivision, T. 17 N., R. 5 E.

Chains	
	Over hilly land, through heavy timber and undergrowth.
5.10	Wash, 6 lks. wide, 3 ft. deep, course S.
11.85	Old wood road, bears N. and S.
13.45	Wash, 30 lks. wide, course SE., 40 ft. below the sec. cor.; asc. 125 ft. over a broken NE. slope, to the ¼ sec. cor.
40.23	The ¼ sec. cor. of secs. 1 and 12, as identified by old mound of stone and the original bearing trees.
	At the corner point,
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.
	1/4 S 1 / S12
	1949
	from which
	The original bearing trees (in good condition):
	A pinon, 8 ins. diam., bears N. 38½° E., 53 lks. dist., mkd. 1/4 S1 BT.
	A juniper, 8 ins. diam., bears S. 17° W., 67 lks. dist., mkd. 1/4 S12 BT.
	The original corner stone, a properly marked sandstone, 24x12x10 ins., was found N. 86½° E., 27 lks. dist. from the true point and was buried alongside the iron post.
	This corner is on top of a short spur which slopes abruptly N.
	S. 89° 55' W., beginning new measurement.
	Gradually ascend over a broken NE. and E. slopes.
28.46	At a point near the E. foot of a precipitous sandstone hill, about 250 ft. high, offset 8.25 chs. south, thence parallel to line, continuing measurement.
36.15	Spur, slopes S.
40.20	Offset 8.25 chs. north to the corner of secs. 1, 2, 11, and 12, which is at the W. foot of the sandstone hill.
	Land, hilly, broken, and rolling. Soil, sandy clay and rocky. Timber, juniper, pinon, and Arizona cypress; undergrowth, scrub oak palo verde, mescal and cactus.

Subdivision of Sec. 12, T. 17 N., R. 5 E.

	From the ¼ sec. cor. of secs. 12 and 13.
	N. 0° 44' E., on the N-S center line of sec. 12.
	Over gently rolling land, through scattered timber and undergrowth.
4.958	Point for the center S-S-S 1/256 sec. cor. of sec. 12, set a temporary stake.
8.17	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E., gradually ascend over rolling land, and enter medium heavy timber and undergrowth.

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Subdivision of Sec. 12, T. 17 N., R. 5 E.

Chains	
9.915	Point for the center S-S 1/64 sec. cor. of sec. 12.
19.83	Point for the center S. 1/16 sec. cor. of sec. 12, set a cedar stake.
32.25	Wash, 10 lks. wide, 4 ft. deep, course SE.
36.40	Same wash, course SW.
39.66	Point for the center $\frac{1}{4}$ sec. cor. of sec. 12.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a mound of stone with 5 ft. base to top, with brass cap mkd.
	$C\frac{1}{4}S12$
	1949
	from which
	A pinon, 8 ins. diam., bears N. 78° 08' E., 44 lks. dist., mkd. C 1/4 S12 BT.
	A juniper, 16 ins. diam., bears N. 78° 51' W., 96 lks. dist., mkd. C 1/4 S12 BT.
78.50	Desc. 20 ft. over N. slope.
79.16	The $\frac{1}{4}$ sec. cor. of secs. 1 and 12.
	Land, rolling. Soil, sandy clay and loam, and rocky. Timber, juniper, pinon, and scrub oak.

	From the $\frac{1}{4}$ sec. cor. of secs. 7 and 12, on E. bdy. of the Tp.
	N. 89° 55' W., on the E-W center line of sec. 12.
	Over broken and hilly land, through medium heavy timber and undergrowth.
1.25	Spur, slopes SE.
6.10	Wash, 10 lks. wide, course SE.
19.86	Point for the center E. 1/16 sec. cor., set a cedar stake.
25.67	Wash, 10 lks. wide, course S. from NW.
39.72	The center $\frac{1}{4}$ sec. cor. of sec. 12.
53.95	Arroyo, 30 lks. wide, 15 ft. deep, course S.
59.525	Point for the center W. 1/16 sec. cor. of sec. 12.
73.27	Power line, bears approximately N. 20° W. and S. 20° E.
79.33	The $\frac{1}{4}$ sec. cor. of secs. 11 and 12.
	Land, hilly and rolling. Soil, sandy clay and loam, and rocky. Timber, juniper and pinon; undergrowth, scrub oak.

The smaller legal subdivisions of the S. half of sec. 12, which were required to establish the boundaries of Tract C, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tract. The corners of the subdivision were not monumented except for those corners which are angle points of the tract.

U. S. GOVERNMENT PRINTING OFFICE 6—3155

Survey of Tract C.

Chains	
	Beginning at the point for Angle Point 1 of Tract C, at the intersection of the south line of U. S. Highway No. 89-A right-of-way and the S-S-S 1/256 sec. line, at a point which bears N. 89° 39' W., 4.68 chs. dist. from the C-S-S-SE 1/256 cor. of sec. 12.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
	AP 1 TR C S 12 T17N R5E 1949
	N. 81° 10' W., on N. bdy. of Tract C and along the S. line of the highway right-of-way.
42.12	Point for Angle Point 2 of Tract C.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd.
	AP 2 TR C 1949
	N. 82° 52' W., continuing along S. line of highway right-of-way.
2.605	Point for Angle Point 3 of Tract C, at the intersection of the S. line of the highway right-of-way and the W-W 1/64 sec. line.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T17N R5 E S 12 | AP 3 TR C 1949
	S. 0° 08' W., on W. bdy. of Tract C, and along the W-W 1/64 sec. line.
1.58	Point for the SW-SW 1/64 sec. cor. of sec. 12, designated as Angle Point 4 of Tract C.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd.
	S12 SW-SW 1/64 1949
	S. 89° 41' E., along the S-S 1/64 sec. line.
4.896	Point for the C-E-SW-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 5 of Tract C.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd.
	S12 C-E-SW-SW 1/256 1949

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract C.

Chains	
	S. 0° 14' W., along the E-W-W 1/256 sec. line.
9.882	The E-W-W 1/256 sec. cor. of secs. 12 and 13, designated as Angle Point 6 of Tract C.
	S. 89° 37' E., on S. bdy. of Tract C, and along the line bet. secs. 12 and 13.
14.635	The E-W 1/64 sec. cor. of secs. 12 and 13, designated as Angle Point 7 of Tract C.
	N. 0° 32' E., along the E-W 1/64 sec. line.
4.95	Point for the C-S-SE-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 8 of Tract C.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd. S12 C-S-SE-SW 1/256 1949
	S. 89° 39' E., along the S-S-S 1/256 sec. line.
9.791	Point for the center S-S-S 1/256 sec. cor. of sec. 12.
24.68	Angle point 1 of Tract C and point of beginning.
	Area of Tract C: 19.38 acres.

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U. S. GOVERNMENT PRINTING OFFICE 6—8155

4-680
(August 1947)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
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U. S. Forest Service Employees	
Benton C. Rogers	Flagman
Roe N. Smith	Chainman
Robert F. Legg	Axeman
Gayle T. Payne	Axeman

16—53565-1

16

CERTIFICATE OF CADASTRAL ENGINEER

I, Everett H. Kimmell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of June, 1949, I have ~~surveyed~~ dependently resurveyed a portion of the East Boundary and subdivisional lines, and surveyed subdivisional lines and Tract C in Section 12, T. 17 N., R. 5 E., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Albuquerque, New Mexico,
April 13, 1950.

Everett H. Kimmell
Everett H. Kimmell,
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., OCT 16 1950, *19*

The foregoing field notes of the ~~survey of~~ dependent resurvey of a portion of the East Boundary and subdivisional lines, and the survey of subdivisional lines and Tract C in Section 12, T. 17 N., R. 5 E., of the Gila and Salt River Meridian, in the State of Arizona,

executed by Everett H. Kimmell, Cadastral Engineer,

having been critically examined and found correct, are hereby approved.

~~*Chief, Branch of Engineering and Construction.*~~
Chief, Division
of Cadastral Engineering.

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in ..... , is a true copy of the original field notes.~~

~~*Chief, Branch of Engineering and Construction.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-1

TRANSCRIBED COPY OF
ORIGINAL FIELD NOTES

Survey of Tract B, Sec. 12, T. 17 N., R. 5 E.

Chains	
	Township 17 North, Range 5 East, of the Gila and Salt River Meridian, Arizona, is located within the Coconino National Forest and the survey of Tract B in section 12, was initiated on the official request of the U. S. Forest Service to accommodate the exchange of lands. The east boundary of section 12 was originally surveyed by J. C. Smith in 1855: the north, south, and west boundaries were originally surveyed by W. O. Secor in 1902. The boundaries of section 12 were dependently resurveyed and the center lines of the section were surveyed in October, 1949 in connection with the survey of Tract C. The survey of Tract B was executed with Gurley solar transit, Serial No. 49657. A description of this instrument and notes for the determination of azimuth are included in the field notes of the survey of Tract C.
	The smaller legal subdivisions of the $SW\frac{1}{4}$ of Sec. 12, which were required to establish the boundaries of Tract B, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tract. Only those subdivisional corners which are angle points of the tract boundaries were monumented.
	At the point for the C-E-E-SW 1/256 sec. cor., designated as Angle Point 1 of Tract B, Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd. S 12 C-E-E-SW 1/256 1949 from which A pinon, 12 ins. diam., bears N. 64° E., 101 lks. dist., mkd. BT. A pinon, 10 ins. diam., bears S. 78° W., 40 lks. dist., mkd. C-E-E-SW 1/256 BT. Point for the Center - South 1/16 sec. cor. bears S. 89° 46' E., 4.912 chs. dist. N. 89° 46' W., on N. bdy. of Tract B, and along The S. 1/16 sec. line.
9.53	Arroyo, 20 lks. wide, 12 ft. deep, drains S.
14.736	Point for the SW. 1/16 sec. cor. of sec. 12.
17.09	SE: corner of a house, about 36 x 20 ft., 8 lks. N. of line.
24.56	Point for the C-W-SW 1/64 sec. cor. of sec. 12, at mid-point between the SW. 1/16 sec. cor. and the S. 1/16 sec. cor. of secs. 11 and 12, designated as Angle Point 2 of Tract B. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. S 12 C-W-SW 1/64 1949 from which

TRANSCRIBED COPY OF ORIGINAL FIELD NOTES

Survey of Tract B, Sec. 12, T. 17 N., R. 5 E.

Chains	
	A juniper, 18 ins. diam., bears S. 89° 45' E., 45 lks. dist., mkd. BT.
	A juniper, 12 ins. diam., bears S. 8° 15' W., 55 lks. dist., mkd. BT.
	SW. corner of R. C. Payne's house, 26 x 24 ft., bears S. 79° 17' E., 122 lks. dist. This house is on the S. 1/16 sec. line.
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of corner.
	The S. 1/16 sec. cor. of secs. 11 and 12 bears N. 89° 46' W., 9.824 chs. dist.
	S. 0° 08' W., on the W. bdy. of Tract B, and along the W-W 1/64 sec. line.
7.30	Center of U. S. Highway No. 89-A, on curve bearing S. of E. and N. of W.
8.298	Point for Angle Point 3 of Tract B, at Angle Point 3 of Tract C, on the S. line of the highway right-of-way, monumented by an iron post, 3 ft. long, 1 in. diam., set and marked as described in the field notes of the survey of Tract C, with brass cap now mkd.

TR B
T17N | AP 3
R 5 E
S 12 | AP 3
TR C

1949

	S. 81° 52' E., bet Tracts B and C,
2.605	Point for Angle Point 4 of Tract B, on S. line of highway right-of-way, at Angle Point 2 of Tract C, monumented by an iron post, 3 ft. long, 1 in. diam., set and marked as described in the field notes of the survey of Tract C, with brass cap now marked

TR B
AP 4

AP 2
TR C

1949

	S. 81° 10' E., bet. Tracts B and C, and along S. line of highway right-of-way.
22.135	Point for Angle Point 5 of Tract B, on N. bdy. of Tract C and on the E-E-W 1/256 sec. line.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

TR B
AP 5

TR C

1949

	N. 0° 39' E., on E. bdy. of Tract B and along the E-E-W 1/256 sec. line.
1.01	Center of U. S. Highway No. 89-A, bears N. 81° 10' W., and S. 81° 10' E.
11.922	Angle Point 1 of Tract B and point of beginning.
	Area of Tract B: 24.70 acres.

22

CERTIFICATE OF CADASTRAL ENGINEER

I, Everett H. Kimmell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of October, 1949, I have surveyed the boundaries of Tract B, in Section 12, T. 17 N., R. 5 E.,

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Albuquerque, New Mexico
February 25, 1952.

Everett H. Kimmell
Everett H. Kimmell
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., MAY 19 1952, *19*

The foregoing field notes of the survey of the boundaries of Tract B, in Section 12, T. 17 N., R. 5 E., of the Gila and Salt River Meridian, in the State of Arizona,

executed by Everett H. Kimmell

having been critically examined and found correct, are hereby approved.

Earl G. Harrington
Chief, Division of Cadastral Engineering.

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~

~~, is a true copy of the original field notes.~~

~~*Chief, Division of Cadastral Engineering.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-2

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Clarence E. Bilbray	Engineering Aide
U. S. Forest Service Employees	
Benton C. Rogers	Flagman
Roe N. Smith	Chainman
Robert F. Legg	Axeman
Gayle T. Payne	Axeman

16—53565-2

Survey of Tract B, Sec. 12, T. 17 N., R. 5 E.

Chains	
	A juniper, 18 ins. diam., bears S. 89° 45' E., 45 lks. dist., mkd. BT.
	A juniper, 12 ins. diam., bears S. 8° 15' W., 55 lks. dist., mkd. BT.
	SW. corner of R. C. Payne's house, 26 x 24 ft., bears S. 79° 17' E., 122 lks. dist. This house is on the S. 1/16 sec. line.
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of corner.
	The S. 1/16 sec. cor. of secs. 11 and 12 bears N. 89° 46' W., 9.824 chs. dist.
	S. 0° 08' W., on the W. bdy. of Tract B, and along the W-W 1/64 sec. line.
7.30	Center of U. S. Highway No. 89-A, on curve bearing S. of E. and N. of W.
8.298	Point for Angle Point 3 of Tract B, at Angle Point 3 of Tract C, on the S. line of the highway right-of-way, monumented by an iron post, 3 ft. long, 1 in. diam., set and marked as described in the field notes of the survey of Tract C, with brass cap now mkd.

TR B
T17N | AP 3
R5E
S 12 | AP 3
TR C

1949

	S. 82° 52' E., bet. Tracts B and C,
2.605	Point for Angle Point 4 of Tract B, on S. line of highway right-of-way, at Angle Point 2 of Tract C, monumented by an iron post, 3 ft. long, 1 in. diam., set and marked as described in the field notes of the survey of Tract C, with brass cap now marked

TR B
AP 4

AP 2
TR C

1949

	S. 81° 10' E., bet. Tracts B and C, and along S. line of highway right-of-way.
22.135	Point for Angle Point 5 of Tract B, on N. bdy. of Tract C and on the E-E-W 1/256 sec. line.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

TR B
AP 5

TR C

1949

	N. 0° 39' E., on E. bdy. of Tract B and along the E-E-W 1/256 sec. line.
1.01	Center of U. S. Highway No. 89-A, bears N. 81° 10' W., and S. 81° 10' E.
11.922	Angle Point 1 of Tract B and point of beginning.
	Area of Tract B: 24.70 acres.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract B, Sec. 12, T. 17 N., R. 5 E.

Chains

Township 17 North, Range 5 East, of the Gila and Salt River Meridian, Arizona, is located within the Coconino National Forest and the survey of Tract B in section 12, was initiated on the official request of the U. S. Forest Service to accommodate the exchange of lands.

The east boundary of section 12 was originally surveyed by J. C. Smith in 1855; the north, south, and west boundaries were originally surveyed by W. O. Secor in 1902.

The boundaries of section 12 were dependently resurveyed and the center lines of the section were surveyed in October, 1949 in connection with the survey of Tract C.

The survey of Tract B was executed with Gurley solar transit, Serial No. 49657. A description of this instrument and notes for the determination of azimuth are included in the field notes of the survey of Tract C.

The smaller legal subdivisions of the SW$\frac{1}{4}$ of Sec. 12, which were required to establish the boundaries of Tract B, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tract. Only those subdivisional corners which are angle points of the tract boundaries were monumented.

At the point for the C-E-E-SW 1/256 sec. cor., designated as Angle Point 1 of Tract B,

Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

S 12
C-E-E-SW
1/256

1949

from which

A pinon, 12 ins. diam., bears N. 64° E., 101 lks. dist., mkd. BT.

A pinon, 10 ins. diam., bears S. 78° W., 40 lks. dist., mkd. C-E-E-SW 1/256 BT.

Point for the Center - South 1/16 sec. cor. bears S. 89° 46' E., 4.912 chs. dist.

N. 89° 46' W., on N. bdy. of Tract B, and along The S. 1/16 sec. line.

9.53 Arroyo, 20 lks. wide, 12 ft. deep, drains S.

14.736 Point for the SW. 1/16 sec. cor. of sec. 12.

17.09 SE. corner of a house, about 36 x 20 ft., 8 lks. N. of line.

24.56 Point for the C-W-SW 1/64 sec. cor. of sec. 12, at mid-point between the SW. 1/16 sec. cor. and the S. 1/16 sec. cor. of secs. 11 and 12, designated as Angle Point 2 of Tract B.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

S 12
C-W-SW
1/64

1949

from which

U. S. GOVERNMENT PRINTING OFFICE 6—8155

INDEX DIAGRAM

Township ....., *Range* .....

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16—56770-1

4—679
(September 1948)

Original

17

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
U. S. LAND OFFICE
Phoenix, Arizona
JUL 28 1952

FIELD NOTES

Of the Survey of Tract B, in Section 12,

Township 17 North, Range 5 East

(Exchange Survey No. 678)

Of the Gila and Salt River *Meridian,*

In the State of Arizona

EXECUTED BY

Everett H. Kimmell, Cadastral Engineer

Under special instructions dated October 20, *19* 49, *which provided for the surveys included under* Exchange Survey ~~Group~~ *No.* 678, *approved* February 6, 1952 *and assignment instructions dated* October 18, *19* 49.

Survey commenced November 3, *19* 49.

Survey completed November 4, *19* 49.

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO :

DATE:

FROM :

SUBJECT:

For Field Notes of HES 678, see Index Card of
T. 17 N., R. 5 E., Book No. 4392, Land Surveys.

M. Sackman

Arizona State Office
Post Office Building
Phoenix, Arizona

July 12, 1954

Memorandum

To: Cadastral Engineering Officer, Area 2

From: Office Cadastral Engineer, Phoenix

Subject: Exchange Survey No. 678

I have just learned that this office does not have the original Field Notes of the Survey of Tract C, in Section 12, T. 17 N., R. 5 E., nor is there a copy of said notes.

We do have the original and a photostat copy of the notes for Tract B of the same survey.

Will you please check the file of field notes sent you from Albuquerque and if you find the original notes for Tract C, mail them to me. If the original is not there, please make a photostat of the copy which should be in your file.

If you do not have a copy of the notes for Tract B, I will mail you the copy which we have. This was photostated after approval.

E. H. Kimmell
Office Cadastral Engineer

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Office Cadastral Engineer E. H. Kimmell
Through BLM Supervisor for Arizona

DATE: July 15, 1954

FROM : Cadastral Engineering Staff Officer

SUBJECT: Exchange Survey No. 678, Arizona

I have your memorandum of July 12, 1954, concerning missing data on the above Exchange Survey.

We intend going into the Arizona files in our possession some time next week. At that time we will make a search for the notes of Tract C which you state is missing from the files of your office.

The delay in sorting and arranging the Arizona files which reached us some time ago is due to the moving of records to new locations in Salt Lake City. These records for Arizona are due to reach their more or less permanent resting place tomorrow and then I will have Horace Parker go through them.

Leo M. Petersen
Cadastral Engineering
Staff Officer

DATE ROUTED 7/19 INIT'S FOR:
STATE SUPV.
ADM. ASST.
FOR. & FOR.
LANDS & MIN.
LAND OFFICE
CAD. ENGR.
GRAZ. DIST.
RETURN TO
ACTION
COMMENTS
INFORM

L
Acq. - Coconino

deVos

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

102 U.S.Court House
Phoenix, Arizona

July 29, 1952

Memorandum

To: Glenn R. Haste, Regional Chief, Div. of Engineering

From: Land and Survey Office, Phoenix,

Subject: Plat Distribution

Under separate cover we are mailing one copy of plat of Exchange Survey No. 678, Tract B, in T. 17 N., R. 5 E.

Thos. F. Britt, Manager

By M. Sackman

Plotted 7-31-52

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Division of Engineering
P. O. Box 1695
Albuquerque, New Mexico

E:
ENGINEERING 9-2
Group 678 Ariz.

March 19, 1952

Memorandum

To: The Director - Attn: Chief, Branch of Surveys, Washington, D.C.

From: Regional Chief, Division of Cadastral Engineering, Reg. V

Subject: Exchange Survey No. 678 Arizona (App. Ariz. 01917)
Transmittal of Plat and Field Notes.

In accordance with your memorandum dated February 6, 1952 (E:58462) we are transmitting herewith the plat, and field notes in triplicate, for Forest Service Exchange Survey No. 678 Arizona, Tract B, for approval and acceptance.

The triplicate copy of the field notes has been prepared for delivery to the U.S. Forest Service.

For the Regional Administrator.

Glenn R. Haste

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

Accepted: MAY 19 1952 1952

For the Director
(SGD) WILLIAM H. RICHARDS

Chief, Branch of Surveys

cc: Regional U.S.Forester, Albuquerque: Attn. Lands Div.
Reg.Admin. Reg.V, (ASBaker) Albuquerque
Reg.Chief, Div. Cad. Engr., Reg.V "
Mgr. LASO, Phoenix, Ariz.

BUREAU OF LAND MANAGEMENT
RECEIVED
MAY 26 1952
REGION V
ALBUQUERQUE, NEW MEXICO

E:
ENGINEERING 9-2
FS Exch.Sur.
No. 678 Ariz.

Division of Engineering
P. O. Box 1695
Albuquerque, New Mexico

July 25, 1952

Mr. C. Otto Lindh
Regional Forester
U. S. Forest Service
510 N. Second St.,
Albuquerque, New Mexico.

Re: L-Acquisition
Sitgreaves-Kaibab-Coconino

Dear Mr. Lindh:

We have today received advice from our Washington office, dated July 21, 1952, stating that the original plat of Exchange Survey No. 678, Tract B, in Sec. 12, T. 17 N., R. 5 E., G&SRM Ariz., was being forwarded to our Land and Survey Office at Phoenix for official filing.

The letter from Washington carries an indication that a copy of it was sent to your office.

We enclose herewith a triplicate copy of the field notes of this survey, and you should receive a copy of the plat from our Phoenix office very shortly.

Very truly yours,

For the Regional Administrator.

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

cc: Manager
Land & Survey Office
Phoenix, Arizona.

Mr. Britt:

Herewith the original copy of the field notes on this survey, to be filed with the Public Survey records.

GRH

UNITED STATES
DEPARTMENT OF THE INTERIOR

OFFICIAL BUSINESS
BUREAU OF LAND MANAGEMENT
WASHINGTON 25, D. C.

WASHINGTON, D. C.
MAY 15
1030PM
1952

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

BUILD YOUR FUTURE
WISELY - SAFELY
U.S. SAVINGS BONDS

Insufficient address.
Directory service discontinued.
Place under new cover if
remailed.

Regional Chief,
Cadastral Engineering
Albuquerque, New Mexico

RETURN
TO
WRITER
UNCLAIMED

ALBUQUERQUE, N. MEX.
MAY 19
2 PM
1952

IN REPLY REFER TO:

E: 58462
Arizona 01917

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON 25, D. C.

July 21, 1952

Memorandum

To: Regional Administrator Region V

From: Chief, Branch of Surveys

Subject: Plat distribution--Exchange Survey No. 678B Arizona

By registered mail to the Land and Survey Office at Phoenix the original plat, together with several copies of Exchange Survey No. 678, Tract B, in sec. 12, T. 17 N., R. 5 E., G.& S.R.M., Arizona, accepted May 19, 1952, is being forwarded for the Survey Office files and the triplicate original plat for the Land Office.

This survey was made to accommodate a selection of lands under Forest Exchange application Arizona 01917.

The triplicate original plat will be regarded as officially filed in the land office on the date of receipt thereof. An immediate report of such date will be made to the Director. The original plat will be placed in the open files of the survey office (see Circular 1715, approved December 23, 1948).

A copy of this memorandum is being sent to the above office.

William F. Pickards

Chief, Branch of Surveys

cc: L&SO (Phoenix)
ARL
LUD
Forest Service

JUL 1952
RECEIVED
Bureau of Land Management
Cadastral Engineering
Region V
Albuquerque

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Division of Engineering
P. O. Box 1695
Albuquerque, New Mexico

E:
ENGINEERING 9-2
Group 678 Ariz.

March 19, 1952

Memorandum

To: The Director - Attn: Chief, Branch of Surveys, Washington, D.C.

From: Regional Chief, Division of Cadastral Engineering, Reg. V

Subject: Exchange Survey No. 678 Arizona (App. Ariz. 01917)
Transmittal of Plat and Field Notes.

In accordance with your memorandum dated February 6, 1952 (E:58462) we are transmitting herewith the plat, and field notes in triplicate, for Forest Service Exchange Survey No. 678 Arizona, Tract B, for approval and acceptance.

The triplicate copy of the field notes has been prepared for delivery to the U.S. Forest Service.

For the Regional Administrator.

Glenn R. Haste

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

Accepted: MAY 19 1952 1952

For the Director

(SGD) WILLIAM H. RICHARDS

Chief, Branch of Surveys

cc: Regional U.S.Forester, Albuquerque: Attn. Lands Div.
Reg.Admin. Reg.V, (ASBaker) Albuquerque
Reg.Chief, Div. Cad. Engr., Reg.V "
Mgr. LASO, Phoenix, Ariz.

BUREAU OF LAND MANAGEMENT
RECEIVED
MAY 26 1952
REGION V
ALBUQUERQUE, NEW MEXICO

IN REPLY REFER TO:

E: 58462
Arizona 01917

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON 25, D. C.

February 6, 1952

Memorandum

To: Regional Chief, Division of Cadastral Engineering, Reg. V, Albuquerque, New Mexico

From: Chief, Branch of Surveys

Subject: Exchange Survey No. 678 Arizona

Reference is had to Exchange Survey No. 678 in sec. 12, T. 17 N., R. 5 E., G.& S.R.M., Arizona, which was accepted October 16, 1950 as to Tract C; the returns of the survey having been revised to eliminate Tracts A and B from the acceptance. This was made necessary since the survey combines several forest exchange applications and the only one that had been approved at the time of the acceptance of the survey was application Phoenix 085894 of Kenneth M. de Vos and Mary Alice de Vos involving lands embraced in Tract C.

Subsequently, on May 31, 1951, forest exchange application Arizona 01917 of Otto P. and Zelda L. Hallermund embracing lands in Tract B was approved by this office. We are, therefore, requesting that the returns of the exchange survey as to said tract be submitted to this office for examination and acceptance.

E. R. S.
F. E. Mc
K. C. B.
J. C. T.
W. B.
J. L. L.
G. R. H.

Date 2/11
For;
Info.
cc: LUD
Review
Comment
Action

William A. Richards
Chief, Branch of Surveys

BUREAU OF LAND MANAGEMENT RECEIVED FEB 11 1952 REGION V ALBUQUERQUE, NEW MEX.

FEB 1952 RECEIVED Bureau of Land Management Cadastral Engineering Region V, Albuquerque

IN REPLY REFER TO:
Arizona 01917 LUD:EKS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON 25, D. C.

Hon. Carl Hayden
United States Senate
Washington 25, D. C.

MAY 15 1952

My dear Senator Hayden:

I have your letter of May 6, inquiring as to the status of forest exchange application filed by Otto F. and Zelda Hallermund, Arizona 01917.

While this exchange has been approved for patent the lands selected cannot be described by legal subdivisions of the survey. Consequently Exchange Survey No. 678 has been submitted by the Regional Chief, Division of Cadastral Engineering, Albuquerque, New Mexico, which embraced Tracts A, B and C. The selected lands are included in Tract B. However, before acceptance of the survey, the returns were revised to include only Tract C. A request has, therefore, been made to the Regional Chief that the returns of the Exchange Survey as to Tract B be submitted to this Office for examination and acceptance. As soon as the same is received we will endeavor to process the case as expeditiously as possible.

Sincerely yours,

(Sgd) William Pincus

Assistant Director

E. R. S
F. L. Mc
Ed P
A S B.
R. D
R. F. B.
H. T. T.
W.H.B.
L. W. P
G. H. W.
J. E. B.
C. F. D
E. C. S
F. L. L.
C. H.

Date 5/26
For;
Info.
Review
Comment
Action

BUREAU OF LAND MANAGEMENT
RECEIVED
MAY 26 1952
ALBUQUERQUE

E:GRH
SURVEYS
Cadastral
Exchange Survey
678 Arizona

Division of Engineering
1009 W. Tijeras Ave.
Albuquerque, New Mexico

April 25, 1950

Memorandum

To: The Director, - Attention: Chief, Branch of Surveys

From: Regional Chief, Division of Cadastral Engineering, Reg.V.

Subject: Transmittal of Plat and Field Notes,
Exchange Survey 678, Arizona.

In accordance with your memorandum dated April 5, 1950 we are transmitting herewith the revised plat, and field notes in triplicate, for Forest Service Exchange Survey No. 678, Arizona, Tract C.

We assume that we will be advised when to prepare the plat and field notes for Tracts A and B in Sec. 12, T. 17 N., R. 5 E.

For the Regional Administrator

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

Accepted: OCT 16 1950 1950

For the Director
(SGD) WILLIAM H. RICHARDS

Chief, Branch of Surveys

cc: Regional Forester, Albuquerque, Attn: Lands Div.
Regional Administrator, Reg. V.
Reg. Chief, Div. of Engr., Reg.V.
Cadastral Engineer, Phoenix, Ariz.

Dear Glenn:
I presume the duplicate field notes are for the Forest Service at Albuquerque. One sending them to you and will you see that they are taken care of.
R.C.C.

E:GRH
SURVEYS
Cadastral
Exchange Survey
678 Arizona

Division of Engineering
1009 N. Tijeras Ave.
Albuquerque, New Mexico

April 25, 1950

Memorandum

To: The Director, - Attention: Chief, Branch of Surveys

From: Regional Chief, Division of Cadastral Engineering, Reg.V.

Subject: Transmittal of Plat and Field Notes,
Exchange Survey 678, Arizona.

In accordance with your memorandum dated April 5, 1950 we are transmitting herewith the revised plat, and field notes in triplicate, for Forest Service Exchange Survey No. 678, Arizona, Tract C.

We assume that we will be advised when to prepare the plat and field notes for Tracts A and B in Sec. 12, T. 17 N., R. 5 E.

For the Regional Administrator

Glenn H. Hasto
Regional Chief, Division
of Cadastral Engineering

Received May 2 1950

For the Director

Raymond C. Morrison

~~Chief, Branch of Surveys~~ "E"
Administrative Officer.

RsCHH
SURVEYS
Cadastral
Exchange Survey
678 Arizona

Division of Engineering
1009 N. Tijeras Ave.
Albuquerque, New Mexico

April 25, 1950

Memorandum

To: The Director, - Attention: Chief, Branch of Surveys

From: Regional Chief, Division of Cadastral Engineering, Reg.V.

Subject: Transmittal of Plat and Field Notes,
Exchange Survey 678, Arizona.

In accordance with your memorandum dated April 5, 1950 we are transmitting herewith the revised plat, and field notes in triplicate, for Forest Service Exchange Survey No. 678, Arizona, Tract C.

We assume that we will be advised when to prepare the plat and field notes for Tracts A and B in Sec. 12, T. 17 N., R. 5 E.

For the Regional Administrator

Glenn R. Hoobs
Regional Chief, Division
of Cadastral Engineering

Accepted: _____ 1950

For the Director

_____
Chief, Branch of Surveys

cc: Regional Forester, Albuquerque, Attn: Lands Div.
Regional Administrator, Reg. V.
Reg. Chief, Div. of Engr., Reg.V.
Cadastral Engineer, Phoenix, Ariz.

cc: Regional Administrator

E. R. S.
T. L. Mc
K. P.
S. B.
D.
P. E.
H. M. S.
L. P. K.
H. W. P.
G. H. W.
F. A. S.
C. E. D.
S. C. S.
H. L. L.
G. B. H.

Date 4/10

For

Review

Comment

Action

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON 25, D. C.

IN REPLY REFER TO:
E-SURVEYS
Cadastral
Exchange Survey
678 Arizona

April 5, 1950

Memorandum

To: Regional Administrator, Albuquerque, New Mexico
Attention: Regional Chief, Division of Cadastral Engineering

From: Chief, Branch of Surveys

Subject: Revision of returns of Exchange Survey No. 678 in T. 17 N., R. 5 E., G.& S.R.M., Arizona

Reference is made to your memorandum of November 30, 1949, transmitting the returns of Forest Exchange Survey No. 678 in T. 17 N., R. 5 E., G.& S.R.M., Arizona.

The group record shows that original special instructions dated June 27, 1949, approved July 7, 1949, provided for the survey of lands in sec. 12, T. 17 N., R. 5 E., G.& S.R.M., Arizona, south of U.S. Highway No. 89A described in B.L.M. decision 52104 ADL:GHG. Supplemental special instructions dated October 20, 1949, to include additional lands in sec. 12 of the above-named township were submitted October 24. However, it developed that when the matter was called to the attention of the Forest Service here, the latter informed this Bureau that the additional lands north of U. S. Highway No. 89A had not been approved for exchange and that they did not desire the survey. In view of the foregoing, the supplemental special instructions were returned to you unapproved.

When the returns of Exchange Survey No. 678 showing Tracts A and B north of the south line of U.S. Highway 89A were received, the matter was again taken up with representatives of the Forest Service. They now advise that unapproved exchange applications have been received for the two tracts north of the highway. However, it will be impossible to accept the plat showing the latter tracts until the exchange just referred to has been approved.

The Forest Service has indicated its desire to complete the Tract C exchange at the earliest possible date and has requested that this survey be handled separately. Accordingly, it is proposed to eliminate Tracts A and B and to prepare the plats and field notes of Tract C only.

Attention is called to the fact that in Tract C, as now surveyed, there are two small tracts, namely, those parts of N½SE¼SW¼SE¼, S½NE¼SW¼SW¼ and S½NW¼SE¼SW¼ lying south of Highway No. 89A, which are

not described in the approved application (see enclosed diagram). However, the applicant has expressed a desire to amend his application to include these small tracts and the Forest Service has agreed informally to such amendment.

Acceptance of the survey of Tract C will be withheld until the amended application for the lands included therein has been approved and the exchange has been re-advertised.

If and when the exchange application for Tracts A and B have been approved, the plat and field notes representing these surveys can be prepared and forwarded for acceptance.

The plat and field notes of Exchange Survey No. 678 are being returned under separate cover by registered mail.

William F. Richards

Chief, Branch of Surveys

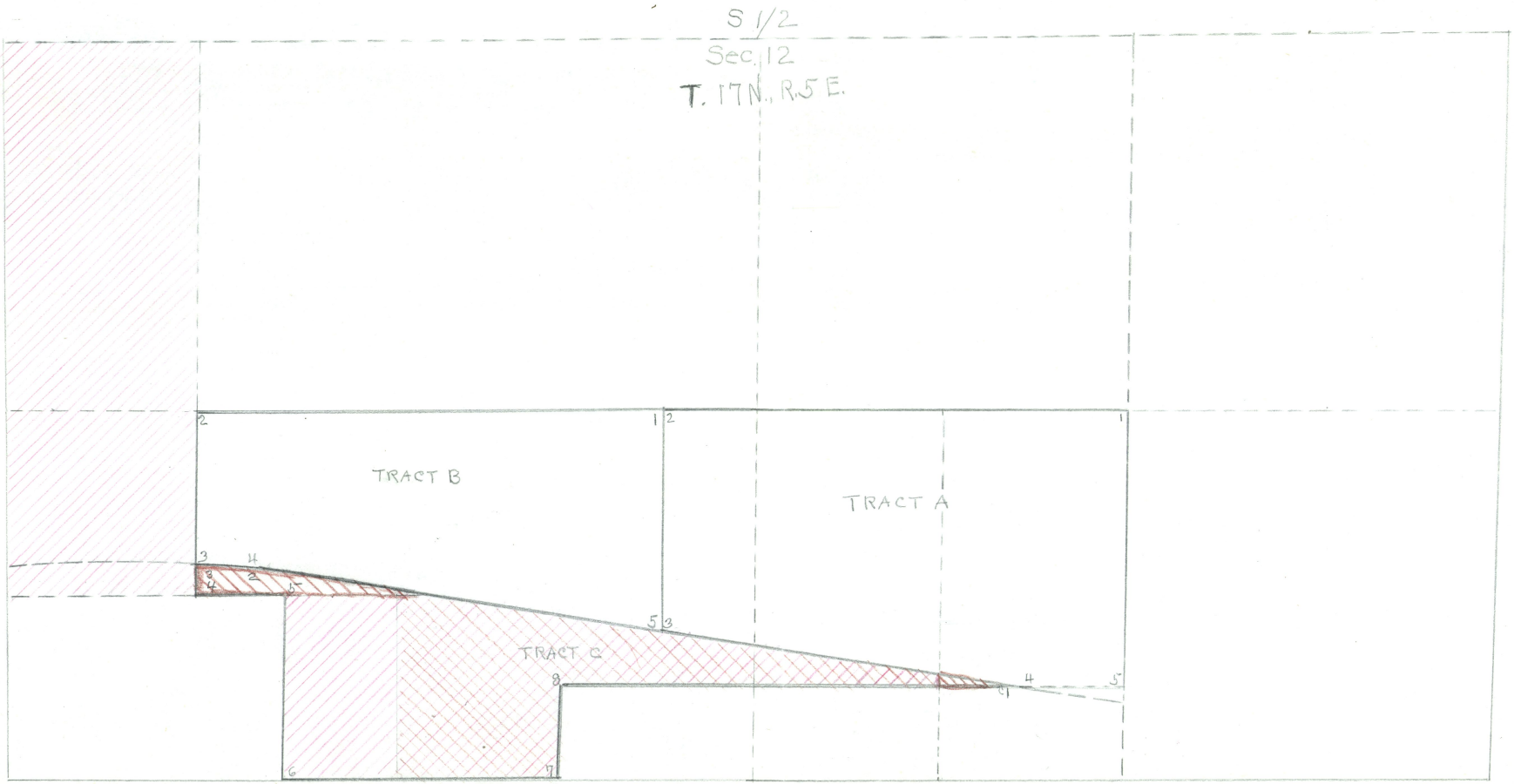
cc: Forest Service

Enclosure

BUREAU OF LAND MANAGEMENT
RECEIVED
APR 10 1950
ALBUQUERQUE, NEW MEXICO

Selected lands - as advertized

Lands included in Tract C. - Not included in Selection as advertized - will be included in amended selection + readvertised.



Division of Engineering
1009 N. Tijeras Ave.
Albuquerque, New Mexico

E
Cooperation
Forest Service
Exchange Survey
No. 678 - Ariz.

November 30, 1949

MEMORANDUM

To: Director, Bureau of Land Management,

From: Regional Administrator, Region V.

Subject: Transmittal of Plat and Field Notes,
Exchange Survey No. 678, Arizona.

I am today forwarding to you under separate cover the plat, and transcript of field notes in triplicate, on Forest Exchange Survey No. 678, Arizona, in Section 12, Township 17 North, Range 5 East, G. & S. R. Meridian, Arizona.

For the Regional Administrator

Glenn R. Hasto,
Regional Chief, Division
of Engineering.

Accepted _____ 1949

For the Director

_____
Chief, Branch of Surveys

cc: Regional Forester, Albuquerque, N.M.
Regional Administrator, Region V., Albuquerque
Regional Chief, Div. of Engr., Region V.
Frank W. Chapin, Cadastral Engineer, Phoenix

cc: Frank W. Chapin,
Cadastral Engineer,
Phoenix, Ariz.

IN REPLY REFER TO:

E-GROUP SURVEYS
Exchange
Survey 678
Arizona
54908

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
For; WASHINGTON 25, D. C.

S
Mc
A S B.
K. D
E. F. B.
H. M. S
L. B. K.
H. W. P
G. H. W.
I. A. S.
C. H. D
S. C. S
H. L. L.
Memorandum GRH

Info.
Review
Comment
Action

February 10, 1950

To: Regional Administrator, Albuquerque, New Mexico

From: Chief, Branch of Surveys

Subject: Supplemental special instructions

Reference is had to your memorandum of October 24, 1949 submitting supplemental special instructions for Exchange Survey No. 678 Arizona to include additional lands in sec. 12, T. 17 N., R. 5 E., G.& S.R.M., Arizona, for survey not provided for by the original special instructions dated June 20, 1949 and approved July 7, 1949.

According to the diagram accompanying the supplemental instructions, the lands to be surveyed are the $S\frac{1}{2}NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$ and $N\frac{1}{2}SW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$ as one tract; the $E\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}SE\frac{1}{4}$ and $N\frac{1}{2}SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$ as a second tract; and the $NE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$, $NW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$ and $W\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$ as the third tract; all lying to the north of U.S. Highway 89a right-of-way.

Since these lands have not been approved for exchange under the pending application and the Forest Service has advised us that they are not interested in the survey of these lands, the supplemental special instructions are returned to you herewith unapproved.

William H. Pechanec

Chief, Branch of Surveys

Enclosures
cc: SO (Phoenix)
ADL
Forest Service

BUREAU OF LAND MANAGEMENT
ALBUQUERQUE, NEW MEXICO
FEB 17 1950

(Copy)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIVISION OF ENGINEERING
103 U.S.Court House
Phoenix, Arizona

October 20,1949

SUPPLEMENTAL SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 678

Township 17 North, Range 5 East,
Gila and Salt River Meridian.

The original instructions for this survey were dated June 20, 1949, and provided for the survey of the one tract south of the highway. It is now desired to include three additional tracts in the survey.

The tracts are located as shown on the accompanying diagram, and will be designated by the letters A to D., inclusive.

The necessary additional subdivision-of-section lines will be surveyed. All 1/16 section corners on the south half of section 12, will be monumented.

All angle points of each tract will be monumented, and numbered consecutively. The corner monuments will be marked with the Survey number, Tract designation and Corner number.

The Tracts will be described by metes-and-bounds survey, beginning with Corner No.1.

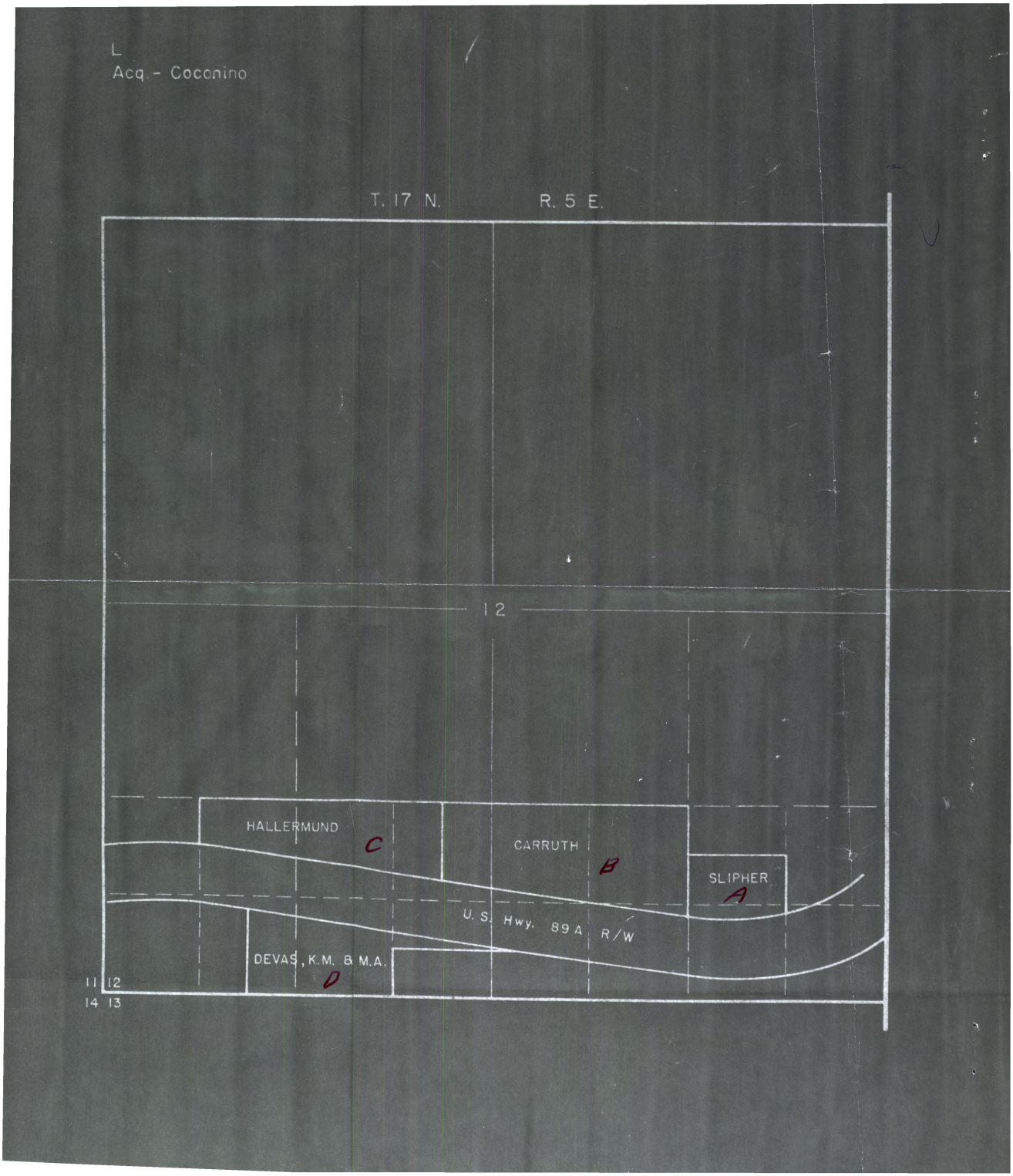
Reference will also be made to the original instructions where applicable.

Frank N. Chapin
Office Cadastral Engineer

Approved: _____

BUREAU OF LAND MANAGEMENT
ALBUQUERQUE, NEW MEXICO
FEB 17 1950

L
Acq. - Coconino



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
[illegible]
P. O. Box 1695
Albuquerque, New Mexico

E:
[illegible] 9-2
Group 678 Ariz.

March 19, 1952

Memorandum

To: The Director - Attn: Chief, Branch of Surveys, Washington, D.C.

From: Regional Chief, Division of Cadastral Engineering, Reg. V

Subject: Exchange Survey No. 678 Arizona (App. Ariz. 01917)
Transmittal of Plat and Field Notes.

In accordance with your memorandum dated February 6, 1952 (E:58462) we are transmitting herewith the plat, and field notes in triplicate, for Forest Service Exchange Survey No. 678 Arizona, Tract B, for approval and acceptance.

The triplicate copy of the field notes has been prepared for delivery to the U.S. Forest Service.

For the Regional Administrator.

Glenn R. Haste

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

Received: 3/31/1952

~~For the Director~~

R. C. Morrison

~~Chief, Branch of Surveys~~
Admin. Officer "E"

BUREAU OF LAND MANAGEMENT
APR 4 - 1952

E:
ENGINEERING 9-2
Group 678 Ariz.

Division of Engineering
P. O. Box 1695
Albuquerque, New Mexico

March 19, 1952

Memorandum

To: The Director - Attn: Chief, Branch of Surveys, Washington, D.C.

From: Regional Chief, Division of Cadastral Engineering, Reg. V

Subject: Exchange Survey No. 678 Arizona (App. Ariz. 01917)
Transmittal of Plat and Field Notes.

In accordance with your memorandum dated February 6, 1952 (E:58462) we are transmitting herewith the plat, and field notes in triplicate, for Forest Service Exchange Survey No. 678 Arizona, Tract B, for approval and acceptance.

The triplicate copy of the field notes has been prepared for delivery to the U.S. Forest Service.

For the Regional Administrator.

Glenn R. Haste

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

Accepted:_____1952

For the Director

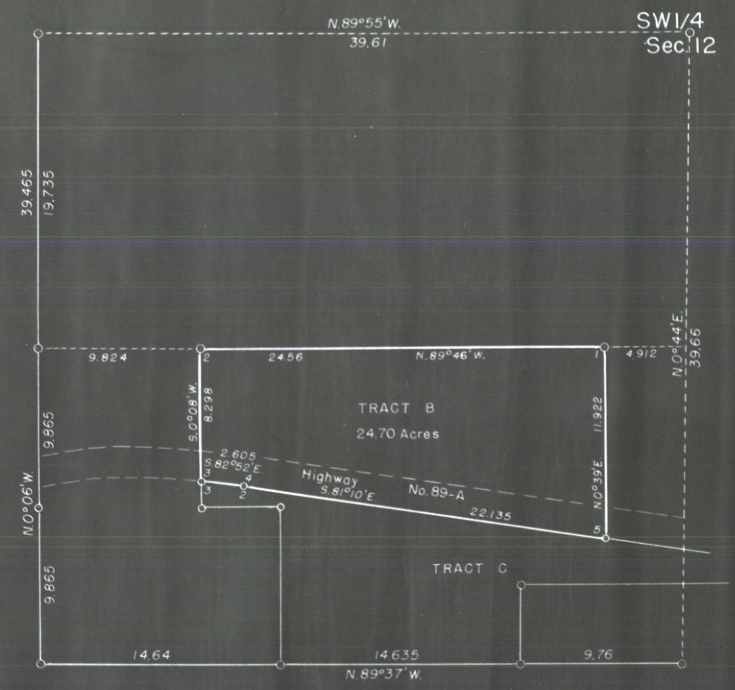
_____
Chief, Branch of Surveys

cc: Regional U.S.Forester, Albuquerque: Attn. Lands Div.
Reg.Admin. Reg.V, (ASSdker) Albuquerque
Reg.Chief, Div. Cad. Engr., Reg.V "
Mgr. IASO, Phoenix, Ariz.

cc: Regional Administrator

TOWNSHIP No.17 NORTH, RANGE No.5 EAST OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

Exchange Survey No.678, Tract B



MEMORANDUM

EXCHANGE SURVEY No. 678 (Tract B) Arizona, is made for the purpose of identifying a tract of land in Section 12, Township No. 17 North, Range No. 5 East, of the Gila and Salt River Meridian, Arizona, included in an exchange of land under the Act of March 20, 1922 (42 Stat. 465) as amended.

Survey executed by Everett H. Kimmell, November 3 to 4, 1949.

Standard certificate for the Director.

Bar Scale (1 inch equals 6 chains)

Meridian Arrow.

EHC

E:GRH
SURVEYS
Cadastral
Exchange Survey No.678
Ariz.

Division of Engineering
1009 W. Tijeras Ave.
Albuquerque, New Mexico

November 27, 1950

Regional Forester
U. S. Forest Service
Albuquerque, New Mexico

Dear Sir:

A copy of the plat and triplicate copy of the field notes of Exchange Survey No. 678, Section 12, Township 17 North, Range 5 East, G&SRM, Arizona, are enclosed for your files.

The survey was accepted October 16, 1950.

The Manager of the Land and Survey Office at Phoenix, Arizona, by his letter of November 14, 1950, has notified us that the original and a triplicate copy of the plat were filed in that office.

Very truly yours,

For the Regional Administrator

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

2 encls.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON 25, D. C.

E
SURVEYS (GROUP)
Exchange Survey
No. 678 Arizona
54908
Phoenix 085894

November 2, 1950

R. B. B. Date 11/7
E. L. Mc
T. F. For;
J. C. B. Info.
E. D. Review
H. T. T. Comment
E. D. S.
I. V. F. Action
G. H. W.
M. A. C.
C. F. D.
C. S.
E. L. L.
C. R. M. 3

Memorandum

To: Regional Administrator, Reg. V, Albuquerque, New Mexico

From: Chief, Branch of Surveys

Subject: Plat distribution

By registered mail to the Land and Survey Office at Phoenix, the original plat and several copies of Exchange Survey No. 678 in sec. 12, T. 17 N., R. 5 E., G.& S.R.M., Arizona, accepted October 16, 1950, are being forwarded for the files of the survey office and the triplicate plat to the land office. This survey was made to accommodate a selection of lands under Forest Exchange Application Phoenix 085894 of Kenneth M. de Vos and Mary Alice de Vos.

The usual public notice is not required and without further instructions the plat will be regarded as officially filed in the land office on the date of receipt thereof. An immediate report of such date will be made to the Director. The original plat will be placed in the open files of the survey office (see Circular 1715, approved December 23, 1948, Federal Register of December 31, 1948, page 9568).

A copy of this memorandum is being sent to the above office.

William F. Reckards

Chief, Branch of Surveys

cc: L&SO (Phoenix)
AL
ADL
Forest Service

FEB 1951
RECEIVED
Bureau of Land Management
Cadastral Engineering
Region V,
Albuquerque

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

102 U.S.Court House
Phoenix, Arizona

November 14, 1950

MEMORANDUM

To: Glenn R. Haste, Regional Chief, Div. of Cad. Engineering

From: Thos. F. Britt, Manager, Land and Survey Office

Subject: Transmit plats

Enclosed are two copies of Exchange Survey No. 678 in T. 17 N., R. 5 E.

We have retained the original for the files of the Engineering Division and the Triplicate copy for the Land Office.

Very truly yours,

Thos. F. Britt, Manager.

- - - - - -

Albuquerque, New Mexico

Receipt is acknowledged of the above plats.

Copy returned to Phoenix { Nov. 20, 1950 Glenn H Well

Thos F Britt

FOREST SERVICE ALBUQUERQUE, NEW MEXICO

MR. KIMMEL (Engineering Branch)

Chief, Forest Service February 21, 1950

C. Otto Lindh, Regional Forester, By:

L-ACQUISITION-Sitgreaves-Kaibab-Coconino, Exchange, deVos, Kenneth M. and Mary Alice, 10/8/48

Mr. Kimmel of the Regional Administrator's office, BLM in Albuquerque, has advised us that Exchange Survey No. 678 in connection with this case has been returned without approval. A copy of the memorandum setting forth the reasons for disapproval is attached for your information. We later received a copy of this same memorandum which was forwarded through your Division of Engineering but we are not sure that it came to Mr. Grover's attention.

Following the submission of the deVos exchange, a proposal was received which involves the lands to the north of the deVos selection covered by Exchange Survey No. 678, i.e., all that portion of the $S\frac{1}{2}S\frac{1}{2}$ Section 12 not selected by deVos. It seemed practical to make the one survey accommodate both exchanges and the Cadastral Engineer extended Survey No. 678 accordingly upon our request.

This extension brought about the preparation of additional supplemental instructions and it appears that because they cover lands not included in this pending application the approval has been withheld.

It is felt that the BLM will reconsider the survey favorably upon advice that it is required by the Forest Service in a pending exchange. Mr. Kimmel has agreed to resubmit the survey with the supplemental instructions, provided we also initiate a formal request for their approval. It will, therefore, be appreciated if you will pass along our request to the proper office in the BLM.

Dahl J. Kirkpatrick

Attachment

cc: ~~Sitgreaves, Kaibab~~, Coconino & Mr Kimmel

BUREAU OF LAND MANAGEMENT RECEIVED FEB 24 1950 ALBUQUERQUE NEW MEXICO

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

Albuquerque, N.M.

TO : Frank W. Chapin, Cadastral Engr., Phoenix DATE: February 24, 1950

FROM : Reg. Chief, Div. of Engr., Reg. V.

SUBJECT: Exchange Survey No. 678

Reference is made to your memorandum of February 15th under the above subject.

Attached is a copy of a letter from the Regional Forester at Albuquerque to the Chief of Forest Service at Washington, relative to this matter.

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

1 encl.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Glenn R. Haste: DATE: Feb.15, 1950

FROM :

SUBJECT: Exchange Survey No. 678.

Mr. Kenneth de Vos recently called at this office to inquire as to what progress was being made on this Survey. It is noted that the returns of the survey were mailed to Washington on Nov.30, 1949.

Mr. de Vos is very anxious to have the job expedited if possible.

Frank W. Chapin

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

Phoenix, Arizona

TO : Regional Chief

DATE: Nov. 22, 1949

FROM : Cadastral Engineer, Phoenix

SUBJECT: Forest Exchange Survey No. 678

The original plat of T. 17 N., R. 5 E. was approved June 24, 1889. On this plat secs. 1, 2, 3, 5, 6, 25 and 36 were only partially surveyed.

The survey was completed as shown on plat approved May 27, 1904.

Frank W. Chapin

Cadastral Engineer.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

Albuquerque, N.M.

TO : Frank W. Chapin, Cadastral Engineer, Phoenix

DATE: November 21, 1949

FROM : Glenn R. Haste, Reg.Chief, Div. of Engr.

SUBJECT: Forest Service Exchange Survey No. 678

Please send me the date of approval on the plat of T. 17 N., R. 5 E.

This is needed for certificate on Exchange Survey No. 678.

Glenn R. Haste
Regional Chief,
Division of Engineering

Ex Sm. 678

E. R. Huber

Asst. Regional Engr

U. S. Forest Service

6791

Ext 28

(DeVoss (dictated)

ware
6791
Ex 49

Wants Secy
Miss Matson

H. W. Stephens
Chief
Div. of Roads.

James Bldg. } office
502 N. 2d St. }

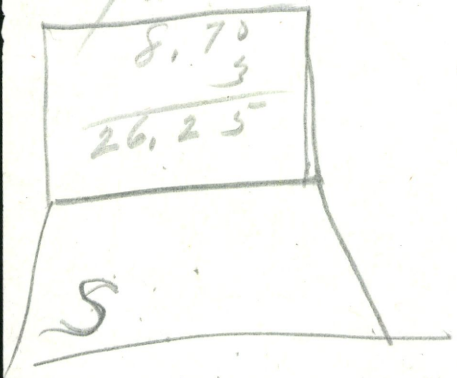
Engr 3 Assts.

27.00 P.C.

26.25 Sal

21.00 Pd. Assts

74.25



20.00

30.00

Est 800.00

Sedona, Ariz.
Oct. 30, 1949.

Dear Glenn:

Just a line to let you know that we've hardly made a dent in this job yet. After 3 days work we still have 3/4 of a mile to go to retrace the bdys. of the sec. The N. and E. bdys. were much heavier brush than I suspected when we first looked over the area, and the center lines — and other subd. are going to take time too.

I spent the day yesterday trying to run down some verbal evidence as to position of corners with no luck.

In his resurvey of 1902, Secor destroyed the orig. NW. cor. of sec. 12 and the notes I have do not give the relative positions of the 1886 and 1902 corners. Have written Chapin asking him to try to dig it out of the record. I do not believe the Secor cor. should be used for a basis for a proportion unless it was placed in the same position as the original, which seems very doubtful.

I believe that this case will get into a

law suit, regardless of where I place the SW. cor., at least there will be a protest on our resurvey.

Best regards

E. H. Kimmell.

STANDARD FORM NO. 64

Ex Sur. 678

Office Memorandum • UNITED STATES GOVERNMENT

TO : Regional Chief, Divl of Engineering DATE: Oct. 26, 1949

FROM : Office Cadastral Engineer, Phoenix

SUBJECT: Notes T. 17 N., R. 5 E.

As requested in your memo of Monday morning received this morning, we are sending to Flagstaff, plat showing corner descriptions going west from cor. of secs. 11, 12, 13 and 14.

Frank M. Chapin

Office Cadastral Engineer

CC;Mr.Kimmell

E-
Cooperation
Forest Service
Exchange Survey
No. 678 - Ariz.

Division of Engineering
1009 W. Tijeras Ave.
Albuquerque, New Mexico

MEMORANDUM October 21, 1949

To: Director, Bureau of Land Management

From: Regional Administrator, Region V

Subject: Special Instructions, Exchange Survey No. 678

Herewith for your approval are the Supplemental Special Instructions for exchange survey No. 678, T. 17 N., R. 5 E., GSSR Meridian, Arizona.

This survey is for the accommodation of the Forest Service.

For the Regional Administrator

Geo. H. Bell
Acting Chief, Division
of Engineering, Rgn.V.

Encl.

Approved: _____ 1949

For the Director

_____
Chief, Branch of Surveys

cc: Regional Forester, P.O.Bldg., Albuquerque, N.M.
Regional Chief, Div. of Engr. " "
Office Cadastral Engineer, Phoenix, Arizona.

cc: Regional Administrator
Albuquerque, N.M.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Glenn R. Haste,
Regional Chief, Div. of Eng.

DATE: Oct.20, 1949

FROM :

SUBJECT: Exchange Survey No.678.

Enclosed herewith are four copies of the Supplemental Special Instructions, as follows: one for the Director, one for the Regional Forester, one for your office and one for the surveyor.

The tracts have been designated by letters in order to conform with the prior practice in this office.

Frank A. Chapin
Office Cadastral Engineer

Two diagrams are returned, will you please make additional.

(Copy)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF ENGINEERING
103 U.S.Court House
Phoenix, Arizona

October 20,1949

SUPPLEMENTAL SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 678

Township 17 North, Range 5 East,
Gila and Salt River Meridian.

The original instructions for this survey were dated June 20, 1949, and provided for the survey of the one tract south of the highway. It is now desired to include three additional tracts in the survey.

The tracts are located as shown on the accompanying diagram, and will be designated by the letters A to D., inclusive.

The necessary additional subdivision-of-section lines will be surveyed. All 1/16 section corners on the south half of section 12, will be monumented.

All angle points of each tract will be monumented, and numbered consecutively. The corner monuments will be marked with the Survey number, Tract designation and Corner number.

The Tracts will be described by metes-and-bounds survey, beginning with Corner No.1.

Reference will also be made to the original instructions where applicable.

Frank A. Chapin
Office Cadastral Engineer

Approved: _____

(Copy)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIVISION OF ENGINEERING
103 U.S.Court House
Phoenix, Arizona

October 20,1949

SUPPLEMENTAL SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 678

Township 17 North, Range 5 East,
Gila and Salt River Meridian.

The original instructions for this survey were dated June 20, 1949, and provided for the survey of the one tract south of the highway. It is now desired to include three additional tracts in the survey.

The tracts are located as shown on the accompanying diagram, and will be designated by the letters A to D., inclusive.

The necessary additional subdivision-of-section lines will be surveyed. All 1/16 section corners on the south half of section 12, will be monumented.

All angle points of each tract will be monumented, and numbered consecutively. The corner monuments will be marked with the Survey number, Tract designation and Corner number.

The Tracts will be described by notes-and-bounds survey, beginning with Corner No.1.

Reference will also be made to the original instructions where applicable.

Frank W. Chapin
Office Cadastral Engineer

Approved: _____

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. Haste

DATE: 10-19-49

FROM :

SUBJECT: Some field notes were furnished the Regional Forester at Albuquerque. If you can get them, it would save copying the notes over again.

We will get out the additional data and instructions as soon as possible

F. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Division of Engineering
1009 W. Tijeras Ave.
Albuquerque, New Mexico

E
Cooperation
Forest Service
Exchange Survey
678, Arizona.

October 18, 1949

ASSIGNMENT INSTRUCTIONS, EXCHANGE SURVEY 678, ARIZONA

Mr. Everett H. Kimmell, Cadastral Engineer, Albuquerque, N.M.
Mr. Clarence E. Bilbray, Engineering Aide, Albuquerque, N.M.

Sirs:

You are hereby assigned to surveys to accommodate the Forest Service under Exchange Survey No. 678, Arizona, effective upon your entrance on duty on the work under this assignment.

You will be guided by the Special Instructions issued for this survey, dated June 20, 1949, as amended by the supplemental instructions.

The expenses for this survey will be reimbursed from Forest Service funds as authorized by the Regional Forester's letter of October 13, 1949.

Glenn R. Haste
Glenn R. Haste
Regional Chief, Division
of Engineering.

Approved OCT 20 1949 1949

E. P. Smith
Regional Administrator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Division of Engineering
1009 W. Tijeras Ave.
Albuquerque, New Mexico

E
Cooperation
Forest Service
Exchange Survey
678, Arizona.

October 18, 1949

ASSIGNMENT INSTRUCTIONS, EXCHANGE SURVEY 678, ARIZONA

Mr. Everett H. Kimmell, Cadastral Engineer, Albuquerque, N.M.
Mr. Clarence E. Bilbray, Engineering Aide, Albuquerque, N.M.

Sirs:

You are hereby assigned to surveys to accommodate the Forest Service under Exchange Survey No. 678, Arizona, effective upon your entrance on duty on the work under this assignment.

You will be guided by the Special Instructions issued for this survey, dated June 20, 1949, as amended by the supplemental instructions.

The expenses for this survey will be reimbursed from Forest Service funds as authorized by the Regional Forester's letter of October 13, 1949.

Glenn R. Haste

Glenn R. Haste
Regional Chief, Division
of Engineering.

OCT 20 1949

Approved _____ 1949

_____
Regional Administrator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Division of Engineering
103 U.S.Court House
Phoenix, Arizona

October 19, 1949

MEMORANDUM

To: Mr. Glenn R. Haste, Regional Chief, Div.of Eng.

From: Frank W. Chapin, Office Cadastral Engineer

Subject: Exchange Survey No. 678.

Ty White does not have any experienced men except Steve, and he can not stand the high altitude around Flagstaff. Bert has not gone to the field yet.

The best bet seems to be Lakin from Michigan, and he has had no experience on this work. If you want Lakin to go, will you please advise by Friday night. Lakin will drive a truck up there and have it to come back in. Ty expects to be back in Phoenix Saturday morning. Lakin could drive up Monday.

Frank W. Chapin
Office Cadastral Engineer

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. Guy P. Harrington DATE: June 22, 1949

FROM : Office Cadastral Engineer

SUBJECT: Exchange Survey No. 678

Enclosed herewith two copies of Special Instructions for Exchange Survey No. 678, one copy to be forwarded to the Director for his approval.

Two copies have been sent to the Regional Forester at Albuquerque.

Frank A. Chapin
Office Cadastral Engineer.

Encs.

Division of Engineering

1009 W. Tijeras,
Albuquerque, New Mexico.
October 17, 1949.

MEMORANDUM

To: Office Cadastral Engineer Phoenix

From: Regional Chief of Engineering

Subject: Exchange Survey No. 678

The Forest Service has recently added 3 additional tracts to be surveyed in sec. 12, T. 17 N., R. 5 E., G&SRM, Arizona. This will oblige us to write supplemental special instructions. Please write these instructions. The tracts can all be carried under the original Exchange Number (678) but will carry designations such as Tracts A to D, inclusive. However, I believe it will conform to the more general practice to designate them "Tracts 1, 2, 3 and 4."

I plan that Kimmell and Bilbray leave here Mon. Oct. 24th and should be in Flagstaff, the Supervisor's Office that afternoon. The Forest Service is writing the Supervisor to have a man available for us. They also think the Ranger could help us out. Kimmell wants all the help he can get and has suggested that possibly Ty would lend him an experienced man for a day or so. This might be arranged since Ty will have good help from Hefty and possibly Bert.

We would aso appreciate having very rough field notes and plat of section 12 and the adjoining section lines. It is our understanding that all sec. corners are probably in place with the exception of the corner of secs. 11, 12, 13 and 14. Thus notes W. and S. for several miles from this corner would be appreciated. I am thinking of coming over with the engineers at that time. Mr. Smith should visit your office this coming Wed., Oct. 19th.

Glenn R. Haste
Regional Chief, Division
of Engineering.

Division of Engineering
1009 N. Tijeras Ave.
Albuquerque, New Mexico

E
Cooperation
Forest Service
Exchange Survey
678, Arizona.

October 13, 1949

ASSIGNMENT INSTRUCTIONS, EXCHANGE SURVEY 678, ARIZONA

Mr. Everett H. Kimmell, Cadastral Engineer, Albuquerque, N.M.
Mr. Clarence E. Dilbray, Engineering Aide, Albuquerque, N.M.

Sirs:

You are hereby assigned to survey to accommodate the Forest Service under Exchange Survey No. 678, Arizona, effective upon your entrance on duty on the work under this assignment.

You will be guided by the Special Instructions issued for this survey, dated June 20, 1949, as amended by the supplemental instructions.

The expenses for this survey will be reimbursed from Forest Service funds as authorized by the Regional Forester's letter of October 13, 1949.

Glenn R. Easte
Regional Chief, Division
of Engineering.

Approved _____ 1949

_____
Regional Administrator

4-489

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF ENGINEERING

WEEKLY SERVICE REPORT, FIELD ENGINEERS

YEAR, 19 49. MONTH Nov.	WHERE AT WORK	NATURE OF WORK
SUNDAY 13		
MONDAY 14	Albuquerque, N.M.	Miscellaneous office work.
TUESDAY 15	Same	Preparing returns, Exchange Survey 678, Ariz.
WEDNESDAY 16	Same	Same.
THURSDAY 17	Same	Same.
FRIDAY 18	Same	Same.
SATURDAY 19		Non-work day.

I HEREBY CERTIFY that the above is a true report of the services performed by me for week ending the 19th day of November, 19 49.

Everett H. Kimmell
Everett H. Kimmell, (Name)

Nov. 25, 1949. (Date)

Cadastral Engineer. (Title)

Albuquerque (Post office), New Mexico. (State)

Exchange Survey Group No. 678

Same (Telegraph), (State)

STATE OF Arizona.

1c—30166-3

DIAGRAM PROGRESS REPORT

GROUP NO. _____ STATE OF _____

T. _____, R. _____ T. _____, R. _____

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36

T. _____, R. _____ T. _____, R. _____

_____ Meridian

SUMMARY FOR THE WEEK

	Cost Days		*Miles*
Without party		Original surveys	
With party (not on line)		Retracements	
On line		Dependent resurveys	
TOTAL		Independent resurveys	
		Metes and bounds surveys	
		TOTAL	

Engineers are instructed to report fractional weeks at the beginning and end of each month on separate sheets. Fractional weeks on different assignments will also be reported separately.

U. S. GOVERNMENT PRINTING OFFICE 16—30166-1

4-489

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF ENGINEERING

WEEKLY SERVICE REPORT, FIELD ENGINEERS

YEAR, 19 49. MONTH	WHERE AT WORK	NATURE OF WORK
SUNDAY Oct. 30	Sedona, Ariz.	Field office work.
MONDAY Oct. 31	Same	Field work in connection with Forest Exchange Surveys in Sec. 12, T. 17 N., R. 5 E.
TUESDAY Nov. 1	Same	Same.
WEDNESDAY 2	Same	Same.
THURSDAY 3	Same	Same.
FRIDAY 4	Same	Same.
SATURDAY 5	Same	Field office work.

I HEREBY CERTIFY that the above is a true report of the services performed by me for week ending the 5th day of November, 1949.

Everett H. Kimmell
Everett H. Kimmell, (Name)

Nov. 10, 1949. (Date)

Cadastral Engineer. (Title)

Albuquerque, (Post office) New Mexico. (State)

Exchange Survey Group No. 678

Same (Telegraph) (State)

STATE OF Arizona.

16—30166-3

DIAGRAM PROGRESS REPORT

GROUP NO. _____ STATE OF _____

T. _____, R. _____ T. _____, R. _____

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36
6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36

T. _____, R. _____ T. _____, R. _____

_____ Meridian

SUMMARY FOR THE WEEK

	Cost Days		*Miles*
Without party		Original surveys	
With party (not on line)		Retracements	
On line		Dependent resurveys	
TOTAL		Independent resurveys	
		Metes and bounds surveys	
		TOTAL	

Engineers are instructed to report fractional weeks at the beginning and end of each month on separate sheets. Fractional weeks on different assignments will also be reported separately.

U. S. GOVERNMENT PRINTING OFFICE 16—30166-1

4-489

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF ENGINEERING

WEEKLY SERVICE REPORT, FIELD ENGINEERS

YEAR, 1949. MONTH Oct.	WHERE AT WORK	NATURE OF WORK
SUNDAY 23		
MONDAY 24	Enroute	Leave Albuquerque at 9:30 a.m., via BLM Car, with Regional Chief. Arrive Flagstaff, Ariz. 5 p.m.
TUESDAY 25	Same	Conferring with Forest Service officials in Flagstaff. Leave Flagstaff at 11 a.m., arrive Sedona, Ariz. at 12 M. Conferring with Forest Ranger and locating corners in T. 17 N., R. 5 E.
WEDNESDAY 26	~~Same~~ Sedona, Ariz.	Field work in connection with Forest Exchange Surveys in Sec. 12, T. 17 N., R. 5 E.
THURSDAY 27	Same	Same.
FRIDAY ~~Same~~ 28	Same	Same.
SATURDAY 29	Same	Conferring with local residents; searching for possible collateral evidence as to positions of land surveys.

I HEREBY CERTIFY that the above is a true report of the services performed by me for week ending the 29th day of October, 1949.

Everett H. Kimmell (Name)

Nov. 10, 1949. (Date)

Cadastral Engineer. (Title)

Albuquerque (Post office), New Mexico. (State)

Exchange Survey ~~Group~~ No. 678

Same (Telegraph), (State)

STATE OF Arizona.

16—30166-3

DIAGRAM PROGRESS REPORT

GROUP NO. _____ STATE OF _____

T. _____, R. _____ T. _____, R. _____

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36
6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36

T. _____, R. _____ T. _____, R. _____

_____ Meridian

SUMMARY FOR THE WEEK

	Cost Days		*Miles*
Without party		Original surveys	
With party (not on line)		Retracements	
On line		Dependent resurveys	
TOTAL		Independent resurveys	
		Metes and bounds surveys	
		TOTAL	

Engineers are instructed to report fractional weeks at the beginning and end of each month on separate sheets. Fractional weeks on different assignments will also be reported separately.

U. S. GOVERNMENT PRINTING OFFICE 16—30166-1

POOR QUALITY

The following pages are scanned at the best possible quality setting. The original pages are of poor quality and this is the best possible reproduction.

4—679
(September 1948)

Original

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Of the Survey of Tract B, in Section 12,

Township 17 North, Range 5 East

(Exchange Survey No. 678)

Of the Gila and Salt River *Meridian,*

In the State of Arizona

EXECUTED BY

Everett H. Kimmell, Cadastral Engineer

Under special instructions dated October 20, *19* 49, *which provided*

for the surveys included under Exchange Survey Group *No.* 678, *approved* February 6, 1950

and assignment instructions dated October 18, *19* 49.

Survey commenced November 3, *19* 49.

Survey completed November 4, *19* 49

Survey of Tract B, Sec. 12, T. 17 N., R. 5 E.

Chains

Township 17 North, Range 5 East, of the Gila and Salt River Meridian, Arizona, is located within the Coconino National Forest and the survey of Tract B in section 12, was initiated on the official request of the U. S. Forest Service to accommodate the exchange of lands.

The east boundary of section 12 was originally surveyed by J. C. Smith in 1855; the north, south, and west boundaries were originally surveyed by W. O. Secor in 1902.

The boundaries of section 12 were dependently resurveyed and the center lines of the section were surveyed in October, 1949 in connection with the survey of Tract C.

The survey of Tract B was executed with Gurley solar transit, Serial No. 49657. A description of this instrument and notes for the determination of azimuth are included in the field notes of the survey of Tract C.

The smaller legal subdivisions of the SW¼ of Sec. 12, which were required to establish the boundaries of Tract B, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tract. Only those subdivisional corners which are angle points of the tract boundaries were monumented.

At the point for the C-E-E-SW 1/256 sec. cor., designated as Angle Point 1 of Tract B,

Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

S 12
C-E-E-SW
1/256

1949

from which

A pinon, 12 ins. diam., bears N. 64° E., 101 lks. dist., mkd. BT.

A pinon, 10 ins. diam., bears S. 78° W., 40 lks. dist., mkd. C-E-E-SW 1/256 BT.

Point for the Center - South 1/16 sec. cor. bears S. 89° 46' E., 4.912 chs. dist.

N. 89° 46' W., on N. bdy. of Tract B, and along The S. 1/16 sec. line.

9.53 Arroyo, 20 lks. wide, 12 ft. deep, drains S.

14.736 Point for the SW. 1/16 sec. cor. of sec. 12.

17.09 SE. corner of a house, about 36 x 20 ft., 8 lks. N. of line.

24.56 Point for the C-W-SW 1/64 sec. cor. of sec. 12, at mid-point between the SW. 1/16 sec. cor. and the S. 1/16 sec. cor. of secs. 11 and 12, designated as Angle Point 2 of Tract B.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

S 12
C-W-SW
1/64

1949

from which

Survey of Tract B, Sec. 12, T. 17 N., R. 5 E.

Chains	
	A juniper, 18 ins. diam., bears S. 89° 45' E., 45 lks. dist., mkd. BT.
	A juniper, 12 ins. diam., bears S. 8° 15' W., 55 lks. dist., mkd. BT.
	SW. corner of R. C. Payne's house, 26 x 24 ft., bears S. 79° 17' E., 122 lks. dist. This house is on the S. 1/16 sec. line.
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of corner.
	The S. 1/16 sec. cor. of secs. 11 and 12 bears N. 89° 46' W., 9.824 chs. dist.
	S. 0° 08' W., on the W. bdy. of Tract B, and along the W-W 1/64 sec. line.
7.30	Center of U. S. Highway No. 89-A, on curve bearing S. of E. and N. of W.
8.298	Point for Angle Point 3 of Tract B, at Angle Point 3 of Tract C, on the S. line of the highway right-of-way, monumented by an iron post, 3 ft. long, 1 in. diam., set and marked as described in the field notes of the survey of Tract C, with brass cap now mkd. T17N R5E S12 | TR B AP 3 / AP 3 TR C 1949
	S. 82° 52' E., bet. Tracts B and C,
2.605	Point for Angle Point 4 of Tract B, on S. line of highway right-of-way, at Angle Point 2 of Tract C, monumented by an iron post, 3 ft. long, 1 in. diam., set and marked as described in the field notes of the survey of Tract C, with brass cap now marked TR B AP 4 / AP 2 TR C 1949
	S. 81° 10' E., bet. Tracts B and C, and along S. line of highway right-of-way.
22.135	Point for Angle Point 5 of Tract B, on N. bdy. of Tract C and on the E-E-W 1/256 sec. line. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. TR B AP 5 | / TR C 1949
	N. 0° 39' E., on E. bdy. of Tract B and along the E-E-W 1/256 sec. line.
1.01	Center of U. S. Highway No. 89-A, bears N. 81° 10' W., and S. 81° 10' E.
11.922	Angle Point 1 of Tract B and point of beginning.
	Area of Tract B: 24.70 acres.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Clarence E. Bilbray	Engineering Aide
U. S. Forest Service Employees	
Benton C. Rogers	Flagman
Roe N. Smith	Chainman
Robert F. Legg	Axeman
Gayle T. Payne	Axeman

16—53565-2

CERTIFICATE OF CADASTRAL ENGINEER

I, Everett H. Kimmell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of October, 1949, I have surveyed the boundaries of Tract B, in Section 12, T. 17 N., R. 5 E., Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Albuquerque, New Mexico
February 25, 1952.

Everett H. Kimmell
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., MAY 19 1952, *19*

The foregoing field notes of the survey of the boundaries of Tract B, in Section 12, T. 17 N., R. 5 E., of the Gila and Salt River Meridian, in the State of Arizona, executed by Everett H. Kimmell having been critically examined and found correct, are hereby approved.

Earl G. Harrington
Chief, Division of Cadastral Engineering.

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in , is a true copy of the original field notes.~~

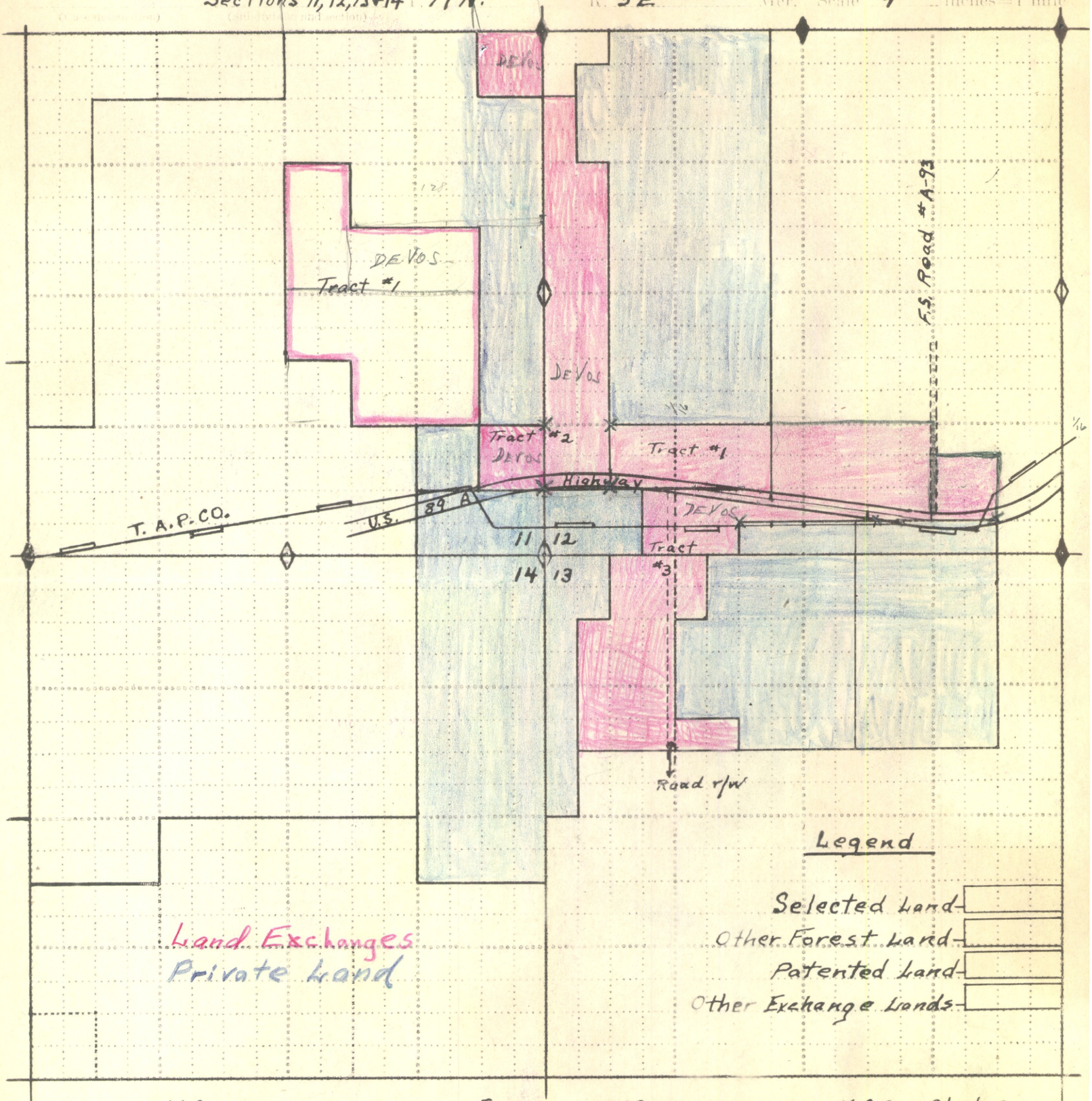
~~Chief, Division of Cadastral Engineering.~~

UNITED STATES DEPARTMENT OF AGRICULTURE—FOREST SERVICE

[redacted]

Area ..... acres

Sections 11, 12, 13 + 14 T. 17 N. R. 5E G.&S.R.B.+ Mer. Scale 4 inches=1 mile



Land Exchanges
Private Land

Legend

Selected Land
Other Forest Land
Patented Land
Other Exchange Lands

Field work by M.C.O Date January 1948 Plotted by M.C.O 2/18/48

Remarks U.S. Highway 89A from highway maps

Approved ..... 19.

U. S. GOVERNMENT PRINTING OFFICE 16—3356 Approving Officer.

These notes to be used in preparing final returns for tracts A & B

10433 ✓

4—679
(April 1933)

DUPLICATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
BUREAU OF LAND MANAGEMENT

corrd Page 9-10-11-12 and certificates

FIELD NOTES

OF THE DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY

AND SUBDIVISIONAL LINES, AND

SURVEY OF SUBDIVISION AND TRACTS A, B, AND C,

IN SECTION 12,

TOWNSHIP 17 NORTH, RANGE 5 EAST

(EXCHANGE SURVEY NO. 678)

25

Of the GILA AND SALT RIVER *Meridian,*

In the State of ARIZONA

EXECUTED BY

EVERETT H. KIMMELL, CADASTRAL ENGINEER

Under special instructions dated ~~JUNE 20~~ OCTOBER 20, 19 49, *which provided for the surveys included under* ~~Group~~ EXCHANGE SURVEY No. 678, *bearing the approval of the* ~~Commissioner of the General Land Office~~ DIRECTOR OF THE BUREAU OF LAND MANAGEMENT *under date of* JULY 7, 1949 *and assignment instructions dated* OCTOBER 18, 19 49.

Survey commenced OCTOBER 26, 19 49.

Survey completed NOVEMBER 4, 19 49.

U. S. GOVERNMENT PRINTING OFFICE 6—151

INDEX DIAGRAM.

Township 17 N., *Range* 5 E.

6	5	4	3	2	1 7
7	8	9	10	11	6 12 2 5
18	17	16	15	14	4 13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6—151

SUBDIVISION OF SEC. 12 PAGE 8

TRACT A " 10

TRACT B " 11

TRACT C " 12

Subdivision of Sec. 12, T. 17 N., R. 5 E.

Chains	
9.915	Point for the center S-S 1/64 sec. cor. of sec. 12.
19.83	Point for the center S. 1/16 sec. cor. of sec. 12, set a cedar stake.
32.25	Wash, 10 lks. wide, 4 ft. deep, course SE.
36.40	Same wash, course SW.
39.66	Point for the center ¼ sec. cor. of sec. 12.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a mound of stone with 5 ft. base to top, with brass cap mkd.
	C ¼ S 12
	1949
	from which
	A pinon, 8 ins. diam., bears N. 78° 08' E., 44 lks. dist., mkd. C 1/4 S12 BT.
	A juniper, 16 ins. diam., bears N. 78° 51' W., 96 lks. dist., mkd. C 1/4 S12 BT.
78.50	Desc. 20 ft. over N. slope.
79.16	The ¼ sec. cor. of secs. 1 and 12.
	Land, rolling. Soil, sandy clay and loam, and rocky. Timber, juniper, pinon, and scrub oak.

From the ¼ sec. cor. of secs. 7 and 12, on E. bdy. of the Tp.

N. 89° 55' W., on the E-W center line of sec. 12.

Over broken and hilly land, through medium heavy timber and undergrowth.

1.25	Spur, slopes SE.
6.10	Wash, 10 lks. wide, course SE.
19.86	Point for the center E. 1/16 sec. cor., set a cedar stake.
25.67	Wash, 10 lks. wide, course S. from NW.
39.72	The center ¼ sec. cor. of sec. 12.
53.95	Arroyo, 30 lks. wide, 15 ft. deep, course S.
59.525	Point for the center W. 1/16 sec. cor. of sec. 12.
73.27	Power line, bears approximately N. 20° W. and S. 20° E.
79.33	The ¼ sec. cor. of secs. 11 and 12.
	Land, hilly and rolling. Soil, sandy clay and loam, and rocky. Timber, juniper and pinon; undergrowth, scrub oak.

The smaller legal subdivisions of the S. half of sec. 12, which were required to establish the boundaries of Tracts A, B, and C, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tracts. The corners of the subdivision were not monumented except those corners which are angle points of the tracts.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract A

Chains	
	At the point for the SE. 1/16 sec. cor. of sec. 12, being the intersection of the S. and E. 1/16 sec. lines, and designated as Angle Point 1 of Tract A, Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. SE 1/16 S12 1949 from which A pinon, 8 ins. diam., bears S. 86½° E., 49 lks. dist., mkd. SE 1/16 S12 BT. A pinon, 10 8ns. diam., bears N. 82¼° W., 94 lks. dist., mkd. SE 1/16 S12 BT. N. 89° 46' W., on N. bdy. of Tract A, and along the S. 1/16 sec. line.
6.10	Wash, 10 lks. wide, course S.
19.703	Point for the center S. 1/16 sec. cor.
24.615	Point for the C-E-E-SW 1/256 sec. cor., designated as Angle Point 2 of Tract A and Angle Point 1 of Tract B. Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. S12 C-E-E-SW 1/256 1949 from which A pinon, 12 ins. diam., bears N. 64° E., 101 lks. dist., mkd. BT. A pinon, 10 ins. diam., bears S. 78° W., 40 lks. dist., mkd. C-E-E-SW 1/256 S12 BT. S. 0° 39' W., bet. Tracts A and B, and along the E-E-W 1/256 sec. line.
10.912	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
11.922	Point for Angle Point 3 of Tract A and Angle Point 5 of Tract B, on the S. line of the highway right-of-way. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. TR B AP 5 | TR A AP 3 TR C 1949 S. 81° 10' E., bet. Tracts A and C, and along S. line of highway right-of-way.
19.985	Point for Angle Point 4 of Tract A and Angle Point 1 of Tract C, at the intersection of the S. line of highway right-of-way and the S-S-S 1/256 sec. line. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

Bubble shy page from Tract C

Survey of Tract A.

Chains	
	TR A AP 1 AP 4 TR C S 12 T17N R5E 1949
	S. 89° 39' E., on S. bdy. of Tract A, and along the S-S-S 1/256 sec. line.
4.68	Point for the C-S-S-SE 1/256 sec. cor., designated as Angle Point 5 of Tract A. Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in mound of stone to top, with brass cap mkd. S 12 C-S-S-SE 1/256 1949
	N. 1° 14' E., on E. bdy of Tract A, and along the E. 1/16 sec. line.
.305	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
14.92	Angle Point 1 of Tract A and point of beginning. Area of Tract A: 33.63 acres.

Survey of Tract B.

	From the C-E-E-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 1 of Tract B.
	N. 89° 46' W., on N. bdy. of Tract B, and along the S. 1/16 sec. line.
9.53	Arroyo, 20 lks. wide, 12 ft. deep, course S.
14.736	Point for the SW. 1/16 sec. cor. of sec. 12.
17.09	SE. corner of a house, about 36x20 ft., 8 lks. N. of line.
24.56	Point for the C-W-SW 1/64 sec. cor. of sec. 12, at mid-point between the SW. 1/16 sec. cor. and the S. 1/16 sec. cor. of secs. 11 and 12, designated as Angle Point 2 of Tract B. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. S12 C-W-SW 1/64 1949 from which A juniper, 18 ins. diam., bears S. 89° 45' E., 45 lks. dist., mkd. BT. A juniper, 12 ins. diam., bears S. 8° 15' W., 55 lks. dist., mkd. BT. SW. corner of R. C. Payne's house, 26x24 ft., bears S. 79° 17' E., 122 lks. dist. This house is on the S. 1/16 sec. line. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. The S. 1/16 sec. cor. of secs. 11 and 12 bears N. 89° 46' W., 9.824 chs. dist.

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U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract B

Chains	
	S. 0° 08' W., on W. bdy. of Tract B, and along the W-W 1/64 sec. line.
7.30	Center of U.S. Highway No. 89-A, on curve bearing S. of E. and N. of W.
8.298	Point for Angle Point 3 of Tract B and Angle Point 3 of Tract C, on S. line of the highway right-of-way. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to solid rock and in a mound of stone, 4 ft. base, to top, with brass cap mkd. T17N / R5 E / S 12 | TR B / AP 3 / AP 3 / TR C 1949
	S. 82° 52' E., bet. Tracts B and C, on along S. line of the highway right-of-way.
2.605	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for Angle point 4 of Tract B and Angle Point 2 of Tract C, with brass cap mkd. TR B / AP 4 / AP 2 / TR C 1949
	S. 81° 10' E., bet. Tracts B and C, and along S. line of the highway right-of-way.
22.135	Angle Point 5 of Tract B and Angle Point 3 of Tract A. N. 0° 39' E., bet. Tracts A and B, and along the E-E-W 1/256 sec. line.
1.01	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
11.922	Angle Point 1 of Tract B and point of beginning. Area of Tract B: 24.70 acres.

Survey of Tract C.

	From Angle Point 1 of Tract C, identical with Angle Point 4 of Tract A. N. 81° 10' W., bet. Tracts C and A, and along S. line of U.S. Highway No. 89-A right-of-way.
19.985	Angle Point 3 of Tract A and Angle Point 5 of Tract B. Thence bet. Tracts C and B, continuing line and measurement and along the S. line of highway right-of-way.
42.12	Angle Point 2 of Tract C and Angle Point 4 of Tract B. N. 82° 52' W., bet. Tracts C and B, and along S. line of the highway right-of-way.
2.605	Angle Point 3 of Tract C and Angle Point 3 of Tract B, at intersection of the S. line of the highway right-of-way and the W-W 1/64 sec. line. S. 0° 08' W., on W. bdy. of Tract C, and along the W-W 1/64 sec. line.
1.58	Point for the SW-SW 1/64 sec. cor. of sec. 12, designated as Angle Point 4 of Tract C.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract C

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd. S12 SW-SW 1/64 1949
	S. 89° 41' E., along the S-S 1/64 sec. line.
4.896	Point for the C-E-SW-SW 1/256 sec. cor., designated as Angle point 5 of Tract C.
	Set an iron post, 3 ft. long, 1 in diam., 27 ins. in the ground, with brass cap mkd. S12 C-E-SW-SW 1/256 1949
	S. 0° 14' W., along the E-W-W 1/256 sec. line.
9.882	The E-W-W 1/256 sec. cor. of secs. 12 and 13, designated as Angle Point 6 of Tract C.
	S. 89° 37' E., on S. bdy. of Tract C, and along line bet. secs. 12 and 13.
14.635	The E-W 1/64 sec. cor. of secs. 12 and 13, designated as Angle Point 7 of Tract C.
	N. 0° 32' E., along the E-W 1/64 sec. line.
4.95	Point for the C-S-SE-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 8 of Tract C.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd. S12 C-S-SE-SW 1/256 1949
	S. 89° 39' E., on S. bdy of Tract C, and along the S-S-S 1/256 sec. line.
9.791	Point for the center S-S-S 1/256 sec. cor.
24.68	Angle Point 1 of Tract C and point of beginning.
	Area of Tract C: 19.38 acres.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

4-680
(August 1947)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Clarence E. Bilbray	Engineering Aide
U. S. Forest Service Employees	
Benton C. Rogers	Flagman
Roe N. Smith	Chainman
Robert F. Legg	Axeman
Gayle T. Payne	Axeman

16—53565-1

CERTIFICATE OF CADASTRAL ENGINEER

I, Everett H. Kimmell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of June, 1949, and the 20th day of October, 1949, I have ~~surveyed~~ dependently resurveyed a portion of the East Boundary and subdivisional lines, and surveyed subdivisional lines and Tracts A, B, and C in Section 12, T. 17 N., R. 5 E.,

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Albuquerque, New Mexico,
November 21, 1949.

Everett H. Kimmell,
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., ..., *19*....

The foregoing field notes of the ~~survey of~~ dependent resurvey of a portion of the East Boundary and subdivisional lines, and the survey of subdivisional lines and Tracts A, B, and C in Section 12, T. 17 N., R. 5 E. of the Gila and Salt River Meridian, in the State of Arizona,

executed by Everett H. Kimmell, Cadastral Engineer,

having been critically examined and found correct, are hereby approved.

~~*Chief, Branch of Engineering and Construction.*~~
Assistant Chief, Division
of Cadastral Engineering

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in Arizona, is a true copy of the original field notes.

~~*Chief, Branch of Engineering and Construction.*~~
Assistant Chief, Division
of Cadastral Engineering

U. S. GOVERNMENT PRINTING OFFICE 16—53565-1

CERTIFICATE OF CADASTRAL ENGINEER

I, Everett H. Kimmell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of June, 20th day of October, 1949, I have ~~surveyed~~ dependently resurveyed a portion of the East Boundary and subdivisional lines, and surveyed subdivisional lines and Tracts A, B, and C in Section 12, T. 17 N., R. 5 E., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Albuquerque, New Mexico,
November 21, 1949.

Everett H. Kimmell
Everett H. Kimmell,
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., ..., 19....

The foregoing field notes of the ~~survey of~~ dependent resurvey of a portion of the East Boundary and subdivisional lines, and the survey of subdivisional lines and Tracts A, B, and C in Section 12, T. 17 N., R. 5 E, of the Gila and Salt River Meridian, in the State of Arizona, executed by Everett H. Kimmell, Cadastral Engineer, having been critically examined and found correct, are hereby approved.

~~*Chief, Branch of Engineering and Construction.*~~
Assistant Chief, Division
of Cadastral Engineering

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in ....., is a true copy of the original field notes.~~

~~*Chief, Branch of Engineering and Construction.*~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-1

4-680
(August 1947)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Clarence E. Bilbray	Engineering Aide
U. S. Forest Service Employees	
Benton C. Rogers	Flagman
Roe N. Smith	Chainman
Robert F. Legg	Axeman
Gayle T. Payne	Axeman

16—53565-1

Survey of Tract C

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd. S12 SW-SW 1/64 1949
	S. 89° 41' E., along the S-S 1/64 sec. line.
4.896	Point for the C-E-SW-SW 1/256 sec. cor., designated as Angle point 5 of Tract C.
	Set an iron post, 3 ft. long, 1 in diam., 27 ins. in the ground, with brass cap mkd. S12 C-E-SW-SW 1/256 1949
	S. 0° 14' W., along the E-W-W 1/256 sec. line.
9.882	The E-W-W 1/256 sec. cor. of secs. 12 and 13, designated as Angle Point 6 of Tract C.
	S. 89° 37' E., on S. bdy. of Tract C, and along line bet. secs. 12 and 13.
14.635	The E-W 1/64 sec. cor. of secs. 12 and 13, designated as Angle Point 7 of Tract C.
	N. 0° 32' E., along the E-W 1/64 sec. line.
4.95	Point for the C-S-SE-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 8 of Tract C.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd. S12 C-S-SE-SW 1/256 1949
	S. 89° 39' E., on S. bdy of Tract C, and along the S-S-S 1/256 sec. line.
9.791	Point for the center S-S-S 1/256 sec. cor.
24.68	Angle Point 1 of Tract C and point of beginning.
	Area of Tract C: 19.38 acres.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract B.

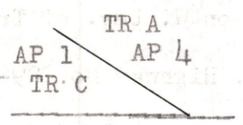
Chains	
	S. 0° 08' W., on W. bdy. of Tract B, and along the W-W 1/64 sec. line.
7.30	Center of U.S. Highway No. 89-A, on curve bearing S. of E. and N. of W.
8.298	Point for Angle Point 3 of Tract B and Angle Point 3 of Tract C, on S. line of the highway right-of-way.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to solid rock and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	TR B T17N AP 3 R5 E S 12 AP 3 TR C 1949
	S. 82° 52' E., bet. Tracts B and C, on along S. line of the highway right-of-way.
2.605	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for Angle point 4 of Tract B and Angle Point 2 of Tract C, with brass cap mkd.
	TR B AP 4 AP 2 TR C 1949
	S. 81° 10' E., bet. Tracts B and C, and along S. line of the highway right-of-way.
22.135	Angle Point 5 of Tract B and Angle Point 3 of Tract A.
	N. 0° 39' E., bet. Tracts A and B, and along the E-E-W 1/256 sec. line.
1.01	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
11.922	Angle Point 1 of Tract B and point of beginning.
	Area of Tract B: 24.70 acres.

Survey of Tract C.

	From Angle Point 1 of Tract C, identical with Angle Point 4 of Tract A.
	N. 81° 10' W., bet. Tracts C and A, and along S. line of U.S. Highway No. 89-A right-of-way.
19.985	Angle Point 3 of Tract A and Angle Point 5 of Tract B.
	Thence bet. Tracts C and B, continuing line and measurement and along the S. line of highway right-of-way.
42.12	Angle Point 2 of Tract C and Angle Point 4 of Tract B.
	N. 82° 52' W., bet. Tracts C and B, and along S. line of the highway right-of-way.
2.605	Angle Point 3 of Tract C and Angle Point 3 of Tract B, at intersection of the S. line of the highway right-of-way and the W-W 1/64 sec. line.
	S. 0° 08' W., on W. bdy. of Tract C, and along the W-W 1/64 sec. line.
1.58	Point for the SW-SW 1/64 sec. cor. of sec. 12, designated as Angle Point 4 of Tract C.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract A.

Chains	
	 S 12 T17N R5E 1949
	S. 89° 39' E., on S. bdy. of Tract A, and along the S-S-S 1/256 sec. line.
4.68	Point for the C-S-S-SE 1/256 sec. cor., designated as Angle Point 5 of Tract A. Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in mound of stone to top, with brass cap mkd. S 12 C-S-S-SE 1/256 1949
	N. 1° 14' E., on E. bdy of Tract A, and along the E. 1/16 sec. line.
.305	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
14.92	Angle Point 1 of Tract A and point of beginning. Area of Tract A: 33.63 acres.

Survey of Tract B.

From the C-E-E-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 1 of Tract B.

N. 89° 46' W., on N. bdy. of Tract B, and along the S. 1/16 sec. line.

9.53 Arroyo, 20 lks. wide, 12 ft. deep, course S.

14.736 Point for the SW. 1/16 sec. cor. of sec. 12.

17.09 SE. corner of a house, about 36x20 ft., 8 lks. N. of line.

24.56 Point for the C-W-SW 1/64 sec. cor. of sec. 12, at mid-point between the SW. 1/16 sec. cor. and the S. 1/16 sec. cor. of secs. 11 and 12, designated as Angle Point 2 of Tract B.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

S12
C-W-SW
1/64

1949

from which

A juniper, 18 ins. diam., bears S. 89° 45' E., 45 lks. dist., mkd. BT.

A juniper, 12 ins. diam., bears S. 8° 15' W., 55 lks. dist., mkd. BT.

SW. corner of R. C. Payne's house, 26x24 ft., bears S. 79° 17' E., 122 lks. dist. This house is on the S. 1/16 sec. line.

Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

The S. 1/16 sec. cor. of secs. 11 and 12 bears N. 89° 46' W., 9.824 chs. dist.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract A

Chains	
	At the point for the SE. 1/16 sec. cor. of sec. 12, being the intersection of the S. and E. 1/16 sec. lines, and designated as Angle Point 1 of Tract A, Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. SE 1/16 S12 1949 from which A pinon, 8 ins. diam., bears S. 86½° E., 49 lks. dist., mkd. SE 1/16 S12 BT. A pinon, 10 8ns. diam., bears N. 82¼° W., 94 lks. dist., mkd. SE 1/16 S12 BT. N. 89° 46' W., on N. bdy. of Tract A, and along the S. 1/16 sec. line.
6.10	Wash, 10 lks. wide, course S.
19.703	Point for the center S. 1/16 sec. cor.
24.615	Point for the C-E-E-SW 1/256 sec. cor., designated as Angle Point 2 of Tract A and Angle Point 1 of Tract B. Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. S12 C-E-E-SW 1/256 1949 from which A pinon, 12 ins. diam., bears N. 64° E., 101 lks. dist., mkd. BT. A pinon, 10 ins. diam., bears S. 78° W., 40 lks. dist., mkd. C-E-E-SW 1/256 S12 BT. S. 0° 39' W., bet. Tracts A and B, and along the E-E-W 1/256 sec. line.
10.912	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
11.922	Point for Angle Point 3 of Tract A and Angle Point 5 of Tract B, on the S. line of the highway right-of-way. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. TR B AP 5 | TR A AP 3 TR C 1949 S. 81° 10' E., bet. Tracts A and C, and along S. line of highway right-of-way.
19.985	Point for Angle Point 4 of Tract A and Angle Point 1 of Tract C, at the intersection of the S. line of highway right-of-way and the S-S-S 1/256 sec. line. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Subdivision of Sec. 12, T. 17 N., R. 5 E.

Chains	
9.915	Point for the center S-S 1/64 sec. cor. of sec. 12.
19.83	Point for the center S. 1/16 sec. cor. of sec. 12, set a cedar stake.
32.25	Wash, 10 lks. wide, 4 ft. deep, course SE.
36.40	Same wash, course SW.
39.66	Point for the center $\frac{1}{4}$ sec. cor. of sec. 12.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a mound of stone with 5 ft. base to top, with brass cap mkd.
	$C\frac{1}{4}S12$
	1949
	from which
	A pinon, 8 ins. diam., bears N. 78° 08' E., 44 lks. dist., mkd. C 1/4 S12 BT.
	A juniper, 16 ins. diam., bears N. 78° 51' W., 96 lks. dist., mkd. C 1/4 S12 BT.
78.50	Desc. 20 ft. over N. slope.
79.16	The $\frac{1}{4}$ sec. cor. of secs. 1 and 12.
	Land, rolling. Soil, sandy clay and loam, and rocky. Timber, juniper, pinon, and scrub oak.

	From the $\frac{1}{4}$ sec. cor. of secs. 7 and 12, on E. bdy. of the Tp.
	N. 89° 55' W., on the E-W center line of sec. 12.
	Over broken and hilly land, through medium heavy timber and undergrowth.
1.25	Spur, slopes SE.
6.10	Wash, 10 lks. wide, course SE.
19.86	Point for the center E. 1/16 sec. cor., set a cedar stake.
25.67	Wash, 10 lks. wide, course S. from NW.
39.72	The center $\frac{1}{4}$ sec. cor. of sec. 12.
53.95	Arroyo, 30 lks. wide, 15 ft. deep, course S.
59.525	Point for the center W. 1/16 sec. cor. of sec. 12.
73.27	Power line, bears approximately N. 20° W. and S. 20° E.
79.33	The $\frac{1}{4}$ sec. cor. of secs. 11 and 12.
	Land, hilly and rolling. Soil, sandy clay and loam, and rocky. Timber, juniper and pinon; undergrowth, scrub oak.

The smaller legal subdivisions of the S. half of sec. 12, which were required to establish the boundaries of Tracts A, B, and C, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tracts. The corners of the subdivision were not monumented except those corners which are angle points of the tracts.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

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SUBDIVISION OF SEC. 12 PAGE 8

TRACT A " 10

TRACT B " 11

TRACT C " 12

4—679
(April 1933)

ORIGINAL

See Duplicate for correction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY

AND SUBDIVISIONAL LINES, AND

SURVEY OF SUBDIVISION AND TRACTS A, B, AND C,

IN SECTION 12,

TOWNSHIP 17 NORTH, RANGE 5 EAST

(EXCHANGE SURVEY NO. 678)

Of the GILA AND SALT RIVER *Meridian,*

In the State of ARIZONA

EXECUTED BY

EVERETT H. KIMMELL, CADASTRAL ENGINEER

Under special instructions dated ~~JUNE 20~~ OCTOBER 20, *19* 49, *which provided for the surveys included under* ~~Group~~ EXCHANGE SURVEY No. 678, *bearing the approval of the* ~~Commissioner of the General Land Office~~ DIRECTOR OF THE BUREAU OF LAND MANAGEMENT *under date of* JULY 7, 1949

and assignment instructions dated OCTOBER 18, *19* 49.

Survey commenced OCTOBER 26, *19* 49.

Survey completed NOVEMBER 4, *19* 49.

U. S. GOVERNMENT PRINTING OFFICE 6—151

TRIPLICATE

4—679
(April 1933)

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY

AND SUBDIVISIONAL LINES, AND

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U. S. GOVERNMENT PRINTING OFFICE 6—151

INDEX DIAGRAM.

Township 17 N., *Range* 5 E.

6	5	4	3	2	1 7
7	8	9	10	11	6 12 2 5
18	17	16	15	14	4 13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6—151

SUBDIVISION OF SEC. 12 PAGE 8

TRACT A " 10

TRACT B " 11

TRACT C " 12

Subdivision of Sec. 12, T. 17 N., R. 5 E.

Chains	
9.915	Point for the center S-S 1/64 sec. cor. of sec. 12.
19.83	Point for the center S. 1/16 sec. cor. of sec. 12, set a cedar stake.
32.25	Wash, 10 lks. wide, 4 ft. deep, course SE.
36.40	Same wash, course SW.
39.66	Point for the center ¼ sec. cor. of sec. 12. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a mound of stone with 5 ft. base to top, with brass cap mkd. C¼S12 1949 from which A pinon, 8 ins. diam., bears N. 78° 08' E., 44 lks. dist., mkd. C 1/4 S12 BT. A juniper, 16 ins. diam., bears N. 78° 51' W., 96 lks. dist., mkd. C 1/4 S12 BT.
78.50	Desc. 20 ft. over N. slope.
79.16	The ¼ sec. cor. of secs. 1 and 12. Land, rolling. Soil, sandy clay and loam, and rocky. Timber, juniper, pinon, and scrub oak.

From the ¼ sec. cor. of secs. 7 and 12, on E. bdy. of the Tp.

N. 89° 55' W., on the E-W center line of sec. 12.

Over broken and hilly land, through medium heavy timber and undergrowth.

1.25	Spur, slopes SE.
6.10	Wash, 10 lks. wide, course SE.
19.86	Point for the center E. 1/16 sec. cor., set a cedar stake.
25.67	Wash, 10 lks. wide, course S. from NW.
39.72	The center ¼ sec. cor. of sec. 12.
53.95	Arroyo, 30 lks. wide, 15 ft. deep, course S.
59.525	Point for the center W. 1/16 sec. cor. of sec. 12.
73.27	Power line, bears approximately N. 20° W. and S. 20° E.
79.33	The ¼ sec. cor. of secs. 11 and 12. Land, hilly and rolling. Soil, sandy clay and loam, and rocky. Timber, juniper and pinon; undergrowth, scrub oak.

The smaller legal subdivisions of the S. half of sec. 12, which were required to establish the boundaries of Tracts A, B, and C, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tracts. The corners of the subdivision were not monumented except those corners which are angle points of the tracts.

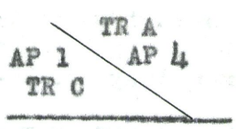
U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract A

Chains	
	At the point for the SE. 1/16 sec. cor. of sec. 12, being the intersection of the S. and E. 1/16 sec. lines, and designated as Angle Point 1 of Tract A, Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. SE 1/16 S12 1949 from which A pinon, 8 ins. diam., bears S. 86½° E., 49 lks. dist., mkd. SE 1/16 S12 BT. A pinon, 10 8ns. diam., bears N. 82¼° W., 94 lks. dist., mkd. SE 1/16 S12 BT. N. 89° 46' W., on N. bdy. of Tract A, and along the S. 1/16 sec. line.
6.10	Wash, 10 lks. wide, course S.
19.703	Point for the center S. 1/16 sec. cor.
24.615	Point for the C-E-E-SW 1/256 sec. cor., designated as Angle Point 2 of Tract A and Angle Point 1 of Tract B. Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone, 3 ft. base, to top, with brass cap mkd. S12 C-E-E-SW 1/256 1949 from which A pinon, 12 ins. diam., bears N. 64° E., 101 lks. dist., mkd. BT. A pinon, 10 ins. diam., bears S. 78° W., 40 lks. dist., mkd. C-E-E-SW 1/256 S12 BT. S. 0° 39' W., bet. Tracts A and B, and along the E-E-W 1/256 sec. line.
10.912	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
11.922	Point for Angle Point 3 of Tract A and Angle Point 5 of Tract B, on the S. line of the highway right-of-way. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. TR B | TR A AP 5 | AP 3 TR C 1949 S. 81° 10' E., bet. Tracts A and C, and along S. line of highway right-of-way.
19.985	Point for Angle Point 4 of Tract A and Angle Point 1 of Tract C, at the intersection of the S. line of highway right-of-way and the S-S-S 1/256 sec. line. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract A.

Chains	
	 S 12 T17N R5E 1949
	S. 89° 39' E., on S. bdy. of Tract A, and along the S-S-S 1/256 sec. line.
4.68	Point for the C-S-S-SE 1/256 sec. cor., designated as Angle Point 5 of Tract A. Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in mound of stone to top, with brass cap mkd. S 12 C-S-S-SE 1/256 1949
	N. 1° 14' E., on E. bdy of Tract A, and along the E. 1/16 sec. line.
.305	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
14.92	Angle Point 1 of Tract A and point of beginning. Area of Tract A: 33.63 acres.

Survey of Tract B.

From the C-E-E-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 1 of Tract B.

N. 89° 46' W., on N. bdy. of Tract B, and along the S. 1/16 sec. line.

9.53	Arroyo, 20 lks. wide, 12 ft. deep, course S.
14.736	Point for the SW. 1/16 sec. cor. of sec. 12.
17.09	SE. corner of a house, about 36x20 ft., 8 lks. N. of line.
24.56	Point for the C-W-SW 1/64 sec. cor. of sec. 12, at mid-point between the SW. 1/16 sec. cor. and the S. 1/16 sec. cor. of secs. 11 and 12, designated as Angle Point 2 of Tract B. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. S12 C-W-SW 1/64 1949 from which A juniper, 18 ins. diam., bears S. 89° 45' E., 45 lks. dist., mkd. BT. A juniper, 12 ins. diam., bears S. 8° 15' W., 55 lks. dist., mkd. BT. SW. corner of R. C. Payne's house, 26x24 ft., bears S. 79° 17' E., 122 lks. dist. This house is on the S. 1/16 sec. line. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. The S. 1/16 sec. cor. of secs. 11 and 12 bears N. 89° 46' W., 9.824 chs. dist.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract B.

Chains	
	S. 0° 08' W., on W. bdy. of Tract B, and along the W-W 1/64 sec. line.
7.30	Center of U.S. Highway No. 89-A, on curve bearing S. of E. and N. of W.
8.298	Point for Angle Point 3 of Tract B and Angle Point 3 of Tract C, on S. line of the highway right-of-way.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to solid rock and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

T17N R5 E S 12 | TR B AP 3 / AP 3 TR C

1949

	S. 82° 52' E., bet. Tracts B and C, on along S. line of the highway right-of-way.
2.605	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for Angle point 4 of Tract B and Angle Point 2 of Tract C, with brass cap mkd.

TR B AP 4 / AP 2 TR C

1949

	S. 81° 10' E., bet. Tracts B and C, and along S. line of the highway right-of-way.
22.135	Angle Point 5 of Tract B and Angle Point 3 of Tract A.
	N. 0° 39' E., bet. Tracts A and B, and along the E-E-W 1/256 sec. line.
1.01	Center of U.S. Highway No. 89-A, bears N. 81° 10' W. and S. 81° 10' E.
11.922	Angle Point 1 of Tract B and point of beginning.
	Area of Tract B: 24.70 acres.

Survey of Tract C.

	From Angle Point 1 of Tract C, identical with Angle Point 4 of Tract A.
	N. 81° 10' W., bet. Tracts C and A, and along S. line of U.S. Highway No. 89-A right-of-way.
19.985	Angle Point 3 of Tract A and Angle Point 5 of Tract B.
	Thence bet. Tracts C and B, continuing line and measurement and along the S. line of highway right-of-way.
42.12	Angle Point 2 of Tract C and Angle Point 4 of Tract B.
	N. 82° 52' W., bet. Tracts C and B, and along S. line of the highway right-of-way.
2.605	Angle Point 3 of Tract C and Angle Point 3 of Tract B, at intersection of the S. line of the highway right-of-way and the W-W 1/64 sec. line.
	S. 0° 08' W., on W. bdy. of Tract C, and along the W-W 1/64 sec. line.
1.58	Point for the SW-SW 1/64 sec. cor. of sec. 12, designated as Angle Point 4 of Tract C.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

Survey of Tract C

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with brass cap mkd. S12 SW-SW 1/64 1949
	S. 89° 41' E., along the S-S 1/64 sec. line.
4.896	Point for the C-E-SW-SW 1/256 sec. cor., designated as Angle point 5 of Tract C.
	Set an iron post, 3 ft. long, 1 in diam., 27 ins. in the ground, with brass cap mkd. S12 C-E-SW-SW 1/256 1949
	S. 0° 14' W., along the E-W-W 1/256 sec. line.
9.882	The E-W-W 1/256 sec. cor. of secs. 12 and 13, designated as Angle Point 6 of Tract C.
	S. 89° 37' E., on S. bdy. of Tract C, and along line bet. secs. 12 and 13.
14.635	The E-W 1/64 sec. cor. of secs. 12 and 13, designated as Angle Point 7 of Tract C.
	N. 0° 32' E., along the E-W 1/64 sec. line.
4.95	Point for the C-S-SE-SW 1/256 sec. cor. of sec. 12, designated as Angle Point 8 of Tract C.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd. S12 C-S-SE-SW 1/256 1949
	S. 89° 39' E., on S. bdy of Tract C, and along the S-S-S 1/256 sec. line.
9.791	Point for the center S-S-S 1/256 sec. cor.
24.68	Angle Point 1 of Tract C and point of beginning.
	Area of Tract C: 19.38 acres.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

4-680
(August 1947)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Clarence E. Bilbray	Engineering Aide
U. S. Forest Service Employees	
Benton C. Rogers	Flagman
Roe N. Smith	Chainman
Robert P. Legg	Axeman
Gayle T. Payne	Axeman

16—53565-1

CERTIFICATE OF CADASTRAL ENGINEER

I, Everett H. Kimmell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of June, 1949, and the 20th day of October, 1949, I have ~~surveyed~~ dependently resurveyed a portion of the East Boundary and subdivisional lines, and surveyed subdivisional lines and Tracts A, B, and C in Section 12, T. 17 N., R. 5 E., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Albuquerque, New Mexico,
November 21, 1949.

Everett H. Kimmell,
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., ..., 19....

The foregoing field notes of the ~~survey of~~ dependent resurvey of a portion of the East Boundary and subdivisional lines, and the survey of subdivisional lines and Tracts A, B, and C in Section 12, T. 17 N., R. 5 E, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Everett H. Kimmell, Cadastral Engineer,

having been critically examined and found correct, are hereby approved.

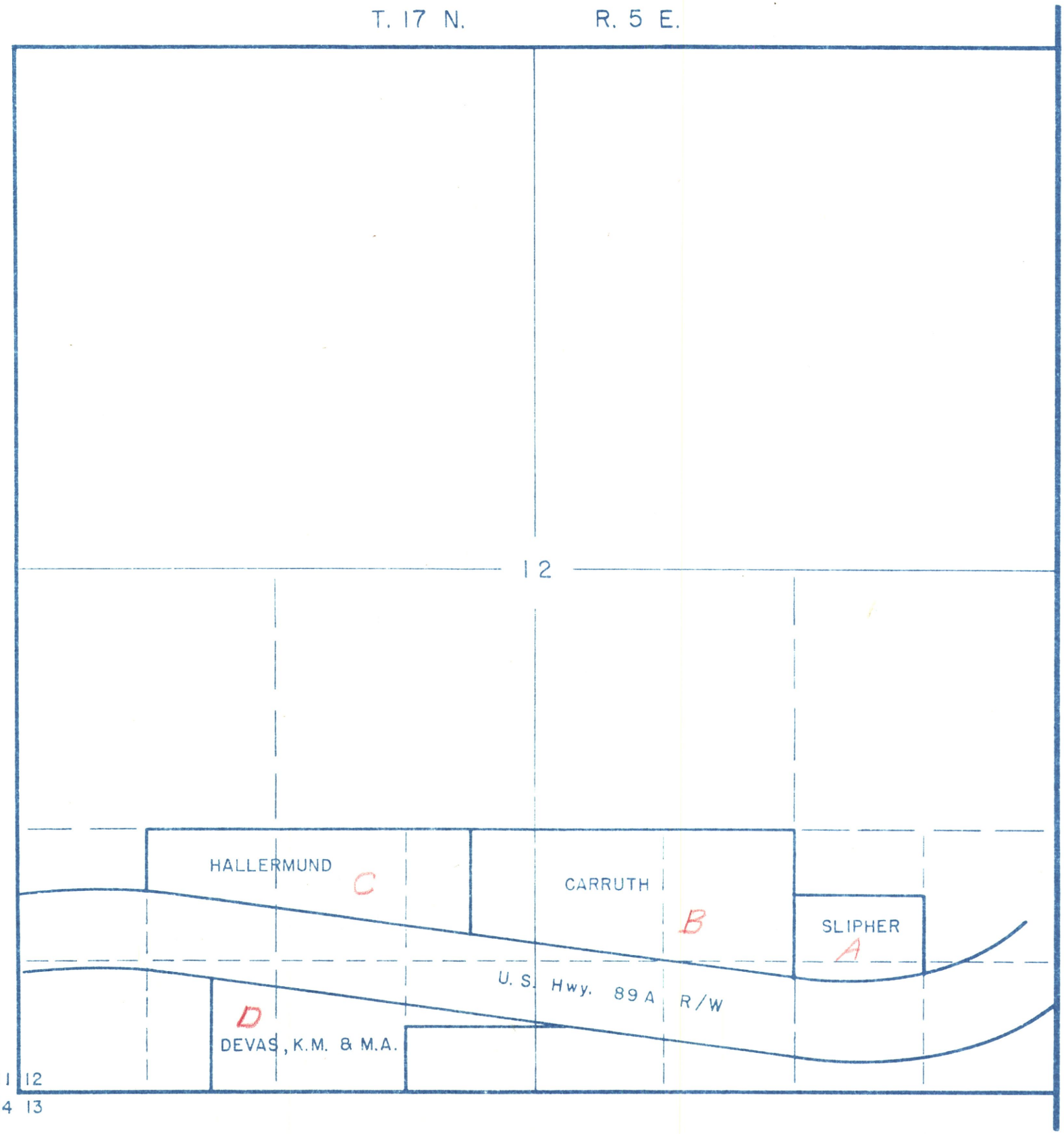
~~*Chief, Branch of Engineering and Construction.*~~
Assistant Chief, Division
of Cadastral Engineering

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in Arizona, is a true copy of the original field notes.

~~*Chief, Branch of Engineering and Consiruction.*~~
Assistant Chief, Division
of Cadastral Engineering

U. S. GOVERNMENT PRINTING OFFICE 16—53565-1


T. 17 N.
R. 5 E.
12
HALLERMUND
C
CARRUTH
B
SLIPHER
A
U. S. Hwy. 89 A R/W
D
DEVAS, K.M. & M.A.
11 12
14 13

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

4-489

WEEKLY REPORT
OF
SURVEYORS AND TRANSITMEN

Year, 1949 Month ~~Sept~~ Oct	Place Where at Work	Nature of Work
SUNDAY 30	Sedona, Ariz.	
MONDAY 31	" "	Assisting with field work in connection with exchange survey T. 17 N., R. 5 E. Sec. 12.
TUESDAY Nov 1	" "	Same
WEDNESDAY 2	" "	Same
THURSDAY 3	" "	Same
FRIDAY 4	" "	Same
SATURDAY 5	" "	Non work day

I HEREBY CERTIFY that the above is a true report of services performed by me for week ending the 5th ~~XXXX~~ day of November, 1949

Clarence E. Billey
(Name)

Nov 10, 1949
(Date)

Engineering Aide
(Title)

Albuquerque, New Mexico.
(Post Office) (State)

Exchange Survey
Group No. 678

Same
(Telegraph), (State)

State of Arizona.

U. S. GOVERNMENT PRINTING OFFICE

6—10

DIAGRAM PROGRESS REPORT

GROUP NO. _____ STATE OF _____

T. _____ R. _____ T. _____ R. _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

T. _____ R. _____ T. _____ R. _____

_____ Mer.

SUMMARY FOR THE WEEK

	No. of Cost Days
Without party	
With party (not on line)	
On line	
Total	
	Miles
Original surveys	
Retracements	
Dependent resurveys	
Independent resurveys	
Metes and bounds surveys	
Total	

Div. E.

Surveyors are instructed to report fractional weeks at the beginning and end of each month on separate sheets. Fractional weeks on different assignments will also be reported separately. 6—1082

Classification Report

With Reference To—	T. _____ R. _____	T. _____ R. _____	T. _____ R. _____	T. _____ R. _____
1 Surface,				
2 Timber,				
3 Undergrowth,				
4 Transportation,				
5 Water,				
6 Complications,				

Indicate by *A*, *B*, or *C*, in accordance with the following table:

Index	1 Surface	2 Timber	3 Undergrowth	4 Transportation	5 Water	6 Complications
A Minimum,	Rolling.	None.	Little.	Under 25 miles.	Plenty.	Original surveys.
B Intermediate,	Rolling, Mountainous.	Scattering.	Much; under 4 feet high.	Over 25 miles, or pack train.	Scarce.	Simple resurveys.
C Maximum,	Rough, Mountainous.	Heavy.	Thick; over 4 feet high.	By pack train over 25 miles.	Over 1-day haul.	Retracement, restoration, and metes and bounds.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

4-489

WEEKLY REPORT
OF
SURVEYORS AND TRANSITMEN

Year, 1949 Month ~~Sept~~ Oct.	Place Where at Work	Nature of Work
SUNDAY 23	Albuquerque, New Mexico.	
MONDAY 24	Enroute	Leave Albuquerque, 9:00 AM. via BLM truck I.89 enroute to Sedona, Arizona. Arrive Flagstaff Arizona. 5:00 PM.
TUESDAY 25	Enroute	Leave Flagstaff, Arizona. 11:00 AM. arrive Sedona, Arizona. 12 noon.
WEDNESDAY 26	Sedona, Ariz.	Assisting with field work in connection with exchange survey, T. 17N., R. 5 E. Sec. 12.
THURSDAY 27	" "	Same
FRIDAY 28	" "	Same
SATURDAY 29	" "	Non work day.

I HEREBY CERTIFY that the above is a true report of services performed by me for

week ending the 29th day of September, 1949

Clarence E. Bilbray
(Name)

Nov. 10, 1949
(Date)

Engineering Aide
(Title)

Albuquerque, New Mexico.
(Post Office) (State)

Exchange Survey
Group No. 678

Same
(Telegraph), (State)

State of Arizona.

U. S. GOVERNMENT PRINTING OFFICE 6—1082

DIAGRAM PROGRESS REPORT

GROUP NO. _____ STATE OF _____

T. _____ R. _____ T. _____ R. _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

T. _____ R. _____ T. _____ R. _____

_____ Mer.

SUMMARY FOR THE WEEK

	No. of Cost Days
Without party	
With party (not on line)	
On line	
Total	
	Miles
Original surveys	
Retracements	
Dependent resurveys	
Independent resurveys	
Metes and bounds surveys	
Total	

Div. E.

Surveyors are instructed to report fractional weeks at the beginning and end of each month on separate sheets. Fractional weeks on different assignments will also be reported separately.

6—1082

Classification Report

With Reference To—	T. _____ R. _____	T. _____ R. _____	T. _____ R. _____	T. _____ R. _____
1 Surface,				
2 Timber,				
3 Undergrowth,				
4 Transportation,				
5 Water,				
6 Complications,				

Indicate by *A*, *B*, or *C*, in accordance with the following table:

INDEX	1 Surface	2 Timber	3 Undergrowth	4 Transportation	5 Water	6 Complications
A Minimum,	Rolling.	None.	Little.	Under 25 miles.	Plenty.	Original surveys.
B Intermediate,	Rolling, Mountainous.	Scattering.	Much; under 4 feet high.	Over 25 miles, or pack train.	Scarce.	Simple resurveys.
C Maximum,	Rough, Mountainous.	Heavy.	Thick; over 4 feet high.	By pack train over 25 miles.	Over 1-day haul.	Retracement, restoration, and metes and bounds.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Public Survey Office
103 U.S.Court House
Phoenix, Arizona

June 20, 1949

RECEIVED U. S. F. S.
JUN 23 1949
Region 3
Watershed Mgmt. & Lands

Supp. Inst. Oct 20, 1949

Gen. Inst. Oct. 18, 49

SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 678

Township No. 17 North, Range 5 East.
Gila and Salt River Meridian

These instructions are intended to provide for the survey of a tract of land situated in Sec. 12, T. 17 N., R. 5 E. and south of U.S.Highway No. 89A, in order to form a proper basis for an exchange for other lands pursuant to the Act of March 20, 1922 (42 Stat. 465) as amended by the Act of February 28, 1925 (43 Stat. 1090, 16 U.S.C. Sec. 485, 486).

Authority for the issuance of these Special Instructions is contained in Bureau of Land Management Decision 52104 "ADL:GHG" (Arizona).

The applicant is the Forest Service.

History of Prior Surveys

The east boundary of T. 17 N., R. 5 E. was surveyed by J.C.Smith in 1885. The greater portion of the township was subdivided by R.C.Powers in 1886, including section 12.

In 1902 W.O.Secor completed the survey of the township and resurveyed among other lines the north boundary of section 12.

This township was authorized for resurvey and the special instructions dated Feb. 14, 1946 were approved on Feb. 28, 1946.

Method of Procedure

The south boundary of Sec. 12 will be resurveyed and the corners thereon rehabilitated if not conforming to standard requirements. Any missing corners will be reestablished.

The south half of the west boundary of Sec. 12 will also be resurveyed and if the 1/4 sec. cor. on the west boundary is missing, it will be necessary to resurvey the entire line.

It may not be necessary to resurvey the north and east boundaries of the section if the 1/4 sec. cors. thereon are found.

The center 1/4 sec. cor. of Sec. 12 will be established at the point of intersection of the center lines.

The points for the 1/16 sec. cors. on the boundaries and at the center of the SW. quarter of Sec. 12 will be determined and if deemed necessary by the Forest Service for administrative purposes will be monumented.

Other necessary subdivision-of-section lines will be run as indicated on the accompanying diagram as required.

The position of the south boundary of the right-of-way of U.S.Highway No. 89A will be determined and also the points of intersection with the necessary subdivision-of-section lines.

Having determined its position, the boundaries of the Tract to be exchanged will be surveyed in consecutive order beginning at Cor. No. 1.

The corner monuments will consist of iron posts and be appropriately marked with corner numbers and survey number.

The survey will be designated as Exchange Survey No. 678.

Provision has not been made in the above for the subdivision of the SE. $\frac{1}{4}$ of the section, since the portion in the listed $N\frac{1}{2}SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$ appears so small as to be almost negligible. In case a small area does exist to be included in the exchange, it would appear that the south boundary thereof could be extended easterly on the proper bearing to intersection with the right-of-way.

General

In addition to these special instructions, the manual of surveying instructions, 1947, will be the proper guide for all technical procedure.

Upon completion of the field work, the field notes of the survey will be prepared in triplicate which along with a plat of the survey drawn to scale, will be mailed to the Public Survey Office at Phoenix for checking and approval.

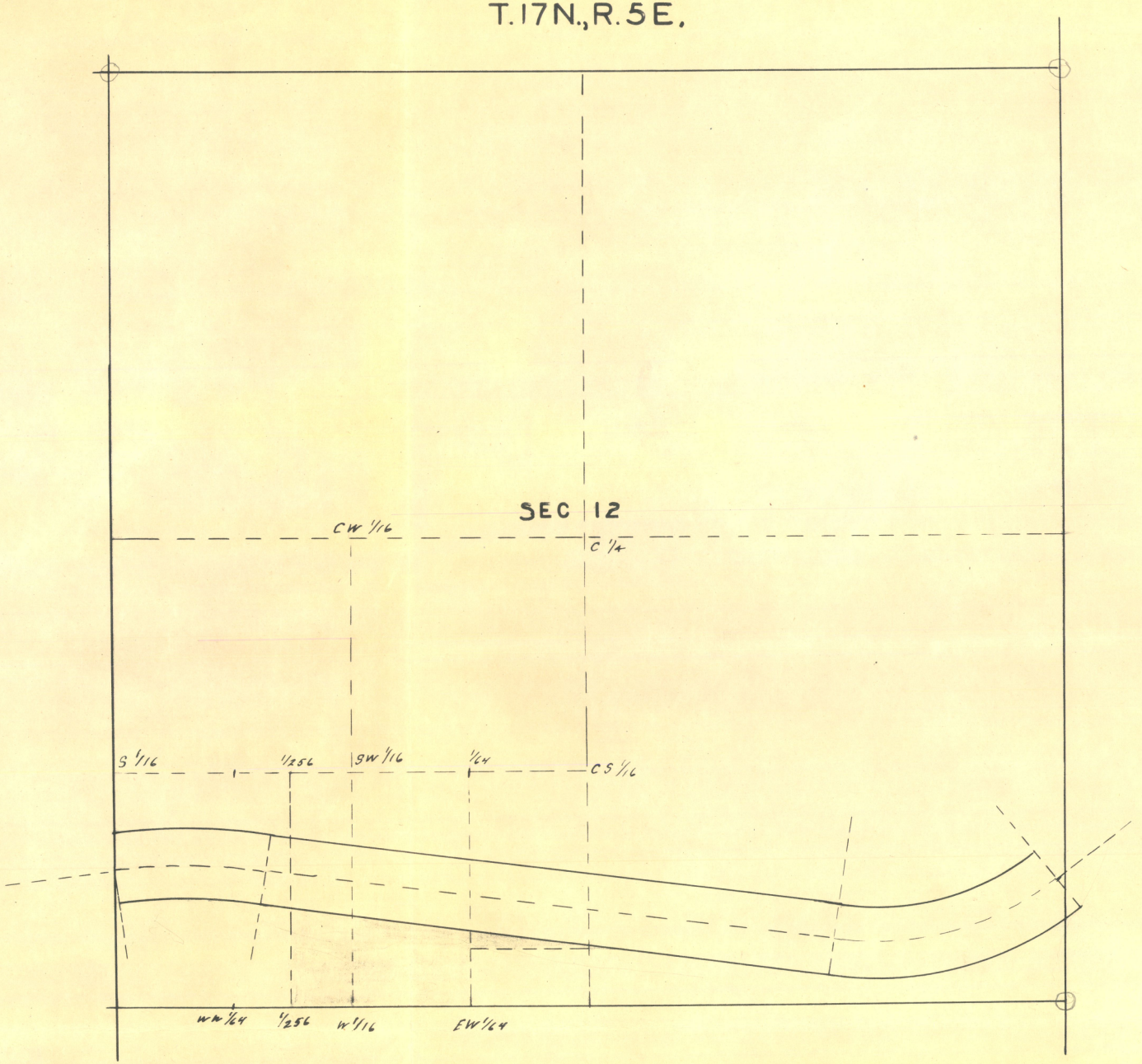
Should conditions arise appearing to demand additional instructions or which apparently make these special instructions inapplicable as prepared, the chief of field party will be

expected to submit a report of the situation with such recommendations as may be responsive to the authorization.

Frank W. Chapin
Office Cadastral Engineer

Approved: July 7, 1949

T.17N., R.5E.



75.00
10.00 misc
85.00
7
595.00

600 ± Freebl
100 - office
700 ±

EXCHANGE SURVEY NO. 678

In Sec. 12, T. 17 N., R. 5 E. Ariz.

4-669
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

DIRECTIONS.—1. Carry out the area in acres to three decimals and all other calculations to two decimals only.
2. In balancing the latitudes and departures do not obliterate or change the original figures, but put the corrections above in red ink. Do not change the footing of the original figures, but put the corrected footing below in red ink.
3. See Chapter IX, Manual of 1930, for instructions relative to balancing the closing error, computation of areas, and use of total latitudes and departures.

TABLING AND CALCULATIONS OF Tract C.

U. S. GOVERNMENT PRINTING OFFICE 6—6772

No.	COURSE	DISTANCE	LATITUDES		DEPARTURES		DOUBLE MERIDIAN DISTANCE	NORTH AREAS	SOUTH AREAS	TOTALS	
			NORTH	SOUTH	EAST	WEST				LATITUDE	DEPARTURE
	N. 81-10 W.	42 12	6 46			41 62	46 80	30 234			
	N. 82-52 W.	2 60	32			2 58	2 59	83			
	S. 0-08 W.	1 58		1 58		00	00		00		
	S. 89-41 E.	4 89		01	4 89		4 89		06		
	S. 0-14 W.	9 88		9 88		04	9 75		96 38		
	S. 89-37 E.	14 63		09	14 63		24 34		2 43		
	N. 0-32 E.	4 95	4 95		04		39 02	193 16			
	S. 89-39 E.	24 68		15	24 68		63 74		9 88		
			11 74	11 72	44 25	44 24		2) 38.757			
								19.38 Acres.			
			+ 01		+ 00						

00 per 5 chs. 00 per inch.

4-669
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

In Sec. 12, T. 17 N., R. 5 E., Ariz.

DIRECTIONS.—1. Carry out the area in acres to three decimals and all other calculations to two decimals only.
2. In balancing the latitudes and departures do not obliterate or change the original figures, but put the corrections above in red ink. Do not change the footing of the original figures, but put the corrected footing below in red ink.
3. See Chapter IX, Manual of 1930, for instructions relative to balancing the closing error, computation of areas, and use of total latitudes and departures.

TABLING AND CALCULATIONS OF Tract A

U. S. GOVERNMENT PRINTING OFFICE 6—6772

No.	COURSE	DISTANCE	LATITUDES		DEPARTURES		DOUBLE MERIDIAN DISTANCE	NORTH AREAS	SOUTH AREAS	TOTALS	
			NORTH	SOUTH	EAST	WEST				LATITUDE	DEPARTURE
	N. 89-46 W.,	2461.5		10.1/10		2461.4	2488.4	251.3			
	S. 0-39 W.	1192.1		1192.1		13.5	13.5		160.9		
	S. 81-10 E.	1998.5		306.8/10	1974.6		1974.8		6058.7		
	S. 89-39 E.	468.9		02.9	468.6		4417.6		128.1		
	N. 1-14 E.	1492	1491.7		32.2		4917.7	73357.13			
			1501.7	1501.9	2474.9	2475.0		2)67.261			
								33.63	Acres.		
Tract B											
	N. 89-46 W.	2456	09.9/10.2			2456.5/0	2460.7	243.6			
	S. 0-08 W.,	829.8		829.8		02.1/0.9	02.1		1.7.4/0.8 3.5		
	S. 82-52 E.,	260.5		32.3	258.5		258.5		8.3.5		
	S. 81-10 E.,	2213.5		339.9	2187.6/10		2703.8		9190.2		
	N 0-39 E.	1192.2	1192.1		13.5/10		4903.9	58459.7			
			1202.1	1202.5	2459.3	2457.9		49420 2)48.660			
								24.330			
								24.71			
								2)49.412			
								24.70	Acres.		

4-669 b
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

Based on Direct Solar taken Oct. 25

TRAVERSE OF Retracement of sec. 12 Beginning at Ethris SW. cor.

U. S. GOVERNMENT PRINTING OFFICE: 6—8585

NO.	COURSE	DIST.	LATITUDE		DEPARTMENT		TOTALS	
			NORTH	SOUTH	EAST	WEST	LATITUDE	DEPARTMENT
	N.0-02'W	78.93 7/10	78 93 7/10			04 6/10		
	W.	.06 2/10				06		
	N.89-54E.	40.19 9/10	06 8/10		40 19 9/10			
	N.89-55 E.	40.23 6/10	06 2/10		40 23 6/10			
	S. 1-23 W.	39.64 4/10		39 63 5/10		95 6/10		
03040 99955	S.1-44½ W.	39.88 3/10		39 86 3/10		121 2/10		
	W.	78.06 9/10				78 06 9/10		
	N	55 8/10	55 8/10					
			79 62 3/10	79 49 8/10	80 43 5/10	80 34 3/10		
			49 6/10					
			12 5/10					
W½	S. 89. 54W	40.19 9/10		06 8/10		40 19 9/10		
	S. 0-04½ E	78.93 7/10		78 93 7/10	10 3/10			
	S. 89-35½ E	39.03 8/10		27 8/10	39 03 4/10			
*	N. 0-45 E		79 28 3/10		106 2/10			
E½	S. 89. 55W	40 24		06		40 24		
	S. 0-42 W			80 28		97		
	S. 89-35½ E	39.03 8/10		28	39 04			
	N. 1-44½ E	39.88	39 86		121			
	N. 1-21 E	40.77	40 76		96			
S½								
	S. 0-04½ E			39 47	05			
	S. 89-35½ E			56	78 07			
	N. 1-44½ E		39 86		121			
*			17			79 33		

True Bdys. Sec. 12, T. 17 N., R. 5 E. (Based on True Mer.)

4-669 b
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

TRAVERSE OF

U. S. GOVERNMENT PRINTING OFFICE: 6—8585

NO.	COURSE	DIST.	LATITUDE		DEPARTURE		TOTALS	
			NORTH	SOUTH	EAST	WEST	LATITUDE	DEPARTURE
	S. 89-54 W	40.23		07		4023		
	S. 89-55 W.	40.20		058		4020		
	S. 0-06 E.	78.93		7893	138			
	S. 89-37 E.	78.07		513	7807			
99954 03025	N. 1-44 E.	39.88	39862		1206			
99972 02385	N. 1-22 E.	39.65	39639		946			
			79501	79571	8036	8043		
				501		36		
				07		07		
W ½								
				058		4020		
				7893	138			
				25 6	39035			
	N. 0-44½ E.	79.16	7915		1035		N & S ℄	
			7915	7924 4	40208	4020		
				15	0			
				09	008			
S ½								
				3946 5	06 9			
				513	7807			
			3986 2		120 6			
*			11 ℄			7934 5	E-W ℄	
N ½								
			0963 9		94 6			
				07		4023		
				058		4020		
				3946 5	06 9		E-W ℄	
×				94 6	7941 5			
SE ¼	N. 89-55 W	39.71 6	058			3971 6		
	S. 0-44½ W.	39.65 8		3965 5		50 8		
	S. 89-37 E.	39.03 5		26 1	3903 5			
	N. 1-44 E.	39.88	3986 2		120 6			
			3991 0	3991 6	4024 1	4022 4		
SW. ¼	N. 89-55 W.	39.61	058			3961		
	S. 0-06 E.	39.46 4		3946 4	07			
	S. 89-37 E.	39.03 5		26 1	3903 5			
	N. 0-44½ E.	39.65 8	3965 5		50 8			
			3971 3	3972 5	3961 3	3961		

4-669 b
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

Sec. 12 - T. 17 N., R. 5 E.

TRAVERSE OF Tract A

U. S. GOVERNMENT PRINTING OFFICE: 6—8585

NO.	COURSE	DIST.	LATITUDE		DEPARTURE		TOTALS	
			NORTH	SOUTH	EAST	WEST	LATITUDE	DEPARTURE
	N.89-46 W	24.61 4/5	09 9/10			24 61 4/5		
	S.0-39 W.	11.92 2/5		11 92 2/5		13 6/10		
15356 98814	S.81-10 E.	19.98 4/5		3 06 9/10	19 74 7/10			
	S.89-39 E.	4.68		02 8/10	4 68			
99977 02167	N.1-14½ E	14.92	14 91 7/10		32 3/10			
			15 01 6/10	15 01 9/10	24 75	24 75		

Tract B

	N.89-45½W.	24.55 9/10	10 7/10			24 55 9/10		
	S.0-08 W.	8.29 8/10		8 29 8/10		02 0/10		
12418 99226	S.82-52 E.	2.60 5/10		32 3/10	2 58 5/10			
	S.81-10 E.	22.13 4/5		3 39 9/10	21 87 1/10			
	N.0-39 E.	11.92 2/5	11 92 2/5		13 6/10			
			12 02 9/10	12 02 0/10	24 59 2/10	24 57 9/10		

Tract C

	N.81-10 W.	42.11 8/10	6 46 8/10			41 61 8/10		
	N.82-52 W.	2.60 5/10	32 3/10			2 58 5/10		
	S.0-08 W	1.58		158		00 5/10		
	S.89-41 E	4.89 6/10		02 8/10	4 89 6/10			
	S.0-14 W.	9.88 2/5		9 88 2/5		04 1/10		
	S.89-37 E.	14.63 9/10		09 8/10	14 63 9/10			
	N.0-32 E.	4.95 1/10	4 95 1/10		04 6/10			
	S.89-39 E	24.68		15 0/10	24 68			
			11 74 2/5	11 73 8/10	44 26 1/10	44 24 9/10		

Division of Engineering
Branch of Surveys

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Public Survey Office
Santa Fe, New Mexico.

June 27, 1949.

MEMORANDUM

To: The Director, Bureau of Land Management.

From: Regional Cadastral Engineer, Region V.

Subject: Decision - 52108, "ADL:GHG" (Arizona)
Special Instructions, Exchange Survey
No. 678, Arizona.

I am transmitting herewith special instructions to govern Forest Exchange Survey No. 678, T. 17 N., R. 5 E., Gila and Salt River Meridian, Arizona.

For the Regional Administrator.

Enclosure

Guy P. Harrington
Regional Cadastral Engineer

Approved: JUL 7 1949
(SGD) WILLIAM H. RICHARDS
Chief, Branch of Surveys.

cc Chief, Division of Engineering
Regional Administrator, Region V
Regional Cadastral Engineer, Region V
Office Cadastral Engineer, Phoenix

Division of Engineering
Branch of Surveys

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Public Survey Office
Santa Fe, New Mexico.

June 27, 1949.

MEMORANDUM

To: The Director, Bureau of Land Management.

From: Regional Cadastral Engineer, Region V.

Subject: Decision - 52104; "ADL: ZHO" (Arizona)
Special Instructions, Exchange Survey
No. 678, Arizona.

I am transmitting herewith special instructions to govern Forest Exchange Survey No. 678, T. 17 N., R. 5 E., Gila and Salt River Meridian, Arizona.

For the Regional Administrator.

Enclosure

Guy P. Harrington
Regional Cadastral Engineer

Approved: _____

Chief, Branch of Surveys.

cc Chief, Division of Engineering
Regional Administrator, Region V
Regional Cadastral Engineer, Region V
Office Cadastral Engineer, Phoenix

Public Survey Office
103 U.S.Court House
Phoenix, Arizona June 20, 1949

SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 678

Township No. 17 North, Range 5 East.
Gila and Salt River Meridian

These instructions are intended to provide for the survey of a tract of land situated in Sec. 12, T. 17 N., R. 5 E. and south of U.S.Highway No. 89A, in order to form a proper basis for an exchange for other lands pursuant to the Act of March 20, 1922 (42 Stat. 465) as amended by the Act of February 28, 1925 (43 Stat. 1090, 16 U.S.C. Sec. 485, 486).

Authority for the issuance of these Special Instructions is contained in Bureau of Land Management Decision 52104 "ADL:GHO" (Arizona).

The applicant is the Forest Service.

History of Prior Surveys

The east boundary of T. 17 N., R. 5 E. was surveyed by J.C.Smith in 1885. The greater portion of the township was subdivided by R.C.Powers in 1886, including section 12.

In 1902 W.O.Secor completed the survey of the township and resurveyed among other lines the north boundary of section 12.

This township was authorized for resurvey and the special instructions dated Feb. 14, 1946 were approved on Feb. 28, 1946.

Method of Procedure

The south boundary of Sec. 12 will be resurveyed and the corners thereon rehabilitated if not conforming to standard requirements. Any missing corners will be reestablished.

The south half of the west boundary of Sec. 12 will also be resurveyed and if the 1/4 sec. cor. on the west boundary is missing, it will be necessary to resurvey the entire line.

It may not be necessary to resurvey the north and east boundaries of the section if the 1/4 sec. cors. thereon are found.

The center 1/4 sec. cor. of Sec. 12 will be established at the point of intersection of the center lines.

The points for the 1/16 sec. cors. on the boundaries and at the center of the SW. quarter of Sec. 12 will be determined and if deemed necessary by the Forest Service for administrative purposes will be monumented.

Other necessary subdivision-of-section lines will be run as indicated on the accompanying diagram as required.

The position of the south boundary of the right-of-way of U.S.Highway No. 89A will be determined and also the points of intersection with the necessary subdivision-of-section lines.

Having determined its position, the boundaries of the Tract to be exchanged will be surveyed in consecutive order beginning at Cor. No. 1.

The corner monuments will consist of iron posts and be appropriately marked with corner numbers and survey number.

The survey will be designated as Exchange Survey No. 678.

Provision has not been made in the above for the subdivision of the SE. ¼ of the section, since the portion in the listed N½SW¼SW¼SE¼ appears so small as to be almost negligible. In case a small area does exist to be included in the exchange, it would appear that the south boundary thereof could be extended easterly on the proper bearing to intersection with the right-of-way.

General

In addition to these special instructions, the manual of surveying instructions, 1947, will be the proper guide for all technical procedure.

Upon completion of the field work, the field notes of the survey will be prepared in triplicate which along with a plat of the survey drawn to scale, will be mailed to the Public Survey Office at Phoenix for checking and approval.

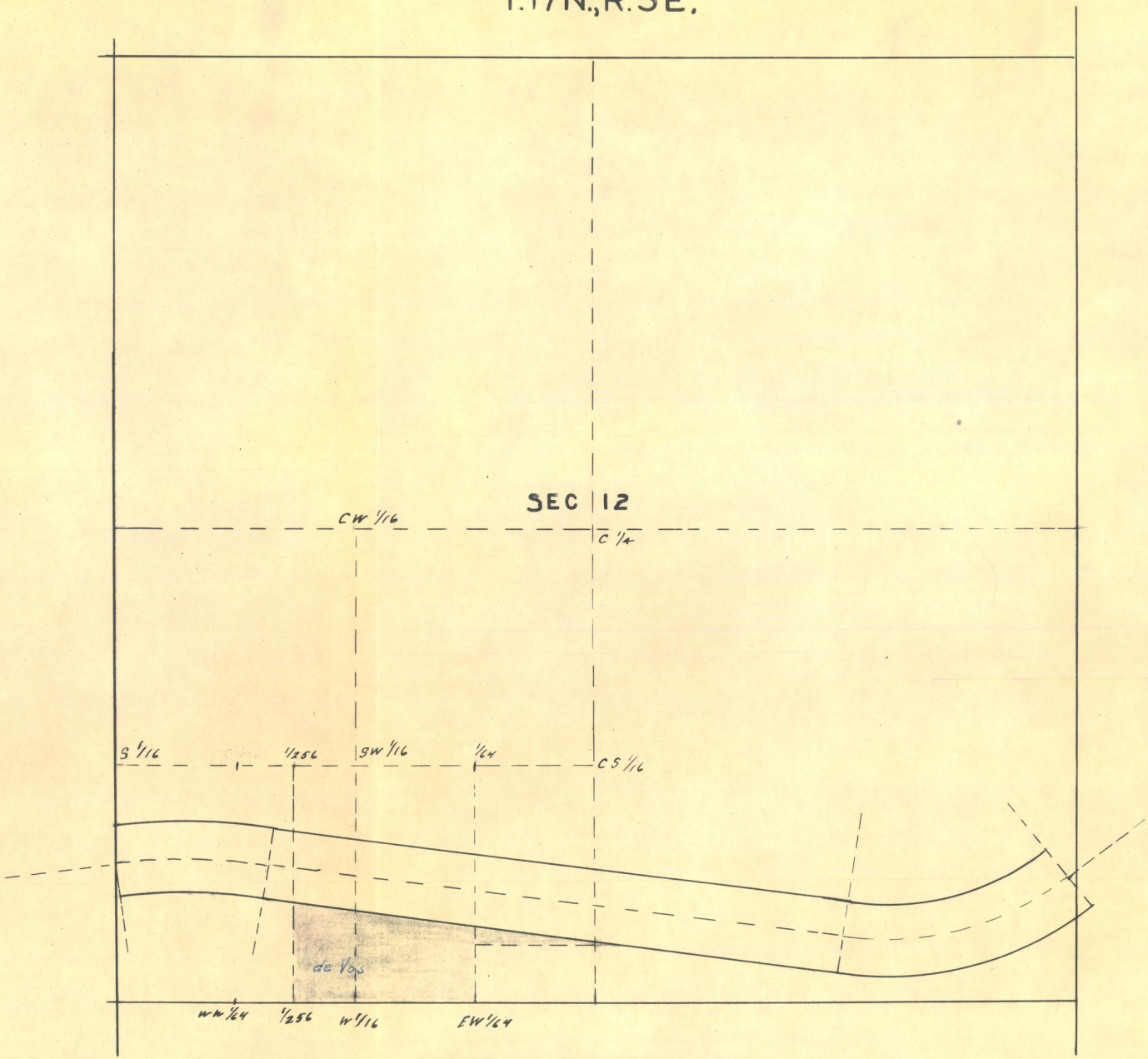
Should conditions arise appearing to demand additional instructions or which apparently make these special instructions inapplicable as prepared, the chief of field party will be

expected to submit a report of the situation with such recommendations as may be responsive to the authorization.

Frank W. Chapin
Office Cadastral Engineer

Approved: July 7, 1949

T.17N., R.5E.



EXCHANGE SURVEY NO. 678

(Tract B)

4-6738

Field Notes

38

Of the Survey of Tract B in Sec. 12,

32

Township 17 North, Range 5 East

(Exchange Survey No. 678)

Gila and Salt River

14

Arizona

7

38

Everett H. Kimmell, Cadastral Engineer

(Surv. Instr. dated) October 20, 1949 - (Appr.) Feb. 6, 52

(assign " " October 18, 1949.

Survey Commenced Nov. 3, 1949 - Completed Nov. 4, 1949.

Page 1

Township 17 North, Range 5 East, of the Gila and Salt River meridian, Arizona, is located within the Coconino National Forest and the survey of Tract B in section 12 was initiated on the official request of the U.S. Forest Service to accommodate the exchange of lands.

The east boundary of section 12 was originally surveyed by J.C. Smith in 1885; the north, south, and west bdys were originally surveyed by W.O. Seaver in 1902.

The boundaries of section 12 were dependently resurveyed and the center lines of the section were surveyed in ~~Oct~~ October, 1949 in connection with the survey of Tract C.

The survey of Tract B was executed with Gurley solar transit ~~No.~~, Serial No. 49657. A description of this instrument and notes for the determination of azimuth, are included in the field notes of the survey of Tract C.

Survey of Tract B

The smaller legal subdivisions of the SW ¼ of sec. 12, which were required to establish the boundaries of Tract B, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tract. Only those subdivisional corners which are angle points of the tract boundary were monumented.

4-6738

at the point for the C-E-E-SW 1/256 sec. cor. designated as Angle Point 1 of Tract B
Set i p, 3' L, 1" d, 22 ins. in the gr & solid rock and in a MS & top, with bc mkd

S 12
C-E-E-SW
1/256
1949

for cor
R pine, 12", N. 64° E, 101 lks dist, mkd BT.
" " , 10, S. 78 W. 40 " " , " C-E-E-SW 1/256 BT.
Point for the C-S 1/16 sec. cor. bears S 89° 46' E, 4.912 chs. dist.

N. 89° 46' W, on N. bdy of Tract B and along the S. 1/16 sec. line.
(center of page 11) (

9.53
14.736
17.09
24.56

S. 0-08 W, on W. bdy. of Tract B, and along the W-W 1/4 sec. line

7.30
8.298 Pt for Angle Point 3 of Tract B, at Angle Point 3 of Tract C, on S. line of highway right-of-way, monumented by an i p, 3' L, 1" d, ~~+2" in top~~ set and mkd ~~instead~~ as described in the field notes of the survey of tract C, with bc now mkd

T 17 N | TR B
R 5 E | AP 3
S 12 | AP 3
TR C
1949

S. 82° 52' E, bet tracts B & C, and along S. line of the highway right-of-way.

2.605 Pt for Angle Point 4 of Tract B, at Angle Point 2 of Tract C, monumented by an i p, 3' L, 1" d, set and mkd ~~and~~ as described in the form of the survey of tract C, with bc now mkd

TR B
AP 4
AP 2
TR C
1949

S. 81-10 E

22.135 Pt for Angle Pt 5 of Tract B, on N. bdy of Tract C and the E-E-W 1/256 sec. line.

		Set i p 3'l, 1"d, 28" in gr, with blanks	
		TRB / APS	
		TRC 1949	
		N. 0° 39' E, on E. bdy. of Tract B and along the E. E. W 1/256 sec. line.	
	1.01		
	11.922	Avg Pt 1 — — —	
		Area of Tract B: 24.70 acres.	

Cover

4-6738

Field Notes

Of the Dependent Resurvey of a Portion of the East Boundary and Subdivisional Lines, and Survey of Subdivision and Tracts A, B, and C in Section 12, Township 17 North, Range 5 East.
(Exchange Survey No. 678)

Page 1

Township 17 North, Range 5 East, of the Gila and Salt River meridian, Arizona, is located within the Coconino National Forest and the survey of certain tracts in section 12 was initiated on the official request of the U.S. Forest Service to accommodate the exchange of lands.

The east boundary of section 12 was originally surveyed by J.C. Smith in 1885; the north, south and west bdys. of the section were originally surveyed by R.C. Powers in 1886. The north bdy. of the sec. was resurveyed by W.O. Secor in 1902.

All corners on the north and east bdys of the section were found in a good state of preservation. The corner of secs. 11, 12, 13 and 14 had been perpetuated by a Licensed Surveyor, Clyde M. Etter, of Sedona, Arizona, by driving a iron pipe in the center of a mound of stone, in April of 1946, and he states that he found the original stone corner monument lying loose near by and placed it alongside the iron post. This position was accepted as being the best available evidence of the original corner. Many local surveys of private lands have been initiated from this position.

Oct. 26, 1949
Nov. 4, "

Bureau of Land Management

The survey was executed with a Gurley solar transit, Serial No. 49657, constructed in accordance with the standard instrumental specifications of the U.S.G.S. The horizontal circle has two double opposite verniers reading to single minutes and the vertical circle is equipped with one double vernier reading to single minutes.

The directions of all lines were determined by transit method, with azimuth based on altitude observations on the sun at the southwest corner of sec. 12. Measurements were made with a Lufkin steel tape, 5 chains in length, graduated every link for the first 100 lks, and thereafter at intervals 10 links. The tape was tested by comparison with a standard tape and found correct. Measurements were made on the slopes and the vertical angle of each interval ascertained by a clinometer in good adjustment; summations of the horizontal equivalents only are entered in this field note record.

Oct. 25, 1949, at the cor. of secs. 11, 12, 13, & 14, of T. 17 N., R. 5 E., in ϕ 34° 51 3/4' N., and λ 111° 47 3/4' W., at 3h 28m p.m., app. time, a series of three equal altitude obsns. of the sun were made for azimuth, reading the horiz angle from the N. edge of an isolated pinnacle, about 3 miles dist, counter-clockwise to the sun.

Mean observed horiz angle = 176° 31' 40"
" " vert angle = 22° 03' 55"

Oct. 26, 1949, at the same station, at 8h 52m p.m., app. time a second series of three obsns were made, reading the horiz angle from the N. edge of the pinnacle, clockwise to the sun.

Mean observed horiz angle = 75° 26' 10"
" ~~sun~~ " vert " = 24° 55' 25"

Computed bearing to N. edge of pinnacle from
P.M. series of obsns = N. 52° 26' 33" E.
From a.m. " " " = N. 52° 25' 05" E.
Mean bearing = N. 52° 25' 49" E.

4-6738

E. Bdy. Sec. 12,
Dependent Resurvey, ~~Portion of Subdivision~~, T. 17 N. R. 5 E.

54

	Reestablishment of Survey Executed by J. C. Smith, Deputy Surveyor, in 1885. 37 38	
	Beginning at the cor. of secs. 7, 12, 13, & 18, on E. bdy of the Tp, which is monumented by a properly mkd. sandstone, 12 x 6 x 2 ins., firmly set in a small md of s, at the corner pt,	
	Set an i.p, 3' L, 2" d, 30" in the gd, with bc mkd	
	T 17 N R 5 E | R 6 E S 12 | S 7 S 13 | S 18 1949	
	f. w The original bc is: A cedar, 16" d, brs N. 3¾° E., 20 lks dist., mkd T 17 N R 6 E S VII BT. A pinon, 8" d, (dead) brs S. 4¼° E., 31 lks. dist, mkd T 17 N., R. 6 E XVIII BT. New bc's: A pinon, 8" d, brs S. 77° E., 50 lks dist mkd T 17 N R 6 E S 18 BT. A cedar 8", S. 34¼° W., 72 " " mkd T 17 N R 5 E S 13 BT. A cedar, 10, N. 65¼° W. 89 " " mkd T 17 N R 5 E S 12 BT. Raise a Md S, 2' L, 1½' h, W. of cor and bury the old corner stone alongside the i.p.	
	N. 1¼° E, Lot secs. 7 & 12 Desc. broken N. slope ~~Over rolling & broken~~ thru med. heavy T & U.	
8.33	U.S. C & GS Bm R 31", 13 lks. W. of line.	
8.80	Graded road, trs ENE - WSW.	
10.87	℄ of U.S. Hwy, at conc, trs NE - SW., 60 ft. below sec. cor, thence over rolling broken land, continue thru T & U.	
19.30	Ravine, run E. from NW.	
19.94	Pt. for the S¼ sec. cor. of secs. 7 & 12.	
24.35	Bottom of small canyon, run E. from NW., asc. 66 ft.	
28.40	Spur, slopes E., desc. 63 ft.	
34.00	Wash, 10 ft d, run SE, asc. 64 ft.	
38.50	Spur, slopes SE, desc. 13' to ¼ sec cor.	
39.88	The ¼ sec. cor of secs. 7 & 12, mon. by a properly mkd, broken sandstone, in a small Md S.	
	at the cor pt.	
	Set i.p, 3' L, 1" d, 27" in gd, with bc mkd	
	¼ S 12 | S 7	

4-6738

fw
Orig b.t.s
A pinon, 12", S.34-38 E., 44, limby mkd 1/4 S7 B.T.
" " 8, N.42½ W., 70, mkd 1/4 S12 B.T.
New b.t.:
A cedar, 24", S.14 W. 42 ths dist, mkd 1/4 S12 B.T.
Pairie a M of S, 2x1½, W. of cor & limy th old cor above along,
N.1°22' E; beg new meas.
along a broken E slope.
4.70 Spur, slopes E., desc. 80 ft.
12.00 Draw, course E., thence over roll a broken l.
15.80 Desc. NE. slope, 65 ft.
19.00 Top of a rock ledge, trs E & W
19.80 Mark, 40, 3 ft. deep, cor ESE, gradually asc. 65 ft over roll. & broken land to sec. cor.
39.65 The cor. of secs. 1, 6, 7, & 12, on top of a low ridge which bears ~~E & W~~ NW & SE, monumented by a prop mkd SS, 18x12x6", firmly set in the qr and M of S.
At the cor pt
Set i p, 3' l, 2" d, 27" in qr, with b c mkd
(Page 11)

Dependent Resurvey, Portion of Subdivision, T. 17 N., R. 5 E. 60
Reestablishment of Surveys Executed by
R.C. Powers, Deputy Surveyor, in 1886. 38 39
and W.O.S. cor, " " , in 1902. 42

At the ¼ sec cor. of secs. 13 & 14, which is monumented by a prop mkd malpais stone, 16x10x6", firmly set in a M of S.
Set a i p, 3' l, 1" d, 27" in qr, with b c mkd

S14 | S13
¼
1943

Fw
Orig b.t.:
A juniper, 12", N. 35¾ E., 35 ths dist,
old scribe marks not legible.
New b.t.s:
(page 2)
N.0-07 E., bet secs. 13 & 14 (N½)
Over gently roll l, thru scat timber & mdg
(Page 3)

		From the cor of secs. 7, 12, 13 & 18, on E. bdy of Tp
		N. 89° 37' W., bet secs 12 & 13.
		Over roll C, thru med heavy T & V.
13.50		Enter cult field, brs N. & S.
19.52		Pt. for the E. ¼ sec. cor. of secs. 12 & 13, at prop dist.
38.80		Wash, 20 lks. wide, crs SW, leave cult land, thence over gentroll
39.03	5	Pt. for the ¼ sec. cor of secs 12 & 13, at prop dist, no evid of orig
		S. bi p -- (page 16)
43.91	5	Pt. for the E.E.W. 1/256 sec cor. of secs. 12 & 13, at prop dist.
48.79	5	Pt for the E.W. 1/64 sec. cor. of secs. 12 and 13, at prop dist.
		Set a i p, 3' L, 1" d. 30 ins in gr, with bc mkd
		S12 / E.W. 1/64 / S13 / 1949
		raise a small M of S, W. of cor.
53.70		Arroyo, 10 lks, 6 ft d, crs S.
58.55		Pt. for the W. 1/16 sec. cor. of secs. 12 & 13, at prop. dist.
63.43		Pt. for the E.W.W. 1/256 sec cor. of secs. 12 & 13, at prop dist.
		Set i p, 3' L, 1" d, 27" in gr, with bc mkd
		S12 / E.W.W. 1/256 / S13 / 1949
68.31		Pt. for the W.W. 1/64 sec. cor. at prop. dist.
78.07		The cor of secs 11, 12, 13, & 14.
		L- roll & gently roll.
		S- sandy clay & loam.
		T- pinon, juniper; mxdg. oak brush.
		N. 0° 06' W., bet secs. 11 & 12.
		Over nearly level L, thru very scat T. & V.
9.86	5	Pt. for the SS 1/64 sec. cor. of secs. 11 & 12, at prop dist. (This pt. is not a cor. of one of the Exchange Survey tracts but is monumented on request of the Forest Service)
		Set a i p, 3' L, 1" d, 28" in gr, with bc mkd
		S3 / 1/64 / S11 | S12 / 1949
		raise a M of S, 2' E, 1½ L, W. of cor.
12.24		Center of U.S. Hwy No. 89-A, brs ENE & WSW, enter rd L & scat T.
19.73		Pt. for the S 1/16 sec. cor. of secs. 11 & 12, at prop. dist. (This pt. is not a cor. of one of the Exchange Survey tracts but is monumented on request of the F.S.
		Set i p, 3' L, 1" d, 27" in gr, with bc mkd

	S ½ 6 S11 | S12 1949
	on M of S, 3'L, 2'L, W. of cor.
39.46 5	Pt. for the ½ sec. cor of secs. 1 & 12, at prop. dist. N. end of orig.
	Set ip, 3'L, 1"d, 28" in gr, with L.C. mkd
	¼ S11 | S12 1949
	for
	2 juniper, 8, S. 27¾° E., 28, ¼ S12 BT.
	" " 8, S. 63¾ W., 46 " S11 " .
	NE. cor. of a house and corrals porch brs
	S. 62° 48' W., 60 lks dist.
	Rone on M of S, 3' x 2', W. of cor.
	asc. SSE slope, 37 ft., enter mod heavy T. & V.
42.50	Top of asc., brs ENE. & WSW., thence over roll L, continuing
	thru mod L, T & V.
46.96	In arroyo, 6, 4'd SW from ENE
52.00	" " , 15, 8'd, SW.
55.00	" " , 8, 6'd SW.
67.60	Power line, brs NW & SE.
78.93	The cor of secs 1, 2, 11, & 12, (Page 6)
	L- nearly level to hilly.
	S- sandy clay & loam & rocky
	T- juniper, pinon, mdg scrub oak, catclaw & cactus.
	From the cor. of secs. 1, 6, 7, & 12, on E. bdy of Tp.
	S. 89-54 W., bet. secs. 1 & 12.
	Over hilly land, thru ~~wood~~ heavy T & V.
5.10	Wash, 6, 3'd, S.
11.85	Old wood road, N & S
13.45	Wash, 30, exc SE., 40 ft. below sec. cor., asc. broken NE slope
	125' to the ¼ sec. cor.
40.23	The ½ sec. cor. of secs. 1 & 12, as identified by old M of S and
	orig L.C.s.
	at the cor. pt.
	Set ip, 3'L, 1"d, 18" in gr to solid rock and in M of S to top,
	with 2 c mkd ¼ S1 / S12 1949
	for
	The orig L.C.s (in good condition)
	A pinon, 8, N. 38½ E., 53 lks dist, mkd ¼ S1 BT
	A juniper, 8, S. 17 W. 67 " " " ¼ S12 BT.

This cor is on top of a short spur which slopes abruptly N.

	The orig. corner stone, a prop. mkd. SS, 24 x 12 x 10 ins, was found N. 86½° E, 27 lks. dist. from the true pt. and was buried alongside the i.p.	
	S. 89° 55' W, beg. new mea.	
	Gradually asc. over broken NE. & E. slopes.	
28.46	Near E. foot of a precipitous sandstone hill, about 250 ft. high, offset 8.25 chs. south, thence parallel to line, continuing measurement	
36.15	Spur, slopes S.	
40.20	Offset 8.25 chs. north, to the cor. of secs 1, 2, 11, & 12, which is at the W. foot of the sandstone hill.	
	L- hilly, broken & roll.	
	S- sandy clay & rocky.	
	T- Juniper, pinon, Arizona cypress; undg, scrub oak, palo verde, mescal, & cactus.	
	Subdivision of Sec. 12, T. 17 N, R. 5 E. 40	
	From the ¼ sec cor. of sec 1. 12 & 13	9.915
	N. 0° 44' E, on the N-S center line of sec. 12.	19.83 39.66
	Over gently roll L- thin scat T & U.	
4.95[8]	Point for the center S-S-S 1/256 sec cor. of sec. 12, set a temp stake,	
8.17	Center of U.S. Hwy No. 89-A, brs. N. 81° 10' W. & S. 81-10 E, grad asc over roll L, & med heavy T & V.	
9.91[5]	Pt. for the center S-S ½/64 cor. of sec. 12.	
19.83	Pt. for the " S 1/16 sec. cor. of sec. 12, set a cedar stake.	
32.25	Wash, 10, 4 ft d, crs SE.	
36.40	Same wash, crs SW.	
39.66	Pt. for the center ¼ sec. cor of sec 12	
	Set mp, 3' L, 1" d, 12" in ground to solid rock and in M of S, 5' bare, to top, with B.C. mkd.	
	C ¼ S 12	
	fw 1949	
	(Page 21)	
78.50	Disc. N. slope, 20 ft.	
79.16	The ¼ sec. cor. of secs. 1 & 12.	
	L- rolling.	
	S- sandy clay & loam, and rocky.	
	T- juniper & pinon; undg, scrub oak	

	From the ¼ sec. cor. of secs. 7 & 12, on E. bdy. of Tp.
	N. 89-55 W., on the E-W. center line of sec. 12.
	Over broken & hilly land, thru mod. heavy T & V.
1.25	Spur, slopes SE.
6.10	Wash, 10 lks. wide, ru SE.
19.86	Pt. for the center E 1/16 sec. cor., set a cedar stake.
25.67	Wash, 10, S. from NW.
39.72	The center ¼ sec. cor. of sec. 12.
53.95	Arroyo, 30, 15'd, ru S.
59.52	Pt. for the center W. 1/16 sec. cor. of sec. 12
73.27	Power line, brs approx. N. 20 W & S. 20 E.
79.33	The ¼ sec. cor. of secs. 11 & 12.
	L, hilly & roll.
	S, sandy clay & loam, and rocky.
	T- juniper & pinon, mdg, scrub oak.

The, smaller legal subdivisions of the S. ½ of sec. 12, which were required to establish the boundaries of Tracts A, B, & C, were executed in accordance with the Manual of Surveying Instructions. The following field notes are the record of only those portions of the legal subdivisions which are boundaries of the tracts. The corners of the subdivision were not monumented except those corners which are angle points of the tracts.

Survey of Tract A

At the point for the SE 1/16 sec. cor. of sec. 12, being the intersection of the S. and E. 1/16 sec. lines, and designated as Angle Point 1 of Tract A,

Set an i.p, 3'L, 1"d, 20" in the gr to solid rock and in a M of S, 3'L, to top, with b.c. marked

SE 1/16 S12

1949

A pinon, 8", S. 86½ E., 49, SE 1/16 S12 B.T.

" " 10, N. 82¼ W., 94, " " "

	N. 89° 46' W., along the S 1/16 sec. line and N. bdy of Tract A.
6.10	Wash, 10, ru S.
19.70	Pt. for the center S 1/16 sec. cor.
24.61	Pt. for the C-E-E-S.W. 1/256 sec. cor., designated as Angle Pt. 2 of Tract A and Angle Pt. 1 of Tract B.
	Set an i.p, 3'L, 1"d, 22 ins in the gr to solid rock and in a M of S.

	3' b, to top, with bc mkd S12 C-E-E-SW 1/256 1949
	Set a pinon, 12, N. 64 E., 101, BT. " " , 10 S. 78 W., 40, mkd C-E-E-SW 1/256 S12 BT.
	S. 0° 39' W., between tracts A & B, and along the E-E-W 1/256 sec. line
10.91	Center of U.S. Hwy 89-A, hrs N. 81-10 W. and S. 81-10 E.
11.92	Pt. for Angle Pt. 3 of Tract A and Ang Pt 5 of Tract B, on S. bdy. of Hwy R/W.
	Set an i p, 3' b, 1" d, 28" in gr, with bc mkd TR B | TR A AP 5 | AP 3 TR C 1949
	S. 81-10 E., on S. bdy of Tract A, and S. line of Hwy R/W.
19.98	Pt. for Ang Pt 4 of Tract A and Ang Pt 1 of Tract C, at intersection of S. line of Hwy R/W and the SSS 1/256 sec. line.
	Set an i p, 3' b, 1" d, 28" in gr, with bc mkd AP 1 / TR A TR C \ AP 4 S12 T17NR5E 1949
	S. 89-39 E., on S. bdy of Tract A and along the SSS 1/256 sec. line.
4.68	Point for the C-S-S-SE 1/256 sec. cor, designated as Ang. Pt. 5 of Tract A.
	Set an i p, 3' b, 1" d, 24" in gr, with bc mkd S12 C-S-S-SE 1/256 1949
	N. 1° 14' E., on E. bdy. of Tract A, and along the E 1/16 sec. line.
.30	Center of U.S. Hwy U.S. 89-A, hrs N. 81-10 W. & S. 81-10 E.
14.92	Ang. Pt. 1 of Tract A and point of beginning.
	Area of Tract A =
	Survey of Tract B
	From the C-E-E-SW 1/256 sec. cor. of sec. 12, designated as Ang. Pt. 1 of Tract B and Ang pt 2 of Tract A. N. 89° 46' W., on N. bdy of Tract B, and along the S 1/16 sec. line.
9.53	Arroyo, 20, 12' d. ESE.
14.73	Pt. for the SW. 1/16 sec. cor. of sec. 12.
17.09	SE. cor. of a house, about 36 x 20 ft., 8 lks. N. of line.

	24.56	Pt. for the C-W-SW 1/64 sec. cor. of sec. 12, at mid-pt. bet. the SW 1/16 sec. cor. and the S 1/16 sec. cor. of secs. 11 and 12, designated as Ang Pt 2 of Tract B.
		Set an i.p, 3' L, 1" d, 28" in gr, with bc mkd
		S12 C-W-SW 1/64 1949
		f w
		A juniper, 18, S. 89 3/4 E., 45, mkd BT.
		" " 12, S. 8 1/4 W., 55 " "
		SW. corner of R.C. Paynes house, 26x24 ft, bears S. 79° 17' E., 122 lks. dist, and is on the S 1/16 sec. line.
		Raise a M of S, 3' L, 2 L, W. of cor.
		S. 0° 08' W., on W. bdy of Tracts B and along the W-W 1/64 sec. line.
	7.30	Center of U.S. Hwy 89-A, on curve bearing S of E. & N. of W.
	8.29	Pt. for Ang Pt 3 of Tract B and Ang Pt 3 of Tract C, on S. line of Hwy R/W.
		Set i.p, 3' L, 1" d 12" in gr & solid rock and in M of S, 4' L, & top, with bc mkd
		T 17 N | TR B R 5 E | AP 3 S 12 | AP 3 TR C 1949
		S. 82-52 E., bet Tracts B and C, and along S. line of Hwy R/W
	2.60	Set an i.p, 3' L, 1" d, 27" in gr, for Ang Pt 4 of Tr B & Ang Pt 2 of Tract C, with bc mkd
		TR B AP 4 AP 2 TR C 1949
		S. 81-10 E., bet Tracts B & C, and along S. line of Hwy R/W
	22.13	Ang pt 5 of Tr B and Ang Pt 3 of Tr A.
		N. 0° 39' E., bet Tracts A & B, and along the E-E-W 1/256 sec. line
	1.01	Center of Hwy 89-A, N. 81-10 W & S. 81-10 E.
	11.92	Ang pt 1 of Tract B and Pt of beg.
		Area of Tract B =
		Survey of Tract C
		From Ang Pt 1 of Tr C, identical with Ang pt 4 of Tr A.
		N. 81-10 W., bet Tracts C & A, and along S. line of U S Hwy No 89-A R/W
	19.98	Ang Pt 3 of Tr. A & Ang Pt. 5 of Tr. B.
		thence bet Tracts C & B, continuing line & mear.

42.12	Ang Pt 2 of Tw C & Ang Pt 4 of Tw B.	
	Thence	
	N. 82-52 W, bet tracts C & B, and along S. line of Hwy R/W.	
2.60 5	Ang Pt 3 of Tw. C & Ang Pt 3 of Tw B, at intersection of	
	S line of Hwy R/W and the W-W 1/64 sec. line.	
	Thence	
	S. 0° 08' W., along the W-W 1/64 sec line.	
1.58	Pt for the SW-SW 1/64 sec cor, designated as Ang Pt 4 of Tw C	
	Set mp, 3'L, 1"d, 27" in gv, with bc mkd	
	512 SW-SW 1/64 1949	
	S. 89-41 E, along the S-S 1/64 sec. line.	
4.89 6	Pt for the C-E-SW-SW 1/256 sec cor, designated as Ang Pt 5	
	of Tw C	
	Set mp, 3'L, 1"d, 27" in gv, with bc mkd	
	512 C-E-SW-SW 1/256 1949	
	S. 0-14 W, along the E-W-W 1/256 sec. line.	
9.88 2	The E-W-W 1/256 sec. cor. of secs. 12 & 13, designated as Ang Pt 6	
	of Tw. C.	
	Thence	
	S. 89-37 E, along S. bdy of Tw. C, and along the line bet secs. 12 & 13,	
14.63 5	The E-W 1/64 sec. cor. of secs. 12 & 13, designated as Ang Pt 7 of	
	Tw. C.	
	Thence	
	N. 0-32 E, along the E-W 1/64 sec. line.	
4.95	Pt. for the C-S-SE-SW 1/256 sec. cor, desig as Ang Pt 8 of Tw C.	
	Set mp, 3'L, 1"d, 30" in gv, with bc mkd	
	512 C-S-SE-SW 1/256 1949	
	S. 89-39 E, on S. bdy of Tw. C, and along the S-S-S 1/256 sec line.	
9.79 1	Pt. for the center S-S-S 1/256 sec. cor.	
24.68	Ang Pt 1 of Tract C and pt of beg.	
	Area of Tract C	
	U.S. Forest Service Employees	30

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

Albuquerque, N.M.

TO : Frank W. Chapin, Cadastral Engr., Phoenix DATE: February 24, 1950

FROM : Reg. Chief, Div. of Engr., Reg. V.

SUBJECT: Exchange Survey No. 678

Reference is made to your memorandum of February 15th under the above subject.

Attached is a copy of a letter from the Regional Forester at Albuquerque to the Chief of Forest Service at Washington, relative to this matter.

Glenn R. Haste

Glenn R. Haste
Regional Chief, Division
of Cadastral Engineering

1 encl.

(C O P Y)

FOREST SERVICE ALBUQUERQUE, NEW MEXICO

Chief, Forest Service February 21, 1950

C. Otto Lindh, Regional Forester, By:

L-ACQUISITION-Sitgreaves-Kaibab-Coconino, Exchange, deVos, Kenneth M. and Mary Alice, 10/8/48

Mr. Kimmel of the Regional Administrator's office, BLM in Albuquerque, has advised us that Exchange Survey No. 678 in connection with this case has been returned without approval. A copy of the memorandum setting forth the reasons for disapproval is attached for your information. We later received a copy of this same memorandum which was forwarded through your Division of Engineering but we are not sure that it came to Mr. Grover's attention.

Following the submission of the deVos exchange, a proposal was received which involves the lands to the north of the deVos selection covered by Exchange Survey No. 678, i.e., all that portion of the $S\frac{1}{2}S\frac{1}{2}$ Section 12 not selected by deVos. It seemed practical to make the one survey accommodate both exchanges and the Cadastral Engineer extended Survey No. 678 accordingly upon our request.

This extension brought about the preparation of additional supplemental instructions and it appears that because they cover lands not included in this pending application the approval has been withheld.

It is felt that the BLM will reconsider the survey favorably upon advice that it is required by the Forest Service in a pending exchange. Mr. Kimmel has agreed to resubmit the survey with the supplemental instructions, provided we also initiate a formal request for their approval. It will, therefore, be appreciated if you will pass along our request to the proper office in the BLM.

Dahl J. Kirkpatrick

Attachement

cc: Coconino and Mr. Kimmel

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIVISION OF ENGINEERING
103 U.S.Court House
Phoenix, Arizona

October 20,1949

SUPPLEMENTAL SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 678

Township 17 North, Range 5 East,
Gila and Salt River Meridian.

The original instructions for this survey were dated June 20, 1949, and provided for the survey of the one tract south of the highway. It is now desired to include three additional tracts in the survey.

The tracts are located as shown on the accompanying diagram, and will be designated by the letters A to D., inclusive.

The necessary additional subdivision-of-section lines will be surveyed. All 1/16 section corners on the south half of section 12, will be monumented.

All angle points of each tract will be monumented, and numbered consecutively. The corner monuments will be marked with the Survey number, Tract designation and Corner number.

The Tracts will be described by metes-and-bounds survey, beginning with Corner No.1.

Reference will also be made to the original instructions where applicable.

Frank W. Chapin
Office Cadastral Engineer

Approved: _____

District Land and Survey Office
103 U.S.Court House
Phoenix, Arizona July 12, 1949

L
ACQUISITION-Kaibab-Sitgreaves-
Coconino
Exchange
deVos, Kenneth M. & Mary Alice
10/8/48

Regional Forester,
Post Office Building,
Albuquerque, New Mexico

Dear Sir:

We have received word that the special instructions to govern Forest Exchange Survey No. 678, T. 17 N., R. 5 E., were approved on July 7, 1949.

Very truly yours,
Thos. F. Britt

Manager

Division of Engineering
Branch of Surveys

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Public Survey Office
Santa Fe, New Mexico.

June 27, 1949.

MEMORANDUM

To: The Director, Bureau of Land Management.

From: Regional Cadastral Engineer, Region V.

Subject: Decision - 52104 "ADL: GHG" (Arizona)
Special Instructions, Exchange Survey
No. 678, Arizona.

I am transmitting herewith special instructions to govern Forest Exchange Survey No. 678, T. 17 N., R. 5 E., Gila and Salt River Meridian, Arizona.

For the Regional Administrator.

Enclosure

Guy P. Harrington
Regional Cadastral Engineer

JUL 7 1949
Approved: JUL 7 1949
SGD) WILLIAM H. RICHARDS
Chief, Branch of Surveys.

cc Chief, Division of Engineering
Regional Administrator, Region V
Regional Cadastral Engineer, Region V
Office Cadastral Engineer, Phoenix

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
SOUTHWESTERN REGION

ADDRESS REPLY TO
REGIONAL FORESTER
AND REFER TO

POST OFFICE BUILDING
ALBUQUERQUE, NEW MEXICO

June 24, 1949

L
ACQUISITION-Kaibab-Sitgreaves-
Coconino
Exchange
deVos, Kenneth M. & Mary Alice
10/8/48

Office Cadastral Engineer
Public Survey Office
Phoenix, Arizona

Dear Mr. Chapin:

Thanks very much for your letter of June 21 enclosing two copies of the Special Instructions for Exchange Survey No. 678 in this case.

It is believed that we will have need for the field notes for Sec.12 and also for the field notes of the section lines between Secs. 11 and 14 and 13 and 14, which may be necessary to the proper re-establishment of the missing corners mentioned in previous correspondence.

This office is tentatively advised that the section corner common to Secs. 13, 14, 23 and 24 is also missing, and it might be well therefore to include the field notes for the line between Secs. 23 and 24 also.

We hope to place a crew to work on the survey in question on the morning of July 6.

Sincerely yours,

P. V. WOODHEAD, Regional Forester

By George W. Kimball Acting

R.T 23+2

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON 25, D. C.

E-GROUP SURVEYS
Exchange
Survey 678
Arizona
54908

February 10, 1950

Memorandum

To: Regional Administrator, Albuquerque, New Mexico

From: Chief, Branch of Surveys

Subject: Supplemental special instructions

Reference is had to your memorandum of October 24, 1949 submitting supplemental special instructions for Exchange Survey No. 678 Arizona to include additional lands in sec. 12, T. 17 N., R. 5 E., G.& S.R.M., Arizona, for survey not provided for by the original special instructions dated June 20, 1949 and approved July 7, 1949.

According to the diagram accompanying the supplemental instructions, the lands to be surveyed are the $S\frac{1}{2}NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$ and $N\frac{1}{2}SW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$ as one tract; the $E\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}SE\frac{1}{4}$ and $N\frac{1}{2}SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$ as a second tract; and the $NE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$, $NW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$ and $W\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$ as the third tract; all lying to the north of U.S. Highway 89a right-of-way.

Since these lands have not been approved for exchange under the pending application and the Forest Service has advised us that they are not interested in the survey of these lands, the supplemental special instructions are returned to you herewith unapproved.

(SGD) WILLIAM H. RICHARDS

Chief, Branch of Surveys

Enclosures
cc: SO (Phoenix)
ADL
Forest Service
Official copy in "E"

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Public Survey Office
103 U.S.Court House
Phoenix, Arizona

June 20, 1949

SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 678

Township No. 17 North, Range 5 East.
Gila and Salt River Meridian

These instructions are intended to provide for the survey of a tract of land situated in Sec. 12, T. 17 N., R. 5 E. and south of U.S.Highway No. 89A, in order to form a proper basis for an exchange for other lands pursuant to the Act of March 20, 1922 (42 Stat. 465) as amended by the Act of February 28, 1925 (43 Stat. 1090, 16 U.S.C. Sec. 485, 486).

Authority for the issuance of these Special Instructions is contained in Bureau of Land Management Decision 52104 "ADL:GHG" (Arizona).

The applicant is the Forest Service.

History of Prior Surveys

The east boundary of T. 17 N., R. 5 E. was surveyed by J.C.Smith in 1885. The greater portion of the township was subdivided by R.C.Powers in 1886, including section 12.

In 1902 W.O.Secor completed the survey of the township and resurveyed among other lines the north boundary of section 12.

This township was authorized for resurvey and the special instructions dated Feb. 14, 1946 were approved on Feb. 28, 1946.

Method of Procedure

The south boundary of Sec. 12 will be resurveyed and the corners thereon rehabilitated if not conforming to standard requirements. Any missing corners will be reestablished.

The south half of the west boundary of Sec. 12 will also be resurveyed and if the 1/4 sec. cor. on the west boundary is missing, it will be necessary to resurvey the entire line.

It may not be necessary to resurvey the north and east boundaries of the section if the 1/4 sec. cors. thereon are found.

The center 1/4 sec. cor. of Sec. 12 will be established at the point of intersection of the center lines.

The points for the 1/16 sec. cors. on the boundaries and at the center of the SW. quarter of Sec. 12 will be determined and if deemed necessary by the Forest Service for administrative purposes will be monumented.

Other necessary subdivision-of-section lines will be run as indicated on the accompanying diagram as required.

The position of the south boundary of the right-of-way of U.S.Highway No. 89A will be determined and also the points of intersection with the necessary subdivision-of-section lines.

Having determined its position, the boundaries of the Tract to be exchanged will be surveyed in consecutive order beginning at Cor. No. 1.

The corner monuments will consist of iron posts and be appropriately marked with corner numbers and survey number.

The survey will be designated as Exchange Survey No. 678.

Provision has not been made in the above for the subdivision of the SE. $\frac{1}{4}$ of the section, since the portion in the listed $N\frac{1}{2}SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$ appears so small as to be almost negligible. In case a small area does exist to be included in the exchange, it would appear that the south boundary thereof could be extended easterly on the proper bearing to intersection with the right-of-way.

General

In addition to these special instructions, the manual of surveying instructions, 1947, will be the proper guide for all technical procedure.

Upon completion of the field work, the field notes of the survey will be prepared in triplicate which along with a plat of the survey drawn to scale, will be mailed to the Public Survey Office at Phoenix for checking and approval.

Should conditions arise appearing to demand additional instructions or which apparently make these special instructions inapplicable as prepared, the chief of field party will be

expected to submit a report of the situation with such recommendations as may be responsive to the authorization.

Frank M. Chapin
Office Cadastral Engineer

Approved:

E
Cooperation
Forest Service
Exchange Survey
No. 678 - Ariz.

Division of Engineering
1009 W. Tijeras Ave.
Albuquerque, New Mexico

November 30, 1949

MEMORANDUM

To: Director, Bureau of Land Management,

From: Regional Administrator, Region V.

Subject: Transmittal of Plat and Field Notes,
Exchange Survey No. 678, Arizona.

I am today forwarding to you under separate cover the plat, and transcript of field notes in triplicate, on Forest Exchange Survey No. 678, Arizona, in Section 12, Township 17 North, Range 5 East, G. & S. R. Meridian, Arizona.

For the Regional Administrator

Glenn R. Harte,
Regional Chief, Division
of Engineering.

Accepted _____ 1949

For the Director

_____
Chief, Branch of Surveys

cc: Regional Forester, Albuquerque, N.M.
Regional Administrator, Region V., Albuquerque
Regional Chief, Div. of Engr., Region V.
Frank W. Chapin, Cadastral Engineer, Phoenix

cc: Frank W. Chapin,
Cadastral Engineer,
Phoenix, Ariz.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Glenn R. Haste: DATE: Feb.15, 1950

FROM :

SUBJECT: Exchange Survey No. 678.

Mr. Kenneth de Vos recently called at this office to inquire as to what progress was being made on this Survey. It is noted that the returns of the survey were mailed to Washington on Nov.30, 1949.

Mr. de Vos is very anxious to have the job expedited if possible.

Ernest M. Allen

Sedona

Arizona

Survey of Sedona
land on trade
to Allen

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Division of Engineering

1009 W. Tijeras,
Albuquerque, New Mexico.
October 17, 1949.

MEMORANDUM

To: Office Cadastral Engineer

From: Regional Chief of Engineering

Subject: Exchange Survey No. 678

The Forest Service has recently added 3 additional tracts to be surveyed in sec. 12, T. 17 N., R. 5 E., G&SRM, Arizona. This will oblige us to write supplemental special instructions. Please write these instructions. The tracts can all be carried under the original Exchange Number (678) but will carry designations such as Tracts A to D, inclusive. However, I believe it will conform to the more general practice to designate them "Tracts 1, 2, 3 and 4."

I plan that Kimmell and Bilbray leave here Mon. Oct. 24th and should be in Flagstaff, the Supervisor's Office that afternoon. The Forest Service is writing the Supervisor to have a man available for us. They also think the Ranger could help us out. Kimmell wants all the help he can get and has suggested that possibly Ty would lend him an experienced man for a day or so. This might be arranged since Ty will have good help from Hefty and possibly Bert.

We would also appreciate having very rough field notes and plat of section 12 and the adjoining section lines. It is our understanding that all sec. corners are probably in place with the exception of the corner of secs. 11, 12, 13 and 14. Thus notes W. and S. for several miles from this corner would be appreciated. I am thinking of coming over with the engineers at that time. Mr. Smith should visit your office this coming Wed., Oct. 19th.

Glenn R. Haste

Glenn R. Haste
Regional Chief, Division
of Engineering.

We will write the instructions but will have the jobs completed before their approval, will need these notes as soon as possible
G.R.H.

(COPY)

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE
Southwestern Region

Address Reply to
Regional Forester
and refer to
L
ACQUISITION-Coconino
Exchange

E
SURVEYS-Coconino
Cadastral
B.L.M.

Post Office Building
Albuquerque, New Mexico

October 13, 1949

Glenn R. Haste, Regional Chief
Division of Engineering
Bureau of Land Management
1009 West Tijeras Avenue
Albuquerque, New Mexico

Dear Sir:

Confirming Engineer Huber's conversation with you October 12, you are authorized to make surveys of the four land exchange tracts in Sec. 12, T. 17 N., R. 5 E., GASRB&M, as shown on the attached map. If additional legal description is desired, please advise.

The Forest Service will reimburse you for the cost of surveys, using the regular procedure for transactions between Federal Agencies. It will be greatly appreciated if you can keep expenditures to a minimum since our funds for this type of work are very limited.

Thank you very much for your cooperation.

Very truly yours,

(s) C. Otto Lindh

C. OTTO LINDH
Regional Forester

Attachment

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Glenn R. Haste,
Regional Chief, Div. of Eng.

DATE: Oct.20, 1949

FROM :

SUBJECT: Exchange Survey No.678.

Enclosed herewith are four copies of the Supplemental Special Instructions, as follows: one for the Director, one for the Regional Forester, one for your office and one for the surveyor.

The tracts have been designated by letters in order to conform with the prior practice in this office.

Office Cadastral Engineer

Two diagrams are returned, will you please make additional.

Division of Engineering

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Division of Engineering
Santa Fe, New Mexico

June 13, 1949.

MEMORANDUM

To: Mr. Frank W. Chapin, Office Cadastral Engineer, Phoenix.

From: Regional Cadastral Engineer, Region 5.

Subject: Exchange Survey.

I am in receipt of your memorandum of June 10, 1949, on the above subject. It appears from your memorandum that U. S. Highway 89-A is a key feature in connection with the boundaries of the proposed exchange. Your suggestion that it is possible that a fair degree of accuracy can be obtained as to the location of this point from the State Highway map is noted. I do not believe that the Washington Office would accept such determination. Therefore, I would assume that it would be proper for you to issue the instructions as requested.

Guy P. Harrington

Guy P. Harrington,
Regional Cadastral Engineer.

Public Survey Office
Phoenix, Arizona
June 28, 1949

L
ACQUISITION-Kaibab-
Sitsgreaves-Coconino
Exchange
deVox, Kenneth M. & Mary Alice
10/8/48

Regional Forester,
Post Office Building,
Albuquerque, New Mexico.

Dear Mr. Kimball:

Reference is made to your letter of June 24th.

We are enclosing copy of field notes which you requested in connection with Exchange Survey No. 678.

Very truly yours,

Office Cadastral Engineer

Encs.

Public Survey Office
Phoenix, Arizona

June 14, 1949

L
ACQUISITION-Kaibab Sitgreaves-Coconino
Exchange deVos,Kenneth M. & Mary Alice

Regional Forester,
Albuquerque, New Mexico.

Dear Mr. Kimball:

Your letter of June 8th received.

Mr. deVos had previously called at this office as he advised you. Also his attorney called here yesterday to discuss the matter.

Mr. deVos is very anxious to have the exchange expedited and appeared willing to forego the advantages of having the tract marked on the ground if time could be saved thereby.

As you indicate, it has been the practice in the past to require an exchange survey in cases of this kind. With several of the corners missing around the section, it will be quite costly to make the survey and far out of proportion to the area of land involved. We have no way of knowing here as to just what attitude would be taken by the Director in regard to the issuance of a patent without a survey. It is probable an opinion could be obtained without greatly delaying the case if you wish to write to the Director for the Bureau of Land Management at Washington.

Anyway I will proceed with the preparation of the instructions at the first opportunity so they will be ready in case of need. The surveyor could start the work even before receiving the instructions, since the missing corners will have to be reestablished and the center of the section established anyway.

The highway plans which were kindly furnished by the State Highway Dept., indicate the distance from the cor. of secs. 11,12,13 and 14 to the south edge of the 400 ft. R.O.W. as considerably less than indicated on your sketch. In fact the distance is shown as less than 600 ft. Since the E½SE¼SW¼SW¼ which is indicated as part of Tract #3 will therefore be fractional, it would appear that it should also be included in the survey. The portion in the SE¼ Sec. 12 will be a very small sliver if it exists at all. Will you please advise as to what steps you decide to take in regard to it.

The map furnished by you is returned herewith.

Very truly yours,

Office Cadastral Engineer.

Enc.

Public Survey Office
103 U.S.Court House
Phoenix, Arizona
June 21, 1949

L
ACQUISITION-Kaibab-Sitgreaves
Coconino
Exchange
deVos, Kenneth M. & Mary Alice
10-8-48

Regional Forester,
Post Office Building,
Albuquerque, New Mexico.

Dear Mr. Kimball:

Enclosed herewith two copies of Special Instructions for Exchange Survey No. 678.

One copy will also be sent to the Director, Bureau of Land Management, Washington, D.C., for his approval.

Very truly yours,

Office Cadastral Engineer.

Encs.

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

SOUTHWESTERN REGION

ADDRESS REPLY TO
REGIONAL FORESTER
AND REFER TO

POST OFFICE BUILDING
ALBUQUERQUE, NEW MEXICO

L
ACQUISITION-Kaibab-Sitgreaves-
Coconino
Exchange
deVos, Kenneth M. & Mary Alice
10/8/48

June 8, 1949

Office Cadastral Engineer
Public Survey Office
Phoenix, Arizona

Dear Mr. Chapin:

By decision of May 20, 1949, the Director, Bureau of Land Management extended conditional approval to the above-designated exchange.

Among the several sub-divisions selected in this exchange, which jointly comprise 236.50 acres of national forest lands, are the fractional parts of $SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$, $N\frac{1}{2}SE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$ of Section 12 which are described in the Secretary's letter and the above-mentioned decision as all that portion lying south of U. S. Highway 89A right-of-way. Although the decision does not contain instructions to the effect that the lands so located should be identified on the ground and the area thereof established through medium of a special exchange survey, in the light of past instructions it is assumed that such is the case. We are, therefore, requesting the land survey instructions for these three fractional areas in order that the survey may be accomplished with the minimum of delay. Our file copy of the exchange map of the selected lands is enclosed for your information, and we shall appreciate its return with your reply.

Through medium of a telephone conversation with Mr. deVos, it is understood that he recently discussed the matter of the survey with you as well as with his attorney. As a result, he feels that perhaps the land might be satisfactorily described without resorting to a survey. If, in your opinion, the land can be so described in a manner which will prove acceptable to the Director, we would appreciate advice as to the proper procedure since, as a matter of course, we are very anxious to avoid incurring any unnecessary expense in connection with the exchange.

You will note from the map herewith that the 1/4 corner on the west and south lines of Section 12 and the southwest corner thereof as well were

not located and therefore were assumed to have been destroyed.

If you find it advisable to proceed with the survey, will you please make provision in the special instructions for the restoration of the mentioned corners.

Sincerely yours,

P. V. WOODHEAD, Regional Forester

Enclosure

By Geo. W. Kimball Acting

7-15-54

This matter should be investigated by Horace Parker when he goes through the Arizona files

LMP Could not find

File Exchange Survey E

6/8 Ariz

Area 2
Post Office Box No. 659
Salt Lake City 10, Utah

July 26, 1954

Memorandum

To: Office Cadastral Engineer E. H. Kimmell
Through BLM State Supervisor for Arizona

From: Cadastral Engineering Staff Officer

Subject: Exchange Survey No. 678, Arizona

Further reference is made to your memorandum of July 12, 1954, concerning the original field notes of Tract C, Exchange Survey No. 678.

We have gone through the Arizona files that were brought to Salt Lake City last May. We found no original field notes of the above-described tract. The only record that appears is contained in a microfilm roll. Duplicate copies thereof are enclosed.

If these copies are insufficient for your needs, I would suggest that you write the Director and request a certified copy.

Leo M. Petersen
Cadastral Engineering
Staff Officer

Enclosure

Office Cadastral Engineer E. H. Kimmell
Through BLM Supervisor for Arizona

July 15, 1954

Cadastral Engineering Staff Officer

Exchange Survey No. 678, Arizona

I have your memorandum of July 12, 1954, concerning missing data on the above Exchange Survey.

We intend going into the Arizona files in our possession some time next week. At that time we will make a search for the notes of Tract C which you state is missing from the files of your office.

The delay in sorting and arranging the Arizona files which reached us some time ago is due to the moving of records to new locations in Salt Lake City. These records for Arizona are due to reach their more or less permanent resting place tomorrow and then I will have Horace Parker go through them.

Leo M. Petersen
Cadastral Engineering
Staff Officer