ECCK 3260

FIELD NOTES

of the RETRACEMENT of a

,		<i>y</i>
Portion of West boundary of	Township 25 North, Range 11 East,	
and SUR	VEY of the	
6th Standard Parallel North,	thru portion of Range 11 East, ar	ıd
Meanders of left bank of Lit	tle Colorado River thru 1. 25 H.	R.I
Portion of Subdivision lines	of Township 25 North, Range II F	east
* .		
*		
·		
Of the Gile and Salt	River Base and Meridian,	
·	to the second of	
In the State of	izona.	
FXF	CUTED BY	
•		
Theodore Q. Joh	nston, U. S. Surveyor,	
	and	
Thirtie T Took	. II a Mrangitman	
Philip L. Inch	ı, U.S. Transitman,	
	n, U.S. Transitman, ader instructions dated January 4,	
In the capacity of U.S. Surveyor, un	nder instructions dated January 4,	, 193
In the capacity of U.S. Surveyor, unissued by the United States Surve	nder instructions dated_January_4,yor General to govern surveys inclu	, 192 ded
In the capacity of U.S. Surveyor, unissued by the United States Surve	nder instructions dated January 4,	, 192 ded
In the capacity of U.S. Surveyor, unissued by the United States Surveyor, which were approximately surveyor, which were approximately surveyor	nder instructions dated January 4, yor General to govern surveys inclured by the Commissioner of the General	, 192 ded
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In the capacity of U.S. Surveyor, unissued by the United States Surveyor Group No.66, which were appropriately January 17, 1916.	nder instructions dated January 4, yor General to govern surveys inclured by the Commissioner of the General	, 192 ded
In the capacity of U.S. Surveyor, unissued by the United States Surveyor Group No.66, which were appropriately January 17, 1916.	nder instructions dated January 4, yor General to govern surveys inclusived by the Commissioner of the General	, 192 ded

Book "A"
Group 66---Arizona.

SEE SPECIAL INDEX DIAGRAN.

7		IND	EX E	HAGI	RAM.	7
 -	Towns	<i>hip</i> 25 Noi	cth,	Range	ll East.	
	6	5	4	8	2	1
4	7 8	8	°	10	11	12
4	18	17	16	15	14	13
4	19 7	20	21	22	23	24
3	30 7	29	28	27	26	25
3	5 4	32	33	34	85	38

T. 25 N., R. II E. Index Diagram.

BCCK 3260 NAVAJO INDIAN RESERVATION 18 30 29 5 *3*2 31 6th Standard Par. North

	Lines	surveyed	under	this	Group.	,
-	tt.	retraced	f †	11	ŧŧ	
	Lines	run under	curre	ent G	eup 68	}•
	Accep	ted survej	rs.			
	Unarr	gravad				

Retracement of Portion of W. Bdy., T. 25 N., R. 11 E., Survey of 6th St. Par. N., Through Portion of R. 11 E., and Subdivision of Portion of T. 25 N., R.11 E.

Chains

Work executed by Theo. O. Johnston, U. S. Surveyor, using Buff Solar Transit No. 9939; and Philip L. Inch, U. S. Transitman, using Young and Sons' light mountain transit No. 8496, with Smith Solar attachment.

Dates of survey showh on diagram, on page 12 hereof. Both instruments have horizontal circles, equipped with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs. The instruments were approved by the assist ant supervisor of surveys for Arizona and California, subject to satisfactory field tests, on Feb. 3, 1916.

All lines were originated by deflection from a meridian determined by observation of Polaris at elongation, a record of which follows herein, projected by means of transit lines, with carefully measured angles.

The adjustments of the instruments were examined and the level and collimation errors corrected.

Polaris Observation, by Theo O. Johnston, U.S.S.

Feb. 15, 1916.

At m camp in sec. 5, T. 24 N., R. 11 E., in lat. 35°30 N., long. 111°14'15"W., at 9h 47m p.m., 1.m.t., observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden stake firmly set in the ground 5 chs. N. of minstrument.

Feb.16, 1916.
At 7h 30m, a.m., I turn off the azimuth of Polaris 1°24' to the E., and mark the meridian thus determined by a tack driven in a stake firmly set in the ground E. of the point established last night.

Retracement of Portion of W. Bdy., T. 25 N., R. 11 E.

From original std. cor. of Tps. 25.N. Rs. 10 and 11 E., on the 6th Std. Par. N. which is a stone, firmly set, marked and witnessed as described by the surveyor general;

North, on a true line, bet. secs. 31 and 36. 40.02 Thtersect the old 1, sec. cors, a stone, firmly set, marked and witnessed as described by the surveyor general.

Thence N.O°15'E., bet.secs...31 and 36 (N.1) 40.06 Thtersect the old cor. of secs. 25.30,31 and 36; a stone firmly set, marked and witnessed as described by the surveyor general.

North, bet. secs. 25 and 30, 40.10 Thtersect the old $\frac{1}{4}$, sec. cor.; a sandstone, 4x4x3 ins. above ground, marked and witnessed as described by the surveyor general.

	Retracement of Portion of W. Bdy., T. 25 N., R. 11 E.
Chains	
40.06	Thence N.O°15'E., bet. secs. 25 and 30, (N.12), Intersect the old cor; of secs. 19,24,25 and 30, a sand- stone rock, 8x4x3 ins. above ground, marked and witnessed as described by the surveyor general.
39.665	abrows instable verground mike it witnessed as described by the
40.00	- 1
40.08	Thence N.0°15'E., bet. secs. 13 and 24 (N.1)
40.00	North, bet.secs. 13 and 18. Intersect the old & sec. cor. a malpais stone, 8x8x6 ins. above ground, marked and witnessed as described by the surveyor general.
40.02	Thence N.0°15'E., bet. secs. 13 and 18 (N.2). Intersect the old cor., of secs. 7,12,13 and 18, a sandstone rock, 6x4x4 ins. above ground, marked and witnessed as described by the surveyor general.
40.00	N.0°08'E., bet. secs. 7 and 12. Intersect the old & sec.cor., a stone, firmly set, marked and witnessed as described by the surveyor general. Thence, North, bet. secs. 7 and 12 (N.2)
3.20	The left bank of Little Colorado River. brs. NW. and SE. Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for meander cor. of fracl. secs. 7 and 12, with brass cap, marked
	NIR M C
	S12 S 7 R10E R11E
	T25N 1916
	and raise a mound of stone, 2 ft. base, 12 ft. high,
	S. of cor. Owing to the high water in the river at this time, and the cor. of secs. 1, 6, 7 and 12 not being visible, it is impracticable to retrace the north half, bet. secs. 7%12.
1	
	Survey tof 6th Std. Par. N. thru part of R. 11 E.
	From the standard cor. of Tps. 25 N., Rs. 10 and 11 E., hereinbefore described;
	East, on the tangent, S. of sec. 31, over rolling land.
39.00 40.00	Top of butte. Ancient stone ruins: N., ½ link from the tangent, Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, (impracticable to set post in the ground) for
	standard \(\frac{1}{4} \) sec. cor., with brass cap, marked

```
6th St.
                             Par.
                                         Through Portion of
Chains
                                         SC
                                        <del>1</del>831
                                        1916
            and raise a mound of stone, 2 ft. base, 12 ft. high,
            N. of cor.
42.00
         Road bears N.20°W. and S.20°E.
45.00
78.90
         Wash, course NW.
         Top of plateau bears NW. and SE.
80.00
         N. 1 link from the tangent
         Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in a mound of stone, (impracticable to set post in the ground) for standard cor. of sec.31 and fract.sec.32. marked one
                                            SC
            brassccap,
                                        T25N R11E
                                         S31 S32
                                           1916
            and raise a mound of stone, 2 ft. base, 12 ft. high.
            N. of cor.
         Land, rolling.
            Soil, rocky volcanic ash; 4th rate.
            No timber.
         East, on the tangent, S. of fracl 32qec.32.
         Over rollinging mountainous land,
Desc. over low cliff, on NE. slope.
24.60
         Top of cliff 50 ft. high, bearing N. and S.
35.50
            Little Colorado River.
36.29
         The left bank of Little Colorado River, brs. NW. and SE.
         N., 2 lks. from the tangent.
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the
ground, for meander cor. of fracl sec. 32, with brass
            cap, marked
                                       T25N'
R11E
                                               MC NIR
                                           1916
            and raise a mound of stone, 2 ft. base, 12 ft. high,
            W. of cor.
         Land, rolling and mountainous.
            Soil, rocky and sandy volcanic ash; 4th rate.
                   Subdivision of Portion of T. 25 N., R. 11 E.
        From the standard cor. of secs.31. afracl, sec. 32, on s. bdy of Tp., (6th St. Par. N.), hereinbefore described;
         N.0°09'E., (parallel to mean bearing of W. bdy. of Tp.). bet. sec. 31 and fracl. sec. 32,
         Over rolling and mountainous land,
36.00
         Ridge bears NW. and SE.
         Set an iron post, 3 ft. long, P ins. diam., 26 ins. in the
40.00
           ground, for \frac{1}{4} sec. cor., with brass cap, marked
```

	Subdivision of Portion of T. 25 N., R. 11 E.
Cha ins	1/4
	S31 S32
	1916
	dig pits, $18x18x12$ ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
	W. of cor. Wash. course E.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of sec. 31, and fracil secs. 29, 30 and 32, with, brass cap, marked
) - 3610 * L	T25N R11E
1, 1,000	S31 S32
, ser "	1916
-	dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling and mountainous. Soil, rocky and sandy; 4th rate. No timber.
12.00	East, on a true line, bet. fracl. secs. 29 and 32, Over rolling and mountainous land, descending on NE. slope. The left bank of Little Colorado River, brs. NW. and SE.
12.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for meander cor. of fracl. secs. 29 and 32, with brass cap. marked
	$ \begin{array}{c} $
	S32 R11E
	1916
	dig a pit, 36x36x12 ins., 8 ft. W. of post; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling and mountainous. Soil, rocky and sandy volcanic ash; 4th rate. No timber.
40.00	From cor.of sec.31 and fraclusecs.29,30, and 32, West, on a random line, bet.sec.31 and fracl sec.30. Set temp. \(\frac{1}{4}\) sec. cor.
79.96	Intersect W, bdy. of Tp. 14 lks. S. of old cor. of secs. 25,30,31 and 36, hereinbefore described.
35.00	Thence S.89°54'E., on a true line, bet. sec.31 and fract. sec. over broken, rolling mountainous land, /30. Wash, course NE.
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ½ sec. cor., with brass cap, marked \$30
	\$31 1916
	and raise a mound of stone 2 ft.base, la ft. high, N.of cor.
50.00	Ridge bears N. and S. Wäsh, course NE. Ridge bears NW. and SE.

Subdivision of Portion of T. Chains Wash, course N. Ridge bears NW. and SE. The cor. of sec. 31 and frag1.secs 29,30, and 32. 70.00 79.96 Land, broken, ralling and mountainous. Soil, rocky and sandy volcanic ash; 4th rate. No timber. N.0°09'E., bet. fracl. secs. 29 and 30, over sandy river bottom. The left bank of Little Colorado River, brs. NW. and SE. 8.42 Set an iron post, 3 ft.long, 2 ins. diam., 24 ins. in the ground, for meander cor. of fracl. secs. 29 and 30, with brass cap, marked NIR M C S30 | S29 T25N|Rlie 1916 and raise a mound of stone, 2 ft. base, 12 ft. high, S. of cor. Land, broken sandy river bottom. Soil, sand and volcanic ash; 4th rate. No timber. From old .cor. of secs. 19, 24, 25 and 30 on W.bdy. ... of Tp., hereinbefore described; S.89°54'E., on a true line, bet. fracel 36cs.19 and 30. over rolling mountainous land, through scattering under-38.00 Draw, course N. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked 40.00 S19 1916 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. The left bank of Little Colorado River, brs. N. and S. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for meander cor. of fracl. secs. 19 and 30, 55.70 with brass cap, marked T25N SÍ9 MC NIR 330 RllE 1916 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high. W. of cor. Land, rolling& mountainous. Soil, rocky volcanic ash; 4th rate. No timber. Undergrowth, rabbit brush and soap weed.

Subdivision of Portion of T. 25 N., R. Chains From old cor. of secs. 13, 18, 19 and 24, on W. bdy. of Tp., hereinbefore described; S.89°54'E., on a true line, bet. fracl. secs. 18 and 19, over rolling mountainous land, through scattering undergrowth. Wash, course NW. 4.00 Wash, course N. 10.00 The left bank of Little Colorado River, brs. NW. and SE. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for meander cor. of fracl. secs. 18 and 19, with 34.10 brass cap, marked T25N s18 MC NIR S19 RILE 1916 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling and mountainous. Soil, rocky volcanic ash; 4th rate. No timber. Undergrowth, rabbit brush and soap weed. From old cor. of secs. 7, 12, 13 and 18, on W. bdy. of Tp., hereinbefore described; 5.89°54'E., on a true line, bet. fracl. secs. 7 and 18, over level land. The left bank of Little Colorado River, brs.N. and S. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for meander cor. of fracl. secs. 7 and 18, with 13.20 brass cap, marked T25N Ś7 MC NIR RllE -1916 dig a pit, 36x36x12 ins., 8 ft. W. of post, and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level.
Soil, sandy and gravelly. Timber, one tree.

Thence in fracl.sec.19.

over rolling land, along bank 6 ft. high.

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Meanders of the left bank of Little Colorado River.
                               down stream.
  N.8 3/4°E.
N.0<del>2</del>°W.
N.17°W.
                    9.20 chs.
                   15.00
                   26.20
  N.26 3/4°W. 10.50 m.30½°W.
                                to meander cor. of fracl. secs.
                                18 and 19, hereinbefore described.
Land, rolling.
Soil, sandy and rocky; 4th rate.
  No timber.
Thence in fraclisec, 18. over rolling land, along sandy bank 6 ft. high.
  N.30°W.
N.34늄°W.
N.24늄°W.
                    8.00 chs.
                   13.30
                   13.70
11.50
2.20
  N.14 3 W.
                            Ħ
  North
                            11
  N.4°W.
N.0 3/4°W.
N.1\frac{1}{2}°W.
                            11
                   6.60
                            TT
                   15.40
                   1.90 "
  North
                                 to meander cor. of fracl. secs.
                                  7 and 18, hereinbefore described.
Tand, rolling.
Soil, sandy and rocky: 4th rate.
  Timber, one tree at meander cor. No others.
Thence in fracl, sec. 7. over level land, along bank 6 ft. high.
  N.5₺°W.
                  19.40 chs.
                                  A few scattered cottonwood trees
                                   along this course.
  N.20 3/4°W. 17.60
N.33 3/4°W. 9.10
                                  To meander cor. of fracl. secs. 7 and 12, on W. bdy. of Tp., hereinbefore described.
Land, level.
Soil, sandy and rocky; 4th rate.
  Timber, cottonwood.
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Meanders, T. 25 N. R. 11 R.

.anomist.com

con. Time

	Во	undaries of	that bart	of T. 25	N R	11 E.	
	situated outside the Navajo Indian Reservation. Latitudes, Departures, and Closing Errors.						
Tino de	signated	True Course	Dist.	Latit	udes	Depart	ures
Tine de	Bignateu	11,000 0000	1	. N.	S.	E.	W.
			chs.	chs.	chs.	chs.	chs.
	oundary Par. N.)	West	116.29			,	116.29
West Bo	undary	North N.O°15'E. North	40.02 40.06 40.10	40.02 20. 06 40.10		.18	
		N.0°15'E.	40.06	40.06		.18	
		N.0°15'E.	40.08	40.08		.18	
		N.0°15'E. N.0°08'E. North	40.02 40.00 3.20	40.02 40.00 3.20		.18	
	s-Left Little ver	Various	Various		3 63.27	119.81	3. 56
Converg						.04	
		Totals,		363.54	363.27	120.62	119.85
				363.28		119.85	
		Error in la	titude,	0.27		1	
		Error in de	marture.			0.77	:

General Description.

The portion of T. 25 N., R. 11 E. lying W. of the Little Colorado River consists of broken rolling mountainous land, with very rocky and sandy soil, and little or no vegetation. The land is practically worthless.

The portion east of the river is within the Navajo Indian Reservation, and is unsurveyed.

T. 25 N., R. II E.

Date Diagram.

2-19-16

2-19-16

18

2-19-16

NAVAUD

Lines run by Surveyor Theo. O. Johnston on dates above shown.

Lines run by Transitman Fhilip L. Inch on dates above shown.

, CON 8260

FIELD ASSISTANTS. to

Philip L. Inch.	U. S. Transitman.
NAMES.	CAPACITY.
Ernest C. Johnston,	lst chainman,
H.E.Longmaia .	2nd chainman,
Neil O'Connell,	·
- Chas. E. Rubi,	
Gregario C.Gonzales,	Moundman.
	•
	
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TRANSITMAN. CERTIFICATE OF UNITED STATES SURVEYOR.

I,Philip_L. Inch,, U. S. Surveyor, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General, for Group 66, Arizona, 10.65
bearing date of the4th day of _January,, 1916 , 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, surveyed all those parts or portions ofthe_West_boundary
and surveyed all these parts or portions of the Subdivision lines of
TOWNSHIP 25 NORTH, RANGE 11 EAST,
of the Gila and Salt Rive
Base and Meridian, in the State of Arizona, ,, which are represented in
and by diagram on page 12 hereof the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of
retracement and said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U.S. Surveyor General, for Group 66, Arizona,
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey retracement and survey.
Philip L. Luch
U.S. Transitman
ADDDOVAL
APPROVAL.
Office of the United States Surveyor General,
, 191
The foregoing field notes of the survey of
executed by
under his special instructions dated, 191 , having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.
S. Surveyor General.
I certify that the foregoing transcript of the field notes of the above-described surveys in
, has been correctly copied from the original notes on file in this office.

FIELD ASSISTANTS. to

Theodore O. Jo	ohnston, U. S. Surveyor.
NAMES.	CAPACITY.
Grant S. Johnston.	lst chainman,
The odore VanderMeer.	2nd chainman,
Aeron J. Oppenheim,	Flagman,
Ohester M. Johnson,	Moundman,
JH. Wood,	Axman,
· · · · · · · · · · · · · · · · · · ·	
·	
·	
·	* ***
·	
·	

CERTIFICATE OF UNITED STATES SURVEYOR.

	16
و ا	CERTIFICATE OF UNITED STATES SURVEYOR.
3	T Theodore O Johnston II C Community of the contract of the co
_	I, Theodore O. Johnston , U. S. Surveyor, hereby certify upon honor that, in pursuance
	of special instructions received from the U.S. Surveyor General, for Group 66, Arizona,
	pearing date of the4thday ofJanuary, 1916, I have well, faithfully, and truly
	n my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc
	ions, and the laws of the United States, surveyed all those parts or portions of the
	5th Standard ParallelMin Range II East and the meander lines and the
	Subdivisien lines within
	TOWNSHIP 25 NORTH, RANGE 11 EAST,
	of the Gila and Salt
F	River Base & Meridian, in the State of Arizona, , which are represented in
t]	and by diagram on page 12 hereof? he foregoing field notes, as having been executed by me, and under my direction; and that all the corners of
S	aid survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
ti	ions, and the special written instructions of the U.S. Surveyor General, for Group 66, Arizona,
a	and in the specific manner described in the field notes, and that the foregoing are the original field notes o
sī	ouch survey.
	Theodor O Johnston U. S. Surveyor
	APPROVAL.
	OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
	Phoenix, Arizona, FEB.6 , 1919
	The foregoing field notes of the retracement of Pertien of West boundary of
	T. 25 N., R. II E.
	and survey of 6th 3td. Par. North thru part of Range II East,
	and meanders of left bank of Little Colorado River and
	portion of subdivision lines within
	TOWNSHIP 25 NORTH, RANGE 11 EAST,
	of the Gila and Salt River Base and Meridian, in the State of Arizona
e:	xecuted by Theo. O. Johnston, V.S. Surveyor, and Philip L. Inch, V.S.Tr
	inder special instructions dated Jame 4, 1916, for Gp. 66, Arizona , having been
	ritically examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.
	Atrous Atrot
	U. S. Surveyor General
	I certify that the foregoing transcript of the field notes of the above described surveys in