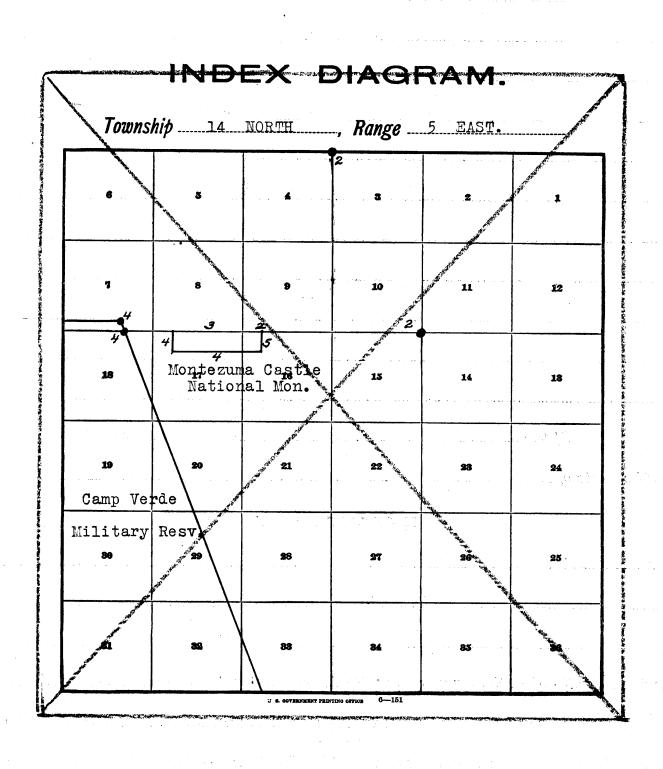
# FIELD NOTES

OF RESURVEY OF

Part of the Subdivision Li	nes of T.14 N., R.5 E.
(West half of line b	et. secs.9 and 16)
ANDATASHA	<del>VEY-O</del> F
	•
the Montesuma Costle	-National-Monument
in ansurveyed section	non-to-endadore of
Township 14 North,	Renge 5 East
•	
Of the Gila and Salt Rive In the State of Arizona	
EXECUT	ED BY
Francis E. Joy. U.	S. Cadastral Engineer.
In the capacity of U.S. Surveyor, under Single 19.30, issued by the District Cadastral Eng. No. 166 Arizona, which were approved Office, November 15, 19.30, and Assignment	gineer to govern surveys included in Group by the Commissioner of the General Landent Instructions dated January 2, 1931.
Survey commenced Feb	oruary 23 , 1931.
Survey completedMaj	rch 2 , 1931. 6-151



# UNITED STATES DEPARTMENT OF THE INTERIOR General Land Office Washington

April 25, 1938

In reply please refer to 1722469 "E" WHR

Group 223, Arizona

District Cadastral Engineer, Public Survey Office, Phoenix, Arizona.

BOOK 3939

Sir:

I have your letter dated April 8, 1938, transmitting special instructions providing for an extension survey in T. 14 N., R. 5 E., and an investigation in T. 16 N., R. 4 E., G. & S.R.M., Arizona, under Group 223. The surveys in the former township were authorized by office letter dated January 22, 1938, based upon requests of the Forest Service and the National Park Service. The resurvey of T. 16 N., R. 4 E. was authorized by office letter dated November 6, 1937, at the request of the Forest Service.

This office concurs in your recommendation that the present survey of the Montezuma Castle National Monument, executed by Joy in 1931, be abandoned since it does not properly identify the legal subdivisions described in the original proclamation of December 8, 1906. The said survey of the monument as shown upon the plat of T. 14 N., R. 5 E., approved July 6, 1932, is hereby canceled. There are no disposals involved. You are instructed to place the original copy of this plat in the canceled files and to make proper notations on your records. The Register is being instructed to take similar action.

In order that the present location of the monument as described in terms of legal subdivisions of unsurveyed Secs. 8, 16 and 17 may be established as closely as practicable in record relation to Sec. 9, it is believed that the proposed plan of subdivisional survey should be modified. In this connection attention is called to the forest homestead entry of Flo Alice Davis, Phoenix 076241, in unsurveyed Secs. 16 and 17 of this township adjacent to the national monument, which also appears to be located in record relation to Sec. 9.

A sectional guide meridian should be run due south from the SW. corner of Sec. 9, setting 1/4 section and section corners at intervals of 40.00 chs. The sectional correction line should then be run due east from the corner of Secs. 28,29,32 and 33 to intersection with the east boundary. Appropriate modification of the special instructions consistent with the foregoing plan should be provided for, together with such additional subdivisional surveys in Secs. 8,16 and 17 as may be necessary to identify the boundaries of the entire monument. Provisions should also be made for the removal of the corners of the Joy survey.

The amended special instructions should be submitted promptly, but in view of your request for early action, field work may be initiated without awaiting formal approval by this office.

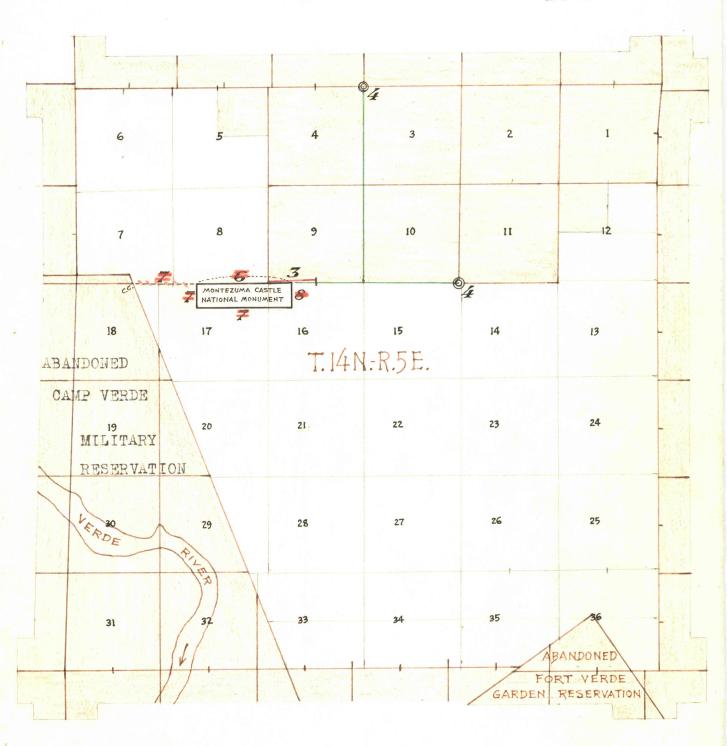
Very respectfully, (Signed) Antoinette Funk Assistant Commissioner

4-23-hma

Book "E"
Group 166 Arizona

### · INDEX~DIAGRAM ·

BOOK 3939



Bdy. of Montezuma Castle National Monument, surveyed under this group. Notes herein.

Subdivision lines resurveyed under this group.
Notes herein.

Retracement for the resurvey herein described.

\_\_\_\_\_ Accepted, surveyed lines.

\_\_\_\_\_ Tie surveyed under this group. Notes herein.

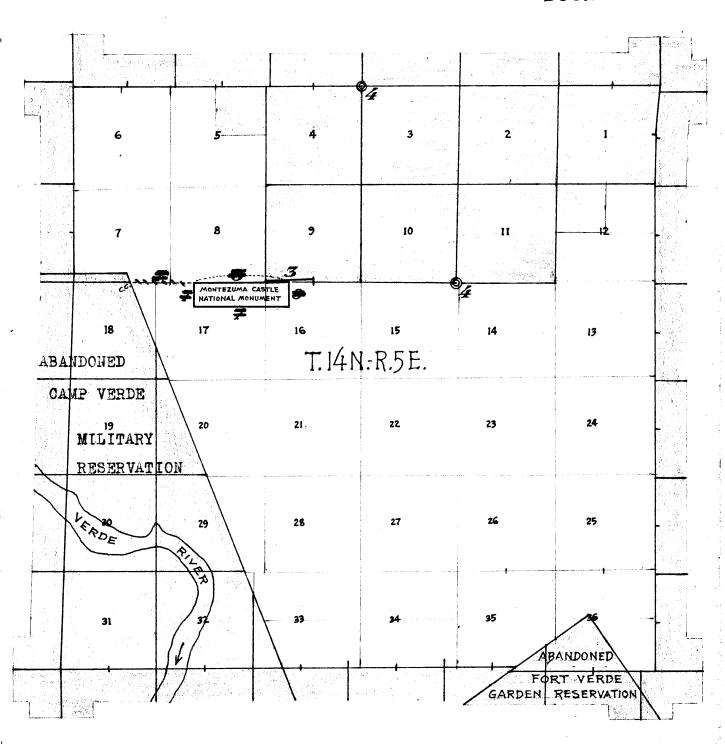
Areas surveyed as per accepted plats on file.

Remote original corners reconstructed under this group as control points for the resurvey herein described.

Book "E"
Group 166 Arizona

## · INDEX~DIAGRAM•

**BOOK** 3939



	Bdy. of Montezuma Castle National Monument, surveyed under this group. Notes herein.
	Subdivision lines resurveyed under this group. Notes herein.
Constitution to the second section of the second section of the second section of the second section of the second section sec	Retracement for the resurvey herein described.
***************************************	Accepted, surveyed lines.

--- Tie curreged under this group. Notes herein.

Areas surveyed as per accepted plats on file.

Remote original corners reconstructed under this group as control points for the resurvey herein described. Resurvey and survey herein described were executed February 23 to March 2, inclusive, by Francis E. Joy, U. S. Cadastral Engineer, using a Buff & Buff light mountain solar transit No. 16724, constructed in accordance with the standard specifications of the General Land Office, The horizontal circle has a diameter of 4½ ins., with two double opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins., with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment; radius of latitude arc 2½ ins., and of declination arc 3½ ins., each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the surveys of this group, tested and found free from appreciable error, was approved by the district cadastral engineer on January 2, 1931. All instrumental adjustments were examined immediately before making the field tests hereinafter recorded.

The directions of all lines were determined by the solar transit method. The measurements were made with a Lallie steel tape, 5 chs.in length, graduated every link for the first 100 lks., and thereafter at intervals of 10 lks. The tape was tested by comparison with a Keuffel & Esser standard tape and found correct. The measurements were made on the slope, the vertical angle of each interval determined by clinometer, and the slope measurements properly reduced to horizontal equivalents for entry in the field notes.

February 22.1931, at camp near the N. bdy. of unsurveyed section 17, T.14 N., R.5 E., G.& S.R. B.& M., Arizona, approximate latitude 34°37'N., longitude 111°50'W., at 5h.56m.45s. p.m., l.m.t. or 6h.21m.15s. p.m. by watch, which is 24m.30s. fast of l.m.t., make hour angle observations on Polaris west of the meridian, three each with the telescope in direct and reversed positions, reading the vertical angles, and the horizontal deflection angles from a sharp pointed rock, 8.00 chs. dist., in the direction N.-W. to Polaris.

Mean horizontal angle, rock to Polaris
Azimuth of Polaris
True bearing to rock
Mean observed vertical angle
Reduced latitude

1° 15' 30"
47' 24" W.
N.0° 28' 06" E.
35° 29' 00"
34° 37' 14" N.

February 23,1931, at same station, with the telescope in the meridian, and elevated to the sun's altitude, observe the sun's transit for time, noting the watch time of transit of each limb:

Mean watch time of apparent noon 12h. 38m. 06s. Watch fast of local mean time 24m. 30s.

Every hour from 8 to 11 a.m., and at 1:30 and 4 p.m. (on line during interval) make proper settings on the ards of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than 12.

Repeat the tests of the arcs daily by noon observation and verify the meridional indications at frequent intervals throughout the survey.

2.

Chains.

The subdivision lines bounding sections 1, 2, 3, 4, 9, 10 and 11, T.14 N., R.5 E., were surveyed by C.B. Foster, U.S.D.S. in 1877.

The subdivision line of this township within the abandoned Fort Verde Garden Reservation was surveyed by

C.H. Wallace, U.S.D.S. in 1887. The subdivision lines of this township within the abandoned Camp Verde Military Reservation were surveyed by D. Drummond, U.S.D.S. in 1892.

No retracement or resurvey of any part of these sub-

division lines is of record.

The remainder of the subdivision lines of this town-

ship are unsurveyed at this time.

The following notes describe a dependent resurvey of the west half of the subdivision line bet. secs.9 and 16. made for the purpose of locating Cor. No.1, and a part of the boundary of the Montezuma Castle National Monument, the survey of which is herein described.

#### Retracement for Resurvey. لها إنسانها ها أنه أنه أنه الله أنه أنه أنه أنه أنه أنها لها من أنها أنها بها العراف من من من الله

From the original cor. of secs.8,9,16 and 17, East, on random line, searching diligently at record intervals for the original cor. monuments. Fail to find a trace of any old cor. until at

159.34 Fall 155 1ks. N. of the original cor. of secs. 10, 11, 14 and 15,

Thence

West; on trial line, bet. secs.10 and 15.

(Proportional dist.) Set temp. cor. (A) of secs. 9,10,15 79.67 and 16.

Thence

North, on random line, searching diligently at record intervals for the original cor. monuments. Fail to find a trace of any old cor. until at

167.34 Fall 333 lks. W. of the original cor. of secs. 3.4.33 and 34, on the N. bdy. of the Tp. Thence South, on trial line, bet. secs. 3 & 4, and bet. secs. 9

and 10

(Record dist.) Set temp.cor.(B) of secs.9.10.15 & 16, from which temp. cor. (A) of same secs. bears S.24.51.W., 7.92 chs. dist., or 7.19 chs.S. and 3.33 chs. W., therefore at a point 7.19 chs. N. from temp. cor.(A) and 3.33 chs. W. from temp. cor.(B) is the point for reestablishment of the cor.of said secs.

The resulting true courses and distances of the subdivision lines controlled by said reestablished corner point are as follows: 1

Line bet. secs. 10 and 15 :- N.84°51'W., 79.99 chs. line bet. secs. 9 and 16 :- S.85°57'W., 79.87 chs.

Direct line to cor. of secs. 3.4.33 and 34, on the N. hdy. of the Tp., N. 1° 11' E., 160.18 chs.

#### Resurvey.

From reestablished point for cor.of secs. 9,10,15 & 16, S.85°57'W., on blank line, bet. secs. 9 and 16 (E. 2)

DK(17)

#### Resurvey of .Part of the Subdivision Lines of T. 14 N., R. 5 E.

Chains 39.93

(Proportional dist.) Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished \(\frac{1}{4}\) sec.cor. of secs. 9 and 16, with brass cap mkd.

1931

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

This cor. is at base of a limestone cliff, 20 ft.high, bearing NE. and SW., facing NW., and near the head of a ravine, course N. 70°W.

Thence,

S.85°57'W., on true line, bet. secs.9 and 16 (W.2). Over broken land, thru scattering undergrowth.

Descend 180 ft. over NW. slope.

7.50 Foot of descent. Thence over level land, thru mesquite undergrowth.

19.97 (Proportional dist.) Set an iron post, 3 ft.long, 2 ins. in diam. 26 ins.in the ground, for the west 16 sec.cor. of secs.9 and 16, and also for Cor. No.1 (NE.cor.) of the Montezuma Castle National Monument, with brass cap mkd.

1931

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

Continue over level bottom land, thru mesquite undergrowth.

24.60 Wire fence, bears NW. and SE. Leave undergrowth.

25.20 Left bank of Beaver Creek, bears NW. and SE., 14 ft. high.

27.00 Beaver Creek, course SE., with stream of water, 3 ft. deep, 120 lks. wide.

32.00 Right bank of Beaver Creek, 4 ft.high, bears NW. & SE.

37.00 Leave level and enter rolling land. Asc.70 ft. over NE. slope to

39.94 Intersect the original cor. of secs. 8,9,16 and 17, which is a lava stone 8x12x16 ins., marked with 4 grooves on each of E. and S. faces, and firmly set in a mound of stone.

Reconstruct this cor. monument as follows:
remove the mound of stone and in center of its position
reset old cor. stone 10 ins. in the ground, and alongside same set an iron post, 3 ft. long, 2 ins.in diam.
26 ins.in the ground, for cor. of secs.8,9,16 and 17,
and also for Cor.No.2 of the Montezuma Castle National
Monument, with brass cap mkd.

#### Resurvey of Part of the Subdivision Lines of T. 14 N., R. 5 E.

1931

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

Land, level broken and rolling.
Soil, sandy loam, lst rate; rocky, 3rd rate.
Timber, scattering cottonwood along Beaver Creek only.
Undergrowth, mesquite and catclaw.

Reconstruction of remote control corners. T.14 N., R.5 E.

Cor.of secs. 3.4.33 and 34. on N. bdy. of Tp.

The original cor. of secs. 3,4,33 and 34 is a red granite stone 8x8x8 ins. above ground, firmly set, marked with 3 notches on each of E. and W. faces, and witnessed by a mound of stone E. of cor. No bearing trees.

Reconstruct this cor. monument as follows:

Reconstruct this cor. monument as follows:
alongside old cor. stone, set an iron post, 3 ft.long,
2 ins. in diam., 26 ins. in the ground, for cor. of
secs.3,4,33 and 34, with brass cap mkd.

715N R5E 333 S34 84 S3 714N

1931

destroy the mound of stone E. of cor. and raise a mound of stone, 32 ft.base, 12 ft.high, W. of cor

#### Cor. of secs. 10,11,14 and 15.

The original cor. of secs.10,11,14 and 15 is a limestone broken in two parts, one part in the ground with its top even with the surface, and the other part on which the record marking appears is lying on the ground. alongside. The cor. is witnessed by remains of the original bearing trees:

original bearing trees:
a cedar stump, 36 ins. diam., N.29°E.,99 lks. dist.,
marking faintly visible, but illegible.

a cedar stump; 30 ins. diam., S.8°W., 27 lks. dist.;

marking faintly visible, but illegible.

Reconstruct this cor. monument as follows:

alongside the portion of the old stone which is imbedded in the ground, reset the marked portion of same stone, and alongside same set an iron post, 3 ft.long, 2 ins.in diam., 26 ins.in the ground, for cor.of secs.

10.11.14 and 15, with brass cap mkd.

TL4N R5E S10 S11 S15 S14

1931

from which

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- a cedar, 8 ins. diam., bears N.12°E., 152 lks. dist., mkd. TldN R5E S11 BT
  - a cedar, 30 ins. diam. bears S.484°E., 254 lks. dist., mkd. T14N R5E S14 BT
  - a cedar, 5 ins. diam., bears S.382°W., 269 lks. dist., mkd. BT only.
- a cedar, 10 ins. diam., bears N.23°W., 298 lks. dist., mkd. Tl/N R5E S10 BT

- 60 a 660

a NATA

| Winds

Survey of the Boundary of MONTEZUMA CASTLE NATIONAL MONUMENT.

Survey, o	f the Boundary of MONTEZUMA CASHEE MAY TOWNER MOTORING
Chains	The following notes describe the survey of the boundary of the MONTEZUMA CASTLE NATIONAL MONUMENT, enclosing 161.41 acres in unsurveyed sections 16 and 17 of Township 14 North, Range 5 East, of the G.& S.R. B.& M., Ariz.  The Monument 1s one mile long east and west, by one quarter of a mile wide north and south.  In this survey all angle points in said boundary are monumented with brass-capped iron posts, 2 ins. in diam., designated as Cors. Nos. 1.2.3.4 and 5, beginning at the NE. cor. of said Monument, and proceeding in a counter clockwise direction around the boundary.  A portion of the north line of the boundary is identical with the subdivision line bet. secs.9 and 16, Cor.No.1 being the west 16 sec.cor. of said secs., and Cor.No.2 being the cor. of secs.8.9.16 and 17. The other lines of the boundary, and the remainder of the north line, are surveyed on cardinal bearings.  From Cor.No.1 (NE.cor.) of Montezuma Castle National Monument, identical with the west 16 sec.cor. of secs. 9 and 16, hereinbefore described.  S.85°57'W., on true line, along part of N. line of the boundary of Montezuma Castle National Monument, and part of subdivision line bet. secs.9 and 16 Over level bottom land, thru mesquite undergrowth.
4.63	
5.23	
7.03	Beaver Creek, course SE., with stream of water, 3 ft. deep, 120 lks. wide.
12.03	Right bank of Beaver Creek, 4 ft.high, bears NW. and SE.
17.03	Leave level and enter rolling land. Asc. 70 ft. over NE. slope to
19.97	Intersect Cor. No.2 of the Monument, and cor. of secs. 8,9,16 and 17, hereinbefore described.
	Thence
	West, on true line, along part of N. line of the Monte- zuma National Monument. Over rolling land, ascending gradually.
4.60	Road to "Montezuma Castle", bears NW. and SW.
6.00	Top of ascent. Thence over level land.
11.00	Leave level and enter mountainous land.  Descend 90 ft. over W. slope.
14.60	Short ravine, course S. Ascend 160 ft. over E. slope.
29.40	Top of ascent. Descend 30 ft. over W. slope.
35.20	Drain, course SW. Ascend 54 ft. over SE. slope.
41.5	Spur, slopes S. Flag pole near the custodian's house bears S.69\frac{1}{2}^{\infty}E.  Descend 135 ft. over broken W. slope to
54.2	Ravine, course SE. Leave mountainous and enter rolling land.
60.0	Set an iron post, 3 ft. long, 2 ins.in diam.,10 ins.in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone

Survey of the Boundary of the MONTEZUMA CASTLE NATIONAL MONUMENT: Chains around post, for Cor. No.3 (NW.cor.) of the Monumert, Chains around post, for cor. no., in the service of the distribute of the dist 1931 from this cor., the closing corteof secs. 7 and 18, T.14 N., R.5 E., on the doundary of the abandoned Camp Verde Military Reservation bears N.89°36'W. 54.10 chs. dist. Said clasing cort is a limestone 8x12x6 ins. above ground, firmly set, and mkd. MR CC on W. face. from said closing cor., the ONE Cor anof said reservation, which is a limestone 8x16x24 ins.above ground firmly set, and mkd.CVMR No 3 on SW. face, bears N. 22°00'W., 6.33 chs. dist. From Cor. No.3 of Monument.
South, on true line, along the west line (3-4) of the boundary of the Montezuma Castle National Monument.
Over rolling land, thru scattering greasewood undergrowth. 10.00 Descend 85 ft. over SW. slope to 20.00 Set an iron post, 3 ft. long, 2 ins. in diam. 30 ins. in the ground, for Cor. No.4 (Sw.cor.) of the Monument, , with brass cap mkd. secob suma tomui jara MCMM Extended to the second to the second of the second of raise a mound of stone, 3 ft.base, 2 ft.high, NE. of cor. .Seditomes From Cor. No.4 of Monument,
East, on true line, along the south line (4-5) of the
boundary of the Monteguma Castle; National Monument.
Over rolling land, thru scattering undergrowth.
Ascend gradually over SW. slope. ine3.50 Spur, slopes S.f. Descend 40 ft. over broken E. slope. 5.50 Guloh, course S. Ascend 43 ft. 10.86 Tap of escent. Montezuma Castle bears N. 422°E. Leonard Davis's house bears S. 622°E.
Descend 30 ft. over SE. slope. 14.00 Center of Beaver Creek, with stream of water. 200 1ks. wide, 18 ins. deep, course S.15°W. 15.40 Wire fence, bears N.80°E. and S.15°W. Thence over level land, thru mesquite and catclaw undergrowth. 42.55 Center of Beaver Creek, with stream of water 250 lks. wide, 12 ins. deep, course NW. Leave level and enter rolling land. Ascend gradually over S. slope. 47.60 Flag pole near custodian's house, bears N.40°W. 59.48 Montezuma Castle bears N.621°W. Leonard Davis's house bears S.59g°W. 67.00 Leave rolling and enter level land, bears N. and SW.

77.40 Center of an old channel of Beaver Creek, (dry), 150 lks. wide, course S.

BOOK 3939

Survey of the Boundary of the MONTEZUMA CASTLE MARIONAL MONUMENT IS . Jana bestone 101 101. Id. J. (18.001.) of the Chains (A point due south from Cor. No.1) Set van from post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for Cor. No.5 (SE.cor.) of the Montezuma Castle National Monument, with brass cap mkd. 79-97 MONIA , .160 sida mora .v v.v. . 1 81.7 . 31 bas 7.8900 1931 rep taised o edd constitut event and beauthoused beauth of the value of the value of the constitution of the incound. from baid elonias cor.. energencii saesydamore, d24 cinsodiamidebears 10040510 bwj. 256 lks. soddowi bist. jedmkdamimCNMu5 BT eveds. eni Askulkë tala . dt. 00°55. L. eteod. . es. 1 . es da From Cor. No.5 of the Monument.

North, on true line, along east line (5-1) of the boundary of the Monteguma Castle National Monument.

Over level land, thru scattering cottonwood and sycamore timber, across washed boulders on the east side of an old channel of Beaver Creek. Right edge of stream of water, 210 lks wide 3 ft. deep on 14,40 in Beaver Creek, course SE to war bar our nert. Top of left bank of Beaver Creek, 20 ft. high, bears 17.00 NW. and SE. Continue over level land, thru dense mesquite and catclaw undergrowth. Wire fence, bears NW. and SE. along creek bank. 17.20 Intersect Cor. No.1 (NE. cor.) of Monument, and west 1/16 sec. cor. of secs. 9 and 16, hereinbefore described. 21.41 gos To FINAL TEST OF SOLAR ATTACHMENT. HOTEL of the time, along the span time (4-5) of the instrument was made as hereinbefore described, at 9h. Om., a.m., app., to, set off 34° 37 Maren the lat. arc, 7°22'S. on the decl. arc, and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation. At 4h. Om., p.m., app. t., with the lata are unchanged, set off 7°15'S. on the decl. are, and repeat the test of the solar, the line of sight agrees with true meridian.

\*\*Color of a love of a love of a love of the solar of th . BLE 003, 1982 The north line of the boundary of the Montezuma Castle National Monument after leaving Beaver Creek rises about 225 ft. to a spur or tableland sleping Strand breaking abruptly over cliffs to a level with said creek. Well up on the face of these cliffs is located "Montezuma Castle" and evidence of cliff houses that ere attracting many tourists to this point each year. Beaver Creek flows SE across the east end of the Monument, and loops across the south line of the boundary.
At the time of this survey considerable water was flowing in said creek, making it impossible to locate a spring which is in the creek bed near the north line of the boundary. The buildings, with a good road out to a surfaced county road, donstitute the major improvements.

BOOK 3939

4-680 (August, 1926)

# FIELD ASSISTANTS.

Francis E. Joy,	U.S. Cadastral Engineer
NAMES.	CAPACITY.
James Shine	Chainman.
E. F. Hare	Flagman and axeman.
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BOOK 3939

#### CERTIFICATE OF UNITED STATES SURVEYOR.

I, Francis E. Joy U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance
of special instructions received from the District Cadastral Engineer, for Group 166, Arizona
bearing date of the 3rd day of November , 1930, I have well, faithfully, and truly
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, resurveyed all those parts or portions of
the Subdivision Lines of Township 14 North, Range 5 East
and surveyed all those parts or portions of
the Boundary of
Montezuma Castle National Monument in
Township 14 North, Range 5 East of the Gila and Salt
River Base and 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 all the corners of
said resurvey and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the District Cadastral Engineer, for Group 166, Arizona
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such resurvey and survey.  San Francisco, California,  September 26, 1931.  U.S. Cadastral Engineer. Exsurveyorz
APPROVAL.
ALT TO VAL
Office of U. S. Supervisor of Surveys,
Office of U. S. Supervisor of Surveys,  Denver, Colo., July 6, 1932
Office of U. S. Supervisor of Surveys,  Denver, Colo., July 6,, 1932  The foregoing field notes of the resurvey of
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