1877 Book 13" FIELD NOTES

OF THE SURVEY OF THE

Through Rys. 19. 200	Par. U,	
- Through Rys. 19. 200	and DI W.	<u> </u>
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	· · · · · · · · · · · · · · · · · · ·	
	·	
1877		
of the Gela & Salt R. Leveling of aregone	wew Meri	dian,
AS SURVE	YED BY	
John J. Ferher Finder his Contract No. 126, dated	, United States Much 14th	
Survey commenced Much 39 -		
Survey completed Opril 11		, 1905

BOOK 1877 NAMES AND DUTIES OF ASSISTANTS. T.17 N.R 19W T17H. P. 26 PW **رارد**ق 32 36 35 32 3/ 36 26 24

BOOK 1877 INDEX DIAGRAM.

Township		, Range				
` 6·	5	4	8	2	1	
7	8	9	10	11	12	
18	17	16	15	14	18	
19	20	21	22	28	24	
80	29	28	27	26	25	
81	32	88	34	85	36	

Meanders Page.....

May 19, 1988

PRELIMINARY OATHS OF ASSISTANTS.

Chains

Survey commenced March 30th, 1905, and executed with a W. and L. E. Gurley Light Mountain Transit, not numbered, with a Smith Solar Attachment. The hroizontal limb is provided 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 lat and decl arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved

by the Surveyor General for Arizona, March 15th, 1905
I examined the adjustments of the Transit and correct the level and collination errors, then to test the Selar Apparatus by comparing its indications result ing from Solar observations, made during a.m. and p.m. hours with a true meridian determined by observation

on Polaris, I proceed as follows:

March 30th. At the Standard cor of Tps 17 N, Rs 18 and

19 W and lat 34° 44' 31.2'' N, long 114° 7' 10" W, I //

set off 34° 44' N on the lat arc, 3° 50 Non the Decl arc and at 4h 30m p.m.l.m.t., determined with the Selar a true meridian and marked a point thereof on a stone

set firmly in the ground 5 chs N of my cor.

Clearly At Sh 53m p.m.l.m.t., I observed Polaris at Western elongation in accordance with Manual of Instructions and mark a point on the line thus determined on a plug driven in the ground 5 chs N of my station. March 30th, 1905

March 31st, 1905
At 7h 15m. a.m.l.m.t., I lay off the azimuth of Polaris 1° 28' to the E and mark the true meridian thus determined by cutting a small groove in the stone set March 30th, on which the true meridian falls 0.3 ins

W of mark determined by the Solar.
At 7h 30m.a.m.l.m.t., I set off 34°44' N on the lat arc, 40 5' N/on the decl arc and mark a point in the true meridian determined with the Solar by a cross on the stone already set 5 chs N of my station. This mark falls 0.25 ins W of the true meridian established by Polaris observation.

The Solar Apparatus by p.m. and a.m. observations defines position for true meridian respectively 0' 16" E and 0' 13 " W of the meridian established by Polaris Therefore, I conclude the adjustments of observation. Therefore, I coinstruments are satisfactory.

The magnetic bearing of the true meridian is 15° 0' W, which gives a magnetic decl of 15° 0' E.

From the Standard cor above described, I run W on

South boundary of Sec 36

Descend

Cross gulch, 30 lks wide, course Sou 15.50 Ascend

Cross ridge, course N and S Descend 20.00

Cross gulch, 50 lks wide, course S 24.00 Ascend

Cross_ridge, course N and S 28.00

Descend Cross gulch, 40 lks wide, course S 33,00 Cross gulch, 20 lks wide, course SE **35.**00

Ascend Difference of measurements of 40 chs by two set of

chainmen is 8 lks, position of middle point

By 1st set, 39.96 chs By 2nd set, 40.04 chs, the mean of which is

82 BOOK 1671 18 4TH STANDARD PARALLEL NORTH, through RANGE 19 WEST. POOK 1811 cnains Set a lava stone 18 x 10 x 8 ins, 14 ins in ground for Standard 2 sec cor, stone marked SC2 on N face. Raised monument of stones 2 ft base, 12 ft high, N of cor. 40.00 No trees, pits impracticable.
To top of mountain ridge, course N and S 68.20 Descend Difference of measurements of 80 chs by two set of chainmen, is 14 lks, position of middle point
By 1st set, 80.07 chs By 2nd set, 79.93 chs, By 2nd set, 79.93 chs, the mean of which is
Set a granite stone, 20 x 10 x 6 ins, in a monument of
stone for Standard cor secs 35 and 36, stone marked
SC on N, 1 groove on E and 5 grooves on W faces. Raised
a mound of stones, 2 ft base, 1½ ft high, N of cor. 80.00 No trees, pits impracticable. Soil, rocky, granite formation, fourth rate. Land, mountainous, covered with fair growth of Mountainous land, 80.00 chs. Thence I run West on S boundary of Sec 35
Descend over rough mountainous country. The difference between measurements of 40 chs by two set of chainmen, is 10 lks, position of middle point
By 1st set, 39.95 chs
By 2nd set, 40.05 chs, the mean of which is
Set a granite stone 24 x 8 x 8 ins, in mound of stones 40.00 for Standard & Sec cor, stone marked SC on N face. Raised a mound of stones, 2 ft base, 12 ft high, N of No trees, pits impracticable. As cend 48.00 To top of ridge, course N and S Descend 54.00 Cross gulch, 30 lks wide, course S Ascend Cross ridge, 65.00 course N and S Descend 73.30 Cross gulch, 30 lks wide, course SE Ascend Cross ridge, course NE-SW Descend 76.00 79.95 Cross wash, 20 lks wide, course SE Difference of measurements of 80 chs by two set of chainmen, is 18 lks, position of middle point

By 1st set, 80.09 chs

By 2nd set, 79.91 chs, the mean of which is

Set a lava stone 28 x 8 x 7 ins 3/24 ins in ground for 80.00 Standard cor of secs 34 and 35, stone marked SC on N face, 2 grooves on E and 4 grooves on W edges. Raised mound of stone, 2ft base, 12 ft high, N of cor. No trees, pits impracticable.
Soil, rocky, fourth rate.
Land, mountainous, covered with fairly good growth of grass. Mountainous land, 80.00 chs. March 31st, 1905 April 1st, 1905.

At 7h a.m.l.m.t., I set off 34° 44' N on the lat arc, 4° 28' N on the decl arc, and determined the true meridian with the Solar at the cor of secs 34 and 35.
Thence I run West on S boundary of sec 34 Ascend 8.00 Top of ridge, course NW-SE Descend 20.00 Foot of ridge Ascend 37.00 Cross ridge, course NE-SW Difference of measurements of 40 chs by two set of chainmen, is 8 lks, position of middle point
By 1st set, 40.04 chs
By 2nd set, 39.96 chs, the mean of which is

4TH STANDARD PARALLEL NORTH, through RANGE 19 WEST.

		TH STANDARD PARALLEL NORTH, through HANGE 10 WEst
Т	chains	
		Set a lava stone 18 x 14 x 8 ins in monument of stone
-	40.00	Set a lava stolle 10 % 11 % or marked SC+ on N face.
	1	for Standard & sec cor, stone marked SC on N face.
	•	Raised a monument of stones 2 It Dase, It I III III I III
		corner. No trees, pits impracticable.
-		Colliel. No oloos, place the
1		Descend
	53.00	Foot of ridge
1		Ascend
-	04.00	grand and the course N and S
1	64.00	Cross summit of ridge, course N and S
1	-	Descend
	75.00	Cross canon, 75 lks wide, course SW
-	10.00	Ascend
		Ascenu
-		Difference of measurements of 80 chs by two set
		of chainmen is 20 lks, position of middle point
		Des 1 at 46t 80 10 CDR
- 1		By 18t Bet, 00.10 the the moon of which is
- 1		By 2nd set, 79.90 chs, the mean of which is
	80.00	
	00.00	
	J	and surrounded by a montant marked SC on N and 3 groov-
	, i	cor of secs 33 and 34, stone marked by our walks
		and surrounded by a monument of stones, for both dark cor of secs 33 and 34, stone marked SC on N and 3 grooves on E and W faces. Raised mound of stone, 2 ft base,
		1 ft high, N of cor. No trees, pits impracticable.
		18 10 III III N OL COL NO TONNOTTO PATA
		Soil, Rocky, lava formation, fourth rate.
١.	:	Land. mountainous. Very little vegetation.
		Mountainous land, 80.00 chs.
		April 1st, 1905.
		White Too,
		新
		April 3rd, 1905
		At 7h 30m.a.m.l.m.t., I set off 34° 44' N on the
•		At 7h John a.m. I.m. to 1 To and determined a true
,		let are so 141/N on the deci are and determined a vide
		maridian at the cor of secs 33 and 34.
		Thence I run W over high mountainous country
		Thence I run w Over high mountained
		West on S boundary of sec 33
		Descend
	7 00	Cross dry creek, 75 lks wide, course SW
	7.00	Cross dry Greek, 75 1ks wide, course on
		Ascend
	10.00	Cross ridge, course NE-SW
	10.00	
		Descend Swarf of Course Sw
	12.00	Cross dry creek, 40 lks wide, course SW
	1	1 Agand
	1	Difference of measurements of 40 chs by two set
	1.	Billerence of middle point
		of chainmen, is 14 lks, position of middle point
		Print set 39.93 Chs
		By 2nd gat. 20.417 Chs. the mount of which is
•	40.00	m m m m m m m m m m
٠,	40.00	for Standard 2 sec cor, stone marked SC2 on N face. Raised mound of stone, 2 ft base, 12 ft nign, N of cor.
)	for Standard & sec cor, stone marked Sor on N 1206.
	'	Raised mound of stone. 2 it base, la it nign, N or cor.
ų,	1.	No trees, pits impracticable.
,9		
		Descend
•	55.75	Cross gulch, 20 lks wide, course SW. Ascend
	64.00	Cross ridge, course NE-SW
:	0.5.00	Degoard Trago, course and
	1	Descend
	70.00	Cross gulch, 60 lks wide, course SW
	4	l acend
		Difference of measurements of 80 chs by two set
		Dilloronos or modernomones of middle moint
		of chainmen, is 18 lks, position of middle point
		Projet set. 80.09 CDS
		By 2nd set. 79 91 chs. the mean of which is
	1 00 00	By 2nd set, 79.91 chs, the mean of which is Set a lava stone 24 x 8 x 8 ins, 18 ins in ground for
٠	80.00	Set a lava stone 24 x o x o ins, io ins in grown w
-	:	I dissipate an of good 30 and 33 grone marked by our N
	. 1	4 groves on E and 2 grooves on W laces. Raised mound
	1	of stone, 2 ft base, 12 ft high, N of cor.
		or stone, a to nase, ta to making in our our.
	-	No trees nits impracticable.
	•	goil rocky lava formation, fourth rate.
	1	Land, mountainous. Very slight growth of grass.
	· :	month mount attroub. Total banks.
		Mountainous land, 80.00 chs.
	.]	图
		April 3rd
		At 12h m. 1.m.t., I set off 5° 17' N on the decl
	*: .	TE IND M. I.M.T. T BOY OLL O. II. M OIL OIL OLD GOOT
		are and observed the sun on the meridian. The result-

arc and observed the sun on the meridian. The resulting lat is 34° 44'. N.

Thence I run

West over rough mountainous country on S boundary of sec 32.
Descend

89		STREET ARREST WORLD, WILLOUGH RANGE IS WEST.
	chains	
· · · · · · · · · · · · · · · · · · ·	3.75	Cross dry wash, 10 lks wide, course SE
.1		Ascend
OK	15.00	Cross ridge, course N and S
80		Descend
•	27,50	
		Ascend
		Difference of meaurements of 40 chs by two set
		of chainmen, is 12 lks, position of middle point
1.		By 1st set, 40.06 chs
	40.00	By 2nd set, 39.94 chs, the mean of which is Set a lava stone 20 x 8 x 6 ins 1 ground for
	10.00	Standard & sec cor, stone marked SC on N face. Raise
		mound of stone, 2 ft base, 11 ft high, N of cor.
		No trees, pits impracticable.
		Descend
	59.00	Cross dry creek, 60 lks wide, course S
		Ascend
	67.00	Cross ridge, course N and S
		Descende **
	79.80	The state of the s
		Ascend
		Difference of measurements of 80 chs by two set
		of chainmen, is 20 lks, position of middle point
		By 1st set, 79,90 chs By 2nd set, 40.10 chs, the mean of which is
	80.00	Set a granite stone 18 x 10 x 5 ins 214 ins in ground
	00.00	for Standard cor of secs 31 and 32, stone marked SC
		on N, 5 grooves on E and 1 groove on W faces. Raised
		mound of stone, 2 ft base, $1\frac{1}{2}$ ft high, N of cor.
		No trees, pits impracticable.
		Soil, rocky, fourth rate.
		Land, mountainous, covered with slack growth of
		grass.
		Mountainous land, 80.00 chs.
		April 3rd, 1905
		Appril 4th 1005
	·	April 4th, 1905. At 7h 30m.l.m.t., I set off 34° 44 N on the lat
		arc, 5° 37' N on the decl arc and determined a true
		meridian at the cor of secs 31 and 32.
		Thence I run
		West on S boundary of sec 31 over rough mountain-
		ous country.
		Descend
	9.50	Cross dry wash, 50 lks wide, course S
		Ascend
		Difference of measurements of 40 chs by two set
		of chainmen, is 18 lks, position of middle point
		By 1st set, 39.91 chs By 2nd set, 40.09 chs, the mean of which is
	40.00	Set a lava stone 20 x 12 x 10 ins, 18 ins in ground
	7	for Standard & sec cor, stone marked S. C. d on N face.
	1	Raised mound of stones 2 ft base, 12 ft high N of cor.
		No trees, pits impracticable.
	50.00	Cross summit of ridge, course, N and S
		Descend
	71.50	Cross dry creek, 50 lks wide, course SW
		Difference of measurements of 80 chs by two set
		of chainmen, is 16 lks, position of middle point
1		By 1st set, 80.08 chs
l	80.00	By 2nd set, 79.92 chs, the mean of which is
	-5.00	Set a lava stone, 18 x 12 x 12 ins/214 ins in ground for Standard cor The 17 N Re 19 and 20 W gtone morked
.		for Standard cor Tps 17 N, Rs 19 and 20 W, stone marked SC 17 N on N, 19 W on E, and 20 W on W faces, with 6
-		grooves on N, E and W faces. Raised mound of stones
1	J	4 It base, 2 ft high, N of cor. No trees, pits im-
		practicable.
		Soil, rocky, lava formation, fourth rate.
		Land, mountainous, cut up by deep gulches. Very
		little vegetation.
		Mountainous land, 80.00 chs.
1	1	

	•		
T	chains		
		April 4th	
		At 12h m. 1.m.t., I set off 5° 40' N on the decl arc and observed the sun on the meridian. The result-	
		ing lat is 34° 44' N, at the Standard cor of Tps 17 N	
		Pa 19 and 20 W	
		Thence I run ou S. bely Sec 16.	
		West over rolling mountainous country	
1	**	Descend .	
	2.50	Cross dry wash, 40 lks wide, course SW	
		Ascend	
4	12.00	Cross_ridge, course NE-SW	
	00 00	Descend	
	22.00	Foot of ridge Ascend	
		Difference of measurements of 40 chs by two set of	
		chainmen, is 10 lks, position of middle point	
		By let get. M9.9b CDB	
		By 2nd set, 40.05 chs, the mean of which is	
	40.00	Set a lava stone 16 x 12 x 5 ins//12 ins in ground for Standard 1 sec cor, stone marked SC1 on N face. Raised	
	· v	standard τ sec cor, stone market bot on t mound of stones, 2 ft base, $1\frac{1}{2}$ ft high, N of cor.	
		No trees, pits impracticable.	
,		Descend	
	55.00	Foot of ridge.	
	, and the second	Ascend	ĺ
,	68.00	Cross top of ridge, course NE-SW	
	7 5 50	Descend	
	75.50	Cross dry wash, 40 lks wide, course SW Ascend	ĺ
		Difference of measurements of 80 chs by two set	
		of chainmen, is 14 lks, position of middle point	ĺ
	•	Ry 1st set, 80.07 cns	
		Decomposition of the mass of willing the mass of the m	
	80.00	l get a leva atoma 24 x 8 x 8 lns. 10 lns in ground lor	
,	J	Standard cor of secs 35 and 36, stone marked SC on N face, 1 groove on E and 5 grooves on W faces. Raised	
		a mound of stones, 2 ft base, 12 ft high, N of cor.	
		No trees bits impracticable.	
		Soil rocky lava formation. Fourth rate.	١
		Land, rough, broken, mountainous. Very little	
		vegetation.	l
		Mountainous land, 80.00 chs. April 4th, 1905.	
		April 5th, 1905.	l
		A+ 7h 30m a m 1 m t T set off 34° 44° N on the	
		lat arc, 600 N on the decl arc, and determined the	١
		meridian with the Solar at the Standard cor of secs 35	l
• "		and 36. Thence I run	
٠,٠		West on S-boundary of sec 35 over rough, broken,	
3	,	mountainous country.	l
•		Descend	
	15.30	Cross dry wash, 30 lks wide, course SW	
	,	Ascend	
	17.00	Cross ridge, course NE-SW Descend	
	20.00	Cross dry wash, 30 lks wide, course SW	1
	20.00	Agand	1
		Difference of measurements of 40 chs by two set	
	1	of chainmen, is 8 lks, position of middle point	
		1 Dr. 184 854 40 04 Chs	
	10.00	By 2nd set, 39.96 chs, the mean of which is Set a lava stone 20 x 10 x 4 ins, in monument of stones	-
	40.00	I fam Clandand I dec cor Stone Marked Dut on N Idoo.	ı
•	1	Raised a mound of stones 2 ft base, 12 ft high, N of co	4
		No trees, pits impracticable.	

-		
	Chains	
	57.00	The same same same same same same same sam
		Descend
		Difference of measurement of 80 chs by two set of
		chainmen is 16 lks, position of middle point
		by 1st set. 79.92 chs
	00	By 2nd set, 80.08 chs. the mean of which is
	80.00	l be a lava stone 20 x 12 x 10 ins 20 5 ins in ground
1		1 101 Standard cor of secs 34 and 35, stone marked Sc on
	✓	N race, & grooves on E and 4 prooves on Wednes
		Raised a mound of stones, 2 ft base, 11 ft high, N of
		cor.
	•	No trees, pits impracticable.
		Soil, rocky, fourth rate.
		Land, rough, mountainous, general slope of which
		1s to the Sand W. Very little vegetation.
		Mountainous land, 80.00 chs.
		Thence I run
		West on S boundary of sec 34.
		Descend
	10.00	Foot of ridge.
	30.00	Ascend
	30.00	Top of ridge, course NE-SW.
		Descend
		Difference of measurement of 40 chs by two set
	•	or chainmen, is 12 lks, position of middle point
		By 1st set, 39.94 chs
	40.00	By 2nd set, 40.06 chs, the mean of which is
	40.00	Set a lava stone. 24 x 10 x 10 ins. in monument of
	v	stone, for Standard & sec cor, stone marked SC on N
		Lace. Raise a mound of stone 2 ft base. 14 ft high, N
	44 70	OI COr. No trees, pits impracticable.
-	44.70	Enter canon
	49.00	Cross dry bed of canon, course SW
	57 OO	Ascend
	53.00	Leave canon
ĺ	58.00	Cross ridge, course NE-SW
	64.00	Descend
	04.00	Cross gulch, 30 lks wide, course SW
	69.00	Ascend
	03.00	Cross ridge, course NE-SW
	74.50	Descend
	14.00	Cross gulch, 20 lks wide, course SW
		Ascend
		Difference of measurements of 80 chs by two set
		of chainmen, is 20 lks, position of middle point By 1st set, 80.10 chs
	-	By 2nd get 70 00 ohe the mean of which in
	80.00	By 2nd set, 79.90 chs, the mean of which is Set a lava stone 24 x 14 x 12 ins, in monument of stone
	. ~0	for Standard cor of secs 33 and 34, stone marked SC on
		N face, 3 grooves on E and W edges. Raised a mound of
		stone 2 ft base, $1\frac{1}{2}$ ft high, N of cor.
		No trees, pits impracticable.
	1	Soil, rocky, lava formation, fourth rate.
		Land, rough, mountainous. Very little vegetation.
		Mountainous land, 80.00 chs.
		April 5th, 1905.
		April 6th, 1905.
		At 7h. 30. a.m.l.m.t. T set off 34° 44! N on the
	1	lat arc, 6° 22'\ N on the decl arc and at the Standard c-
١.		lat arc, 6° 22'\ N on the decl arc and at the Standard cor of secs 33 and 34, I determined a true meridian
		with the Solar.
		Thence I run
		West on S boundary of sec 33 over rough, mountain-
1		ous country.
		Descend
	20.00	Foot of ridge
		Ascend
		Difference of measurement of 40 chs by two set
		of chainmen, is 10 lks, position of middle point

ough RANGE 20 WEST.

	4TH STANDARD PARALLEL NORTH, through RANGE 20 WEST.
chains	
	By 1st set, 39.95 chs
40.00	By 2nd set, 40.05 chs, the mean of which is Set a lava stone 22 x 14 x 14 ins 7718 ins in ground for
40.00	Standard & sec cor, stone marked SC on N face. Raised
\ \	a mound of stone, 2 ft base, $1\frac{1}{2}$ ft high, N of cor.
	No trees, pits impracticable.
42.00	Summit of ridge, course NE-SW
	Descend
68.25	Cross canon, 20 lks wide, course SW
	Ascend Difference of measurements of 80 chs by two set
	of chainmen, is 16 lks, position of middle point
	By 1st set. 80.08 chs
	By 2nd set, 79.92 chs, the mean of which is
80.00	Set a lava stone 28 x 12 x 8 ins, in monument of stones for Standard cor of secs 32 and 33, stone marked SC on
	N face, 4 grooves on E and 2 grooves on W edges. Raised
	mound of stones, 2 ft base, 1½ ft high, N of cor.
	No trees, pits impracticable.
	goil rocky lave formation. Tourth rate.
	Land, rough, mountainous, being on the W slope of
	the Black or River Range of Mountains. General slope
1	being to the S and W. Mountainous land, 80.00 chs.
	April 6th.
	At 12h.m.l.m.t., I set off 6° 26' N on the decl
	arc and observed the sun on the meridian. The result-
	ing lat is 34° 44' N. Thence I run
	West on S boundary of sec 32.
	Descend
22.00	Cross canon, 30 lks wide, course SW
·	Ascend Difference of measurements of 40 chs by two set
	of chainmen, is 6 lks, position of middle point
	Prolet set. 39.97 Chs.
	Dr. 2nd get 40 03 chg. the mean of Which is
40.00	1 dot a lave gtone 26 x 18 x 10 ins. in monument of stones
	for deadord A gas cor stone marked but on N 1800.
	Raised a mound of stone, 2 ft base, 1 ft high, N of cor. No trees, pits impracticable.
	Descend
60.00	Foot of descent
30.33	Ascend
	Difference of measurements of 80 chs by two set
	of chainmen, is 14 lks, position of middle point
	By 1st set, 80.07 chs By 2nd set, 79.93 chs, the mean of which is
80.00	cot a love stone 24 x 14 x 8 ins/220 ins in ground for
00.00	granderd our of secs 3] and 32. Stone marked by on N
1	face 5 grooves on E and 1 groove on W edges. Raisou
	mound of stone 2 ft base, 12 it nigh, N or cor.
,	No trees, pits impracticable. Soil, rocky, lava formation, fourth rate.
	Land, rough, mountainous. Very little vegetation.
	Mountainous land. 80.00 chs.
	April 6th, 1905.
	1 12 841 2005
· ·	April 7th, 1905. At 7h.30m.l.m.t., I set off 34°44' N on the lat
•	arc. 60 451 N on the decl arc, and determined a time
	meridian at the St cor of secs 31 and 32.
1	Thence I run
	West on S bdy of sec 31 over rough, mountainous
	country. Descend
5.25	
0.20	Ascend
18.00	summit of ridge, course NE-SW
	Descend
	Difference of measurements of 40 chs by two set
	of chainmen, is 10 lks, position of middle point

70	001-	4TH STANDARD PARALLEL NORTH, through RANGE 20 WEST.
	Chains	
		By 1st set, 40.05 chs By 2nd set, 39.95 chs, the mean of which is
	40.00	Set a lava stone 20 x 10 x 8 ins, in monument of stones for St \(\frac{1}{2} \) sec cor, stone marked SC\(\frac{1}{2} \) on N face. Raised
	U	mound of stones, 2 ft base, $l\frac{1}{2}$ ft high, N of cor.
	45.00	Ascend cross ridge, course NW-SE
	54.50	Descend Cross gulch, 20 lks wide, course NW
	58.00	Ascend Cross ridge, course NW-SE Descend
	62.00	Cross gulch, 50 lks wide, course N Ascend
	67.00	Cross ridge, course N and S Descend
	74.50	Cross gulch, 40 lks wide, course NW Ascend
	·	Difference of measurements of 80 chs by two set of chainmen, is 18 lks, position of middle point By 1st set, 80.09 chs
4	80.00	By 2nd set, 79.91 chs, the mean of which is Set a lava stone 18 x 12 x 12 ins/214 ins in ground for St cor of Tps 17 N, Rs 20 and 21 W, stone marked 17 N Second N, 20 W on E, and 21 W on W faces, with 6 grooves
		on N, E, and W faces. Raised a monument of stones 4 ft base, 2½ ft high, N of cor. No trees, pits impracticable.
		Soil, rocky, lava formation, 4th rate. Land, rough, mountainous. Very little vegetation.
		Mountainous land, 80.00 chs. April 7th, 1905.
		4TH STANDARD PARALLEL NORTH, through RANGE 21 WEST.
		April 8th, 1905.
		At 7h. 30m. a.m.l.m.t., I set off 34° 44' N on the lat arc, 7°\8' N on the decl arc and at the St cor of Tps 17 N, Rs 20 and 21 W, I determined the true meri-
	•	dian with the Solar. Thence I run
		West on S bdy of Sec 36. Descend
	3.00	Cross gulch, 2 chs wide, course SW Ascend
	. 14.00	Cross ridge, course NE-SW Descend
.	23. 50	Cross wash, 50 lks wide, course SW Ascend
	28.50	Cross ridge, course N and S Descend
	33.50	Cross wash, 50 lks wide, course NW Ascend
	·	Difference of measurements of 40 chs by two set of chainmen, is 14 lks, position of middle point By 1st set, 39.93 chs,
	40.00 V	By 2nd set, 40.07 chs, the mean of which is Set a lava stone 18 x 12 x 12 ins 214 ins in ground for St 2 Sec cor, stone marked SC2 on N face. Raised mound of stone, 2 ft base, 12 ft high, N of cor. No trees, pits impracticable.
	55.0 ₀	Top of ridge Descend
	70.00	Cross dry creek, 100 lks wide, course SW Ascend
		Difference of measurements of 80 chs by two set of chainmen, is 16 lks, position of middle point By 1st set, 80.08 chs
		By 2nd set, 79.92 cns, the mean of which is

 •	4TH STANDARD PARALLEL NORTH, through RANGE 21 WEST
80.00	Set a lava stone 18 x 10 x 8 ins, 14 ins in ground for St cor Secs 35 and 36, stone marked SC on N face, 1 groove on E and 5 grooves on W edges. Raised a mound of stone, 2 ft base, 1½ ft high, N of cor. No trees, pits impracticable. Soil, rocky, lava formation, fourth rate. Land, rolling, mountainous. Very little vegetation. Mountainous land, 80.00 chs.
	Thence I run West on S bdy of Sec 35 over rough, mountainous
14.40	Cross canon, 30 lks wide, course SW Ascend
22.00	Cross ridge, course NE-SW Descend
29.00	Cross canon, 20 lks wide, course S
40.00	Ascend Difference of measurements of 40 chs by two set of chainmen, is 10 lks, position of middle point By 1st set, 39.95 chs By 2nd set, 40.05 chs, the mean of which is Set a lava stone 18 x 12 x 8 ins/214 ins in ground for St 1 Sec cor, stone marked SC1 on N face. Raised mound of stones, 2 ft base, 11 ft high, N of cor.
50.00	No trees, pits impracticable. Top of ridge, course NE-SW
64.50	Descend Cross dry creek, 40 lks wide, course SW
80.00	Ascend Difference of measurements of 80 chs by two set of chainmen, is 14 lks, position of middle point By 1st set, 80.07 chs By 2nd set, 79.93 chs, the mean of which is Set a lava stone 18 x 10 x 6 ins/214 ins in ground for St cor of Secs 34 and 35, stone marked SC on N face, 2 grooves on E and 4 grooves on W edges. Raised a mound of stone, 2 ft base, 1½ ft high, N of cor. No trees, pits impracticable.
·	Soil, gravelly, third rate. Land, broken, rolling, mountainous. Very little
	vegetation. Mountainous land, 80.00 chs. April 8th, 1905.
	April 10, 1905.am. At 7h.30m.1.m.t., I set off 34° 44¹ N on the lat arc and 7° 52¹ N on the decl arc, and determined a true meridian with the Solar at the St cor of Secs 34 and 35.
 ·	Thence I run West on the S bdy of sec 34
5.50	Descend Cross gulch, 30 lks wide, course NW
10.00	Ascend rop of mesa, sloping to the W. Descend
	Difference of measurements of 40 chs by two set of chainmen, is 8 lks, position of middle point By 1st set, 40.04 chs By 2nd set, 39.96 chs, the mean of which is
40. 00	Set a lava stone 20 x 12 x 10 ins, 16 ins in ground for St 1 Sec cor, stone marked SC1 on N face. Raised a monument of stones, 2 ft base, 11 ft high, N of cor. No trees, pits impracticable.
60.00 61.00 63.00	West edge of mesa, descend abruptly. Enter Mohave Valley Cross road, course N and S, enter heavy mesquite timber and dense undergrowth. Difference of measurements of 80 chs by two set of chainmen, is 10 lks, position of middle point By 1st set, 80.05 chs By 2nd set, 79.95 chs, the mean of which is
1	1

Thence I run on S. boly See 32, West over level land through heavy mesquite timber and dense undergrowth of arrow wood

Cross road, course NW-SE

Difference of measurements of 40 chs by two set of chainmen, is 4 lks, position of middle point

By 1st set, 40.02 chs

By 2nd set, 39.98 chs, the mean of which is

Set a mesquite post, 4 ft long, 4 ins sq. 36 ins. in ground for St 1 Sec cor, marked S. C. 185. on N face, whence

40.00

chains 80.00

38.09

38.09

A mesquite, 4 ins. in diam. bears N. 5½° W., 88 lks dist., marked S. C. ½ S,52B. T.

A mesquite, 6 ins. in diam. bears N. 20½° E., 143 lks dist., marked S. C. ½ S.3,2B. T.

The difference of measurements of 80 chs by two set of chainmen, is 8 lks, position of middle point By 1st set, 79.96 chs

By 2nd set, 80.04 chs, the mean of which is Set a mesquite, 4 ft long, 6 ins. sq., 3 ft in ground for St cor of Secs. 31 and 32, marked

S. C. T. 17 N, R 21 W, on N.

S. 32 on E

S. 31 on W. faces, with 5 grooves on E and 1 groove on W. faces, whence

groove on W. faces, whence
A mesquite, 5 ins. in diam. bears N. 60° E., 72
lks dist., Marked T. 17 N, R 21 W., S 32, B. T.
A mesquite, 8 ins., in diam. hears N 29½° W, 130
lks dist., marked T 17, R 21 W, S 31, B. T.
Soil, sandy loam, first rate.

Land, covered with mesquite timber and dense undergrowth of arrow wood, 80.00 chs.

Thence I run West on S bdy of Sec 31 20.00

Cross slough, 6 ins. water, 2 chs wide, course S. Intersect left bank of the Colorado River, banks about 8 ft high. Current of river close in against bank and cutting

Difference in measurement of 38.09 chs by two set

of chainmen, is 4 lks, position of middle point
By 1st det, 38.11 chs
By 2nd set, 38.07 chs, the mean of which is Set a mesquite post 4 ft long, 4 ins. sq., 3 ft in ground for Meander cor, post marked M. C. on W face S. C. T. 17 N, on N face, R. 21 S 31 on E. Dig pit 36 x 36 x 12 ins, 8 ft E of cor, raised a mound of earth 4 ft base 2 ft high, E of cor. No trees available.

Soil, sandy loam, first rate.
Land, level, covered with scattering mesquite timber and dense undergrwoth of arrow wood, 38.09 chs.

April 11th, 1905.

GENERAL DESCRIPTION

Through Ranges 19 and 20 and the East half of Range 21 % this line runs over rough, mountainous ridges, having a Southerly trend and being on the S and W

slope of the Black or River Range of Mountains.

There are no living streams of water and no timber.

The soil is very rocky and produces but a slight

growth of grass. The West half of Range 21 enters the Mohave Valley. The soil is good, producing heavy growth of mesquite timber and dense arrow wood. There is an abundance of water in sloughs during low stage of the river. This land is mostly subject to overflow at high stage of

river.

ishu S. Deputy Surveyor.

BOOK 1877 LIST OF NAMES. A list of the names of the individuals employed by, United States Deputy Surveyor, to assist in running, measuring, and 19,20 +21 W showing the respective capacities in which they acted: FINAL OATH OF ASSISTANTS We hereby certify that we assisted. United States Deputy Surveyor, in surveying all You. U. ut 21 H; which are represented meridian, Semen of in the foregoing field notes as having been surveyed by him and under his direction; and that said survey 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 furnished by the United States Surveyor General for Chainman. Chainman. Subscribed and sworn to before me this day of 6-151 May 19, 1908

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

Subscribed by said Atla Sales Manual Surveyor. In this of Surveyor are the digital by Sales Surveyor. The foregoing field notes of the united States Surveyor. Subscribed by said Approval. OFFICE OF THE UNITED STATES SURVEYOR GENERAL. OFFICE OF The United States, and 20 W. of the Manual of Surveyor of States and Sales Surveyor General for the Sales Surveyor General for the Sales Surveyor General for the Manual of Surveyor Instructions, and the laws of the United States Surveyor General for the Manual of Surveyor of Sales Surveyor General for the Manual of Surveyoring Instructions, and the special writing and in the field notes as having been surveyor have been established and perpetuated in the field notes, and that the Manual of Surveyoring Instructions, and the special writing and perpetuated in the field notes, and that the foregoing are the diginal field notes of such survey. Subscribed by said Atla Accounts and Surveyor of Surveyor of Subscribed by said Atla Surveyor of Subscribed by said Atla Surveyor of Subscribed by said Atla Surveyor of Subscribed by said Subscribed Surveyor Office of the United States Surveyor of Subscribed by said Subscribed Surveyor Office of the Surveyor of Subscribed Surveyor Subscribed Surveyor of Subscribed Surveyor of Subscribed Surveyor Office of the Surveyor Office of Subscribed Surveyor Office of Subscribed Surveyor Office or Surveyor of Subscribed Surveyor Office or Surveyor Office o	9 A FINAL	OATH OF UN	ITED STATES	DEPUTY SURV	EYOR.
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United States Surveyor General for	solemnly swear that, i	n pursuance of a co	ntract received from	m Frank & o	negules
proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Armen the Manual of Surveying Instructions, and the laws of the United States surveyor in the Debug of the Armen the Manual of Surveying Instructions, and the laws of the United States Surveyor General for the Armen 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 the Original field notes of such survey. James J. States Deputy Surveyor General for Justice States Deputy Surveyor. Subscribed by said Jether J. Justice General for Justice States Deputy Surveyor. Subscribed by said Jether J. Justice General for Justice States Deputy Surveyor. Subscribed by said Jether J. Justice General for Justice States Deputy Surveyor. APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Chalming G. Justice States Deputy Surveyor General for Justice States Surveyor General for Justice States Surveyor General for Surveyor General for States Surveyor General for Su	United States Surveyo	or General for	engone		, bearing date of the
General for					
of the Alexe meridian, in the Alexander of Congress of the Survey of Line of Congress of the Survey of Surveyor, 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 Surveyor finance with the Manual of Surveyor finance with the Manual of Surveyor and in the specific manner described in the field notes, and that the foregoing are the Original field notes of such survey. John J. Children W. J. J. L.	General for	your	, the Manual of	Surveying Instruction	ns, and the laws of the
Sull Revie meridian, in the security of august, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do turther solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Streying 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. Subscribed by said Jehn Joseph and sworn to before me this / day of Delmary 1906 The Manual Described Mad Survey of Jehn Delmary 1906 The foregoing field notes of the survey of the Deursh Standard Parallel North Insurant Rangue 19 20 and 21 the State and Sall Reven Base and Meridian aim the territory of Ary anal. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, The foregoing field notes of the survey of the Deursh Standard Parallel North Drough Rangue 19 20 and 21 the State and Sall Reven Base and Meridian aim the territory of Ary anal. Oxecuted by John J. Turke W. S. Appuly surveyor 1909, having beer critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. The critical states Surveyor General Drough States Surveyor General Lecritics that the foregoing transcript of the field notes of the above described surveys in	United States, survey	Fall those parts or	portions of		
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Metalogical meridian, in the demolars of Meyrow, 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 Syrveying Instructions, and the special written instructions of the United States Surveyor General for Meyrodian manual field notes of such survey. And I written instructions of the United States and that the foregoing are the original field notes of such survey. Appearance of the Grand manual of States Deputy Surveyor. Subscribed by said Jefrey Jackson, and sworn to before me this of May of Tield manual, and sworn to before me this of May of Tield manual, and sworn to before me this of May of Tield manual, and sworn to before me this of May of Tield manual, and sworn to before me this of May of Tield manual, and the survey of May of May of May of Tield manual, and the survey of the Tearth Standard Tauslell Marth through Rangers 19 20 and 21 W. Of the Tauslell May of May on the territory of May on the States Surveyor General United States Surveyor General Lecrity that the foregoing transcript of the field notes of the above described surveys in			•		Gelen and
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 My Manual in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Subscribed by said John J. Facher and sworn to before me this / A day of Fisher any 190 6 Subscribed by said John J. Surveyor 190 6 M. A. Survey as Surveyor Surveyor Approval. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Chelnis a. June 29 1906 The foregoing field notes of the survey of the Tourth Standard Parallel Marth Amount Ranger 1920 and 21 W. of the Sala and Salt Russ Bases and Meridian in the territory of Arizona. Executed by John J. Fisher W. S. Affair, Surveyor the territory of the contract No. 126 dated Manual 191905 1990, having beer critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. James J. June 2 1990, having beer critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.	,			Chegne, which	are represented in the
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General for Cutypul and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Lim Justice United States Deputy Surveyor. Subscribed by said John Justice and sworn to before me this / day of Televinary 1906 Limit A Surveyor General for Very and States Deputy Surveyor. APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL. Phelmix A. June 29 1906 The foregoing field notes of the survey of the Tourth Standard Parallel Dorth United States and Mendany, and the territory of Angara. executed by John J. June M. J. Jefuty Standard Carles and Salt Russin Sast And Mendany, and the territory of Angara. Executed by John J. June M. J. Jefuty Surveyor under his contract No. 26 , dated March 1905 140 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. Tamal A Linguistic Surveyor General Lecritics that the foregoing transcript of the field notes of the above described surveys in					
Subscribed by said John J. Fisher and Surveyor to before me this / A day of February 1906 Subscribed by said John J. Fisher and sworn to before me this / A day of February 1906 Subscribed by said John J. Fisher and Surveyor Su	/ / :	=			
Subscribed by said John J. Fisher and Salt River Base and Meridian and the territory of Arizonal Meridian and the necessary corrections and explanations made, the said field notes, and the surveys the describe, are hereby approved. John J. J. J. J. L.		//		maining adopting in the	20 2022 20000, 0222 0220
Subscribed by said John J. Fisher W. S. apputy Surveyor. Subscribed by said John J. Fisher W. S. apputy Surveyor General Executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Fisher W. S. apputy surveyor. executed by John J. Galer M. M. S. apputy surveyor. executed by John J. Galer W. S. apputy surveyor. executed by		3		<i></i>	
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this day of Tebruary, 1906 Secretary APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, The foregoing field notes of the survey of the Fourth Standard Parallel Dorth United Rangus 19 20 and 21 W. of the Fela and Salt Rwist Base and Meridian in the territory of this contract No. 126, dated March 14, 1905, 1906, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. The foregoing transcript of the field notes of the above described surveys in	1	11 100.	1	·	
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APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phoenix a. T. June 29, 1906 The foregoing field notes of the survey of the Tourth Standard Parallel Morth American Rangus 19 20 and 21 W. of the Gla and Sall Rwar Base and Meridian, in the territory of Arizona, executed by John J. Fisher W. S. Jeputy surveyor under his contract No. 126, dated March 4, 1905, 100, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. I certify that the foregoing transcript of the field notes of the above described surveys in	this	day of Vebr	uary, 190	6	
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OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phology A. J. June 29, 1906 The foregoing field notes of the survey of the Fourth Standard Parallel Porth Unsugh Rangus 19, 20 and 21 W. of the Gala and Sall Ruce Base and Meridian, in the territory of Arizonal, executed by John J. Fisher W. J. deputy surveyor under his contract No. 126, dated March 14, 1905, 190, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. Thank I J. 2 a. L. Unsua States Surveyor General Terrify that the foregoing transcript of the field notes of the above described surveys in.	000 0	000 AL 0	<u> </u>		e le
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