4—679. \ BOOK 2195

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(exepted, Letter 8. 1/20/10

FIELD NOTES

OF THE SURVEY OF THE	2195
Besurvey of the north, East o West b	oun dries
of Township 21 north, Range 18 West. non	th
boun dancy of Township 2, north, Range	
The 5-th 5t and and Barallel north	through
of gange 19 West, and the retracement of	
Guide Menidian West, Horough Journ	ships,
19 and 20 north.	
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Of the Gila + 5 alt Biver Base & Meridian,	
of the Territory of Cving on a	
AS SURVEYED BY	
Fed W. Podolf , United States Deput	y Surveyor,
Under his Contract No. 15-5-, dated March 18	
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Survey commenced farmany 27 Survey completed February 4	, 19 00
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BOOK 2195

NAMES AND DUTIES OF ASSISTANTS.

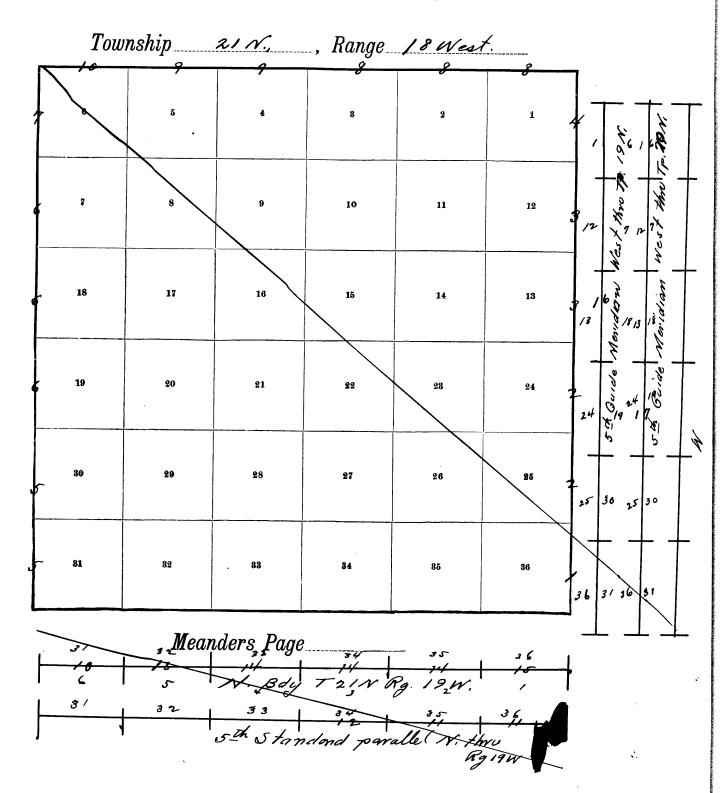
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BOOK 2195

INDEX DIAGRAM.





PRELIMINARY OATHS OF ASSISTANTS.

WE, a.P. Kemo P.E. Sames	and I H. Smithers.	Brot Lyon
do solemnly swear that we will well and faithfully exe		//
chain upon even and uneven ground, and plumb the tall		
we will report the true distances to all notable objects		
measuring, to the best of our skill and ability, and in ac		
	N, R/8W & N. ady T211 R E. Sames	
meridian West through 19 and to N. 3	AD Southers	$,\ Chainman.$
	Jet hy or	, Chainman.
Subscribed and sworn to before me this)		
day of Accember 1909		,
day of decimination, 1907	melever	ich
策定定案例 例 SEAL 例 も		Public
The second of th	in count	nwac
WE, PalphR Ellis	and	
do solemnly swear that we will well and truly perf		
of corners, according to the instructions given us, to remark of the 71. 8.8 w days. of the 21 17. Co. Sandle and the retracument of the significant of the significa	the best of our skill and ability,	in the survey of
Parallel and the retisement of the 5	Es Linde Mendian W. Chu	The 19820.N.
		Moundman.
4	agrici en	, mounaman.
		, Moundman.
Subscribed and sworn to before me this)		
	Mal	. /
day of <u>Alleenses</u> , 1909)	Myever	ich.
SEAL (#	Vivitari	Publica-
Wind de	Towny	77001000
	and IM Carker	
do solemnly swear that we will well and truly perform		
and other duties, according to instructions, given us, the Newscay of the N. E. W. Says 7.21 No.	to the best of our skill and ability	y, in the survey of OW. 54 Standard
Paralle N. the Range 19 W & 54 God		
	Rustans	Axman.
	anstary	Lev Axman.
		,
Subscribed and sworn to before me this		
day of December, 1909	Mylever	
My commission sugaine Model 23, 191 4 FEREN	and fever	r Oli
W SEAL W	Fertary	Tuble
I, George Newell	, do solemnly swear that I w	vill well and truly
perform the duties of flagman according to instruction		
perform the duties of flagman according to instruction nesures of the N. E. W. Edys of survey of 5th Guide Mandran West thru	TR 21N. A 18W, N. 8dy T. 2.	N, PTON the
71. the Re 19W.		
-	-Gorge Hew	CC, Flagman.
Subscribed and sworn to before me this		
day of Secenter, 1909.	1 1	· // ·
	/ Myleves	sch,
My commission in March 23, 1814	Matin.	Publis.
(なるあるな)	u cy	v - v

Resurvey of the E. Bdy. of Tp. 21 N., Rg. 18 West.

chains,

Survey commenced January 27,1910, and excuted with a Young and sons Light mountain transit, No. 7532, with solar The horizontal limb is provided with two double veriners placed opposite to each other, reading to single minutes of arc, which is also the least count, the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct and approved by the Surveyor General for Arizona.

I examine the adjustments of the transit and find them correct; then to test the solar appratus by comparing its indications, resulting from observations made during a.m., and p.m. hours, with a meridian established by observations on polaris, I proceed as follows;

At the cor. of Standard cor. of Tps. 21 N., Rgs. 17 and 18 West, which is a stone, marked and witnessed as described by the Surveyor General, latitude 35°09'36"N., longitude 114°06'32"W.; 1 set off 18°26'S. on the decl. arc; 35°09'N. on the lat.arc and at 4h.00m., p.m., l.m. t., determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5chs. N. of the cor.

At 10h57m.,p.m.,l.m.t.,I observe polaris at western elongation in accordance with the instructions in the Manual, and mark a point in the line thus determined on a peg driven in the ground 5chs.N. of my station. January 27,1910.

January 28; At 7h.30m., a.m., l.m.t., I lay off the azimuth of polaris, 1°26' to the East, and mark the meridian thus determined by cutting a small groove on the stone set January 27, on which the meridian coincides with the meridian established by the solar.

At 8h.00m., a.m., 1.m.t., I set off 35'092'N. on the lat.arc; 18°15½'S. on the decl.arcand determine a meridian with the solar marking a point thereof by a small notch on stone already set 5chs.N. of my station; this mark cioncides with the meridian established by polaris observations.

The solar appratus, by p.m., and a.m. observations de defines positions for meridian which coincide with the meridian established by polaris observations, therefore I conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian, ash. 00m. a.m., l.m.t, is # 14°50'w. the angle thus determined gives the mag, decl. as 14'50'E.

Old 1 sec.cor., bears N 0°10'W.

Therefore I run

N. 0°10'W. bet.secs.31 and 36.

Descend over loose rocks thru dense underbrush.

Road, bears Nw. and SE. 13.27

Center of Utah and Arizona Ry. track, bears Nw. and SE. Telephone line, bears Nw. and SE. 13.64

14.44

Wash, 60 lks. wide, course W. Asc. over loose rocks and 30.28.

boulders, along west slope.
Old \(\frac{1}{4} \) sec.cor., which is nearly destroyed so I set a malpais stone, 32x12x12ins., 24ins. in the ground, for $\frac{1}{4}$ sec cor., marked 1 on W. face. and raise a mound of stone, 2ft.base, 1 ft.high, W. of cor. Pits impraticable.

Old sec.cor.bears N 0°11'W.

Thence I run

N 0°11'W. bet.secs.31 and 36.

Wash,60 lks.wide,course W. Asc.over loose rocks and boulders.

59.10

39.95

2

	Resurvey of E. Bdy.of Tp.21 N. Rg.18 West.
chains. 80.01	The old cor. of secs. 25,30,31 and 36, which is nearly obliterated, so I set a malpais stone,36X12X12ins., 27ins.in the ground, for cor. of secs.,25,30,31 and 36, marked with 5 notches on N. and 1 notch on S. edge; and raise a mound of stone,2ft.base,1½ ft.high, w. of cor. Pits impraticable. Land, mountainous. Soil, rocky; 3rd and 4th rate. No timber. Underbrush, greasewood and cacti. Mountainous land covered with loose rocks and boulder
40.08	and dense underbrush, and exceptionally difficult to su survey, 80.01 chs. Old \(\frac{1}{4} \) sec. cor. bears N 0'02'E. Therefore I run N 0'02'E. bet. secs. 25 and 30. Ascending o er mountainous land covered with loose rocks and boulders thru exceptionally dense underbrush. Old \(\frac{1}{4} \) sec. cor., which is nearly obliterated, so I
	set a malpais stone, 28 x8 x8 ins., 21 ins. in the ground, for ½ sec.cor., marked ½ on w.face; and raise a mound of stone, 2ft. base, 1½ ft. high, w. of cor. Pats impraticable. Old sec.cor. bears N 0°07'E. Therefore I run N 0°07'E. bet.secs.25 and 30.
80.18	The old cor. of secs.19,24,25 and 30, which is nearly obliterated, so I set a malpais stone,32x12x10ins.,24ins. in the ground, for cor. of secs.19,24,25, and 30, marked with 2 notches on S. and 4 notches on N. edge; and raise a mound of stone,2ft.base,1 ft.high, w. of cor. Pits impraticable. Land, mountainous. Soil, rocky; 3rd and 4th rate. No timber. Mountainous land covered with loose rocks and boulders and exceptionally dense underbrush, exceptionally difficult to survey,80.18 chs. At this cor. I set off 18°15'S' on the decl.arc and observe the sun on the meridian at noon; the resulting lat.is 35°11½'N.
	Old cor. of Tps.21 and 22N., Rs.17 and 18 W., bears N 0°04'E. Therefore I run N 0°04'E. bet. secs. 19 and 24. Over mountainous land covered with loose rocks and boulders thru exceptionally dense underbrush.
12.60 35.55	Wash, 50 lks. wide, course SW. Over loose rocks and buolder Wash, 25 lks. wide, course SW. Asc. steep slope over loose rocks and boulders.
39. 50 40. 00	Along steep W. slope over loose rocks and boulders. Diligent search fails to find old \(\frac{1}{4}\) sec.cor. I set a malpais stone, 24X10X8ins., 18ins. in the ground, for \(\frac{1}{4}\) sec. cor., maeked \(\frac{1}{4}\) on W.face; and raise a mound of stone, 2ft. base, 1\(\frac{1}{2}\) ft.high, W. off cor. Pits impraticable.
46.00 52.15	Descend steep slope over loose rocks and boulders. Wash, 30 lks. wide, course GW. Asc. steep slope over loose rocks and boulders.
60.56 70.80	Top of malpais hill, Desc. steep slope over loose rocks and boulders. Wash, 50 lks. wide, covrse SW. Asc. steep slope over loose
76.50	rocks and boulders. Top of ridge, bears NF. and SW. Desc. steep slope over
80.00	loose rocks and boulders. Diligent search fails to find any trace of old sec. cor. I set a malpais stone, 20x14x12ins., 15ins.in the ground, for cor. of secs., 13, 18, 19 and 24, marked with 3 notches on S. and N. edges; and raise a mound of stone,

Resurvey of E.Bdy.of Tp.21 M., Rg.18 West.

.4

GUSTUS 2ft.base, 1 ft.high, w. of cor. Pits impraticable. Land, rough and mountainous. Soil, rocky; 4th rate. No timber. Underbrush, greasewood and cacti. Mountainous land co ered with loose rocks and boulder and exceptionally dense underbrush, exceptionally difficult to survey,80.00 chs. January 28,1910. January 29; At 8h.00m., a.m., l.m.t., I set off 17°5921 S. on the decl.arc; 35°12'N. on the lat.arc and determine a meridian with the solar at the cor. of secs. 13,18,19 and 24. Thence I run N 0'04'E. bet.secs.13 and 18. Descending steep slope over loose rocks thru dense underbrush. 13.90 Wash, 40 lks. wide, course SW. Over mountainous land covered with loose rocks and boulders t wash, 40 lks. wide, course Sw. Over mountainous land cove-31.35 red with loose rocks and boulders. 36.80 Old race, bears NE. and SW. 39.35 Wash, 10 lks. wide, course SW. Over mountainous land covered with loose rocks and boulders. Make diligent search but find no trace of old $\frac{1}{4}$ sec. 40.00 cor. so I set a malpais stone, 24x10x8ins., 18ins.in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on w. face; and raise a mound of stone, 2ft. base, 1 ft. high, w. of cor. Pits imp raticable. Asc, steep ssw. slope of malpais hill over loose rocks. Desc. steep Nw. slope over loose rocks and boulders. 41.00 60.00 Wash, 50 lks. wide, course SW. Over mountainous land covere 72.00 with loose rocks and boulders. 80.00 Diligent search fails to reveal any sign of old cor. of secs. 7,12,13 and 18. I set a malpais stone, 20x10x6ins., 15ins.in the ground, for cor. of secs. 7,12,13, and 18, marked with 4 notches on S. and 2 notches on N. edge; and raise a mound of stone, 2ft. base, 1 ft. high, w. of cor. Pits impraticable. Land, mountainous. Soil, rocky; 4th rate. No timber. Underbrush, greasewood, sage and cacti. Mountainous land covered with loose rocks and boulders and dense underbrush, exceptionally difficult to survey,80.00 chs. Thence I run N 0°04'E. bet.secs.7 and 12. Over rolling land covered with loose rocks thru dense underbrush. 7.15 Road, bears E. and W. Kingman to Union Pass. 20.00 Wash, 20 lks. wide, course W. Over loose rocks and boulders. Wash, 20 lks. wide, course W. Over loose rocks and boulders
No trace of old \(\frac{1}{4}\) sec. cor. I set a malpais stone,
15X8X6ins., 10ins.in the ground, for \(\frac{1}{4}\) sec. cor., marked
\(\frac{1}{4}\) on W.face; & dig pits, 18X18X12ins., N. and S. of stone, 27.90 40.00 3ft.dist.; and raise a mound of stones and earth, 2ft. high, 32 ft. base, w. of cor. No trace of old Cor. Wash, 20 lks. wide, course Sw. Over loose rocks and boulder 40.80 Wash, 40 lks. wide, course Sw. Over loose rocks and boulders wash, 40 lks. wide, course Sw. Over loose rocks. and boulders 47.60 50.50 62.75 Road, Nw. and SE. Kingman to chloride. 70.65 Wash, 20 lks. wide, course W. Over loose rocks. and boulders. 78.00 Wash, 10 lks. wide, course W. over loose rocks and boulders. Diligent search fails to reveal any trace of old sec.cor. Set a malpais stone, 20x8x8ins., 15ins.in the 80.00 ground, for cor. of secs.1,6,7 and 12, marked with 5 notch es on S. and 1 notch on N. edge; and raise a mound of stone, 2ft base, 1 ft high. w. od cor. Pits impraticable

Resurvey of E.Bdv. of Tp. 21 N. . Rg. 18 W.

chains.

Land, rolling and mountainous.

Soil, rocky; 3rd rate.

No timber.

Underbrush, grease rood sage and cacti.

Mountainous and rolling land covered with loose rocks and boulders and dense underbrush, except onally difficult to survey,80.00 chs.

At this cor. I set off 17°59'S. on the decl.arc and observe the sun on the meridian at noon; the resulting lat.is 35'14'N.

Themce I run

N 0°04'E. on true line bet.secs.1 and 6.

Over mountainous land covered with loose rocks and boulders thru dense underbrush.

3.80 Telephone line, bears NW. and SE.

12.00 Wash, 10 lks. wide, course SW. Over loose rocks and boulder

14.00 Telephone line, bears NW. and SE.

20.60 Wash, 35 lks. wide, course W. Over loose rocks. and boulders.

35.85 Wash, 20 lks. wide, course W. Asc. steep slope over loose

rocks and boulders.

Diligent search fail to find any trace of old $\frac{1}{4}$ sec. coor. 40.00 Set a granite stone, 24X12X8ins., 18ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone, 2ft. base, la ft. high, w. of cor. Pits im raticabl. 42.60

Top of granite ridge, bears E. and W. Desc. steep slope ove loose rocks and boulders.

Wash, 50 lks. wide, course SW. Asc. over loose rocks and 49.45 boulders.

79.00 Top of granite ridge, extends. Enabesc over loose rocks and boulders.

80.22

Old cor. of Tps. 21 and 22N., Rgs. 17 and 18, W. which is a granite stone,12x6x6ins.,in scattering mound of stone, marks nearly obliterated. I set a granite stone, 28 X10 X8 ins., 21 ins. in the ground, for cor. of Tps. 21 and 22 N., Rs. 17 and 18 W., marked 22 N on NE., 17 W. on SE., 21 N. on Sw., and 18 w.on Nw.face; with 6 notches on N.E,S, and W.edges; and raise a mound os stone, 4ft. base, 3ft.high, S. of cor. Pits impraticable.

Land, mojntainous. Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, catclaw and cacti.

Mountainous land covered with loose rocks and boulders and dense underbrush, exceptionally difficult to survey,80.22 chs.

January 29,1910.

Resurvey of W.Bdy.of Tp.21 N.Rg.18 West. chains. January 30,1910; At 3h.00m., a.m, l.m.t., I set off $17^{\circ}43\frac{1}{2}$'s. on the decl.arc; $35^{\circ}09\frac{1}{2}$ 'N. on the datlarc: and determine a meridian at the standard cor. of Tp. 21 N., Rs. 18 and 19 West. Thence I run North bet. Rgs. 18 and 19 W., at every 40.00 chs 1 make a diligent earch for old corners but fail to find any trace of old cors. Thehefore I resurvey the range line as follows; The cor. of Tps. 21 N., Rgs. 18 and 19 W. is a stone marked and witnessed as described by the Surveyor General. I redig pits and rebuild mound of earth. Thence I run North bet.secs.31 and 36. Over level land thru exceptionally dense cacti underbrush wery slow to chain thru. Wash, 50 alks. wide, course SE. 12.70 Wash, 10 lks. wide, course SE. 34.00 Set a malpais stone, 18x8x10ins., 12ins.in the ground, for \(\frac{1}{2}\) sec.cor., marked \(\frac{1}{2}\) on W.face; dig pits, 18x18x12ins. N. and S. of stone, 3ft. dist.; and raise a mound of earth, 3\(\frac{1}{2}\) ft. high, W. of cor. No trace of old Cor. 40.00 Set a malpais stone, 18x8x8ibs., 12ins.in the ground, for cor. of secs. 25, 30, 31, and 36, marked with 1 notch on 80.00 S.and 5 notches on N.edge; dig pits, 18x18x12ins., in each sec.5 ft.dist.; and raise a mound of earth, 4ft.base, 2ft.high, w. of cor. No. +race of old Cor Land, level. soil, gravelly; 3rd rate. No timber. Underbrush, exceptionally dense cacti. Land covered with exceptionally dense cacti underbrush very difficult and slow to chain thru, exceptionally difficult to survey, 80.00 chs. Thence I run North bet.secs.25 and 30. Over level land thru dense underbrush. set a malpais stone, 20x8x8ins., 15ins.in the ground, for 23.40 witness cor. to $\frac{1}{4}$ sec. cor., marked WC $\frac{1}{4}$ on W. face; and raise a mound of stone, 2ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impraticable. Enter wash, 70 lks. wide, course SE. 24.20 wash connects with Sacramento wash, along Sacramento wash, 34.00 course SE.
Point for \(\frac{1}{4} \) sec. cor. falls in \(\pi \) ash. \(\sigma \) trace of old Co. 40.00 Leave sacramento wash, over land subject to over flow. 52.00 Wash, 150 lks. wide, course SE. Over level land. 58.00 Set a Tufa stone, 20x10x10ins., 15ins.in the ground, for 80.00 cor. of secs., 19,24,25 and 30, marked with 2 notches on s.and 4 notches on N.edge; dig pits, 18x18x12ins., in each sec. 5 ft.dast.; and raise a mound of earth, 4ft.base, 2ft.high. W. of cor. No trace of old cor 2ft.high, W. of cor. Land, nearly level. soil, gravelly; 3rd rate. No timber. Underbrush, catclaw greasewood and cacti. Dand covered with dense underbrush, 80.00 chs. At this cor. I set off 17°421'S. on the decl.arc and observe the sun on the meridian at noon; the resulting lat.is 35°114'N.

Thence I run

North bet.secs.24 and 19.

Over rolling land thru exceptionally dense cacti underbrush, very slow to chain thru. wash.100 lks.wide, course SW.

13.20

BOOK 2195 Resurvey of W.Bdy.of. Tp.21.N., Rg.18 West. chains. Set a granite stone, $18\times10\times10$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W.face; dig pits, $18\times18\times12$ ins. N. and S. of stone, 3ft. dist.; and raise a mound of earth 40.00 $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, W. of cor. Set a malpais stone, 20X12X6ins., 15ins.in the ground 80.00 for cor. of secs.13,18,19 and 24, marked with 3 notches on S. and N. edges; dig pits,18x18x12ins.,in each sec. 5½ ft.dist.; and raise a mound of earth, fft.base, 2ft. Notrace of old con high, W. of cor. Land, rolling. Soil, rocky; 3rd rate. No timber. Underbrush, exceptionally dense acctionuch Rolling land covered with exceptionally dense cacti underbrush, very slow and difficult to chain thru, exceptionally difficult to survey, 80.00 chs. Thence I run North bet.secs.13 and 18. Over rolling land thru exceptionally dense cacti underbrush, very difficult to chain thru. Wash, 20 lks. wide, course SE... 4.90 .Wash, 20 lks.wide, coirse SE. 11.20 Set a malpais stone, 18x8x6ins., 12ins.in the ground, for \(\frac{1}{2} \) sec.cor., marked \(\frac{1}{2} \) on W.face; dig pits, 18x18x12ins. N. and S. of stone, 3ft. dist.; and raise a mound of earth, 3\(\frac{1}{2} \) ft. high, W. of cor. No trace of old Car. 40.00 Set a malpais stone, 20x10x8ins., 15ins.in the ground, 80.00 for cor. of secs.,7,12,13 and 18, marked with 4 notches on S.and 2 notches on N.edges; dig pits,18X18X12ins.,in each sec.51 ft.dist.; and raise a mound of earth,4ft. base,2ft.high, W. of cor.

No trace of old Cor. Land, rolling. Soil, gravelly; 3rd rate. No timber. Underbrush, exceptionally dense cacti. Rolling land covered with exceptionally dense cacti underbrush, very slow and difficult to chain thru, exceptionally diffinult to survey, 80.00 chs. January 30,1910. January 31; At 8h.00m., a.m., l.m.t., I set off $17.27\frac{1}{2}$'s. on the declare; 35°13'N. on the lat. are and determine a merifdian with the solar at the cor. of secs. 7, 12,13 and 18. Thence I run North bet.secs.7 and 12. Over rolling land covered with exceptionally dense cacti underbrush very slow to chain thru. Set a malpais stone, 18x6x6ins., 12ins.in the ground, for \(\frac{1}{4} \) sec.cor., marked \(\frac{1}{4} \) on \(\text{w.face}; \) \(\text{dig pitsel8x18x12ins.} \) 40.00 N. and S. of stone, 3ft. dist.; and raise a mound of earth, 3 ft. base, 1 ft. high, w. of cor. No frace of old Cm. Wash, 20 lks. wide, course SE.

Road, bears E. and W. Kingman to Union Pass, 43.10 47.85 Set a malpais stone, 18X6X6ins., 12ins. in the ground, for cor. of secs., 1,6,7 and 12, marked with 5 notches on S. and 1 notch on N. edge; dig pits, 18X18X12ins., in each sec. 5 ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high, W. of cor. No trace of old cm. 80.00 Land, rolling. Soil, gravelly; 3rd rate. No timber.

Underbrush, exceptionally dense cacti...

tionally difficult to survey, 80.00 chs.

Ralling land covered with exceptionally dense cacti underbrush, very difficult and slow to chain thru, excepResurvey, of W.Bdy. of Tp. 21 N., Rg. 18 West.

40.00

North bet.secs.l and 6.

Over rolling land covered with exceptionally dense cacti underbrush, very slow to chain thru.

Set a malpais stone.18X8X8ins.,12ins.in the ground, for \(\frac{1}{2} \) sec.cor., marked \(\frac{1}{2} \) on \(\frac{1}{2} \) sec.cor., marked \(\frac{1}{2} \) on \(\frac{1}{2} \) sec.cor. and \(\frac{1}{2} \)

Set a malpais stone, 20x10x10ins., 15ins.in the ground, for cor. of Tps.21 and 22N., Rgs.18 and 19 W., marked 22 N on NE., 18 W on SE., 21 N on SW, and 19 W on NW. face; with 6 notches on N.E.S. and W. edges; dig pits, 24x24x12in on each line, N.E. and W., 4ft., and S. of stone, 8ft. dist.; and raise a mound of earth, 5ft. base, 2 ft. high, S. of cor.

Land, rolling.

Soil, gravelly; 3rd rate.

No timber.

Underbrush, exceptionally dense cacti.

Rolling land covered with exceptionally dense cactiunderbrush, very slow and difficult to chain thru, exceptionally difficult to survey, 80.00 chs.

tionally difficult to survey, 80.00 chs.

At this cor. I set off 17°26½'s. on the decl.arc and observe the sun on the meridian at noon; the resulting lat.is 35°15'N.

January 31,1910.

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Resurvey of the N.Rdy.of Tp.21 N., Rg. 18 West.

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chauns.
              February 1,1910; At 8h.00m., a.m., I set off 17°11'S.
          on the decl.arc; 35°15'N. on the lat.arc and determine a meridian with the solar at the cor. of Tps.21 and 22
          N., Rgs. 18 and 19 W.,
              Thence I run
              East on a random line along M. Bdy. of Tp 21 M., Rg.
          18 W., setting temp. 1 sec. cor and sec. cors. at intervals
          of 40.00 chs. and making diligent search for old cors. jat 479.58 chs.intersect the N.and S. line 27 lks.S. of
          the cor. of Tps. 21 and 22N., Rgs. 17 and 18 W. Find no frace of old Cors.
              Thence I run
              S 89°58'W. on true bet.secs.1 and 36.
              Over rolling land covered with loose rocks thru dense
          underbrush.
 1.40
          Wash,15 lks.wide,course SW.
7.80
          Wash, 35 lks. wide, course SW.
16.15
          Wash, 15 lks. wide, course SW.
30.00
          Wash, 20 lks. wide, course SW.
32.30
          Road, bears NW. and SE. Kingman to Cerbat.
          Wash, 20 lks. wide, course SW.
35.55
37.90
          Telephone line, bears N. and S.
38.40
          Telephone line, bears N. and S.
40.00
              Set a granite stone, 18 X10 X6 ins., 12 ins. in the ground,
          for \(\frac{1}{4}\) sec.cor., marked \(\frac{1}{4}\) on N.face; and raise a mound of stone, 2ft. base, 1\(\frac{1}{2}\) ft. high, N. of cor. Pits impraticable.
51.70
          Wash, 15 lks. wide, course Sw.
63.00
          wash, 15 lks. wide, course sw.
73.65
          Wash, 40 lks. wide, course Sw.
80.00
              Set a malpais stone, 18x6x6ins., 12ins. in the ground,
          for cor. of secs.,1,2,35 and 36, marked with 1 notch on
          F. and 5 notches on W. edge; and raise a mound of stone, 2ft. base, 1 ft. high, W. of cor. Pits impraticable.
              Land, rolling.
              Soil, rocky; 3rd rate.
             Underbrush, greasewood, sage and cacti. No timber.
              Rolling land covered with loose rocks and dense -
          underbrush, 80.00 chs.
              Thence I run
              S 89°58 W. bet.secs.2 and 35.
              Over rolling land thru dense underbrush.
 2.90
          Wash, 30 lks. wide, course SW.
 6.40
          Road, bears N. and S. Kingman to Chloride.
33.00
          Wash, 25 1ks. wide, course SW.
40.00
          Set a malpais stone, 18X8X8ins., 12ins.in the ground,
          for \frac{1}{4} sec.com., marked \frac{1}{4} on N. face; dig pits, 18X18X12ins. E. and W. of stone, 3ft. dist.; and raise a mound of earth,
          3\frac{1}{2} ft.base, 1\frac{1}{2} ft.high, N. of cor. No trace of old \frac{1}{4} sec. con
42.60
          Wash, 20 1ks. wide, course SW.
          Wash, 75 lks. wide, course Sw.
47.10
59.30
          Wash, 15 1ks. wide, course Sw.
62.80
          wash, 15 lks. wide, course Sw.
74.75
          Wash, 50 lks. wide, course Sw.
80.00
             Set a malpais stone.18%8%8ins., 12ins.in the ground,
          for cor. of secs. 2, 3, 34 and 35, marked with 2 notches ob
          E. and 4 notches on w.edge; dig pits, 18X18X12 ins., in each sec., 5\frac{1}{2} ft. dist.; and raise a mound of earth, 4ft.
          base, 2ft, high W. of cor. No trace of old sec.cor.
             Land, rolling.
             Soil, g avelly; 3rd rate.
             No timber.
             Underbrush, grease wood, sage and cacti.
             Rolling land covered with dense underbrush, 80.00 chs.
              Thence I run
              S 89°58'W. bet.secs.3 and 34.
              Over rolling land thru dense underbrush.
 5.65
          Wash, 25 lks. wide, course SW.
          Wash.10 lks.wide, course SW.
```

16.00

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BOOK 2195

		Resurvey of N. Bdv. of Tp. 21 N Rg. 18 West.
	chains.	
	17.00	Telephone line, bears M. and S.
	17.76	center of Utah and Arizona Ry. track. bears M. and S.
	25.35	Wash, 10 lks. wide, course Sw.
	30,65	Wash, 10 lks. wide, course Sw.
	40.00	Set a malpais stone, 18X8X6ins., 12ins.in the ground,
		for \frac{1}{2} sec.cor., marked \frac{1}{2} on W. face; dig pits, 18 X18 X12 ins
		E. and W. of stone, 3ft. dist.; and raise a mound of earth,
	42.10	31 ft.base, 11 ft.high, N. of cor. No trace of old cor. Wash, 10 lks. wide, course SW.
	61.85	Wash, 20 lks. wide course Sw.
	63.70	Wash, 30 lks. wide, course Sw.
	75.80	Wash, 10 1ks. vide, course SW.
	80.00	Set a granite stone, 18X8X6ins., 12ins.in the ground,
		for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on
		E.and W. edges; dig pits, 18X18X12ins., in each sec., 5 ft
		dist.; and raise a mound of earth, 4ft. base, 2ft. high, W.
		of cor. No trace of old cor.
		Land, rolling.
		Soil, gravelly; 2nd rate.
		No timber.
		Underbrush, grease wood ard cacti.
		Rolling and covered with dense underbrush, 80.00 chs.
		At this cor. I set off 17°09½'S. on the decl. arc and observe the sun on the meridian at noon; the resulting
		lat. is 35°15'N.
		140.18 22 12.W.
		Thence I run
		S 89°58'W. bet.secs. 4 and 33.
		Over rolling land covered with exceptionally dense
		cacti underbrush, very slow to chain thru.
	14.65	Wash, 15 1ks. wide, course SW.
	25.40	wash, 30 lks. wide, course Sw.
	37.85	wash, 10 lks. wide, course S.
	40.00	Set a malpais stone, 18x8x6insl2ins.in the ground,
		for \(\frac{1}{4}\) sec.cor., marked \(\frac{1}{4}\) on N.face; dig pits, 18X18X12ins.
		E. and W. of stone, 3ft. dist.; and raise a mound of earth,
	1	31 ft.base, 12 ft.high, N. of cor. No trace of old cor.
	43.65	wash, 15 lks. wide, course Sw.
	45.30	Wash, 50 lks. wide, course S.
•	58.15 80.00	Wash, 35 lks. wide, course S. Set a malpais stone. 18 x8 x8 ins 12 ins. in the ground,
	00.00	for cor. of secs.4.5.32 and 33.marked with 4 notches on
		E.and 2 notches on W.edge; dig pits, 18 18 12 ins., in
		each sec. 5 ft. dist.; and raise a mound of earth, 4ft.
		base, 2ft. high, W, of cor. No trace of old sec.cor.
	1	Land, rolling.
		Soil, gravelly; 3rd rate.
		No timber.
		Underbrush, exceptionally dense cacti.
	,	Rolling land covered with exceptionally dense cacti
		underbrush, very difficult and s ow to chain thru, excep-
		tionally difficult to survey, 80.00 chs.
		W-S-11-Tigh-S-12-ti-ti-ti-ti-ti-ti-ti-ti-ti-ti-ti-ti-ti-
		Thence I run
		S 89°58'W. bet.secs.5 and 32.
		Over rolling land thru exceptionally dense cacti
		underbrush, very difficult to chain thru.
	9.00	Wash, 50 lks. wide, course SW.
	19.85	wash, 25 lks. wide, course Sw.
	28.50	Wash, 15 lks. wide, course SW.
	40.00	set a granite stone, 15x8x6ins., 10ins.in the ground,
		for \(\frac{1}{2}\) sec.cor., marked \(\frac{1}{2}\) on N. face; dig pits, 18X18X12ins.
		E. and W. of stone, 3ft. dist.; and raise a mound of earth,
	69.50	3½ ft.base, ½ ft.high, N. of cor. No trace of old ½ cor. wash, 50 lks.wide, course S.
	73.65	wash, 50 lks. wide, course S.
	30.00	set a malpais stone, 18x10x6ins., 12ins.in the ground,
	50.00	for cor. of secs. 5,6,31 and 32, marked with 5 notches on
		F. and 1 notch on W. edge; dig pits, 18X18X12ins., in each
	1	

 V.	Resurvey of N.Bdy.Tr.21 NRg.18 West.
chains.	sec. 52 ft. dist.; and raise a mound of earth, 4ft. base,
	2gt.high, w. of cor.
	Land, rolling.
	soil, gravelly; 3rd rate.
	No timber.
-	Underbrush, exceptionally dense cacti.
	Rolling land covered with exceptionally dense cacti
	underbrush, very difficult and slow to chain thru, excep-
	tionally difficult to survey, 80.00 chs.
	Thence I run
!	S 89°58'W. bet.secs.6 and 31.
	Over rolling land thru exceptionally dense cacti
	underbrush, very difficult to chain thru.
0.15	wash, 10 lks. wide, course SE.
7.00	wash, 20 lks. wide, course Sw.
40.00	set a malpais stone, 18x6x6ins., 12ins.in the ground,
	for 1 sec. cor., marked 1 on N. face; dig pits, 18X18X12ins.
	E.and W. of stone, 3ft. dist.; and raise a mound of earth,
	3 ft.base, 1 ft.high, N. of cor. No trace of old cor.
43.50	Wash, 100 lks. wide, course S.
52.90	Wash, 40 1ks. wide, course SW.
79.58	The cor. of Tps. 21 and 22 N., Rgs. 18 and 19 W. grevin hy desc.
	Land.rolling.
	Soil, grayelly; 3rd rate.
	No timber.
	Underbrush, exceptionally dense cacti.
	Rolling land covered with exceptionally dense cacti
	underbrush, very difficult and slow to chain thru, excep-
	tionally difficult to survey, 79.58 chs.
	February 1,1910.

T.Z/N. R18W.

Latitudes, departures, and closing errors.

			Lat	itudes	Departures	
Line designated	True bearing	Distance	\mathcal{N} .	න.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
E. Boy of T. 21N, Rg. 18.W.	NO° 10'W	39.95	39.95			0.12
	NO°11'W	40.06	40.06			0.13
	NO 02'E	40.08	40.08		0.02	
	NO'07'E	40.10	40.10		0.08	
	NO04'E	320.22	320,22		0.37	
V. Boy of Tp. 2/N., Rg. 18 N.	589°58'W	479.58		0.28		479.58
V. Boy of Tp ZI.N., Ag. 10 W.	South	480.00		480.00		
The Standard Parallel North -	East.	480.00			480.00	
onrergency						_ 0~5,
Totals			480.41	480.28	480.47	480.34
, , , , , , , , , , , , , , , , , , , ,			480.28	1	480.34	·
Error in lat		L	-0./3	ב מו ירטויד שני	0./3	

GENERAL DESCRIPTION

Tp.21 N.,R. 17 W. is extremely mountainous.and rough.

Tp 22 N.,R. 18 W. is Rolling and level land and civ covered with dense underbrush.

Tp 21 N., Rg. 18 West is rolling and level land, and covered with dense underbrush.

, i	Resurvey of 5th Standard Parallel N. thru Rg. 19 West.
chains	
	February 2,1910; At 8h.00m.,a.m.,1.m.t.,I set off
	16°54'S. on the decl.arc; $35^{\circ}09\frac{1}{2}$ 'N. on the lat.arc and determine a meridian with the solar at the cor. of Tps.
	21 N., Rgs. 18 and 19 W. Previously described
	From here the standard cor. of secs. 33 and 34, which
	is a stone, marked and witnessed as described by the
	Surveyor General, bears N 89°58'W. a distance of 240.12
	chs. Therefore I run
	N 89°58'W. along S. bdy.of sec.36.on true line.
	Over rolling land thru dense underbrush.
38.35	
	Difference bet measurements of 40.02 chs.by two sets of chainmen is 6 lks.; position of middle point
	By 1st set, 40.05 chs.
	By 2nd set, 39.99 chs. the mean of which is
40.02	
	standard $\frac{1}{4}$ sec.cor., marked SC $\frac{1}{4}$ on N.face; dig pits, 18X18X12ins., E.and W. of stone, 3ft.dist., and raise a
	mound of earth, 3½ ft.base, 1½ ft.high, N. of cor.
	Diligent search fails to find any traces of old cor.
40.75	
70.00	
70.00	Difference bet.measurements of 80.04 chs.by two sets
	of chainmen ic 8 lks.; position of middle point
	By 1st set,80.08 chs.
80.04	By 2nd set, 80.00 chs.; the mean of which is Set a malpais stone, 20x12x7ins., 15ins.in the ground, for
00.03	standard cor. of secs. 35 and 36, marked \$0 on N. face;
	with 5 grooves on W. and 1 groove on E. face; dig pits,
	24x18x12ins., crosswise on each line, E. and W. of stone,
	3ft., and N. of stone,7ft dist.; and raise a mound of earth,4ft.base,2ft.high,N. of cor. No trace of old cor.
	Land, rolling.
	Soil, gravelly; 2nd rate.
	No timber.
	Underbrush, greasewood, sage and cacti. Rolling land covered with dense underbrush, 80.04 chs.
	MOTITIES TAIM COVOIGE WITH COMBO MINESTERMING OF OF CHE
	Thence I run
	N 89°58'W. along S. bdy.of sec.35. Over rolling land thru dense underbrush.
29.30	
39.65	Wash, 25 lks. wide, course SF.
	Difference bet.measurements of 40.02 chs.by two sets
	of chainmen is 4 lks.; position of middle point By 1st set.40.04 chs.
i	By 2nd set, 40.00 chs., the mean of which is
40.02	Set a malpais stone, 18X1.0X8ins., 12ins.in the ground,
	for standard \(\frac{1}{2}\) sec.cor., marked SC \(\frac{1}{2}\) on N.face; dig pits,
	18X18X12ins., F. and W. of store, 3ft.dist.; and raise a mound of earth, 3 th. base, 1 ft. high, N. of cor.
	No trace of old 4 cor.
57.90	Wash, 20 lks. wide, course SE.
60.20	
63.25	
	Difference bet.measurements of 80.04 chs.by two sets
	of chainmen is 6 lks.; position of middle point
	By 1st set, 80.07 chs.
80.04	By 2nd set,80.01 chs., the mean of which is set a malpais stone,18X9X6ins.,12ins.in the ground,
000,00	for standard cor. of secs. 34 and 35, marked SC on N. face;
	with 2 grooves on E. and 4 grooves on W. face; and raise
	a mound of stone, 2ft. base, 1 ft. high, N. of cor.
	Pits impraticable. No trace of old cor. Land, rolling.
	Soil, gravelly; 3rd rate.
	No timber.
1	A CONTROL OF THE CONTROL OF THE PROPERTY OF TH

	Resurvey of 5th Standard Parallel N., thru Rg. 19 W.
chains.	It was a manage word and anoth
	Underbrush, greasewood and cacti. Rolling land covered with dense underbrush, 80.04 chs.
	At this cor. I set off 16'52 's. on the decl. arc and
	observe the sun on the meridian at nnon; the resulting
	lat. is 35°09½'N.
	1400.155 30 002 He
	Thence I run
	N 89°58'W. blong S. bdy.of sec.34.
	Slowly ascending thru dense underbrush.
7.20	wash,20 lks.wide, course NE.
18.50	Same wash course SE.
27.50	Wash, 20 lks. wide, course SE.
36.00	wash.20 lks. wide, course SE.
	nifference bet.measurements of 40.02 chs.by two sets
	of chainmen is 6 lks.; position of middle point
	By 1st set, 40.05 chs.
	By 2nd set, 39.99 chs., the mean of which is
40.02	Set a malpais stone, 15x8x6i s., loins in the ground, for
	standard 1 sec.cor., marked 90 1 on W.face; dig pits,
,	18x18x12ins., F. and W. of stone, 3ft. dist.; and raise a mound of earth, 3 dt. base, 1 ft. high, N. of cor.
	No trace of old ½ cor.
44.25	Wash, 20 lks. wide, course SE.
49.70	Wash, 20 lks. wide, course SE.
55.00	Wash, 20 lks. wide, course SE.
67.90	Wash, 20 1ks. wide, course SE.
76.60	Wash, 20 lks. wide, course SE.
79.60	Wash, 20 1ks. wide, course SE.
	Difference bet.measurements of 80.04 chs.by two sets.
	of cahinmen is 8 lks.; position of middle point
	By 1st set,80.08 chs.
	By 2nd set,80.00 chs., the mean of which is
80.04	The Standard cor. of secs.33 and 34, which is a mappais stone.10x6x6ins.loosely set in a scattering mound of
	stone, the markings are nearly obliterated, so I destroy
	this cor. and in the same place set a malpais stone,
	20x6x6ins.,15ins.in the ground, for standard cor. of secs.
	33 and 34, marked SC on N. face, with 3 grooves on E. and
	w. faces; and raise a mound of stone, 2ft. base, 1 ft.
	high, N. of cor. Pits im raticable.
	Land, rolling.
	Soil, gravelly; 3rd rat .
	No timber.
	Underbrush.greasewood and cacti.
	Rolling land covered with dense underbrush, 80.04 chs.
	February 2,1910.
1	1

Resurvey of M. Bdy. of Tp. 21 N. Rg. 19 West.

chains February 3,1910; At 8h.00m., a.m., l.m.t., I set off $16^{\circ}36\frac{1}{2}$ 'S. on the decl.arc; $35^{\circ}15$ 'N., on the lat.arc and determine a meridian with the solar at the cor. of Eps. 21 and 22N., Rgs. 18 and 19 West. previously described Thence I run West on random line bet. Tps. 21 and 22 N., setting temp. 1 sec. and sec. cors. at intervals on 40.00 chs. and making diligent search for old cors. At 479.90 chs. intersect the N. and S. line 41 lks. S. of the cor. of Tps.21 and 22 N., Rgs.19 and 20 W., which is a malpais stone,12X6X6ins., loosely set in a scattering mound of stone with marks nearly obliterated, so I set a sandstone 18%8%sins., lains.in the ground, for cor. of Tps. 21 and 22 N., Rgs. 19 and 20 W:, marked 22 N on NE., 19 W. on SE. 21 M.on Sw., and 20 w on Mw.face; with 6 notches on N.E s. and w. edges; and build a mound of stone, 3ft. base, 2ft. high, s. of cor. pits impraticable. I found no traces of old cors. on this bdy. Thence I run S 89°57'E. on true line bet. secs. 6 and 31. Ascending over rough and mountainous land coveredwith loose rocks thru dense underbrush. Top of rocky granite ridge, bears M. and S. Desc. steep 🔀 6.00 slope over loose rocks. Wash, 10 1ks. wide, coirse SE. Desc. over steep slope. 12.80 Wash. 20 1ks. wide, course SE. Asc. steep slope over loose 24.80 rocks. 28.00 Top of ridge, bears N.and S. Desc. steep slope over loose rocks. Wash, 20 1 s. wide, course SE. Asc. steep slope over loose 36.70 rocks. Set a granite stone.18X8X6ins.,12ins.in the ground, for \(\frac{1}{2} \) sec.cor.,marked \(\frac{1}{2} \) on N.face; and raise a mound of stone,2ft.base,1\(\frac{1}{2} \) ft.high,N. of cor. Pits impraticable. 39.90 No trace of old cor. Top of ridge, bears N. and S. Desc. over loose rocks. 42.00 79.90 Set a malpais stone, 20X10X8ins., 15ins.in the ground, for cor. of secs, 5,6,31 and 32, marked with 5 notches on E. and 1 notch on W. edge; and raise a mound of stone, 2ft.base, lt ft.high, W. of cor. Pits impraticable No trace of old cor. Land, mountainous and rough. Soil, rocky; 4th rate. No timber. Underbrush, greasewood and cacti. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 79.90 chs. Thence I run S 89°57'E. bet.secs. 5 and 32. Descend over mountainous land covered with loose rocks thru dense underbrush. 10.00 Asc, steep slope over loose rocks. Top of ridge, bears N. and S. Desc. over loose rocks.

Set a malpais stone, 18x8x6ins., 12ins. in the ground,
for \(\frac{1}{2} \) sec. cor., marked \(\frac{1}{2} \) on N. face; and raise a mound of 21.50 40.00 stone, 2ft. base, la ft. high, W. of cor. Pits impraticable No trace of old cor. 80.00 Set a malpais stone, 20x10x8ins., 15ins.in the ground, for cor. of secs.4,5,32 and 33, marked with 4 notches on W. and 2 notches on W. edge; and raise a mound of stone 2ft.base, 1 ft.high, W. of cor. Fits impraticable. No trace of old cor. Land, mountainous. Soil, rocky; 3rd rate. No timber. Underbrush, grease wood and cacti. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.00 chs. At this cor. I set off 16°35'S on the delc. arc and

observe the

Resurvey of N. Bdy.of Tp.21 N., Rg.19 West.

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charns
        sun on the meridian at noon; the resulting lat.is 35°15N |
            Thence I run
            S 89°57'E. bet.secs.4 and 33.
            Descending over mountainous land covered with loose
         rocks thru dense underbrush.
 1.70
         Wash, 10 lks. wide, course NE.
         Same, wash, course SE.
 3.00
 7.00
         Same wash, course NE.
 7.25
         Wash, 20 lks. wide, course SE.
15.80
         Same wash, course SE.
25.00
         Wash, 10 lks. wide, course NE.
40.00
            set a malpais stone, 24x10x8ins., 18ins.in the ground,
         for \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face; and raise a mound of
         stone, 2ft. base, 12 ft. high, N. of cor. Pits impraticable.
         No trace of old cor.
46.60
         Wash, 35 lks. wide, course SE.
         wash, 10 lks. wide, course SE.
48.15
         Old road, bears Nw. and SE.
63.74
            set a malpais stone, 18x10x6ins., 12ins. in the ground,
80.00
         for cor. of secs. 3,4,33 and 34, marked with 3 notches on
         E.and W. edges; and raise a mound of stone, 2ft. base, 12
         ft.high, w. of cor. Pits impraticable. We trace of old
         cor.
            Land, mountainous.
            Soil, rocky; 3rd rate.
            No timber.
            Underbrush, greasewood and cacti.
            Mountainous land covered with dense underbrush, 80.00
         chs.
                                               February 3,1910.
            February 4; At 8h.00m., a.m., l.m.t., I set off 16°181
         S. on the decl.arc; 35°15'N. on the lat.arc and deter-
         mine a meridian with the solar at the cor. of secs. 3,4,
         33 and 34.
            Thence I run
            S 89°57'E. bet.secs.3 and 34.
            Over rolling land covered with dense underbrush.
 5.80
         Wash, 15 lks. wide, course SE.
23.25
         Road, bears NW, and SE.
27.30
         Wash, 25 lks. wide, course SE.
            Set a malpais stone, 15X8X8ins., loins. in the ground,
40.00
         for \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face; dig pits, 18X18X12ins.
         E.and W. of stone, 3ft. dist.; and raise a mound of earth,
         32 ft.base, 12 ft.high, N. of cor. No trace of old cor.
         Wash, 35 lks. wide, course SE.
46.50
51.70
         Wash, 10 lks. wide, course SE.
62.15
         Wash,75 lks.wide,course SE.
         wash, 100 lks. wide, course S.
69.00
71.10
         Wash, li lks. wide, course S.
             set a malpaid stone, 18x10x6ins., 12ins. in the ground,
80.00
         for cor. of secs.,2,3,34 amd 35, marked with 2 notches on E. and 4 notches on w.edge; dig pi s,18x18x12ins.,in each sec.5 ft.dist.; and raise a mound of earth,4ft.
         base, 2ft. high, w. of cor. No trace of old cor.
            Land, tolling.
             Soil, gravelly; 3rd rate.
            No timber.
            Underbrush, greasewood and cacti.
Rolling land covered with dense underbrush, 80,00 chs.
             Thence I run
             S 89°57'E. bet.secs.2 and 35.
             Over rolling land thru dense underbrush.
34.65
         Wash, 15 lks. wide, course S.
40.00
             Set a malpais stone, 18X8X6ins., 12ins. in the ground,
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Resurvey of N. Bdv. of Tp. 21 N. . Rg. 19 West. chains. $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits, 18X18X12ins., E. and W. of stone, 3ft. dist.; and raise a mound of earth, 31 ft.base, 12 ft.high, N. of cor. No trace of old cor. Wash, 15 lks. wide, course S. Wash, 15 lks. wide, course S. Wash, 15 lks. wide, course S. 46.80 54.00 76.70 80.00 Set a malpais stone, 18x6x6ins., 12ins.in the ground, for cor. of secs,1,2,35 and 36, marked with I notch on E.and 5 notches on W.edge; dig pits,18x18x12ins., in each sec.5 ft.dist.; and raise a mound of earth,4ft. base,2ft.high, W. of cor. No trace of cla cor. Land . rolling. Soil, gravelly; 3rd rate. No timber. Underbrush, grease wood and cacti. Rolling land covered with dense underbrush, 80.00 chs. At this cor. I set off 16°17'S. on the decl.arc and observe the sun on the meridian at noon; the resulting lat.is 35°15'N. Thence I run S 89°57'E. bet.secs.1 and 36. Over rolling land thru exceptionally dense cacti underbrush, very difficult to chain thru. Wash, 25 lks. wide, course S. 2.65 Wash, 15 lks. wide, course S. Wash, 15 lks. wide, course S. 19.15 22.50 Wash, 15 lks. wide, course S. 38.20 set a malpais stone, 20x12x6ins., 15ins.in the ground, for *csec.cor., marked * on N.face; dig pits, 18x18x12ins. 40.00 R.and W. of stone, 3ft. dist.; and raise a mound of earth, 3\frace of old cor. Wash, 50 lks. wide, course SW. 48.70 Wash, 50 1ks. wide, course S. The cor. of Tps. 21 and 22 N., Rgs. 18 and 19 W., previously described 50.00 80.00 Land, rolling. Soil, rocky; 3rd rate. No timber. Underbrush, exceptionally dense cacti. Rolling land covered with exceptionally dense cacti underbrush, very difficult and slow to chain thru, exceptionally difficult to survey, 80.00 chs. February 4,1910.

		Latitua	1-21N.K.		o errors			
	Line	designated	True bearing	Distance	Æ	fudes	Ocra	rtures
		7	True bearing	1 .	N.	υS.	ښير	W
E.Bdg	of T.21	N. Pg. 1911	North	480.00	480.00	chs	Chs	chs.
N. Bdy	of T. 21.	Ny Ag. 19Wi	N. 39°57'W		42			479.90
1. Bdy	of 7,21	V., Ag. 19W Parallel North.	East	240.00		480.00		
,	apaaro i	474//6/ / ٧٥////	589058'E	240.12		0.14	240.12	
Conver	gency			 		~ ~ ~		~ 0.51
`		Totals	L		480.42	480.14	480.12	480.41
		Error in L			480.42	אלין וצמינים	Dem	480.12
,			["]		1	~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20,2	0.29
<u>'</u>	 		<u> </u>	.1	1	į.		1

GENERAL DESCRIPTION

Tp. 22 N. R.19 W. is rolling in the E. and mountainous in the West.

Tp.21 N. Rg.20 W. is mountainous and rough.
Tp 21 N., Rg.19 W. is mountainous in the W, and rolling in the E.

U.S. Deputy Surveyor.

 F	Retracementy of 5th Guide Meridian thru Th. 19 N
 chains.	
	January 11,1910; At 4h.30m.,p.m.,1.m.t.,I.set off 3
	21°43 S. on the decl. arc; 35°02 N. on the lat. arc and
į	determine a meridian with the welfer at the con of see
	determine a meridian with the solar at the cor. of secs. 7,12,13, and 18, on the 5th Guide Meridian thru Rp. 19 N.
	From here $\frac{1}{2}$ sec. cor. bears S 0°12'E.
	Therefore I run
	S 0°12'E. bet. secs. 13 and 18.
	Over mountainous land thru dense underbrush.
	Difference bet measurements of 40.15 chs, by two sets of
	chainmen is 8 lks.; position of middle point
	By 1st set,40.19 chs.
	By 2nd set, 40.11 chs., the m an of which is
40.15	Old 1 sec.cor., which is a malpais store, marked and
	witnessed as described by the Surveyor General.
	Old sec.cor.bears S 0°11'E.
	Therefore I run
_	S 0°11'E. bet.secs.13 and 18, from $\frac{1}{4}$ sec.cor.
15.00	Top of midge, bears E. and W. Desc.
28.00	Wash, 100 lks. wide, course E. Asc.
	Difference bet.measurements of 40.49 chs.by two sets
	of chainmen is 10 1ks.; position of middle point
	By 1st set, 40.54 chs.
	By 2nd set, 40 44 chs., the mean of which is
40.49	Old cor. of secs.13,18,19 and 24, marked and witnessed
	as described by the Surveyor General.
	Land, mountainous.
	Soil, rocky; 3rd rate.
	No timber.
	Underbrush, greasewood, catclaw and cacti.
	onthe management of the control of t

January 11,1910.

Gred W. Rodof, U.S. Deputy Sameyor. 17

	Retracement of 5th Guide Meridian thru Tp. 20 N.
chains	
	January 26,1910; At 9h.30m.,a.m.,l.m.t.,I set off
	18°46½'S. on the decl.arc; 35'06'N. on the lat.arc and
	determine a meridian with the solar at the cor. of secs.
	19,24,25 and 30on the 5th Guide Meridian thru Tp.20 N.,
THE COLUMN TWO IS NOT	which is a stone, marked and witnessed as described by
	the Surveyor General.
	Old \frac{1}{4} sec.cor.bears N 0°06'E.
	Therefore I run
	N 0°06'E. bet.secs.19 and 24.
	Over letel land thru dense underbrush.
35.00	Wash, 10 1ks. wide, course E.
	Difference bet.measurements of 40.66 chs.by two sets
	of chainmen is 8 lks.; position of middle point
	By 1st set,40.70 chs.
40.00	By 2nd set, 40.62 chs., the mean of which is
40.66	Old $\frac{1}{4}$ sec.cor., which is a stone, marked and witnessed as described by the Surveyor General.
	old sec.cor.bears N 0°03'E.
	Therefore I run
	N 0'03'E. from $\frac{1}{4}$ sec.cor.
16.50	Wash, 55 lks. wide, course SE.
10.00	Difference bet.measurements of 40.08 chs.by two sets
·	of chainmen is 6 lks.; position of middle point
	By 1st set.40 11 chs.
	By 2nd set, 40 05 chs., the mean of which is
40.08	Old cor. of secs.13,18,19 and 24, which is a stone,
	marked and witnessed as described by the Surveyor Genera
	I medig pits to the Sw. and Nw., and fill the pits to the
	NE. and SE. and rebuild the moune of earth, to the W. making
	this the cor. to secs.13 and 24.
	January 26;1910.

Vised. W. Rodof, V. S. Deputy Surger,

BOOK 2195 165T9

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Tred	W. Godol
, United States Deputy Surveyor, to	assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the	he survey of Blanway of the
N.G. + W. Bdy. J. 21 N. R. 19 W. + N. Bdy. J Standard Parallell n. Hum R. 19 w. + Retractured y. showing the respective capacities in which they acted: and 20 h	- 217. P. 19 W. + o the
showing the respective capacities in which they acted: and 20 h	onth.
(1 (1) 1)	, Chainman.
Bert Lyon	, Chainman.
Ralph R. Ellis	, Moundman.
	, Moundman.
R.M. Stark	, Axman.
& M. Carker	
Levige Newell	$\dots,$ Flagman.
FINAL OATH OF ASSISTANT	
We hereby certify that we assisted Led W. Ro	dolf.
1	Deputy Surveyor, in surveying all
those parts or portions of the N. E. AW Boliss. of Ch. 21	n. Raira MBdy
of T2171, Rg 19 W, the oth Standard Va	rallel North Then
same 19 (1), and the 5th Shide Meridian	71). they TO 19800N
Jungo 17 00 J com ora com a grand com	of the tale voil
anies Base & meridian, Rentory of Unigo	
in the foregoing field notes as having been surveyed by him and under h	
has been in all respects, to the best of our knowledge and belief, well	•
corner monuments established, according to the instructions furnished	d by the United States Surveyor
General for Cuyoua	
a. P. Typus	, Chainman.
Serthyon	, Chainman.
KalphR Elleo	, Moundman.
	, Moundman.
Rustani	, Axman.
, f k d	
Seorg Newell	, Flagman.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Subscribed and sworn to before me this	
day of March, 1980	
láy rominlerio codo a Korel SJ, 181 4- OCOCOCO O SEAL O	Vereuch '
©0:00:00	Wolary where

1800K 2195

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I. Fred W. Rodolf . United States Deputy Surveyor, do
solemnly swear that, in pursuance of a contract received from Sank S. Ingalls
United States Surveyor General for, bearing date of the
day of March, 1909, I have well, faithfully, and truly, in my own
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
United States, surveyed all those parts or portions of the W. States, surveyed all those parts or portions of the W. S. & W. Baye of Tp.
21 Morth, Pg. 18 West, The M. Bdy. of Tp. 2171, Po 19 West
the 5th Standard Parallel North thew Pg 19 W.8
the 5th Quide Meridian West thru Ups. 19820 Horth.
Base 9 meridian, in the Certify of Cayona, which are represented in the
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.
the foregoing are the original held hotes of such survey.
Wied W. Godoy.
United States Deputy Surveyor.
Subscribed by said
this /7 day of May /9/0., 190
this / / day of // / / / / / / / / / / / / / / / / /
mank I maaren
OCCOCC O SEAL O
Will duning the language to the Congression
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
OFFICE OF THE ONITED STATES SOLVETOR GENERAL,
Though Clayses (lug 18, 100/910
The foregoing field notes of the survey of the Harth East and West
B - D - W - 2/ Y R - 18/1/ + THE STATES
11 y P 16 W to the state of the
A 10 1 M ++ ++ 1 P 16 11; as ++ +
Sarablet South Arrange Jg V, - The retracement
A fortions of the D and Meredian the through
1900 / g ming to stank . all of the Sile of Salt King Done
Merchan Congress (Par)
executed by Jan W. Colof M. Depuly Surry
under his contract No. / J, dated Monch o , 1907, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.
United States Surveyor General.
Ching States 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.
United States Surveyor General.