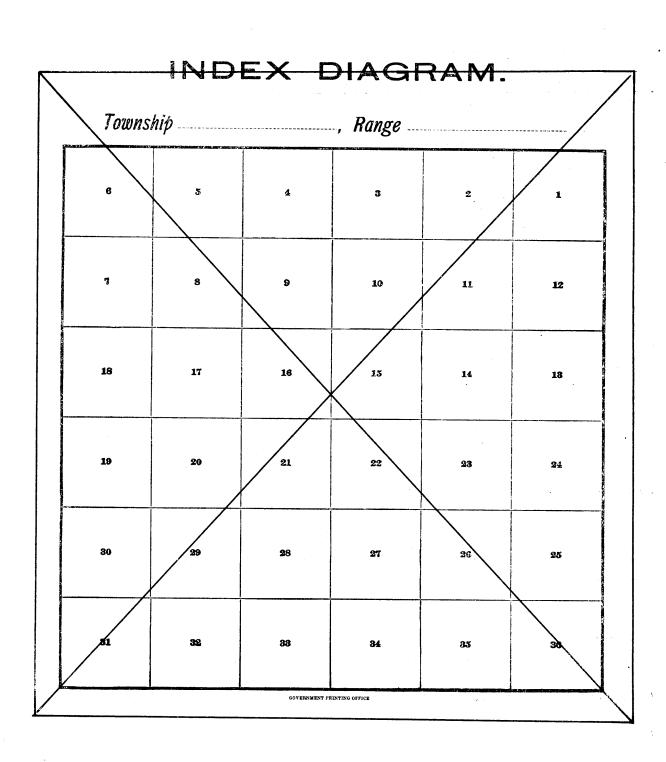
BCOK 3908

FIELD NOTES

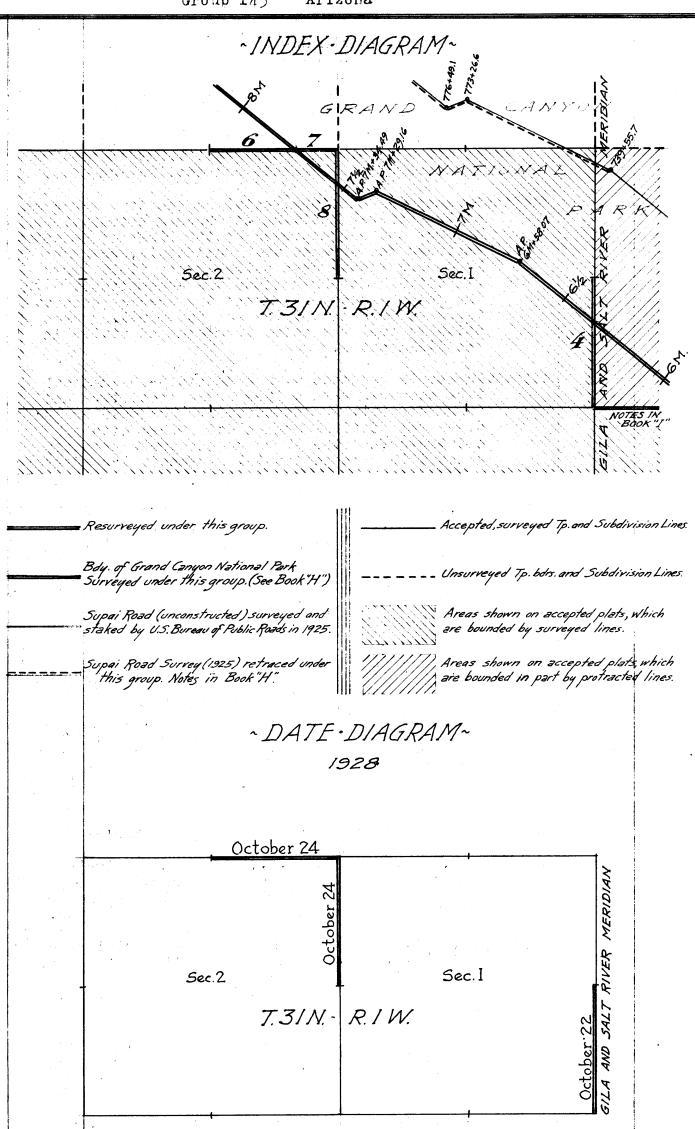
OF RESURVEY OF

Gila and Salt River Meridian
thru Part of T. 31 N.
D- 4 C // N/ // D //
Part of the North Boundary
and Part of the Subdivision Lines
o.F
Township 31 North - Range West
·
Of the Gila and Salt River Base and Meridian,
In the State ofARIZONA
EXECUTED BY
Sidney E. Blout, U.S. Cadastral Engineer
In the capacity of U.S. Surveyor, under Special Instructions dated January 31,
1928, issued by the District Cadastral Engineer to govern surveys included in Group
No. 145 Arizonz, which were approved by the Commissioner of the General Land
Office, February 16, 1928, and Assignment Instructions dated, 1928_
1920, 1920
ReSurvey commenced October 22 , 1928.
ReSurvey completed October 24, 1928.



Group 145 Arizona

BOOK 3908



Resurveyed by Sidney E. Blout, U.S. Cadastral Engineer, on dates shown thereon.

The resurveys hereinafter described
were executed on dates shown on diagram on page
l hereof by Sidney E Blout.U.S. Cadastral Engineer
using an A Lietz solar transit No.6166 with
improved Smith solar attachment. The horizontal
limb is provided with two double verniers placed
epposite to each other reading to single minutes
of are which is also the least count of the
verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at the Federal Building at Phoenix Arizona, found correct and was approved by the District Cadastral Engineer for Arizona and California, September 28, 1928 conditional upon satisfactory field tests. All azimuth determinations are accomplished with the solar attachment, except the special observations on Polaris and the sun for meridian upon which to test the solar apparatus as stated in the field notes.

All measurements are made with a Lallie 5-chain steel tape compared with a Chesterman steel tape and found correct. The measurements are made on the slone the vertical angles determined with a clinemeter, and the slope measurements properly reduced to true horizontal distances for entry in the field notes.

October 15.1926 At camp at the Pasture Wash Ranger Station near the N.bdy.of sec.28.732N., Rlw. in approximate latitude 36°08'N. and longitude 112°232'W.; examine the adjustments of the instrument and find no errors, then to test the solar apparatus by comparits indications resulting from solar observations made during a.m., and p.m. hours with a meridian established by observations on Polaris; proceed as follows:

October 16,1928. at 6 03 p.m., l.m.t., by watch which is set by Western Union clock to read correct local mean time, observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions and mark the mean point in the line thus determined by a tally pin driven in a stake set firmly in the ground about 5-chs.N.

Azimuth of "claris at elongation ---- =1°20'8" E.

October 17,1928. At 8h00^m a.m., lay off the azimuth of Polaris 1°20' to the west and mark the true meridian thus determined by a tally pin driven in a stake set firmly in the ground about 5- chs. N.

October 20,1928. Set up instrument on the meridian and at 8^h 30^m a.m., app. time set off 36°8'N.on the lat. arc 10°23'S. on the decl.arc and determine a meridian with the solar. which falls 1' E.of the meridian established by the Polaris observations.

At apparent moon with the lat.arc unchanged, observe the sum on the meridian. the resulting reading on the decl. arc is 10°27'S. which is slightly lower than the computed declination of the sun for this hour

At 3h00mp.m.,app.time with the lat arc unchanged.set off 10°29'S. on the decl.arc and determine a meridian with the solar which falls le'W.of the meridian established by the Polaris observations.

Since all the solar observations, made during the usual hours of solar work define positions for meridians which agree within 1'30" with the true meridian established by the Polaris observations, conclude that the adjustments of the instrument are satisfactory.

Resurvey of the Gila and Salt River Meridian through Part of Township 31 North.bet.Ranges 1 E., and 1 W.

Chains

The Gila and Salt River Meridian through Township 31 North between Ranges 1 East and 1 West was surveyed in 1899, by W.O. Secor, U.S. Deputy Surveyor. No retracement or resurvey of this part of the Meridian is of record.

Retracement for Resurvey.

From the + sec. cor. of secs.1 and 6 .on the Gila and Salt River Meridian in T31N.bet.Rs.1 E. and 1 W.hereinafter described,

South, (record bearing) on a random line, bet. secs. 1 and

6, (S2)

40.19 Intersect the reconstructed cor. of secs.1,6,7,and 12 described in Book I of this group.

True course and dist.of the Size of line bet.secs.1 and

6 are therefore, North 40.19 chs.

Resurvey

From the reconstructed cor. of secs.1,6,7, and 12,

North, on true line, on the 5.1/2 of line bet. secs. 1 and

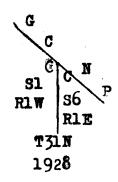
Over rolling stony land, thru heavy timber and brush undergrowth.

26,66 Intersect that part of the Bdy.of the Grand Canyon National Park surveyed parallel to and 40.00 chs. S45°W.from the Supai Road Survey, as described in Book "H"of this group.

This intersection is at station, on said Park Bdy. 28.71

chs. N51°50'W.from the 6 Mile monument and 11.29 chs. S51°50'E.from the 6 mile monument.

At this point of intersection, Set an iron post 3 ft. long, 2 ins. in diam. 26 ins. in the ground for closing cor. of Ts. 31 N., Rs. 4 E. and 1 W., marked on brass cap,



from which

A juniper 18 ins. in diam. bears S45% E.153 lks. dist., marked T3lN., RlE., S6 CC BT.

A pinion 6 ins. in diam. bears S65% W.72 lks. dist., marked T3lN., RlW., S 1 CC BT.

Enter Grand Canyon National Park.

40.19 (13.53 chs. North from closing cor. of Ts. 31 N., Rs. 1 E. 15 and I W.) Intersect the 1 sec. cor. of secs. 1 and 6, which is a lime-stone 12x10x7 ins.firmly set in a mound of stone.properly marked, and witnessed by two bearing trees.

Continue line and measurement.

Resurvey of the Gila and Salt River Meridian
through Part of Township 31 North., bet. Ranges 1 E. and 1 W.

Chains

Land, rolling.
Soil, stony 3 rd. and 4 th. rate.
Timber, cedar, pinion, and jumiper.
Undergrowth, sagebrush, cedar and pinion.

300X 1808

Resurvey of Part of the North Bdy.

of Township 31 North., Range 1 West.

Chains

This township boundary was surveyed by W.O.Secor, U.S. Deputy Surveyor in 1900 and no subsequent retracement or resurvey of this boundary is of record.

Retracement for Resurvey

From the cor. ofsecs. 1,2,35,and 36 on N.bdy.of T31N., RlW., hereinafter described,

S 89°58'W. (record bearing) on a random line bet. secs.

2 and 35. (E3)
Fall 2 lks. N.of the old 1 sec. cor., hereinafter descr-40.24 ibed.

True course and dist. of the E 2 of line bet. secs. 2 and 35 are therefore, N89°56'E. 40.24 chs.

Resurvey

From the 4 sec. cor. of secs.2 and 35 on N.bdy.of T31N RlW., which is a limestone 16x12x6 ins.firmly set in a mound of stone, properly marked, and witnessed by two bearing trees also properly marked,

N 89°56'E. on true line bet. secs.2 and 35 (Et) Over rolling stony land thru. scattering timber and brush undergrowth.

6.00

Leave timber bears N. and S.

Enter old burnt area. bears N. and S.

13.75 23.50 Draw course S.; Old road in draw bears N. and S.,

Leave old timber burn bears N. and S. Enter heavy timber.

27.23

Intersect that part of the Bdy.of the Grand Canyon
National Park surveyed parallel to and 40.00 chs S45°W.from the Supai Road Survey, as described in Book "H" of this group.

This intersection is at the 59.24 chain station of the 8 th. mile of said Park Bdy.19.24 chs.N51°09'W.

of the 7% Mile monument and 20.76 chs. S51°09'E. of the 8 Mile monument.

At this point of intersection, Set an iron post 3 ft. long 2 ins. in diam. 26 ins. in the ground for closing corner of Ts. 31 and 32 N. R. 1 W., marked on brass cap

1928

from which

A juniper 16 ins. in diam. bears S227°E.72 lks. dist., marked T31N.,RlW.,S2 CC BT.

A juniper 12 ins. in diam. bears N682°W.60 lks. dist., marked T32N.,RlW.,S35 CC BT.

100%

Resurvey of Part of the North Boundary of Township 31 North., Range 1 West.

Enter Grand Canyon National Park Chains

40.24

Continue line and measurement.

(13.01 chs.N89°56'E.frem closing cor. of Ts.31 and 32 N., RlW.) Intersect the cor. of secs.1,2,35, and 36, which is a limestone 24x18x12 ins.firmly set in a mound of stone, properly marked, and witnessed by three bearing trees, one each NE., SE., and SW.of cor.

Land, rolling.
Soil, stony 3 rd. and 4 th. rate.
Timber, cedar, pinion, and juniper.
Undergrowth, sagebrush and scrub cedar and pinion.

300K 5608

Resurvey of Part of the Subdivision lines of Township 31 North., Range 1 West.

Chains

The Subdivision lines of this township were surveyed by W.O.Secor, U.S.Deputy Surveyor, in 1900, and ne subsequent retracement or resurvey of same is of record.

The following notes describe the resurvey of the N. 1/2 of the line bet. secs. 1 and 2 of this township closing on the Bdy. of the Grand Canyon National Park.

Retracement for Resurvey

From the cor. of secs.1,2,35, and 36. on N.bdy.of Tp. hereinbefore described,

S 0°3'E., (record hearing) on a random line, bet.secs.1 and 2. (Ng)

Fall 2 lks. W. of the old & sec. cor. of secs. 1 and 2,

hereinafter described. True course and dist. of the N.1/2 of line bet. sees. 1 and 2 are therefore, NO.5 W. 40.20 chs.

Remirvey

From the 2 sec. cor. lof. secs.l and 2, T3lN., RlW. which is a limestone 20x12x6 ins. firmly set in a mound of stone, properly marked, and witnessed by two properly marked bearing trees,

N 025 W.on true line, bet. secs. 1 and 2. (Na) Over rolling stony land thru. scattering timber and brush undergrowth.

6.00 29.74

40.20

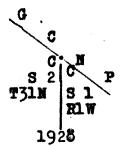
Draw course SW. Intersect that part of the Bdy.of the Grand Canyon National Park surveyed parallel to and 40.00 chs

S45°W.from the Supai Road Survey.as described in Book "H" of this group.

This intersection is at the 42.57 chain station of the 5th. mile of said Park Bdy..2.57 chs.N51°09'W. from the 73 Mile monument thereon and 37.43 chs. S51°09'E.from the 8 Mile monument.

At this point of intersection, Set an iron post 3 ft.long

2 ins. in diam. 26 ins. in the ground for closing cor. of secs. 1 and 2., marked on brass cap



from which

A juniper 10 ins. in diam. bears 3242°E.76 lks. dist., marked T31N.,Rlw.,Sl CC BT.
A juniper 10 ins. in diam. bears S7°W.39 lks. dist.,

marked T31N., RlW., S2 CC BT.

Enter Grand Canyon National Park. Continue line and measurement.

(10.46 chs.NO*5*W.from closing cor. of secs. 1 and 2)

40.20

9 _

300K 800

Chains

Intersect the cor. of secs.1,2,35,and 36.on N.bdy.of Tp. hereinbefore described.

Land, rolling mesa.
Soil, stony 3 rd. and 4 th. rate.
Timber, cedar, pinion, and juniper.
Undergrowth, sagebrush and scrub cedar and juniper brush.

The continued satisfactory adjustment of the instrument used in the execution of the resurveys described in the foregoing notes is indicated from the final field tests of said instrument, described in Book "H" of this group.

LCON SQQ

4-680 (August, 1926)

FIELD ASSISTANTS. BLOUT, U.S. Cadastral Engineer * NAMES. CAPACITY. James Shine 1st Chainman A.L. Bailey 2nd Chainman Dan McMurtrie Cornerman Geo.M. Tucker Flagman

CERTIFICATE OF UNITED STATES SURVEYOR.

12		
o <u>k</u> ^{80€}	CERTIFICATE OF UNITE	D STATES SURVEYOR.
OV ISidnev H	. Riout. 115 Cadastral Foo	gincer, hereby certify upon honor that, in pursuance
		ral Engineer, for Group 145, Arizona
-		ry , 1928 , I have well, faithfully, and trul
		said instructions, the Manual of Surveying Instruc
	•	nose parts or portions of
		in Tp. 31 N.
		oundary
	Subdivision L	ines of
Town	ship 31 North, Range 1 W	est of the Gila and Salt
River Base &	and Meridian, in the State of	Arizona , which are represented i
the foregoing field	and by diagram on page I he I notes as having been executed by me	ereof e, and under my direction; and that all the corners of
said resurvey have l	been established and perpetuated in str	rict accordance with the Manual of Surveying Instru
tions, and the spe	ecial written instructions of the Distric	ct Cadastral Engineer, for Group 145. Arizons
		and that the foregoing are the original field notes
such resurvey.		
•	ix, Arizona.	Sichung Blout U.B. Cadastral Engineer.
	3, 1929.	
•	APPRO	DVAL.
	Oi	FFICE OF U. S. SUPERVISOR OF SURVEYS,
		Denver, Colo., April 20, 1929
The foregoin	g field notes of the resurvey of	
the Gila	and Salt River Meridian t	hru Part of Tp. 31 North
	Part of the Nor	th Boundary
•••••	and	
	Part of the Sub	division Lines of
		cth, Range 1 West
of the Gil	a and Salt River Base and	l Meridian, State of Arizona
executed byS	idney E. Blout, U.S.Cadas	stral Engineer
under his special	instructions dated January 31,1	xplanations made, the said field notes, and the resurv
		U.S. Supervisor of Survey
		notes of the above-described surveys in