

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

MAY 14 1915

MAY 26 1916

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 183

SITUATED IN THE

SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

(secs 8 + 17)
Section 9, unsurveyed, Township 12 N., Range 14 E.

Section 16, unsurveyed, Township 12 N., Range 14 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by Walter G. Turley, Surveyor-Forest Service

Under special instructions dated June 10, 1914

Survey commenced June 25, 1914

Survey completed June 26, 1914

Under Acts of June 11, 1906 and March 4, 1913

Applicant for listing Jose Duran

Residence Winslow, Arizona

Application No. 45, dated October 23, 1906

List No. 2377, dated May 1, 1908

Applicant for survey Jose Duran

Residence Winslow, Arizona

H. E. No. 0533, dated August 18, 1908

Land district Phoenix, Arizona

44

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley
Surveyor-Forest Service in surveying all those
parts or portions of Homestead Entry Survey No. 183, in
unsurveyed Section 9, Township 12 N., Range 14 E.,
unsurveyed Section 16, Township 12 N., Range 14 E.,

of the G. & S.R.B. & meridian, State of Arizona, which
are represented in the following field notes as having been
surveyed by him and under his direction; and that said sur-
vey has been in all respects, to the best of our knowledge
and belief, well and faithfully surveyed, and the corner
monuments established, according to the instructions fur-
nished by the United States Surveyor General for Arizona.

Note: It would have been
very inconvenient and ex-
pensive to appear before
an officer to administer
the oaths to Assistants;
hence, they were taken by
the Surveyor.

Charles D. Hodson Chainman
Charles H. Baerch Chainman

Subscribed and sworn to before me this 12th day of
November, 1914.

Walter G. Turley
Surveyor-Forest Service

OATH OF SURVEYOR.

*This applies no. 4
date one of
2377, should first
to the no. 4 date
of appl. for
unlisted tract.
Same appl.
applies to
tract.*

I, Walter G. Turley, Surveyor-Forest Service, do solemnly
swear that, in strict conformity with the special instructions
of the United States Surveyor General for Arizona, dated June
10, 1914, and the laws of the United States, I have well, faith-
fully, and truly, in my own proper person, surveyed a tract of
land embraced in List No. 4-2377, dated May 1, 1908, and a tract
of land upon the application of Jose Duran, Application No. 45,
dated October 23, 1906, for listing and patent under the Act of
June 11, 1906, the same to be known as Homestead Entry Survey
No. 183, situated within the Sitgreaves National Forest, in
unsurveyed Section 9, Township 12 N., Range 14 E., and
unsurveyed Section 16, Township 12 N., Range 14 E.,
of the G. & S.R.B. & Meridian, Arizona, and the related retrac-
ements and resurveys and section subdivisions, which are repre-
sented in the following field notes as having been surveyed by
me; and I further solemnly swear that all the corners of said
survey have been established and perpetuated in strict accord-
ance with the stated special instructions, and in the specific
manner described in the field notes, and that the following are
the original field notes of such survey.

Walter G. Turley
Surveyor-Forest Service

Subscribed and sworn to before me this 16th day of
November, 1914.

My commission expires April 1918 P. B. Callie



Notary Public

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, Jose Duran; Application No. 45, dated October 23, 1906; List No. ¹/₂₃₇₇, dated May 1, 1908; H. E. No. 0533 made in the Phoenix Land Office on August 18, 1908. Also an area to be listed which adjoins List No. 2377 on the W., the majority of which is bottom land although there are a few pine trees included. The addition was made to include claimant's house, stable and corral.

Surveyed under special instructions from the Surveyor General for Arizona, dated June 10, 1914 and designated as Homestead Entry, Survey No. 183.

Located upon unsurveyed land in what will probably be, when surveyed, Secs. 9 and 16, T. 12 N., R. 14 E., Gila and Salt River Base and Meridian, within the Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1913.

Survey commenced June 25, 1914 and executed with a W. and L. E. Gurley light mountain transit No. 12953, with vertical circle and Burt solar attachment. The horizontal limb having two double verniers placed opposite and reading to single minutes of arc, which is also the least count upon the verniers of the latitude and declination arcs.

I test the adjustments of the transit and solar attachment and make necessary corrections. The stadia is adjusted to read 1:132.

All distances are horizontal and were reduced from measurements made on the slope with a 500 link steel tape and a Philadelphia stadia rod graduated to feet and hundredths with target verniers reading to thous-

SITGREAVES NATIONAL FOREST

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Chains and fms. The slope angles were determined with a
clinometer.

June 25, 1914.

At 9h. 30m. p.m., l.m.t., I observe Polaris with tele-
scope direct, at cor. No. 6 of the list survey, which
is a limestone 10 x 6 x 8 ins. above ground, marked
and witnessed as described by the Forest Service, and
mark the direction thus determined with a tack in a
stake set 5.50 chs. N. of my station.

Astron. l.m.t. obsn., June 24, 1914, 33h. 30.0m.

Astron. l.m.t. U. C. Pol., June 24, 1914, 19h. 16.7m.

Hour angle Pol. at obsn. 14h. 13.3m.

23h. 56.1m.

Time argument, 9h. 42.8m.

Azimuth of Pol. at obsn. 00° 46' 18" E.

June 25, 1914.

At 9h. 42m. p.m., l.m.t., on the same date, I again ob-
serve Polaris at cor. No. 6 of the list survey with
telescope reversed in altitude and azimuth, and mark
the direction thus determined with a tack in a stake
set 5.50 chs. N. of my station.

Astron. l.m.t. obsn., June 24, 1914, 33h. 42.0m.

Astron. l.m.t. U. C. Pol., June 24, 1914, 19h. 16.7m.

Hour angle Pol. at obsn. 14h. 25.3m.

23h. 56.1m.

Time argument, 9h. 30.8m.

Azimuth of Pol. at obsn. 00° 49' 54" E.

June 25, 1914.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains June 26, 1914.

At 7h. 55m., a.m., l.m.t., I turn off $00^{\circ} 46'$, the azimuth of Polaris to the W. from her direction at 9h. 30m., p.m., l.m.t., June 25, 1914, and mark the line thus determined with a tack in a stake set 5.50 chs. N. of my station.

I also turn off $00^{\circ} 50'$, the azimuth of Polaris to the W. from her direction at 9h. 42m., p.m., l.m.t., June 25, 1914, and mark the line thus determined with a tack in a stake set 5.50 chs. N. of my station. This line falls $00^{\circ} 00' 54''$ of measured arc to the W. from the previously determined line. I mark the mean of these two lines with a tack in a stake set 5.50 chs. N. of my station and from the corresponding meridian all the courses of this survey were deflected.

At 8h. 15m., a.m., l.m.t. on the same date, I set off $23^{\circ} 23\text{-}1/2'$ N. on the decl. arc and $34^{\circ} 26\text{-}1/2'$ on the lat. arc and determine a meridian with the solar at cor. No. 6 of the list survey heretofore described; and my line of sight falls $00^{\circ} 00' 19''$ of measured arc to the W. from the meridian as established by me at this point, from Polaris observations and marked upon the ground as heretofore described.

Lat. at the S. C. to secs. 32 and 33, T. 13 N., R. 14 E., G. & S. R. B. & M., is $34^{\circ} 27' 52''$ N., and Long. $110^{\circ} 53' 20''$ W., taken from the special instructions of the Surveyor General, which corrected gives lat. $34^{\circ} 26' 29''$ N., and long. $110^{\circ} 53' 24''$ W., at cor. No. 1.

With $23^{\circ} 23'$ N., set off on the decl. arc and the line of collimation of the telescope lying in the plane of the meridian pointing N., I observe the sun upon

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains the meridian with the solar attachment, for latitude and time at cor. No. 1. I obtain a reading of $34^{\circ} 26-1/2'$ on the lat. arc and note that the sun crossed the 12 M. hour circle of the solar attachment at 12h. 2m. 29s., watch time. Therefore my watch is fast 0h. 00m. 02s. I correct my watch to l.m.t. The latitude obtained by observation differs from the computed latitude by approximately $00^{\circ} 00' 03''$. I observe the magnetic declination at cor. No. 1 to be $15^{\circ} 00' E.$ at 8h. 30m., a.m., l.m.t., June 26, 1914, which reduced gives mean magnetic declination of $14^{\circ} 56' E.$

Thence N. $02^{\circ} 24' E.$
On a random for a tie.

127.19 To the S. C. of secs. 32 and 33, T. 13 N., R. 14 E., which is a sandstone 8 x 5 x 7 ins. above ground, and a mound of stone, marked and witnessed as described by the Surveyor General.

Thence S. $02^{\circ} 24' W.$
For a tie.

127.19 To cor. No. 1. Identical with cor. No. 6 of the list survey heretofore described. I destroy all trace of the list cor. and at this point I set a sandstone 28 x 12 x 5 ins., 18 ins. in the ground, over a marked stone, marked (+) at the point and 1-HES183 on the S. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, S. of cor., from which:
A pine 18 ins. dia., scribed 1 H E S 183 + B T, bears S. $24^{\circ} 10' W.$, 109 lks. dist.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains A pine 20 ins. dia., scribed 1 H E S 183 + B T,
bears S. 66° E., 7 lks. dist.

Thence S. 50° 20' E.
Over bottom land in scattering pine timber.

1.50 Bed of creek, 40 lks. wide, banks 4 ft. high, course
NE. There is a small stream of water running.

4.96 To cor. No. 2.
Identical with cor. No. 1 of the list survey which is
a sandstone 10 x 6 x 8 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy all trace of the list cor. and at this point I
set a sandstone 28 x 9 x 6 ins., 18 ins. in the ground,
over a marked stone, marked (+) at the point and
2-HES183 on the SW. face; and dig pits 24 x 24 x 12
ins. crosswise on this and the succeeding course, 7
ft. dist.; and raise a mound of earth 4 ft. base, 2
ft. high, 3-1/2 ft. dist., SW. of cor., from which:
A pine 24 ins. dia., scribed 2 H E S 183 + B T,
bears N. 04° 45' W., 67 lks. dist.
A pine 26 ins. dia., scribed 2 H E S 183 + B T,
bears N. 80° E., 83 lks. dist.

Thence S. 29° 48' W.
Along NW. slope in scattering pine timber.

17.60 Fence, bears E. and W.

19.20 Forest Service telephone line, bears WNW. and ESE.

21.97 To cor. No. 3.
Identical with cor. No. 2 of the list survey which
is a sandstone 10 x 6 x 8 ins. above ground, marked
and witnessed as described by the Forest Service. I
destroy all trace of the list cor. and at this point
I set a sandstone 26 x 12 x 6 ins., 16 ins. in the

Chains

ground, over a marked stone, marked (+) at the point and 3-HES183 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor., from which:

A pine 26 ins. dia., scribed 3 H E S 183 + B T, bears N. 06° 30' E., 63 lks. dist.

A pine 24 ins. dia., scribed 3 H E S 183 + B T, bears S. 57° E., 22 lks. dist.

Thence, S. 14° 45' W.

Continue along W. slope in scattering pine timber.

21.00 To cor. No. 4.

Identical with cor. No. 3 of the list survey which is a limestone 14 x 5 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and at this point I set a limestone 26 x 10 x 9 ins., 16 ins. in the ground, over a marked stone, marked (+) at the point and 4-HES183 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor., from which:

A pine 5 ins. dia., scribed 4 H E S 183 + B T, bears N. 14° 15' E., 147 lks. dist.

A pine 14 ins. dia., scribed 4 H E S 183 + B T, bears N. 72° 45' E., 41 lks. dist.

Thence N. 76° 23' W.

Over bottom land in scattering pine timber.

1.50 Arroyo, 10 lks. wide, banks 1 ft. high, course N.

3.49 To cor. No. 5.

Identical with cor. No. 4 of the list survey, which is a limestone 14 x 8 x 7 ins. above ground, marked and witnessed as described by the Forest Service.

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Chains I destroy all trace of the list cor. and at this point I set a sandstone 28 x 12 x 9 ins., 18 ins. in the ground, over a marked stone, marked (+) at the point and 5-HES183 on the NE. face, and dig pits crosswise on this and the succeeding course, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. NE. of cor., from which:

A pine 24 ins. dia., scribed 5 H E S 183 + B T, bears N. 50° 30' W., 94 lks. dist.

A pine 26 ins. dia., scribed 5 H E S 183 + B T, bears N. 06° E., 40 lks. dist.

Thence N. 10° 13' W.

Along gentle E. slope in scattering pine timber.

14.02 To cor. No. 6.

Identical with cor. No. 5 of the list survey, which is a limestone 16 x 10 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and at this point I set a limestone 28 x 12 x 7 ins., 18 ins. in the ground, over a marked stone, marked (+) at the point and 6-HES183 on the E. face, and dig pits crosswise on this and the succeeding course 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. E. of cor., from which:

A pine 14 ins. dia., scribed 6 H E S 183 + B T, bears S. 38° 15' E., 157 lks. dist.

A pine 28 ins. dia., scribed 6 H E S 183 + B T, bears S. 14° 30' W., 27 lks. dist.

Thence N. 19° 41' E.

Over bottom land in open.

Chains At this point, I pass from listed to unlisted land
in order to include the permanent improvements.

4.00 Leave bottom, bears NE. and SW. and ascend E. slope
10 ft. in scattering pine timber.

8.92 To cor. No. 7.

At this point I set a limestone 24 x 14 x 6 ins., 14
ins. in the ground, over a marked stone, marked (+)
at the point and 7-HES183 on the E. face; and raise
a mound of stone 2 ft. base, 1-1/2 ft. high, E. of
cor., from which:

A pine 12 ins. dia., scribed 7 H E S 183 + B T,
bears S. 84° 15' W., 12 lks. dist.

A pine 9 ins. dia., scribed 7 H E S 183 + B T,
bears S. 35° 30' E., 62 lks. dist.

Thence N. 38° 02' E.

Descend E. slope 10 ft. in scattering timber.

2.30 Forest Service telephone line, bears WNW. and ESE.

24.79 To cor. No. 1, the place of beginning.

AREA.

Area of List 2377 - - - - - 28.07 acres.
Area of unlisted land - - - - - 3.33 acres.
Total area - - - - - 31.40 acres.

IMPROVEMENTS.

The improvements made upon and for the benefit of this
homestead consist of the following:

A log stable 30 x 25 ft., the long side of which bears
NE. and SW. and the E. cor. of which bears N. 84° 15'
E., 1.30 chs. dist. from cor. No. 7.

Value ----- \$100.00

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Chains An old log dwelling 40 x 12 ft., the long side of which bears E. and W. and the NW. cor. of which bears S. 09° E., 3.00 chs. dist. from cor. No. 7.

Value ----- \$ 50.00

A 1-1/2 story L shaped log dwelling, the long side of which bears N. and S. and the NE. cor. of which bears S. 11° W., 2.10 chs. dist. from cor. No. 7.

Value ----- \$800.00

A reservoir embankment 9 ft. high at its center point which bears N. 79° E., 7.30 chs. dist. from cor. No. 7 of this survey. The embankment extends N. 55° W. 1.00 ch. and S. 55° E., 1.00 ch. dist. from its center point. Estimated capacity of reservoir 1/4 acre ft.

Value ----- \$175.00

There is approximately 2-1/2 miles of wire fence on the inside of the claim.

Value ----- \$175.00

There is approximately 5 acres of plowed land and the majority of the remainder is meadow land.

DESCRIPTION.

This claim is situated on the N. slope of the Megollon mesa at an elevation of approximately 7,150 ft. and occupies a tract of meadow land which drains northward. This section is heavily timbered and a fringe is included in this survey. Sufficient water for domestic purposes and for stock is obtained from springs or seeps that rise upon this homestead. The bottom soil is a sandy loam and produces any crop raised in the temperate zone without irrigation; but is best adapted for the small grains and sorghums. The slopes are stony but are agricultural in character. This is not

Chains to a mineralized section and I saw no trace of mineral upon this claim. The additional land which is principally agricultural, but which also contains a few pine trees, was added in order to include the claimant's house, stable and corral.

-----CONFLICTS AND ADJOINING CLAIMS.

There are no conflicts or adjoining claims. A small area of unlisted land is included in the survey in order to include the claimant's house and barn. Winslow postoffice and railroad station is 52 miles by wagon road in a Northeasterly direction.

June 26, 1914.

----- TRAVERSE.

Cor.	Course	Dist.	N	S	E	W
1-2	S. 50° 20' E.	4.96		3.17	3.82	
2-3	S. 29° 48' W.	21.97		19.06		10.92
3-4	S. 14° 45' W.	21.00		20.31		5.35
4-5	N. 76° 23' W.	3.49	0.82			3.39
5-6	N. 10° 13' W.	14.02	13.80			2.49
6-7	N. 19° 41' E.	8.92	8.40		3.00	
7-1	N. 38° 02' E.	24.79	19.53		15.27	
		99.15	42.55	42.54	22.09	22.15
			42.54			22.09
	Error in Lat. and Dep.		.01			.06

Closing error 1:1630.

Walter J. Purdy
Surveyor - Forest Service.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Detailed Computation.

Lat. $34^{\circ} 27' 52''$ N. and Long. $110^{\circ} 53' 20''$ W., S. C. secs. 32 and 33, T. 13 N., R. 13 E., from Surveyor General's special instructions.

$$\frac{127.08}{80} \times 0.871 = 01' 23'' \quad 34^{\circ} 27' 52'' - 01' 23'' =$$

$34^{\circ} 26' 29''$ N., Lat., place of obsn.

$$\frac{5.34}{480} \times 6' 18''.52 = 00' 4.2'' \quad 110^{\circ} 53' 20'' + 4''.2 =$$

$110^{\circ} 53' 24''$ W., Long., place of obsn.

Obsn. of June 25, 1914 at 9h. 30m., p.m., l.m.t.

Greenwich m.t. U.C. Pol., June 25, 1914,	7h. 17.9m.
Siderial correction,	1.2m.
l.m.t., U. C. Pol., June 25, 1914,	7h. 16.7m.
Ast. l.m.t., U.C. Pol., June 24, 1914,	19h. 16.7m.
Ast. U. C. Pol. obsn., June 24, 1914,	33h. 30.0m.
	14h. 13.3m.
	23h. 56.1m.
Time argument,	9h. 42.8m.

Decl. Pol., $88^{\circ} 50' 42''.9$

$$\frac{.8}{6.1} = \text{time ratio.}$$

$$\frac{.8}{6.1} \times 1'.8 = 0'.2.$$

$46'.5 - 0'.2 = 00^{\circ} 46' 18''$ E., Azimuth of Pol.

at obsn.

Obsn. of June 25, 1914 at 9h. 42m., p.m., l.m.t.

Greenwich m.t. U.C. Pol., June 25, 1914	7h. 17.9m.
Siderial correction,	1.2m.
l.m.t., U.C. Pol., June 25, 1914,	7h. 16.7m.
Ast. l.m.t. U.C. Pol., June 24, 1914,	19h. 16.7m.
Ast. l.m.t. obsn., June 24, 1914	33h. 42.0m.
	14h. 25.3m.
	23h. 56.1m.
Time argument,	9h. 30.8m.

Decl. Pol., $88^{\circ} 50' 42''.9$.

$$\text{Time ratio} = \frac{1.3}{6.4} \cdot \frac{1.3}{6.4} \times 1.9' = 0'.4$$

$50'.3 - 0'.4 = 00^{\circ} 49' 54''$ E., Azimuth of Pol.

26 obsn.

T.A.

DIRECTIONS.—1. Carry out calculations to two decimals only.
2. In balancing Latitudes and Departures do not obliterate or change the original figures.
Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.
The corrections for balancing fallings should be proportional to the lengths of the lines.
3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by G. L. O.
4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 183, STATE OF ARIZONA - SITGREAVES. Jose Duran.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 50° 20' E.	4.96		3.17	3.82		40.42	128.13	
2-3	S. 29° 48' W.	21.97		19.06			33.53	635.27	
3-4	S. 14° 45' W.	21.00		20.31			17.08	346.89	
4-5	N. 76° 23' W.	3.49	0.82				8.55	6.85	
5-6	N. 10° 13' W.	14.02	13.80				2.48	34.22	
6-7	N. 19° 41' E.	8.92	8.40		3.00		3.01	25.28	
7-1	N. 38° 02' E.	24.79	19.53		15.27		21.51	415.97	
		99.15	42.55	42.54	22.09	22.15	482.32	1110.29	
			42.54	42.54	22.12	22.12		482.32	
			42.54	42.54	22.12	22.12		627.97	
								Area = 31.40	T.A.

Closing error 1:1630.

85

DEPT. OF THE ARMY

CR. OFF
 58.344
 10.750
 68.100 - 90.00

COMMENTS	REMARKS	DISTRICT	PERIODICITY		DELIVERABLES		DOUBT	M. TIME	S. TIME
			Year	Month	Year	Month			
1-1	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
2-2	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
3-3	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
4-4	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
5-5	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
6-6	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
7-7	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
8-8	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
9-9	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00
10-10	30.00	30.00	11.00	30.00	30.00	30.00	30.00	30.00	30.00

INVESTING AND CALCULATIONS OF HOMESTEAD EASY SURVEY ON THE STATE OF CALIFORNIA

DEPT. OF THE ARMY

CR. OFF

58.344

10.750

68.100 - 90.00

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 29, 1916.

The foregoing field notes of Homestead Entry Survey No.

183

executed by Walter C. Turley, Surveyor-Forest Service
under his special instructions, dated June 10, 1914,
having been critically examined, and the necessary correc-
tions and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Frank P. Trott

U. S. Surveyor General.

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

Frank P. Trott
U. S. Surveyor General.