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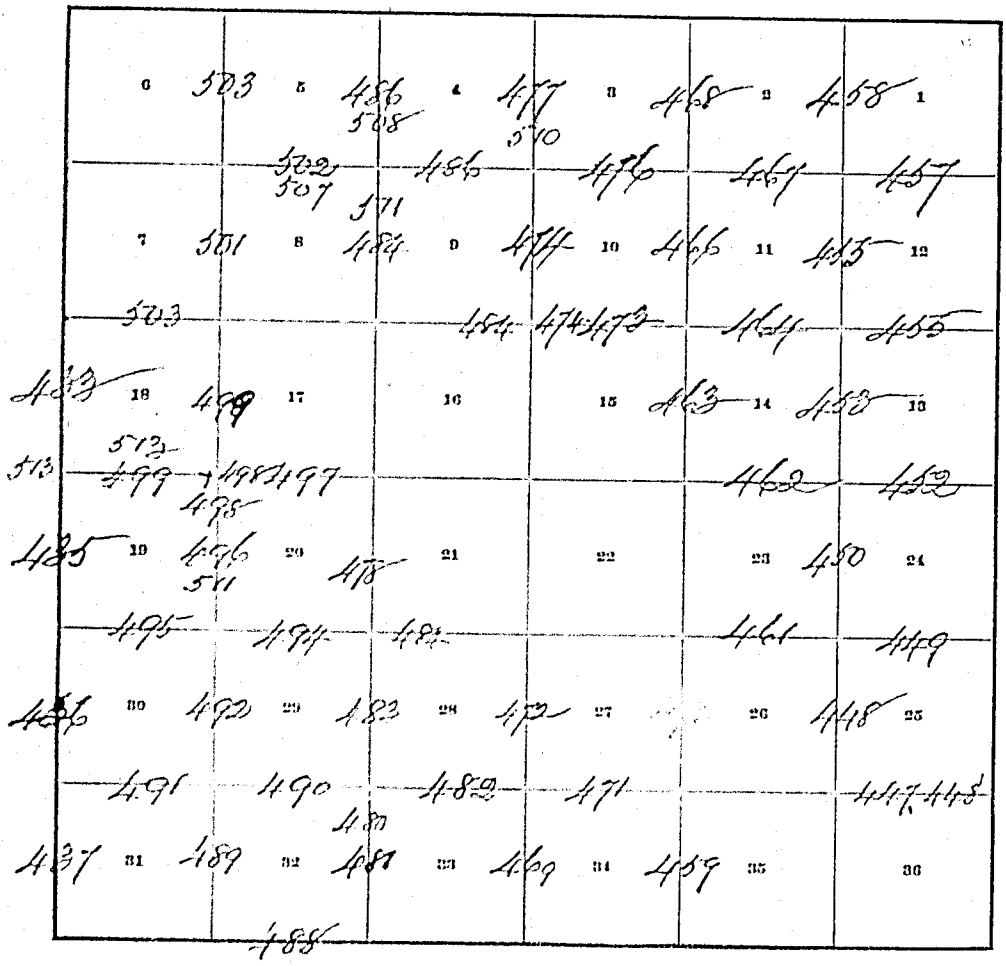

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BOOK A-415

A.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT

OF

FIFTH STANDARD PARALLEL SOUTH

THROUGH

RANGE NO. 21 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

SCOTT P. STEWART.

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* September 7, *1911*, *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *1911, pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced October 21, *1911*

Survey completed October 24, *1911.*

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Atty St - 7-00-06

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Retracement of 5th Standard Parallel South, Range 21 East.

Chains

Survey commenced October 21, 1911, and executed with a W. and L. E. Gurley Explorer's Transit, No.956, with solar attachment. The horizontal 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 latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on April 22, 1911.

At 1h 45m p.m. l.m.t., I set off 38°36'N. on the lat. arc; 10°30'S. on the decl. arc; and determine a meridian with the solar, at the standard cor. of Tps. 25 S., Rs. 21 and 22 E., which is a sandstone, 11x9x8 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 14 ins. in the ground, on solid rock, and surrounded by mound of stone, for Standard cor. of Tps. 25 S., Rs. 21 and 22 E., mkd. on brass cap

T 25 S in N half

R 21 E S 36 in NW, and

R 22 E S 31 in NE quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

The SE. cor. of the Central School Building bears S.25° 12'W.

The NW. cor. of the Cooper and Martin Store bears S.48° 59'W.

The SE. cor. of the Co-op store bears S.54°01'W.

The SE. cor. of the county Court House, which is a cut stone building, two stories high, 65 lks. wide east and west by 74 lks. long north and south, bears S.36° 39'W., 39.52 chs. dist. by actual measurement, according to Special Instructions from the Surveyor General.

Note: In order to make complete forenoon and afternoon

Chains

tests of the solar apparatus I proceed as follows:

At the Standard cor. of Tps. 25 S., Rs. 21 and 22 E., latitude 38°35'36"N., longitude 109°34'07"W., I set off 38°36'N. on the lat. arc; 10°31'S. on the decl. arc; and at 3h 45m p.m. l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

October 21, 1911.

October 23, 1911: At 5h 22m a.m. l.m.t., I observe Polaris at western elongation in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

At 7h 30m a.m. l.m.t., I lay off the azimuth of Polaris 1°30' to the east, and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.31 ins. east of the meridian established by solar observation.

At 7h 45m a.m. l.m.t., I set off 38°36'N. on the lat. arc; 11°07'S. on the decl. arc; and mark the meridian determined by the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.28 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridian respectively about 0'16" west and 0'15" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h 30m a.m. is N.16°10'W.; the angle thus determined gives the mag. decl. as 16°10'E.

Retracement 5th Standard Parallel South, Range 21 E. Contd.

Chains	
	From the Standard cor. of Tps. 25 S., Rs. 21 and 22 E., I run
	West, on a retracement line along south side of sec. 36.
	Over mountainous land;.
	Asc.
.20	Top of ridge, 3 ft. above cor., bears N. 20°W. and S. 20°E.
	Desc.
12.20	Begin more abrupt descent, bears NW and SE.
23.40	Bottom of hollow, 400 ft below ridge, course N. 10°W.
	Asc.
25.00	Top of sharp ridge, 34 ft. above hollow, bears N. 10°W. and S. 10°E.
	Desc.
27.00	Foot of descent, 100 ft. below ridge, bears NW. and SE.
	Enter valley.
30.00	Fence, bears N. 80°W. and S. 80°E.
35.45	Fence, bears N. and S.
35.70	Fence bears N. and S.
35.80	Irrigation ditch, 8 lks. wide, 2 ft. deep, course N.
40.10	Fall 6 lks. N. of the point for Standard ¼ sec. cor. on S. side sec. 36. No cor. was found at the point, but the cor. point has been perpetuated by the intersection of an east and west fence and a north and south fence. And was pointed out as the original cor. point by several old settlers.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for Standard ¼ sec. cor. mkd. on brass cap ¼ S 36 in N half; dig pits, 18x18x12 ins. N. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	Note: The southwest corner of a brick house 51x44 lks, owned by a Mr. Johnson, bears N. 72°45'E., 81 lks. dist.
	The course of this line is therefore S. 89°55'W., 40.10 chs.
	October 23, 1911: At this cor. I set off 11°12'S., on the

Retracement 5th Standard Parallel South, Range 21 E.-Contd.

Chains	
	decl.arc; and at 11 h 45 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°36'N., which is the proper lat. nearly.
	I set up over the ¼ sec.cor. and continue West on retracement line.
	Along fence line.
2.50	Fence line bears N. and S., on E. side of County road, which bears S. and W. Also telephone line, bears N. and S. Thence along center of County road, which is a 6 rod street fenced on both sides.
4.00	In line with the west side of County road running south, this road becomes the west street of the town of Moab.
12.40	Irrigation ditch, 5 lks. wide, 2 ft. deep, course N.
39.92	Fall 6 lks. N. of the point for standard cor. of secs. 35 and 36, as identified by Lilleston B. Bartlett, and Leonidas L. Crapo and other old settlers. These men were here when the original survey was made. This point is in the center of the County road running east and north, and another road running west.
	I set an iron post, 3 ft. long, 3 ins. in dia., 3 ft. in the ground, (top of post flush with the surface as a protection from vehicles. On account of a ditch immediately south of the cor. the travel is deflected east and south of the cor. so that the cor. is not likely to be disturbed) for Standard cor. of secs. 35 and 36, mkd. on brass cap
	T 25 S S 35 in NW.; and
	R 21 E S 36 in NE. quadrants; from which
	A cottonwood, 36 ins. dia., bears N.71°08'E., 308 lks. dist. mkd. T 25 S R 21 E S 36 B T.
	A black willow, 20 ins. dia., bears N.35°37'W., 88 lks. dist., mkd. T 25 S R 21 E S 35 B T.
	The southwest cor. of an adobe house 71½ lks. N. and S. by 34 lks. E. and W., bears N.51°25'E., 239 lks. dist.
	The course of this west half mile is S.89°55'W., 39.92 chs.
	Land, mountainous and level.
	Soil, sandy and clay loam in valley and rocky on mountain.
	No timber.

Retracement 5th Standard Parallel South, through Range 21 East. Contd

Chains	
	Mountainous land, 27.00 chs.
	October 23, 1911.
	October 24, 1911: At 7 h 44 m a.m., l.m.t., I set off 38°35' N., on the lat. arc; 11°28'S., n the decl. arc. and determine a meridian with the solar, at the cor. of secs. 35 and 36
	Thence I run
	West, on a retracement line along S. side sec. 35.
	Over level land; along center of road 150 lks. wide,
	Through dense tall sage and rabbit brush.
.25	Canal, 15 lks. wide, 2 ft. deep, course N.
40.02	Fall 7 lks. North of the point for Standard ¼ sec. cor. on South side of sec. 35, as identified by Lilleston B. Bartlett, Lester A. Walker, and other old settlers.
	Note: This cor. coming in the center of the road and at a point where it would be disturbed I decide to set two witness corners one, on the north side of the road and one on the south side, as follows:
	At a point 75 lks. North of the cor. point I
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to Standard ¼ sec. cor. mkd. on brass cap T 25 S R 21 E W C ¼ S 35 in N half; from which
	A poplar, 7 ins. dia., bears N.30°W., 7 lks. dist.. mkd. W C S C ¼ S 35 B T.
	Also at a point 75 lks. South of the cor. point I
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to Standard ¼ sec. cor., mkd. on brass cap W C S C T 25 S R 21 E ¼ S 35 in N half; from which
	A poplar, 8 ins. dia., bears N.15°W., 142 lks.

Retracement 5th Standard Parallel South, through Range 21 East Contd

Chains

dist.mkd.W C S C ¼ S 35 B T.

45.00 Leave dense undergrowth, bears N.and S.

70.50 Enter dense willows, bears N.and S.

74.80 Drain ditch 10 lks.wide, 2 ft.deep, course S.

80.04 Fall 14 lks.North of the Point for Standard cor.of secs. 34 and 35, in center of east street 150 lks.wide, and in line with north and south fences; also identified by old settlers as the original cor.point.

Set an iron post, 3 ft.long, 3 ins.in dia., 3 ft.in the ground, for Standard cor.of secs.34 and 35, mkd.on brass cap

T 25 S S 34 in NW.; and

R 21 E S 35 in NE.quadrants; from which

A black willow, 9 ins.dia., bears N.24°15'E., 129 lks.dist..mkd.T 25 S R 21 E S 35 B T.

A cottonwood, 30 ins.dia., bears N.53°45'W., 376 lks.dist..mkd.T 25 S R 21 E S 34 B T.

Note: This cor.is not likely to be destroyed as there is very little travel on the road at this point, because the river is immediately west.

The course of this mile is therefore S.89°54'W., 80.04 chs.

Land level.

Soil, clay and sandy loam, 2nd rate.

No timber.

Undergrowth, sage and rabbit brush and willows.

Land covered with dense undergrowth, 45.00 chs.

October 24, 1911.

Jacob P. Stewart

U.S.Transitman.

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "J" T.27 S., R.23 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

BOOK A-415

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of transitman see book "J" T.27 S., R.23 E.

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 13, 1914.

The foregoing field notes of the ~~xxxxxxx~~ retracement of the Fifth Standard Parallel South, through Range 21 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart under his special instructions dated September 7, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracement they describe, are hereby approved.

A. C. Thoresen
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

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Page

March 4, 1910.
E.R.
K.F.B.

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BOOK A-415 B.

FIELD NOTES

OF THE ~~XXXXXXXXXXXXXX~~

RETRACEMENT AND RESURVEY

OF THE

FIFTH STANDARD PARALLEL SOUTH

THROUGH

RANGE NO. 22 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

ERIC H. ANDERSON AND THOMAS C. RATHBONE

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* Sept. 7, *191*1, and supplemental special instructions dated September 9, 1915, *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *191*1 and September 18, 1915, respectively *pursuant to authority contained in the Act of Congress dated* ..... *191*....

Survey commenced October 22, *191*1.

Survey completed December 12, *191*5.

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5 Ah. Pam. 6-25-89

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Resurvey of Fifth Standard Parallel South Through R. 22 E.

Chains	
	Survey commenced Oct 22 1911 and executed with a K+E transit no. 20036 the horizontal limb being provided with two opposite verniers reading to 30" of arc
	At the standard corner heretofore described of townships 25 and 26 South Ranges 21 and 22 East in latitude 38° 36.8' N., longitude 109° 34' 07" W., at 5h 32m P.M. Mt. I observe Polaris at eastern elongation, in accordance with instructions in the manual, and mark the line thus determined, by a mark on a rock 5 chs N of my station
	October 23 At 7.30 a.m. I turn off the azimuth of Polaris 1° 29' to the west, and mark the meridian thus determined by cutting a mark on a rock firmly set in the ground west of the mark established last night; the magnetic bearing of said true meridian is N 16° 15' W., which gives the magnetic declination 16° 15' East.
	I lay off from the meridian, an angle of 90° from north to east and retrace East bet secs 6 and 31
	Note, Sec. 6 has previously been closed.
	Over mountainous land through scattering cedar and and pinon pine scattering greasewood and sagebrush discind
2.88	Bottom of gulch 60 ft. below Tp. cor course S.; ascend over broken ledges
11.00	Top of sandstone ridge 300 ft. above gulch bears N 20° W and S 20° E ascend gently
34.00	Foot of sandstone ledge 50 ft. high bears N 70° W and S 70° E
35.00	Top of same ledge, bears same ascend gently

Resurvey of Fifth Standard Parallel South
Through R 22 East

	Chains	
	43.70	Old wagon road bears N 80° W and S 80° E
rrec-	45.68	Intersect 1/4 sec cor. bet secs 6 and 31 which
otes		is a red sandstone 16 x 10 x 12 ins
ges 15-16		Mkd 1/4 on N face. The bearing trees
ook.		have evidently been cut down as
		none can be found
		Set an iron post 3 ft. long, 1 in in dia
		26 ins. in the ground in place
		of stone for 1/4 Sec. cor. bet sec
		6 and 31 marked 1/4 S 31 on N half
		from which
		A red sandstone ledge mkd + B0 S 31
		bears N 8° W 47 lks. dist
		This corner will hereafter refer to sec 6 only
	46.00	Foot of sandstone ledge bears N 30° W and S 30° E
	56.00	Top of ledge ridge 100 ft. above foot bears
		NW and SE; descend gently over ledge
	58.60	Foot of ledge 20 ft. below top, enter
		small mesa bears N and S.
	66.60	Old wagon road bears N and S
	71.00	Begin ascent over smooth rolling
		sandstone ledges bears NE and SW
	71.50	Telephone line from Moab to mesa
		bears N 75° E and S 45° W
	79.00	Top of ledge 100 ft. above foot bears NE
		and SW descend gently
		Difference between measurements of
		80 chs. by two sets of chainmen is
		4 lks., position of middle point
		By 1st set 79.98 chs
		By 2nd set 80.02 chs.; the mean of which is
	80.00	After a very diligent search no trace
		can be found of the old cor. the
		point of which falls on smooth
		sandstone, therefore mark point
		by cross (X) cut in ledge and at
	81.02	Set an iron post 3 ft. long 3 ins. in dia
		12 ins. in the ground and surrounded
		by mound of stone for witness stand.
		Cor to cor of secs 5, 6, 31 and 32
		Mkd on brass cap T 25 S R 22 E S 31 S 32 on N
		and WC on W half from which

Resurvey of Fifth Standard Parallel S
Through Range 22 East

Chains.	
	A ledge mkd. + BO S 32 bears N 26° E 11 lks. dist.
	A ledge mkd x BO S 31 bears N 80° W 12 lks. dist.
	Note, cloud prevents lat. observation. Mountainous land; westerly slope. Soil, gravely loam 6 to 12 ins deep on rock and gravel; coarse texture, dry. Timber scattering cedar and pinon pine. Undergrowth scattering sagebrush.
	East bet secs 5 and 32
40.00	After diligent search, find no trace of 1/4 Sec cor
80.00	After diligent search find no trace of cor of secs 4, 5, 32 and 33
	At 3h 15m p.m. lmt. I set off 38°36' on the lat. arc; 11°14' S on the decl. arc and determine a meridian with the solar at this point, thence retrace
	East bet. secs 4 and 33
40.00	After diligent search, unable to find any trace of stand. 1/4 Sec cor
80.00	After diligent search, unable to find any trace of stand sec cor. set flag.
	October 23 1911 Eric H Anderson U.S. Transitman
	October 24; At 8h 45m am lmt. I set off 38°36' on the lat. arc; 11°30' S on the decl arc and determine a meridian at flag set last evening. Thence I retrace
	East bet secs 3 and 34
40.00	After diligent search, unable to find any trace of stand. 1/4 sec cor

Resurvey of Fifth Standard Parallel South
Through Range 22 East

Chains.	
80.00	After diligent search, unable to find any trace of standard sec cor. East bet. secs. 2 and 35
40.00	After diligent search unable to find any trace of stand ¼ sec cor.
80.00	After diligent search, unable to find any trace of old stand. sec. cor. At 11h45m am. lmt. I set off 11°33'S on the decl. arc and observe the sun on the meridian at this point the resulting lat. is 38°36' Thence I retrace East bet secs 6 and 36
40.00	After diligent search, unable to find any trace of old standard ¼ sec cor
66.10	Fall 2.23 chs S. of old standard Tp. cor of Tps 25 and 26 S Rs 22 and 23 E which is a sandstone 30 x 20 x 6 ins set in mound of stone, marked and witnessed as described by surveyor general

Oct. 24 1911
Eric H. Anderson
U.S. Transitman

Note, Having run the East boundary of T25SR22E and established a new stand. Cor. of Tps 25 S Rs 22 and 23 E which is located 37.50 chs. E of old standard Tp. cor. I destroy marking and witness trees to the old stand. cor. but leave the stone in place for bearing object to closing cor. W. of this cor. October 30, At newly established standard cor of Tps 25 S Rs 22 and 23 E in latitude 38°35'36" N. longitude 109°27'28" W At 5h01m pm. lmt. I observe Polaris at eastern elongation, in accordance with instructions in the manual, and mark the line thus determined by

Resurvey of
Fifth Standard Parallel South
through Range 22 East

Chains.	
	a mark on a peg set 5 chs. N of my station. October 30 1911
	October 31; At 8:00 am I turn off the azimuth of Polaris 1°29' to the west and mark the meridian thus determined by a mark on a peg set 5 chs N of cor. the magnetic bearing of said true meridian is N 16°15' W., which gives the magnetic declination 16°15' east I lay off from the meridian, an angle of 90° from North to west and run West on the tangent S of sec 36 Over rolling Mountainous land through cedar and pinon pine timber, undergrowth of scattering sagebrush and black brush; ascend gulch
7.00	Road from Moab to Mesa bears N 80° W and S 80° E
19.00	Begin ascent of sandstone ridge bears NW and SE
23.00	Top of sandstone ridge 75 ft. above foot bears N and S. Telephone line from Moab to mesa bears N 70° E and S 70° W, on top of ridge. descend
27.00	Foot of sandstone ridge bears N 30° W and S 30° E; descend gulch
37.50	Intersect the old standard cor. of Tps 25 S Rs 22 and 23 E Wagon road from Moab to mesa bears N E and S W Difference between measurement of 40 chs by two sets of chainmen is 3 lks. position of middle point By 1st set 40.01½ chs By 2nd set 39.98½ chs the mean of which is
40.00	North lk from the tangent

Resumed of

Fifth Standard Parallel South
through Range 22 East

Chains.	
	Set an iron post 3 ft. long, 1 ins in dia. 26 ins. in the ground for standard 1/4 Sec. cor. marked 1/4 S 36 on N half; from which
	A cedar 10 ins diam. bears N 68° 30' E 102 lks. dist. mkd S.C. 1/4 S 36 B.T.
	descend gently
56.50	Bottom of hollow 10 ft. below stand. 1/4 Sec cor. course S W; ascend gently
59.30	Begin ascent over ledges bear N and S
62.00	Top of ledges, E. edge of small mesa 100 ft above hollow bears N and S
	descend gently
65.80	Intersect closing cor. of Tps 26 S, Rs 22 and 23 E which is a sandstone 24 x 10 x 8 ins. firmly set and witnessed, marked 3 C and 6 notches on S. Side and 6 notches on W. side
74.50	Leave small mesa descend over ledges bears N and S
80.00	Point falls on smooth sloping ledge cannot reach point
	Difference between measurements of 81.25 chs by two sets of chainmen is 4 lks.; position of middle point By 1st set 81.27 chs
	By 2nd set 81.23 chs the mean of which is
81.25	N 1 lk. from the tangent at Point at foot of ledge, 100 ft. below mesa bears NW and SE.
	Set an iron post 3 ft. long, 3 ins in dia 12 ins. in the ground and surrounded by mound of stone for witness stand. cor. to standard cor. of secs 35 and 36 mkd on brass cap T 25 S R 22 E in N. and S 35 S 36 W C in E half
	from which
	A sandstone ledge mkd X B 0 S 36 bears N 57° 30' E 2 lks. dist.
	A cedar 12 ins. diam bears N 52° 24' W

Runway of
Fifth Standard Parallel South
through Range 22 East

Chains	
	62 lks. dist. mkd T25S R22E S35 BT
Oct. 31	At 11h 44m am. lmt. I set off 13°55'S on the decl. arc and observe the sun on the meridian at this cor; the resulting lat. is 38°35.5' very nearly which is very nearly the proper lat. Mountainous land; westerly slope; soil, poor sand and gravel loam 6 to 12 ins. deep on sandstone; Timber scattering cedar and pinon pine Undergrowth scattering greasewood, sage brush and ooze.
	S 89°59' W on the tangent S of sec 35 Over mountainous land through scattering cedar and pinon pine descend gently
10.70	Wash 15 lks. wide 3 ft. deep course S ascend
22.00	Top of sandstone ridge 20 ft. above wash bears N and S descend Difference between measurement of 40 chs by two sets of chainmen is 2 lks; position of middle point By 1st set 40.01 chs. By 2nd set 39.99 chs. the mean of which is
40.00	N 1.5 lks. from the tangent Set an iron post 3 ft. long, 1 in. in dia 12 ins. in the ground and surrounded by mound of stone for standard 1/4 sec. cor. mkd on brass cap 1/4 S 35 on N half; from which a pinon pine 12 ins. diam bears N 60° W 160 lks. dist. Mkd SC 1/4 S 35 BT
Oct. 31	At 2h 45m p.m. lmt. I set off 38°35.5' on the lat. arc; 13°57'S on the decl. arc, and determine a meridian with the solar at this cor.
41.30	Wash 20 lks. wide, 2 ft. deep course SW

Resurvey of
Fifth Standard Parallel South
through Range 22 East.

Chains	
	ascend
43.00	Top of small sandstone knoll 25 ft above wash; descend
50.00	Trail bears N and S
76.50	Wash 30 lks. wide 2 ft. deep course SW
	Difference of measurements of 80 chs by two sets of chainmen is 6 lks; position of middle point
	By 1st set 80.03 chs.
	By 2nd set 79.97 chs. the mean of which is
80.00	N 3.2 lks from the tangent
	Set an iron post 3 ft. long 3 ins in dia 24 ins. in the ground for standard cor. of secs 34 and 35 Mkd. on brass cap T25SR22ES34S35 in N half; from which
	A cedar 6 ins. diam bears N4°30'E, 137 lks. dist Mkd T25SR22ES35BT
	A cedar 6 ins. diam bears N24°0'W 101 lks. dist. Mkd T25SR22ES34BT
	Mountainous land; SW slope soil; gravely loam 6 to 12 ins deep on sandstone and gravel.
	Timber, scattering cedar and pinon pine,
	Undergrowth, scattering greasewood sagebrush and ooze
	October 31 1911
	Eric H Anderson
	U.S. Transitman

November 1; at 8h44m am. Inst. I set off 38°35.5' on the lat. arc 14°11' S on the decl arc, and determine a meridian with the solar at standard cor of secs 34 and 35; thence I run S89°58' W on the tangent S. of sec 34 Over mountainous land through scattering cedar and pinon pine timber scattering greasewood, sagebrush and ooze.

5

Resurvey of
Fifth Standard Parallel, South
through Range 22 East.

Chains	
	descend gently
1.60	Trail bears NW and SE
34.00	Begin ascent over smooth sandstone ledges bear N and S
36.00	Top of sandstone ledge or ridge 50 ft above foot bears N and S; descend
38.70	Foot of same ledge 50 ft. below top bears N and S.
	Difference in measurements of 40 chs by two sets of chainmen, is 4 lks; position of middle point By 1st set 39.98 chs By 2nd set 40.02 chs the mean of which is
40.00	N 5 lks from the tangent
	Set an iron post 3 ft. long, 1 ins. in dia 12 ins. in the ground and surrounded by mound of stone for standard 1/4 sec. cor. Marked on brass cap 1/4 S 34 on N half; from which A cedar 14 ins. diam. bears N 27° 20' E 28 lks. dist, Mkd. SC 1/4 S 34 BT
65.80	Telephone line from mesa to Moab bears NW and SE; begin ascent over ledge bears N and S
67.00	Top of smooth sandstone ledge or ridge 150 ft. above stand. 1/4 sec. cor. bears N. and S. descend
70.70	Wagon road from Moab to mesa in bottom of crevice in solid sandstone, known as "Day's Crack" bears N and S. ascend
71.00	Top of ledge 50 ft. above bears N and S descend
73.50	Bottom of Gulch at foot of ledge 75 ft. below top of ledge course N. ascend gently
	Difference between measurements of 80 chs by two sets of chainmen is 7 lks. position of middle point By 1st set 79.965 chs By 2nd set 80.035 chs. the mean of which is

Resurvey of
Fifth Standard Parallel South
through Range 22 East.

Tunnel.

80.00 N 7.1 lks. from the tangent
Set an iron post 3 ft. long 3 ins. in dia
12 ins. in the ground and surrounded
by mound of stone for standard
cor of secs 33 and 34 Mkd on brass
cap T25SR22E S33 S34 in N.
half, from which
A cedar 12 ins. diam. bears N67°E
56 lks. dist. Mkd T25SR22ES34BT
A pinon pine 8 ins. diam bears N6°21'W
107 lks. dist. Mkd T25SR22ES33BT
Nov. 1:- At 11h 44m am. Lmt. I set off 14°13'S
on the decl. arc and observe the
sun on the meridian at this cor;
the resulting lat. is 38°35.5'
Mountainous land; SW. slope;
Soil, gravely loam 6 to 12 ins
deep in valleys on sandstone,
no soil on ridges, smooth sandstone.
Timber scattering cedar and pinon
pine.
Undergrowth, scattering sagebrush
and ooce.

S89°57'W on the tangent S of Sec 33
Over Mountainous land, sandstone
ridges and sandy flats through scattering
cedar and pinon pine; ascend
2.70 Foot of ledge bears N and S
4.40 Top of same ledge 75 ft. above foot
bears N and S; descend
5.00 Wash 15 lks. wide 2 ft. deep course N
ascend gently over smooth rolling
sandstone ledges bear N20°W and S
20°E
28.00 Leave ledges bears NW and SE
enter small sandy flat
31.00 Wash 10 lks. wide 2 ft. deep course NW
36.30 Wash 8 lks wide 1 ft. deep course N
37.00 Begin ascent over smooth and rolling

Resurvey of
Fifth Standard Parallel South
through Range 22 East

Chains.	
	sandstone ledges bear N and S
38.70	Top of sandstone ledge or ridge 100 ft. above foot bears N and S descend
	Difference of measurements of 40 chs. by two sets of chainmen is 2 lks.
	position of middle point
	By 1st set 39.99 chs
	By 2nd set 40.01 the mean of which is
40.00	N 10. lks. from the tangent
	Point falls on sloping smooth sandstone ledge mkd by x cut in rock; therefore at
39.00	Set an iron post 3 ft. long 1 ins. in dia 12 ins. in the ground + mound of stone around post for witness standard cor to standard 1/4 sec. cor.
	mkd. on brass cap T 25 S R 22 E 1/4 S 33 WC in N half, from which a lone Pinon pine 12 ins. diam bears N 84° W
	Mkd WC SC 1/4 S 33 BT.
40.50	Bottom of crevice in solid rock 50 ft below 1/4 sec cor, 6 ft wide in bottom, bears NW and S E; ascend
41.60	Top of rounding ledge 50 ft. above bottom of crevice, bears N and S; descend
43.00	Foot of Ledge 75 ft. below top bears N and S
	Enter sandy flat, nearly level
63.00	Old road bears N and S
	Difference between measurements of 80 chs. by two sets of chainmen is 3 lks.
	the position of middle point
	By 1st. set 80.015 chs
	By 2nd set 79.985 chs the mean of which is
80.00	N 13 lks from the tangent
	Set an iron post 3 ft. long 3 ins. in dia 24 ins in the ground for standard cor.
	of secs. 32 and 33 marked on brass cap T 25 S R 22 E S 32 S 33 on N half, from which
	a pinon pine 10 ins. diam. bears N 53° 40' E 46 lks. dist. Mkd T 25 S R 22 E S 33 BT
	A pinon pine 8 ins. diam. bears N 53° W 78 lks. dist. mkd. T 25 S R 22 E S 32 BT

Resurvey of
Fifth Standard Parallel South
through Range 22 East.

Chains.	
	Rolling mountainous land Soil, sand and gravel loam 6 to 18 ins. deep in valleys on rock or gravel subsoil, dry Timber scattering cedar and pinon pine, Undergrowth scattering sagebrush November 1 1911 Eric T Anderson U.S. Transitman
	November 2; At 8h 44m a.m. Lat. I set off 38°35'.5 on the lat. arc; 14°31' S on the decl arc and determine a meridian at standard cor of secs 32 and 33 Note, Overcast sky prevented observation on Polaris last night. I calculate course of S bdy of Sec 32 to be S 88° 46' W 103.62 chs. Thence I run S 88°46' W on S bdy of S 32 Over rolling mountainous land through scattering cedar and pinon pine timber, scattering greasewood and sagebrush descend
4.00	Foot of ledges, bear N and S enter sandy flat
12.00	Wash 12 lks. wide 2 ft. deep course N No difference in measurement of 40 chs by two sets of chainmen, therefore at
40.00	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground for standard 1/4 sec. cor. Nked on brass cap 1/4 S 32 in N half; dig pits 18X18X 12 ins. E and W 3 ft. dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N of cor.
61.00	Leave sandy flat, begin ascent of smooth sandstone ledges bear N+S

Resurvey of Fifth Standard Parallel South through Range 22 East.

Chains.	
80.00	Top of ledges 100 ft. above foot bear N and S descend gently
82.00	Wagon road from West to mesa bears N and S
82.50	Wash 15 lks. wide 2 ft. deep course N ascend
102.60	The witness cor to standard cor of secs 5, 6, 31 and 32 heretofore described which is located 102 lks E of true cor. point making the S bdy. of sec 32
103.62	The cor point of standard cor of secs 5 6 31 and 32. mkd by cross cut in ledge.

Rolling Mountainous land, Northerly slope. Soil, sandy loam. 6 to 24 ins. deep in valleys on rock or gravel subsoil. rather coarse texture and dry
Timber, scattering Cedar and pinon pine
Undergrowth, scattering greasewood sagebrush and ooze.

November 2 1911
Eric J Anderson
U.S. Transitman

General Description

Through range 22 E this line runs over a great many smooth sandstone knolls, ridges and surface with small sandy valleys or flats between the ledges,

No stream is crossed and the land is very dry and apparently unproductive, as there is only a few scattering cedar and pinon pine timber, scattering greasewood, sage brush and ooze, showing there is very little moisture in the ground

The general drainage is westerly.

BOOK A-415

Runway of
Fifth Standard Parallel South

The land to the north breaks into "Nigger Bill" Canyon, rough and broken, while the land to the South is not so broken though of mountainous character.

Eric H Anderson
U.S. Transcriber

Retracement of the 5th. St. Par. S., through R. 22 E.,
Along S. Bdy. Sec. 31.

Chains	
	Survey commenced December 12, 1915, and executed with a Young and Son's transit, No. 7192, equipped with a Smith Solar attachmant.
	For description and test of the instrument on a Polaris meridian, see notes of the subdivision of T.29S.,R.24 E. From recent test, I am assured that my instrument is now in good adjustment.
	A five chain steel tape and clinometer were used in measuring all distances.
	Instruments were approved for use on this survey by the Ass't. Supervisor of Surveys. for Utah.
	A coefficient of 0.85 is applied to all mean refractions in declinations, on account of the altitude of the country.
	Dec. 12: At 8^h00^m.a.m.,l.a.t., I set off 38°36' on the lat. arc; 22°57½'S. on the decl. arc, and determine a meridian with the solar at the St. cor. of Tps. 25 S., Rs. 21 and 22 E., which is an iron post, 3 ins. dia., 12 ins. above ground, firmly set, with brass cap mkd.

R 21 E R 22 E
SC
T 25 S
S 36 | S 31
1911

	witmessed by a mound of stone, 2½ ft. base, 2 ft/ high, N. of the cor.
	Thence I run
	East, retracing along S. bdy. sec. 31.
	Over rough mountainous land, over broken sandstone outcrops, through scattered cedar and pinon timber, and sage and greasewood undergrowth. Desc.
3.17	Deep gulch, 80 ft. below the cor., drains S.10°E. Asc. over broken sandstone ledges.
11.00	Top of sandstone ridge, 195 ft. above gulch, bears N.30°W. and S.30°E. Desc. gradually into a small basin, bears NW. and SE.

Retracement of the 5th. St. Par. So., through R. 22 E.

Along S. bdy. sec. 31.

Chains	
25.50	Small gulch, 140 ft. below ridge, drains S. Asc. from basin, bears NW. and SE., over sandstone ledge.
35.00	Top of sandstone ledge, 50 ft. high, bears NW. and SE. thence asc. gradually.
45.62	Fall 6 lks. N. of St. $\frac{1}{4}$ sec. cor. on S. bdy. sec. 31, which is an iron post, 1 in. dia., 10 ins. above ground, firmly set, with brass cap marked

SC
$\frac{1}{4}$
S 31

1911

from which a r4d sandstone ledge, marked X BO S 31, bears N.8°W., 47 lks. dist.

Also,

The stump of a cedar tree, sawed or chopped off a few inches above ground, being about 16 or 18 ins. in dia., bears S.88°E., 12 lks. dist. There are no other trees or stumps of trees this size anywhere in the vicinity.

A very prominent red sandstone knob, the only formation of this kind along the line within a half mile or more, bears south, the base of the north face being 116 ft., or 174 lks., dist. The north face is weathered, and I am unable to find any marks. The knob is 30 ft. high, and the base 20 x 25 ft.

There is no doubt whatever that the old $\frac{1}{4}$ sec. cor. was re-established at the exact point at which it was originally set, the calls being entirely satisfied, within two or three links.

December 12: At this point, I set off 23°02'S. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is 38°36'

The true course of the half mile is therefore S.89°55'E., and the dist., 45.62 chs.

Thos. A. Rathbone
U. S. Transitman
Dec. 12, 1915

4—080

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants for Eric H.Anderson, U.S.Transitman, see book "J" T.27 S., R.23 E.

For certificate of assistants for Thos.C.Rathbone, U.S.Transitman, see book "M" T.26 S., R.22 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

4—2761

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of Eric H.Anderson, U.S.Transitman see book "J" T.27 S. R.23 E.

For final oath of Thos.C.Rathbone, U.S.Transitman, see book "M" T.26 S. R.22 E. ..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, May 31, 1916.

The foregoing field notes of the ~~xxxxxx~~ retracement and resurvey of the Fifth Standard Parallel South, through Range No.22 East of the Salt Lake Base and Meridian, Utah,

executed by Eric H.Anderson and Thomas C.Rathbone under ~~xxx~~special instructions dated September 7, 1911 and supplemental special instructions dated Sept.9,1915, 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and resurveys they describe, are hereby approved.

.....
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

6—2761

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Filed: Apr. 2, 1912.
Feb. 25, 1913.
March 4, 1916.

BOOK A-415

4—679

E.R.
H.E.W.

C.

E.R.
K.F.

FIELD NOTES

RE

OF THE SURVEY ~~XXXXXX~~

AND

RETRACEMENT OF THE EAST BOUNDARY

AND

SURVEY OF THE NORTH BOUNDARY,

O F

TOWNSHIP NO.25 SOUTH, RANGE NO.22 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

ERIC H.ANDERSON, U.S.TRANSITMAN,

JOHN W.DOUGALL, U.S.SURVEYOR, AND

THOMAS C.RATHBONE, U.S.TRANSITMAN,

~~*In the capacity of U.S. Surveyor*~~, *under instructions dated* Sept.7, *1911*, and supplemental special instructions dated Sept.9, 1915 *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *1911* and September 18, 1915, respectively *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced October 25, *1911*

Survey completed December 12, *1915.*

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BOOK A-415

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EAST BOUNDARY OF TP. 25 S., R. 22 E.

CHAINS	
	Survey commenced October 25, 1911, and executed with the instrument described in book "B" of this survey. For complete test of instrument also see book "B".
	October 25: At 8h 15m a.m., l.m.t., I set off 38°35.5' on the lat. arc. 11°50'S. on the decl. arc. and determine a meridian with the solar at old standard cor. of Tps. 25 S., Rs. 22 and 23 E. heretofore described.
	Thence I run
	North on a random line on E. bdy. of T. 25 S., R. 22 E. bet. secs. 31 and 36.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. sec. cor.
	North on a random line bet. secs. 25 and 30.
40.00	Set temp. ¼ sec. cor.
	At 11h 45m a.m., l.m.t., I set off 11°53'S. on the decl. arc. and observe the sun on the meridian at this point, the resulting lat. is 38°36'.
80.00	Set temp. sec. cor.
	North on a random line bet. secs. 19 and 24.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. sec. cor.
	October 25, 1911.
	October 26: At 8h 45m a.m., l.m.t., I set off 38°37' on the lat. arc. 12°13'S. on the decl. arc. and determine a meridian at temp. cor. of secs. 13, 18, 19 and 24.
	Thence I run
	North on a random line bet. secs. 13 and 18.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. sec. cor.
	NOTE: Cloud obscures sun, preventing latitude observation.
	North on a random line bet. secs. 7 and 12.
40.00	After diligent search unable to fine any trace of old ¼ sec. cor.
	Set temp. ¼ sec cor.
77.42	Fall 37.50 chs. W. of old cor. of secs. 1, 6, 7 and 12,

EAST BOUNDARY OF T. 25 S. R. 22 E.

CHAINS

which is a red sandstone 14x8x6 ins. above ground, mkd. 1 notch on N. edge and 5 notches on S. edge.

At 5h 16m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions, in the Manual, and mark the line thus determined by a mark on a pickett set 5 chs. north of this cor.

October 26, 1911,

October 27: At 6:45 a.m., I lay off the azimuth of Polaris 1°29' to the west and mark the meridian thus determined by a mark on a stake driven firmly in the ground 5 chs. N. of the cor.

Thence I retrace

South on E. bdy. of Tp. bet. secs. 7 and 12, in Little Castle Valley.

Over nearly level land, through a dense growth of short greasewood and sagebrush.

Ascend gently.

20.50 Wash 30 lks. wide, 10 ft. deep, course N. 30°E.

27.00 Wash 35 lks. wide, 7 ft. deep.

Enter scattering cedar and pinon pine, bears NW. and SE.

35.00 Wash 70 lks. wide, 12 ft. deep, course N. 15°E.

40.00 After diligent search, unable to find any trace of old $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12, therefore

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12, mkd. on brass cap $\frac{1}{4}$ S 12 on W. and S.7 on E. half, from which

A sandstone boulder 12x10x8 ft. mkd. X B O S 12 bears N. 86°30'W. 20 lks. dist.

A cedar, 8 ins. diam., bears S. 88°25'E., 89 lks. dist. mkd. $\frac{1}{4}$ S 7 B.T.

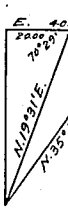
This corner will hereafter refer to sec.7 only.

40.25 Wash 30 lks. wide, 10 ft. deep, course N. 30°E.

Ascend.

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
59.00	Foot of sandstone ledge, bears N. 30°W. and S. 30°E. which leads to broken ledges which terminate at foot of shear wall, 600 ft. in height. It being impossible to continue chaining beyond this point
	I return to ¼ sec. cor. bet. secs. 7 and 12, and measure a base east 20 chs. and set flag, then I continue base east to 40.00 chs. and set a 2nd flag.
	It being impracticable to set flag on line on top of ledge or edge of mesa from below, I go to top of ledge or N. edge of mesa, bordering Little Castle Valley on the south, and determine a point on line, and from said point 1st flag on base (20 chs. E) bears N. 19°31'E. from the flag the instrument bears S. 19°31'W., therefore the dist. is tan. 70°29' x base or 2.8213 x 20.00 chs. = 56.43 chs.
	The 2nd flag (40.00 chs. E) bears N. 35°16'E. from the flag the instrument bears S. 35°16'W., therefore the dist. is tan. 54°44' x base or 1.41409 x 40.00 chs. = 56.55 chs.
	Mean. dist. = $\frac{56.43 + 56.55}{2}$ = 56.49 chs.
	56.49 - 37.42 = 18.07 chs. S. of cor. point of secs. 7, 12, 13 and 18. Said point falls on steep ledges at
77.42	Impossible to set cor., therefore
	South bet. secs. 13 and 18 to point.
19.58	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground and surrounded by mound of stone for witness cor. to cor. of secs. 7, 12, 13 and 18, marked on brass cap
	T 25 S R 22 E.WC on N half,
	R 22 E S 12 in NW.
	R 23 E S 7 in NE.,
	S 18 in SE., and
	S 13 in SW. quadrant, from which
	A cedar, 4 ins. diam., bears N. 52°0'E., 14 lks. dist. mkd. WC T 25 S R 23 E S 7 B T.



For rect note see page this book

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
	A pinon pine, 10 ins. dia., bears S. 43°0'E., 55 lks. dist. mkd. WC T 25 S R 23 E S 18 B T.
	A cedar, 7 ins. dia., bears S. 24°0'W., 0.75 chs. dist. mkd. WC T 25 S R 22 E S 13 B T.
	A pinon pine, 8 ins. dia., bears N. 30°0'W., 78 lks. dist. mkd. WC T 25 S R 22 E S 12 B T.
	N. 35 chs. Nearly level land in Little Castle Valley. Northerly slope.
	Soil, sandy loam with some gravel 6 to 29 ins. deep, on gravel subsoil.
	Undergrowth, greasewood and sagebrush.
	No timber.
	The balance rough mountainous land, N. slope; soil poor, gravelly loam 3 to 6 ins. deep on rock.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	NOTE: Point 1700 ft. above Little Castle Valley.
	From witness cor. for secs. 7, 12, 13 and 18, set 19.58 chs. S. of true cor. point, I run
	South bet. secs. 13 and 18, counting distance from true point for corner. Descend gently.
32.30	Begin abrupt descent over sandstone ledges 70 ft. high, bears E. and W.
39.50	Bottom of hollow, 130 ft. below WC., course S.80°W.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and surrounded by mound of stone for ¼ sec. cor., bet. secs. 13 and 18, mkd. on brass cap ¼ S 13 on W. and S 18 on E. half, from which
	A cedar, 12 ins. diam., bears E. 6 lks. dist. mkd. ¼ S 18 B T.
	A pinon pine, 8 ins. diam., bears N. 80°W., 34 lks. dist. mkd. ¼ S 13 B T.
46.00	Top of spur, 60 ft. above ¼ sec. cor., bears S.80° W.

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
	and N. 80°E.
	Descend.
52.50	Bottom of hollow, 40 ft. below spur, course S. 85°W.
	Ascend.
58.50	Top of small spur, 45 ft. above hollow, bears E. and W.
	Descend.
63.00	Bottom of hollow, 50 ft. below spur, course N. 80°W.
	Ascend.
67.20	Top of ridge, 60 ft. above hollow, bears N. 75°W. and S. 75°E.
	Descend.
72.00	Bottom of hollow, 30 ft. below ridge, course S. 70°W.
	Ascend.
74.50	Top of spur, 30 ft. above hollow, bears E. and W.
	Descend.
77.50	Begin descent over broken ledges, bear N. 70°W. and S. 70°E.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground and surrounded by moundof stone for cor. of secs. 13, 18, 19 and 24, mkd. on brass cap
	T 25 S in N half,
	R 22 E S 13 in NW.
	R 23 E S 18 in NE.
	S 19 in SE. and
	S 24 in SW. quadrant, from which
	A pinon pine, 8 ins. diam., bears N. 6°0'E., 115 lks. dist. mkd. T 25 S R 23 E S 18 B T.
	A pinon pine, 9 ins. diam., bears S. 15°E., 37 lks. dist. mkd. T 25 S R 23 E S 19 B T.
	A pinon pine 6 ins. dia., bears S. 56°30'W., 55 lks. dist. mkd. T 25 S R 22 E S 24 B T.
	A pinon pine 6 ins. diam., bears N. 11°W., 123 lks. dist. mkd. T 25 S R 22 E S 13 B T.
	Mountainous land, SW. slope.
	Soil, poor, gravelly loam 6 to 12 ins. deep, on sandstone

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
	coarse texture, and dry.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	October 27, 1911.
	October 28: At 8h 45m a.m., l.m.t., I set off 38°38' on the lat. arc. 12°52'S. on the decl. arc. and determine a meridian with the solar at cor. of secs. 13, 18, 19 and 24.
	Thence I run
	South bet. secs. 19 and 24.
	Over mountainous land, through heavy cedar and pinon pine timber and scattering sagebrush.
	Descend.
2.60	Bottom of canon 250 ft. below top, course N. 50°W.
	Ascend over ledges.
14.50	Top of ridge, 115 ft. above canon, bears NW. and SE.
	Descend.
26.50	Bottom of hollow, 60 ft. below ridge, course N. 30°W.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and surrounded by mound of stone for ¼ sec. cor. bet. secs. 19 and 24, mkd. on brass cap ¼ S 24 on W. and S. 19 on E. half, from which
	A pinon pine, 8 ins. dia., bears N. 20°30'W., 39 lks. dist. mkd. ¼ S 24 B T.
	A pinon pine, 10 ins. dia., bearsS. 40°30'E. 26 lks. dist. mkd. ¼ S 19 B T.
43.50	Top of ridge, 150 ft. above hollow, bears N. 60°W. and S. 60°E.
	Descend.
71.50	Bottom of hollow, 40 ft. below ridge, course N. 70°W.
	Ascend.
78.00	Top of spur, 60 ft. above hollow, bears E. and W.

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
	Descend.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground and surrounded by mound of stone for cor. of secs. 19, 24, 25 and 30, mkd. on brass cap T 25 S in N half, R 22 E S 24 in NW. R 23 E S 19 in NE. S 30 in SE., and S 25 in SW. quadrant, from which A pinon pine 6 ins. dia., bears N. 26°30'E., 22 lks. dist. mkd. T 25 S R 23 E S 19 B T. A pinon pine 9 ins. dia., bears S. 33°40'E., 39 lks. dist. mkd. T 25 S R 23 E S 30 B T. A pinon pine 6 ins. dia., bears S. 36°0'W., 41 lks. dist. mkd. T 25 S R 22 E S 25 B T. A pinon pine, 10 ins. diam., bears N. 61°0'W., 50 lks. dist. mkd. T 25 S R 22 E S 24 B T.
	Mountainous land, westerly slope.
	Soil, gravelly loam 6 to 12 ins. deep, on rock and gravel subsoil, dry.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	South bet. secs. 25 and 30.
	Over mountainous land, through heavy cedar and pinon pine timber; scattering sagebrush and grass.
	Descend.
1.50	Begin abrupt descent over ledges, bear E. and W.
3.60	Bottom of canyon, 100 ft. below top, drains SW. into "Nigger Bill" canyon.
	Ascend.
8.00	Top of ascent, edge of mesa, 125 ft. above canyon, bears N. 80°E. and S. 80°W.
	Oct. 28: At 11h 45m a.m., l.m.t., I set off 12°56'S. on the decl. arc. and observe the sun on the meridian

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
	at this point, the resulting lat. is 38°37'.
	Descend gently.
36.00	S. edge of mesa, bears E. and W.
	Descend over broken sandstone ledges, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground and surrounded by mound of stone for ¼ sec. cor. bet. secs. 30 and 25, mkd. on brass cap ¼ S 25 on W and S 30 on E half, from which
	A pinon pine 7 ins. diam., bears S. 32°0'E., 75 lks. dist. mkd. ¼ S 30 B T.
	A sandstone ledge, mkd. X B O S 25, bears S. 67°0'W., 22 lks. dist.
	Ascend gently.
54.70	Foot of vertical sandstone column, 150 lks. x 150 lks. base, 100 ft. high, impossible to surmount, therefore I offset 80 lks. E. to point, thence I run S. to point 3.30 chs. thence W. 80 lks. back to Tp. line at point.
58.00	NOTE: This sandstone column is a conspicuous land mark and may be seen for considerable distance.
	Descend gently.
59.50	Begin descent over small broken ledges, bears E. and W.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground and surrounded by mound of stone for cor. of secs. 25, 30, 31 and 36, marked on brass cap T 25 S in N half, R 22 E S 25 in NW. R 23 E S 30 in NE. S 31 in SE., and S 36 in SW. quadrant, from which
	A pinon pine, 6 ins. in diam., bears N. 16°0'E., 134 lks. dist. mkd. T 25 S R 23 E S 30 B T.
	A cedar, 6 ins. in diam., bearsS. 26°30'E., 35 lks. dist. mkd. T 25 S R 23 E S 31 B T.
	A pinon pine, 8 ins. diam., bears S. 47°0'W., 43 lks. dist. mkd. T 25 S R 22 E S 36 B T.

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
	A pinon pine, 8 ins. dia., bears N. 44°0'W., 118 lks. dist., mkd. T 25 S R 22 E S 25 B T.
	Mountainous land, southwesterly slope.
	Soil, gravelly loam 6 to 12 ins. deep on rock and gravel subsoil, dry.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	October 28, 1911.
	October 30: At 8h 45m a.m., l.m.t., I set off 38°36' on the lat. arc. 13°32'S. on the decl. arc. and determine a meridian at the cor. of secs. 25, 30, 31 and 36.
	Thence I run
	South bet. secs. 31 and 36.
	Over rough, mountainous land, through cedar and pinon pine timber and scattering sagebrush.
	Descend over broken sandstone ledges.
4.00	N. edge of "Nigger Bill" Canyon bears NE. and S. 80°W. at this point.
15.50	Bottom of "Nigger Bill" Canyon 200 ft. below edge, course W. at this point, but general course is N.westerly.
	NOTE: About 5 chs. E. a small branch canyon (box type) joins "Nigger Bill" Canyon from NE.
	Ascend abruptly over ledges, bear E. and W.
29.00	S. edge of "Nigger Bill" Canyon 200 ft. above bottom, bears E. and W. Ascend gently.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and mound of stone around post for ¼ sec. cor. bet. secs. 31 and 36, mkd. on brass cap ¼ S 36 on W and S 31 on E. half, from which
	A pinon pine, 8 ins. dia., bears S. 35°W., 65 lks. dist. mkd. ¼ S 36 B T.
	A cedar, 7 ins. diam., bears S.88°30'E., 95 lks. dist. mkd. ¼ S 31 B T.
	At 11h 44m a.m., l.m.t., I set off 13°35'S. on the decl.

EAST BOUNDARY OF T. 25 S., R. 22 E.

CHAINS	
	arc. and observe the sun on the meridian at this point, the resulting lat. is 38°36', which is very nearly the proper lat.
	Ascend.
57.50	Top of ridge, bears E. and W.
	Descend.
67.50	Bottom of hollow, 40 ft. deep, course N. 70°W.
	Ascend.
76.51	Telephone line bet. Moab and Mesa, bears E. and W.
80.00	Intersect 5th Standard Parallel South 37.50 chs. E. of old cor. of Tps. 25 and 26 S., Rs. 22 and 23 E.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for standard cor. of Tps. 25 S., Rs. 22 and 23 E., marked on brass cap T 25 S in N half, R 22 E S 36 in NW. and R 23 E S 31 in NE. quadrant, from which A cedar, 10 ins. dia., bears N. 45°19'E., 212 lks. dist. mkd. T 25 S R 23 E S 31 B T. A cedar, 12 ins. diam., bears N. 75°55'W., 83 lks. dist. mkd. T 25 S R 22 E S 36 B T.
	NOTE: Wagon road from Moab to Mesa bears E. and W. at point about 1 ch. S. of this cor.
	Little Spring is located about ¼ mile E. of this cor.
	Mountainous land, westerly slope.
	Soil, gravelly loam 6 to 18 ins. deep on rock and gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush and some blackbrush.
	October 30, 1911.

GENERAL DESCRIPTION.

With the exception of the N. 40.00 chs. bet. secs. 7 and

12, which is gently rolling land of good, sandy loam, 12 to 24 ins. deep on gravel subsoil, and is located in Little Castle Valley, the balance of this boundary South runs over mountainous land, very rough and much broken in places. The soil of this portion is a gravelly loam 6 to 12 ins. deep on sandstone in place coarse texture and very dry..

Cedar and pinon pine timber prevails over the mountainous portions, with undergrowth of scattering greasewood, sagebrush and some oose.

General drainage is southwesterly.

Eric H. Anderson
U.S. Transitman.

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Part of East and North Boundaries of T 25 S R 22 E.

Survey commenced ~~Sept.~~ Sept. 13, 1912, ,and executed with a Keuffel and Esser transit,No.20036,with solar attachment . The horizontal limb is provided with two double verniers placed opposite to each other , reading to ~~sing~~ single minutes of arc,which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City,found correct, and was approved by the surveyor general for Utah. Sept. 6,1912.

Sept.13,1912.

I examine the adjustments of the transit, and correct the level and collination errors;then, to test the solar apparatus,by comparing its indications, resulting from ~~sh~~ solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the standard corner of townships 25 south ranges 22 n and 23 east ;latitude 38°35'36''N. ,longitude 109°27'28'' W. which is an iron post, 3 ins. dia. 12 ins. a bove ground and marked and witnessed as described by the surveyor general.

At 8 h 3m p.m. l.m.t. ,I observe Polaris at eastern elongation ,in accordance with the manual of instruction, and mark a point in the line thus determined ,on a peg driven in the ground ,5 chs. N. of my station.

Sept. 13,1912.

Sept,14,1912. At 8h 30m a.m. l.m.t.,I lay off the ~~azim~~ azimuth of Polaris ,1°30' to the west, and markthe meridian thus determined by cutting a groove on a stone set firmly in the ground ,5 chs. N.of the Cor.

At 8 h 56 m a.m.l.m.t. ,I set off 38°36' N.on the lat. ~~ac~~ arc;3°24'N. on the decl. arc. and mark a point in the meridian determined with the solar ,by a cross on the sto stone already set 5 chs. N. of my station;this mark fals

0.3 ins. east of the meridian established by the Polaris observation.

At 3 h 00 m p.m.l.m.t. I set off 38°36' N. on the lat. arc; 3°18' N. on the decl. arc;and mark a point in the meridian determined with the solar ,by a cross on the sto stone already set 5 chs. N. of the cor. ,; this mark fall 0.3 ins. west of the meridian established by the Polaris observation.

The solar apparatus ,by a.m. and p.m. observations , defines positions for meridians ,about 0'16'' east and w west ,of the meridian established by the Polaris observations; therefore,I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian ,at 9 h 00 m.a a.m.is N16°30'W. ;the angle thus determined gives the magnetic declination 16°30'E.

Sept. 14,1912.

Sept. 17, 1912, At 8 h 55 m a.m.l.m.t.,I set off 38°40' on the lat. arc; 2°15'N.on the decl. arc;and determine a meridian with the solar at the cor. of secs. 1,6,7and 12 which is a sand stone 10 x 8 X6 ins. above ground ,firmly set, and marked and witnessed as described by the surveyo general.

Thence I run

North on retracement line bet. secs. 1 and 6.

40 00 Intersect 1/4 sec. cor. which is a sand stone 8 X 7 X 6 ins. above ground ,firmly set and marked and witnessed as described by the surveyor general.

80 00 Intersect cor. of Tps. 24 and 25 S Rs. 22 and 23 E. which is a sand stone greatly decayed marks nearly obliterated ; . I destroy all traces of the old cor. and reestablish it at the same point as follows :

Set an iron post, 3 ft. long , 3 ins. dia. 24 ins.in the ground for cor. of Tps. 24 and 25 S Rs. 22 and 23 E.

Chains. with brass cap marked

T 24 S
R 22 E | R 23 E
S 36 | S 31
S 1 | S 6
R 22 E | R 23 E
T 25 S
1912

raise a mound of stone 2 ft.base, 1½ ft.high S.of cor. Sept.17, 1912: At this cor.I set off 2° 12'N.on the decl. arc; and at 11h 55m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 41'

From cor.of Tps.24 and 25 S.Rs.22 and 23 E. I run West on a true line bet.secs.1 and 36,

Over broken mts.land, along steep S.slope;descend.

9.00 Draw, 250 ft.below cor.,drains S.20° W.

12.50 Spur 150 ft.above draw, projects S.10° W.

25.00 Draw, 200 ft.below spur, drains S.

36.00 Spur, 325 ft.above draw, projects S.25° W.

36.20 From this point Mathias Martin's house bears S.17°45'E.

NW.cor.of Corral bears S.12° E.

NW.Cor.of orchard bears S.12° 50'E.

NE.Cor.of cemetery bears S.0° 50'E.

39.00 Enter scattering cedar timber, bears N.and S.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked

¼
S 36

S 1
1912 ; from which

A cedar 8 ins.dia.bears N.46°E.30 lks.dist., marked ¼ S 36 B T

A cedar 6 ins.diam.bears S.40° E. 40 lks.dist., marked ¼ S 1 B T

71.00 Bottom of canyon 525 ft.below ¼ sec.cor., creek 12 lks. wide, 8 ins.deep, runs N.60° W. Leave timber bears N. and S.

75.20 Wood road, bears N.60° W. and S.60° E.

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the

Chains.

ground, for cor.of secs.1,2,35, and 36, with brass cap marked

T.24 S	R 22 E
S 35	S 36
S 2	S 1
T 25 S	R 22 E

1912

raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Land, mountainous.

Soil, gravelly and stony; 4th rate.

Timber, scrubby cedar, scattering.

Sept.17, 1912.

Sept.18, 1912: At 8h 54m a.m.l.m.t., I set off 38° 41' on the lat.arc; 1° 52'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.1,2,35, a and 36. Thence I run

West on a true line bet.secs.2 and 35,

Over broken mountainous land; ascend.

1.50 Wood road, bears S.80° W. and N.80°E.

1.60 Telephone line from John Wilcox' farm to Mat.Martin's farm, bearing N.80° W. and S.80° E.

2.50 Same road, bears N.60° W. and S.60° E.

23.25 Spur 150 ft.above sec.cor., projects N.10° E.

27.00 Draw, 100 ft.below spur, drains N.; also enter scattering cedar and pinon timber, bearing N.80°W.and S.80°E.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked,

¼
S 35
S 2
1912

from which

A cedar, 8 ins.diam., bears S 25° E.2.18 chs.dist., marked ¼ S 2 B T

A cedar, 6 ins.diam., bears N.65°W.1.56 chs.dist. marked ¼ S 35 B T

52.00 Top of rim rock 1300 ft.above sec.cor.bears N.40°W.and S. 40° E.

72.00 Head of draw, 150 ft.below rim rock,drains S.25°W.

North Boundary of T 25 S R 22 E

75 00 Enter high mesa bears N.30°E and S.30°W.

80 00 Setan iron post, 3 ft.long 1 in. in dia. 24 ins in the gro ground for cor. of secs. 2,3,34 and 35, with brass cap marked,

T 24 S	R 22 E
S 34	S 35
S 3	S 2
T 25 S	R 22 E

1912

from whic h.

A pinion 16 ins. diam. bears N. 12°40'E.5.60 chs. dist.

marked T 24 S R 22 E S 35 B T

A cedar 6 ins. diam. bears S.28°E.1.39 chs. dist.

marked T 25 S R 22 E S 2 B T

A cedar 6 ins. diam. bears S.49°10'W.3.20 chs. dist.,

marked T 25 S R 22 E S 3 B T

A cedar 16 ins. diam. bears N.58°55'W.6.82 chs. dist.

marked T 24 S R 22 E S 34 B T

Land ,mountainous,

Soil , stony and with gravel, 4 th. rate.

Timber scattering cedar and pinion.

Sept. 18,1912. At this cor. I set off 1°48'N. on the decl arc; and ,at 11 h 54 m l.m.t. observe the sun on the meridian the resulting lat. is 38.° 41'

West on a true line bet.secs. 3 and 34.

Over gently rolling mesa or plateau through scattering cedar and pinion timber.

40 00 Set an iron post, 3 ft. long , 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 34
S 3
1912

from which

A cedar 7 ins. diam. bears N.16°30'E.62 lks . dist.

marked 1/4 S 34 B T

A cedar 16 ins. diam. bears S 54°30'W.90 lks. dist.

marked 1/4 S.3 B T

North Boundary of T 25 S.R 22 E.

80 00 Set an iron post, 3ft.long, 3 ins. in dia. 24 ins. in a stone mound for cor. of secs. 3,4,33 and 34, with brass cap marked

T 24 S	R 22 E
S33	S 34
S 4	S 3
T 25 S	R 22 E

1912

from which

A cedar 10 ins. diam. bears N.22°E.2.05 chs. dist. marked T 24 S R 22 E S 34 B T

A cedar 8 ins. diam. bears S.45°E.2.97 chs. dist. marked T 25 S R 22 E S 3 B T

A pinion 8 ins. diam. bears S 31°30'W.3.55 chs. dist. marked T 25 S R 22 E S 4 B T

A cedar 12 ins. diam. bearsN. 40°12'W. 3.52 chs. dist. marked T 24 S R 22 E S 33 B T

Land , high mesa or plateau.

Soil, coarse poor sand underlayed with sand stone.

Timber scattering cedar and pinion.

West on a true line bet. secs. 4 and 33.

Over rolling mesa or plateau through scattering cedar and pinion timber.

21 00 Leave mesa or plateau descend gently bears N.and S.

40 00 Set an iron post ,3 ft.long,1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4	
S	33
S	4

1912

from which

A pinion 8 ins. diam. bears N.5°E.2.27 chs. dist. marked 1/4 S 33 B T

A pinion 6 ins. diam. bears S26°W.25 lks. diat. marked 1/4 S.4 B T

59 00 Leave scattering timber bears N.and S.

59.69 Top of ledges (Rim Rock) bears N. and S.

Note: It is impossible to chain farther on this line on account of percipitious ledges

therefore I erect a flag on line at this point and proceed to a point on line in canyon below ledges ,from which I measure a base S.outh10.chs. to a point from which flag on ledges bears N.55°03'E.: I calculate the distance over ledges as follows:

Tan. 55°03' X base or 1.43080 X 10. =14.31 which added to 59 69 chs. makes

74 00 Foot of ledges 800 ft. below rim rock bears N.and S.

75 00. County road Moab to Cisco bears N.and S.

76 00 To left bank of Grand River .

Set an iron post, 3 ft.long , 3 ins.in dia. 24 ins. in the ground for meander corner of fracl. Tps. 24 and 25 S.R.22 E. with brass cap marked

T 24 S R 22 E
M C S 33
S 4
T25 S R 22 E
1912

raise a mound of stone 3 ft. base 2 ft. high E.of cor.

Land, mesa and mountains.

Soil, on E.20.chs .sandy 4 th.rate on sand stone base .

W. 56. chs. almost solid sand stone.

Timber scrubby cedar and pinion.

Sept. 18,1912.

John W. Dougall
U.S. Surveyor

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Correction on E. Bdy. T.25 S.,R.22 E.

Chains

December 12, 1915.

The W.C. to cor. of secs. 7, 12, 13 and 18, is an iron post, 3 ins. dia., 12 ins. above ground firmly set in a mound of stones 2 ft. base, with brass cap mkd.

See E.b page

T 25 S
R 22 E | R 23 E
W | C
S 12 | S 7
S 13 | S 18
1911

the NW. and NE. trees are erroneously mkd. for secs. 12 and 7 respively. I re-mark these trees as follows:

A cedar, 4 ins. dia., bears N.52°E., 14 lks. dist., mkd. WC T 25 S R 23 E S 18 BT

A pinon, 8 ins. dia., bears N.30°W., 78 lks. dist., mkd. WC T 25 S R 22 E S 13 BT

Thos. C. Cathcart
U. S. Transitman

December 12, 1915.

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BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants for Eric H.Anderson, U.S.Transitman, see book "J" T.27 S., R.23 E.

For certificate of assistants for John W.Dougall, U.S.Surveyor, see book "N" T.26 S., R.21 E.

For certificate of assistants for Thos.C.Rathbone, U.S.Transitman, see book "M" T.26 S., R.22 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath Eric H.Anderson,U.S.Transitman see book "J"T.27 S.R.23 E
For final oath of John W.Dougall, U.S.Surveyor, see book "N"T.26 S.R.21E.
For final oath Thos.C.Rathbone,U.S.Transitman, see book "M" T.26 S.R.22 E

_____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed 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 U. S. 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.

_____
U. S. Surveyor.

Subscribed by said _____, and sworn to before me this _____ day of _____, 191

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 31, 1916.

The foregoing field notes of the resurvey ~~xx~~ and retracement of the east, and survey of the north boundaries of Township No.25 South, Range No.22 East of the Salt Lake Base and Meridian, Utah,

executed by Eric H.Anderson, John W.Dougall, and Thos.C.Rathbone under ~~xx~~ special instructions dated September 7, 1911 and supplemental special instructions dated Sept.9,1915, ~~191~~ , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys, and surveys they describe, are hereby approved.

C. O. Thoresen
U. S. Surveyor General.

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

_____
U. S. Surveyor General.

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Filed April 17, 1913.

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BOOK A-415

D.

FIELD NOTES

OF THE SURVEY OF THE

EAST BOUNDARY

OF

TOWNSHIP NO.25 SOUTH, RANGE NO.21 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

SCOTT P.STEWART

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* September 7, *191* 1, *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *191* 1, *pursuant to authority contained in the Act of Congress dated* ——, *191*—

Survey commenced October 25, *191* 1

Survey completed October 26, *191* 1.

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E.T. 1-73-3

BOOK A-415

INDEX DIAGRAM.

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EAST BOUNDARY T.25 S., R.21 E.

Chains.	
	Survey commenced October 25, 1911, and executed with a W.and L.E.Gurley explorer's transit, No.956, with solar attachment. The horizontal 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 latitude and declination arcs.
	The instrument was examined, tested on the meridian at Salt Lake City, Utah, found correct, and was approved by the surveyor-general for Utah, on April 22, 1911.
	Note: For complete test of instrument see notes of retracement of 5th standard parallel south, R.21 E.
	At the standard cor. of Tps.25 S., Rs.21 and 22 E., latitude 38° 35' 36"N.; longitude 109° 34' 07" W., I set off 38° 35'N.on the lat.arc; 11° 49'S.on the decl.arc, and at 7h 44m a.m.l.m.t., I determine a meridian with the solar. Thence I run
	North bet.secs:31 and 36,
	Descending, over mountainous land.
3.40	Head of hollow, 100 ft.below cor., course SE.
	Ascend abruptly over ledges.
9.00	Top of ridge, 200 ft.above hollow, bears N.80° W. and S.80° E. Desc.
12.60	Bottom of hollow, 30 ft.below ridge, course S.60° E.
	Ascend.
18.70	Top of steep ascent, bears N.80° W., and S.80° E.
	Ascend gently, through scattering undergrowth and a few scattering cedars.
36.50	Foot of sandstone ledge, bears N.50° W., and S.50° E.
37.00	Top of ledge, 50 ft.above foot, bears N.50° W., and S. 50° E. Top of ridge, bears same. Desc.
37.50	Hollow, 50 ft.below ridge, course SE.
	Ascend.
38.50	Old road, bears NW. and SE.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the

Chains.	
	ground, on solid rock, surrounded by a mound of stone, for ¼ sec.cor., marked on brass cap ¼ S 36 in W.half, and S 31 in E.half; from which
	A cedar, 6 ins.dia., bears S.41° E.70 lks.dist. marked ¼ S 31 B T
	A cedar, 6 ins.dia., bears N.3° W. 190 lks.dist. marked ¼ S 36 B T
	This corner refers to sec.36 only, as subsequently determined.
42.00	Old road, bears E.and W
45.00	Top of ledge, 50 ft.high, bears E.and W. Descend.
46.70	Old road, bears E.and W.
65.00	Ascend over ledges, bearing E.and W.
75.00	Top of a sandstone ledge, 80 ft.high, bearing E.and W.
	Top of ridge, 200 ft.above hollow, bears E.and W. Desc.
80.00	Falls on smooth rock, I mark a cross (X) at the exact cor.point, and at
79.75	Set an iron post, 3 ft.long, 3 ins.in dia., 12 ins.in the ground, on solid rock, surrounded by mound of stone for witness cor.to cor.of secs.25,30,31, and 36, mkd. on brass cap
	T 25 S in N.half,
	R 21 E S 25 in NW.
	W C R 22 E S 30 in NE.
	S 31 in SE., and
	S 36 in SW.quadrants; and raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor.
	Land, mountainous.
	Soil, sandy and rocky, 2d and 4th rates, 1 to 2 ft.deep.
	Subsoil, solid sandstone formation.
	Timber, very scattering cedar.
	Undergrowth, small scattering greasewood.
	Mountainous land 80.00 chs.
	October 25, 1911.

EAST BOUNDARY OF T.25 S., R.21 E.

Chains.	
	October 26, 1911: At 7h 44m a.m. l.m.t., I set off 38° 36'N.on the lat.arc; 12° 10'S.on the decl.arc; and determine a meridian with the solar at the point for cor. of secs.25,30,31, and 36, which is marked with a cross (X) on a ledge, the witness corner being 25 lks.S.of said corner point.
	Thence I run,
	North, bet.secs.25 and 30,
	Over mountainous land; through scattering timber and scattering undergrowth. Descending over smooth sandstone ledges and surfaces.
20.50	Foot of ledges, 75 ft.below cor., bears E.and W.
21.00	Wash, 10 lks.wide, 2 ft.deep, course S.60° E.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 25 in W. half and S 30 in E.half; from which
	A cedar, 6 ins.dia., bears N.54° E., 57 lks.dist. marked ¼ S 30 B T
	A cedar, 12 ins.dia., bears S.42° W., 45 lks. dist., marked ¼ S 25 B T
	This corner refers to sec.25 only, as subsequently determined.
42.00	Ascend over sandstone ledges, bearing N.40° W., and S.40° E.
45.00	Top of ridge, and ledges 40 ft.high, bearing NW. and SE.
	Descend over smooth sandstone; no vegetation.
55.00	Head of hollow, 30 ft.below ridge, course E.
	Ascend.
63.50	Top of sandstone ridge, 50 ft.above hollow, bears E. and W. Descend.
64.00	From this point a sandstone butte 50 x 30 ft.base, and 35 ft.high, bears W.2.00 chs.dist.
69.80	Edge of Grand River Canon, top of ledge, 300 ft.high, bears E.and W. Desc.abruptly over ledges.
72.00	Foot of ledges, bears E.and W.

EAST BOUNDARY OF T.25 S., R.21 E.

Chains.	
73.00	County road, bears E.and N.80° W.
73.36	Left bank of Grand River, 20 ft.high, bears N.70° W., and E.

Set an iron post, 3 ft.long, 3 ins.in dia., 26 ins.in the ground, for meander cor.of fracl.secs.25 and 30, mkd.on brass cap

M C in N.half,

T 25 S in S.half,

R 22 E S 30 in SE., and

R 21 E S 25 in SW.quadrants; from which

An oak, 5 ins.dia., bears S.42° E. 44 lks.dist. mkd. M C T 25 S R 22 E S 30 B T

The face of a sandstone ledge, 50 ft.high, bears S.40° W. 172 lks.dist., mkd.M C X B O S 25

Land, mountainous; very rough.

Very little soil, sandy on solid rock.

Timber, very scattering cedar and pinon pine.

Undergrowth, scattering greasewood and sagebrush.

Very little grass.

Mountainous land 73.36 chs.

Note: The sky was overcast at the noon hour and no observation was taken for latitude.

October 26, 1911.

BOUNDARIES OF T.25 S., R.21 E.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist. N.	Latitudes, N.	Latitudes, S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
South Boundary	S.89°55'W.	80.02	.....	.12	.....	80.02
	S.89°54'W.	80.04	.....	.14	.....	80.04
West Boundary	N. 0°02'W.	39.96	39.96	.....	.....	.02
W.bdy. sec. 35	N. 0°05'E.	40.14	40.14	.....	.06	.....
W.bdy. sec. 26	North	47.00	47.00	.....	.....	.....
Meanders sec. 26	N.72°00'E.	7.60	2.35	.....	7.23	.....
	S.89°30'E.	5.80	.....	.05	5.80	.....
	N.75°00'E.	6.50	1.68	.....	6.28	.....
	S.87°00'E.	5.00	.....	.26	4.99	.....
	N.83°00'E.	5.00	.61	.....	4.96	.....
	East	5.00	.....	.....	5.00	.....
	S.80°30'E.	4.80	.....	.79	4.73	.....
	S.71°30'E.	7.80	.....	2.48	7.40	.....
	S.66°30'E.	8.40	.....	3.35	7.70	.....
	S.74°00'E.	8.30	.....	2.29	7.98	.....
	East	13.50	.....	.....	13.50	.....
	N.59°15'E.	6.14	3.14	.....	5.28	.....
Meanders sec. 25	N.32°00'E.	26.60	22.56	.....	14.10	.....
	N. 0°15'E.	12.10	12.10	.....	.05	.....
Meanders sec. 24	N. 0°15'E.	17.60	17.60	.....	.08	.....
	N.28°30'E.	7.40	6.50	.....	3.53	.....
	N.58°00'E.	7.00	3.71	.....	5.94	.....
	East	3.10	.....	.....	3.10	.....
	S.76°45'E.	6.60	.....	1.51	6.42	.....
	S.51°30'E.	6.90	.....	4.30	5.40	.....
	S.44°15'E.	20.00	.....	14.33	13.96	.....
	S.53°30'E.	4.30	.....	2.56	3.46	.....
	S.42°00'E.	4.70	.....	3.49	3.15	.....
	S.51°00'E.	2.40	.....	1.51	1.87	.....
Meanders sec. 25	S.51°00'E.	1.00	.....	.63	.78	.....
	S.56°30'E.	4.10	.....	2.26	3.42	.....
	S.70°30'E.	9.40	.....	3.14	8.86	.....
	S.82°30'E.	3.80	.....	.50	3.77	.....
	S.86°30'E.	1.70	.....	.10	1.70	.....
E.bdy.	South	153.36	.....	153.36	.....	.....
Convergency					.06	
	Totals		197.35	197.17	160.56	160.08
			197.17		160.08	
Error in lat.			.18			
Error in dep.					.48	

For general description see notes of the subdivision of T.25 S., R.21 E.

Scott P. Stewart
U.S. Transitman.

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BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book"J" T.27 S., R.23 E.

of the ..... Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of Transitman see book "J" T.27 S., R.23 E.

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....

U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov.12 ....., 191 4.

The foregoing field notes of the survey of the East Boundary of Township No.25 South, Range No.21 East of the Salt Lake Base and Meridian, Utah

executed by Scott P.Stewart

under his special instructions dated September 7, 191 1 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

U. S. Surveyor General.

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

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U. S. Surveyor General.

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Filed April 17, 1912.

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BOOK A-415

E.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT AND RESURVEY

O F

SUBDIVISION AND MEANDERS

O F

TOWNSHIP NO.25 SOUTH, RANGE NO.21 EAST,

Of the Salt Lake Base and *Meridian,*

In the State of U t a h

EXECUTED BY

SCOTT P.STEWART

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* September 7 *191*1, *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *191*1, *pursuant to authority contained in the Act of Congress dated* ....., *191*..

Survey commenced October 27, *191*1

Survey completed November 2, *191*1.

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1-06-27

BOOK A-415

INDEX DIAGRAM.

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Retracement Su. T.25 S.,R.21 E.

Subvey commenced October 27,1911,and executed with a W. and L.E.Gurley Explorer's transit,No.956 ,with solar attachment.The horizontal 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 latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the Surveyor General for Utah,on April 22,1911.

Note:For complete test of instrument see notes of Retracement 5th Standard Parallel South,through range 21 E.

I examine the adjustments of the instrument and correct the level and collimation errors;at the cor. of secs. 35 and 36,on 5th Standard Parallel South.latitude 38°35' 36"N.,longitude 109°35'14"W.,I set off 38°36'N.,on the lat.arc;12°30'E.,on the decl.arc;and determine a meridian with the solar,at 7hh 44 m a.m.,l.m.t.,

Thence I run

North,on a retracement line bet.secs.35 and 36.

40.00 Find no trace of old ½ sec.cor.

79.96 Fall 70 lks.W.of the cor.of secs.25,26,35,and 36,which is a sandstone,10x12x8 ins.above ground,loosely set and indistinctly mkd.;witnessed as described by the surveyor general.

I destroy this old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for cor.of secs.25,26,35,and 36,mkd.on brass cap

T 25 S S 26 in NW.

R 21 E S 25 in NE.

S 36 in SE.;and

S 35 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Note:From this cor.the ruins of the old Mormon Fort bears S.28°30'W.

Retracement and Re-survey Sub.T.25 S.,R.21 E.-Continued.

Chains	
	The northwest corner of the Cooper and Martin Store in Moab bears S.20°20'E.,
	The Spire on the Central School house bears S.29°50'E.
	Thence I run S.0°30'W.,on a re-survey line bet.secs. 35 and 36.
	Over mountainous land;through ledges.
	Desc.
8.60	Bottom of hollow,250 ft.below cor.,course N.60°W.
9.70	Top of ridge,40 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.
12.50	Bottom of hollow,80 ft.below ridge,course N.W.
	Asc.
15.00	Top of ridge,100 ft.above hollow,bears N.60°W.and SE.
	Note:From this point John E.Brown's house bears N.58°30'W.,
	Desc.
24.60	Telephone line Moab to Thompson's,bears N.30°W.and S.30°E.
25.60	Foot of Mountain,enter valley,bears N.30°W.and S.30°E.
26.80	Enter County road,bears N.30°W.and S.0°30'W.
	Thence along county road.
36.15	Water ditch,5 lks.wide,2 ft.deep,course W.
39.98	Find no trace of old cor.
	This cor.falls in center of County road where there is a great deal of traffic ;therefore I set two witness corners as follows:
	At a point 50 lks.East of the cor.point I
	Set an iron post,3 ft.long,1 in.in the dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,mkd.on brass cap T 25 S R 21 E in N half.W C ¼ S 35 in W half and S 36 in E half;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist. and raise a mound of earth,3½ ft.base,1½ ft.high,W.of cor.
	Also at a point 50 lks.West of the cor.point,I
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor..mkd.on brass cap T 25 S R 21 E in N half.W C.¼ S 35 in W half and S 36 in E. half;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist.

Retracement and resurvey Sub.T.25 S.,R.21 E.-Continued.

Chains	
	and raise a mound of earth,3½ ft.base,1½ ft.high,W.of cor.
55.50	Irrigation ditch,5 lks.wide,2 ft.deep,course W.
79.96	The re-established Standard cor.of secs.35 and 36.
	Land,mountainous and level.
	Soil,sandy and rocky;2nd and 3rd rate.sandy in valley.
	No timber .
	Mountainous land,25.60 chs.
	October 27,1911:At this cor.I set off 12°35'S.,on the decl.arc;and at 11 h 44 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°36'N.,which is the proper lat.nearly.

	East,on a retracement line bet.secs.25 and 36.
	Over mountainous land;through very scattering timber and scattering undergrowth.
	Asc.over ledges.
1.70	Top of abrupt ascent and ledges,35 ft.above cor.,bears NW.and SE.
18.75	Top of ledge 80 ft.high,bears NW and SE.
29.80	Top of ridge,and ledge,100 ft.high,250 ft.above cor., bears NW and SE.
	Desc.
33.30	Gully in solid sandstone 30 ft.deep,course SE.
	Asc.
38.00	Top of ridge,50 ft.above gully,bears NW and SE.
	Desc.
40.00	Find no trace of old cor.
	Therefore after searching diligently for the old cor. I set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,for re-established ¼ sec.cor.mkd.on brass cap ¼ S 25 in N half and S 36 in S half;from which
	A cedar,8 ins.dia.,bears N.14°30'W. 69.lks. dist..mkd.¼ S 25 B T.'
	A cedar,8 ins.dia.,bears S.21°40'W.,70 lks.

Retracement and Re-survey Sub.T.25 S.,R.21 E.-Continued.

Chains

dist..mkd.¼ S 36 B T.

Note:A natural bridge or arch (plainly visable from this point)bears N.9°36'E.,about 4 miles dist.

Land mountainous ,very rough .

Soil,sandy and rocky and very shallow;underlaid with solid sandstone.

Timber,scattering cedar and pinon pine.

Undergrowth,sage brush and shadscales.

Very little grass.

Mountainous land,40.00 chs.

From the ¼ sec.cor.bet.secs.25 and 36 just re-established I run

N.89°55'E.,on a random line bet.the east halves of secs. 25 and 36.

39.43 Intersect E.bdy.of Tp.,1 lk.S.of the point for cor.of secs. 25,30,31,and 36,which is 25 lks.N.of the witness cor. heretofore described. Thence I run

S.89°54'W.,on a true line bet.secs.25 and 36(E half.)

Over smooth sandstone surfaces with very little soil, through scattering timber and undergrowth.

Asc.

32.30 Top of ridge,100 ft.above cor.,bears NW and SE.

Desc.

35.30 Bottom of hollow,75 ft.below ridge,course SE.

Asc.

39.43 The ¼ sec.cor.bet.secs.25 and 36.

Land,mountainous .

Soil,shallow sandy loam.on solid sandstone .

Timber,cedar and pinon pine very scattering .

Undergrowth,sage brush and shadscales.

Very little grass.

Mountainous land,39.43 chs.

October 27,1911.

Sub.T.25 S.,R.21 E.-Continued.

Chains	
	October 28,1911,At 7 h 44 m a.m.,l.m.t. i set off 37° 36'N.,on the lat.arc;12°50'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.25,26, 35,and 36.
	Note:As the line north from this cor.appears to have never been run,therefore I run North,bears bet.secs.25 and 26 on re-rurvey line bet.secs 25 and 26.
	Over mountainous land;through scattering timber and scattering undergrowth.
	Asc.over ledges.
1.00	Top of ledge20 ft.above cor.,bears N.20°W.and E.
17.75	Top of Ledge,60 ft.high,bears N.50°W.and S.50°E.
19.80	Top of smooth ledge,50 ft.high,bears N.50°W.and S.50°E.
21.80	Top of smooth sandstone ledge and ridge,400 ft.above sec.cor.,bears N.56°W.,and S.56°E.
	Desc. over smooth sandstone surfaces.
27.10	Head of hollow in solid rock,50 ft.below ridge,course N.50°W.
	Asc.gently.
35.80	South rim of Grand River canon,bears E.and W.
	Ledge 300 ft.high,bears E.and W.
	Desc.abruptly over ledges.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for for ¼ sec.cor..mkd.on brass cap ¼ S 26 in W half and S 25 in E half;and raise a mound of stone,2 ft.base,1½ ft. high,W.of cor.
	Note:Cor.250 ft.below rim of canon,on steep side hill. Diligent search was made for this cor.which was supposed to have been set,but topography and other conditions on the ground show that the line never was run.
	October 28,1911:At this cor.I set off 12°55'S.,on the decl.arc;and at 11 h 44 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°37'N.?which is the proper lat.nearly.

Sub.T.25 S.,R.21 E.-Continued.

Chains

Continue steep descent over ledges.

45.38 Left bank of Grand River,10 ft.high and rocky,bears N.30°E.and S.60°W. Depth of water 4 ft.and width 600 ft. Set an iron post,3 ft.long,1 ins.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for meander cor. of fracl.secs.25 and 26,mkd.on brass cap

T 25 S R 21 E in S half;

M C S 25 in SE.;and

S 26 in SW.quadrants;from which

A hanging ledge 40 ft.high,hanging over this cor.and the County road,bears N.58°E.,14 lks. dist..mkd.M C X B O S 25

The same ledge,bears S.14°15'W.,6 lks.dist. mkd.M C X B O S 26

Land,mountainous . very rough

Soil, sandy loam about 6 ins.deep,on solid sandstone formation.

Timber,a very few scattering cedar and pinon pine.

Undergrowth,shadscale and sage brush very small and scattering .

Very little grass.

Mountainous land,45.38 chs.

October 28,1911.

October 30,1911:At 7 h 44 m a.m.,l.m.t.,I set off 38°37' N.,on the lat.arc;13°30'S.,on the decl.arc;and determine a meridian with the solar,at the meander cor.of sec s. 25 and 26.

Note:It is evident that a portion of the line bet.secs. 24 and 25 is on the south side of Grand river therefore to run said line I proceed as follows:

From the above described cor.I run

East ,on offset line bet.secs.25 and 24.

Over mountainous land;asc over ledges.

Sub.T.25 S.,R.21 E.-Continued.

Chains	
14.15	Thence offset as follows:
	North 34.62 chs. At 16.00 chs.foot of ledges,bears N. 20°E.and SW.
	At 17.00 County road,bears N.20°E.and SW.
	At 34.62 chs.which added to 45.38 chs. makes 80.00 chs.a point on line bet. secs.24 and 25 and 14.15 Chs.east of the point for cor.of secs.23,24,25,and 26, which makes
14.15	From west cor.point .
	Left bank of Grand river,10 ft.high,bears N.0°15'E.and S.0°15'W. River is about 600 ft.wide and about 4 ft. deep.Sluggish current.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for meander cor.of fracl.secs.24 and 25,mkd.on brass cap
	T 25 S R 21 E in N half.
	S 26 in NE.
	M C S 25 in SE.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	Thence I run
	East,on true line bet.secs.24 and 25.
	Over mountainous land,through scattering undergrowth. asc.
1.50	Countyroad,bears N.and S.
7.50	Enter scattering cedars ,bears N.and S.
	Top of ledge,40 ft.high,bears N.30°E.and S.30°W.
11.00	Wash,30 ft.deep,100 lks.wide,course N.60°W.
12.35	Old road,bears N.20°W.and S.30°E.
17.00	Foot of sloping sandstone ledge,bears N.and S.10°E.
18.17	Foot of ledge, ,which is 32.32 chs.East of the point for cor.of secs.23,24,25,and 26.
	As the ¼ sec.cor.point will fall on sloping ledges where it will be impossible to perpetuate the cor. I
	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone,

Chains for witness cor.to ¼ sec.cor.mkd.on brass cap T 25 S R 21 E W C ¼ S 24 in N half. and S 25 in S half;from which

A sloping sandstone ledge,50 ft.high,bears N.32° 50'E.,20 lks.dist..mkd.X B O W C S 24

The same ledge,bears S.10°15'E.,18 lks.dist. mkd.W C X B O S 25

Asc.abruptly over ledges.

25.85 Making 40.00 chs.from west sec.line ,point for ¼ sec.cor.

Falls on smooth ledge where it is inaccessable.

26.50 Top of smooth sandstone ridge,400 ft.above meander cor., bears N.20°W.and S.20°E.

Desc.abruptly over ledges.

32.00 Begin more abrupt descent over ledges,bears N.30°W.and SE.

38.00 Foot of ledges,bears N.30°W.and SE.

Continue abrupt descent.

46.70 County road,bears N.50°W.and S.50°E.

46.84 Making 60.99 chs.from sec.line.

Foot of descent,and Left bank of Grand river ,20 ft.high bears N.50°W.and S.50°E.

Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for meander cor.of fracl.secs.24 and 25,mkd.on brass cap

T 25 S R 21 E in N half.

S 24 in NW.;and

M C S 25 in SW.quadrants;from which

A ledge,8 ft.high,bears S.12°30'E.,5 lks. dist..mkd.M C X B O.S 25 .

A ledge,20 ft.high,bears N.67°W.,13 lks.dist. mkd. M C X B O S 24.

Land mountainous very rough .

Soil,sandy and smooth sandstone surfaces.

Timber,cedar.

Undergrowth,sage .

Good grass in patches.

Mountainous land,46.84 chs.

October 30,1911.

Retracement Sub.T.25 S.,R.21 E.-Continued.

Chains	
	October 31,1911:At 7 h 44 m a.m.,.l.m.t.,I set off 38° 36'N.,on the lat.arc;13°50'S.,on the decl.arc.and determine a meridian with the solar,at the Standard cor.of secs.34,and 35,on S.bdy.of Tp., heretofore described.
	Thence I run
	North ,on a retracement line bet.secs.34 and 35
	Over level land;
.75	E and W fence,also fence running N.0°02'W.
	Thence over meadow along fence.
39.96	Fence Bears E.and W.
	Fall 2 lks.E.of the intersection of fences,which is the point for the old ¼ sec.cor.,according to the information from old settlers.No cor.can be found;therefore at the intersection of these two old fences I
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in W half and S 35 in E half;from which
	A cottonwood,24 ins.dia.,bears S.6°45'E.,368 lks. dist..mkd.¼ S 35 B T.
	A cottonwood,24 ins.dia.,bears S.56°30'W.,190 lks. dist..mkd.¼ S 34 B T.
51.70	Indications of old road,bears N.70°W.and S.70°E.
58.60	Fence ,bears E.and W.
	The north and south fence does not extend north of this point.
80.10	Fall 4 lks.West of the point for cor.of secs.26,27,34,and 35,as evidenced by old pits and mound,but the stone could not be found,and has undoubtedly been carried away.This point is also identified as the original cor. by old settlers.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for re-established cor.of secs.26;27,34,and 35, mkd.on brass cap
	T 25 S S 27 in NW.
	R 21 E S 26 in NE.
	S 35 in SE.;and

Sub:T.25 S.,R.21 E.

Chains	
	S 34 in SW.quadrants;dig pits,18x18x12 ins.,in each sec.5½ ft.dist.;and raise a mound of earth, 4 ft.base,2 ft.high,W.of cor.
	Note:The old Mormon Fort Ruins,bears S.66°E.
	The course of the south half of this mile is N.0°02'W., 39.96 chs.the north half is N.0°05'E.,40.14 chs.
	Land level.
	Soil,clay loam.
	No timber.
	October 31,1911:At this cor.I set off 13°55'S.,on the decl.arc;and at 11 h 44 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°36'N.,which is the proper lat.nearly.
	October 31,1911:At 1 h 44 m p.m.,l.m.t.,I set off 38° 36'N.,on the lat.arc.13°57'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.26,27,34, and 35.
	Thence I run
	East,on a retracement line bet.secs.26 and 35.
40.00	Find no trace of old ¼ sec.cor. Set temp.¼ sec.cor.
80.72	Intersect N.and S.line,5 lks.S.of the cor.of secs.25,26, 35,and 36,
	Thence I run
	S.89°58'W.,on a re-survey line bet.secs.26 and 35.
	Over mountainous land;through ledges.
	Desc.
.90	Begin more abrupt descent, bears N.and S.
4.06	Note:From this point the NE corner of John E.Brown's house bears S.52°50'W.
	The head of a spring bears S.4°E.about 7.00 chs.dist. flowing about one twentieth cubic feet per second and good water.
	The NE corner of barn,bears S.67°40'W.about 12.00 chs. dist.

Re-survey Sub.T.25 S.,R.21 E.-Continued.

Chains	
11.50	Bottom of hollow,250 ft.below cor.,course SW.
	Leave ledges,bears NE and SW.
	Asc.
14.00	Top of ridge,40 ft.above hollow,bears NE and SW.
	Desc.
14.00	Fence,bears NE and SW.
18.10	Corral fence,bears N.60°E.and S.60°W.
18.70	Corral fencembears N.20°W.and S.20°E.
19.45	Corral fence,bears N.60°E.and S.60°W.
21.15	Corral fence,bears N.52°W.and S.52°E.
	East side of County road,bears N.52°W.and S.52°E.
21.30	Telephome line,Moab to Thompson's.,bears N.52°W.and S.52° E.Foot of descent,enter valley,bears same.
22.15	Water ditch,10 lks.wide,2 ft.deep,course N.52°W.
22.30	Fence,bears N.52°W.and S.52°E.,on west side of County road. Enter cultivated land.
22.75	North fence of Orchard,bears NE and SW.
26.80	Field road,bears NE and SW.
38.70	Fence,bears N.80°E.and S.80°W.
39.63	Even with fence running to the south.
40.36	Find notrace of the old ¼ sec.cor.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for re-established ¼ sec.cor.mkd.on brass cap ¼ S 26 in N half and S 35 in S half;dig pits,18x18x12 in.E.and W.of post,3 ft.dist;and raise a mound of earth,3½ ft.base,1½ ft.high,N.of cor.
	Thence along fence with cultivated land on the north and meadow land on the south.
59.90	Fence,bears N.and E. Enter meadow,bears E.and S.
77.60	Old road, bears N.10°E.and S.10°W.
80.72	The cor.of secs.26,27,34,and 35.
	aE.21.30 chains rough and mountainous.rocky.
	W.59.42 chs.level valley,rich clay soil.
	No timber No undergrowth.
	Mountainous land,21.30 chs.

Retracement Sub.T,25 S.,R.21 E.-Continued.

Chains	
	West,on a retracement line bet.secs.27 and 34.
	Over level meadow.
2.90	Old road,bears NE and S.30°W.
11.20	Enter scattering cottonwood timber,bears N.and S.
31.50	Left bank of Grand River,10 ft.high,sandy bank .
	No trace of the old Meander cor. can be found;therefore at this point I
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the groundk for Meander cor.of fracl.secs.27 and 34,mkd.on brass cap
	T 25 S R 21 E in N half.
	S 27 in NE.;and
	M C S 34 in SE.quadrants;from which
	A cottonwood,12 ins.dia.,bears N.26°30'E.,176 lks. dist..mkd.M C T 25 S R 21 E S 27 B T.
	A cottonwood,18 ins.dia.,bears S.60°15'E.,262 lks. dist..mkd. M C T 25 S R 21 E S 34 B T.
	Land,level .
	Soil,sandy and clay loam;2nd rate.
	Timber,scattering cottonwoods.
	October 31,1911.

November 1,1911:At 7 h 44 m a.m.,l.m.t.,I set off 38°36'N., on the lat.arc;14°10'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.26,27,34,and 35.

Thence I run

	North ,on a retracement line bet.secs.26 and 27.
	Over level meadow.
3.00	Old road,bears N.80°E.and SW.
5.70	Road,bears NE and SW.

Retracement Sub.T.25 S.,R.21 E.-Continued.

Chains

11.00 Fence ,bears N.81°E.and S.81°W.

Leave meadow and enter cultivated land,bears same.

40.00 Find notrace of old ¼ sec.cor.

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in W half and S 26 in E half;from which

A cottonwood,24 ins.dia.,bears N.15°30'E.,422 lks. dist..mkd.¼ S 26 B T.

A cottonwood,30 ins.dia.,bears N.4°12'W.,648 lks. dist..mkd.¼ S 27 B T.

46.50 Row of cottonwood trees,bears E.and W.

Leave cultivated land,bears E.and W. Enter dense willows.

46.60 Water ditch,5 lks.wide,2 ft.deep,course W.

47.00 Left bank of Grand river 10 ft.high,sandy bank,

No trace of the old Meander cor.can be found after diligent search.

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for meander cor.of fracl.secs.26 and 27,mkd.on brass cap

T.25 S.,R.21 E in S.half.

S 27 in SW.and

M C S 26 in SE.quadrants;from which

A cottonwood,42 ins.dia.,bears S.21°15'E.,50 lks. dist..mkd.T 25 S R 21 E M C S 26 B T.

A cottonwood,18 ins.dia.,bears S.25°W.,66 lks. dist..mkd.T 25 S R 21 E M C S 27 B T.

Land,level.

Soil,sandy and clay.

Timber cottonwood.

Undergrowth,willows.

November 1,1911:At the noon hour the sky is overcast and solar observations are impossible.

Meanders in T.25 S.,R.21. E.

Meanders of Left Bank of Grand River ,up stream.

From the meander cor.of fracl.secs.26 and 27.

I run with meanders in sec.26.

Level land;through dense willows.

N.72°E.,7.60 chs. At 7.40 chs.wire fence,bears S.5°E.
At 7.60 chs.Bank 8 ft.high.

S.89°30'E. 5.80 chs. Bank 8 ft.high.Icehouse bears S.8 lks.

N.75°E. 6.50 chs. Sandy bank 8 ft.high,

S.87°E. 5.00 chs. At 2.30 chs.the Center of the south abutment of the steel bridge in course of construction;the bridge has two piers in midstream,with a total span of 602 ft.
At 5.00 chs.The center of North abutment of bridge,bears N.22°45'W.The north end of cable of the ferry now in operation,bears N.9°40'E.,about 10.50 chs.dist.The northeast cor .of a small stone house bears S.80°30'W. 5.17 chs.dist.

N.83°E. 5.00 chs. At 1.00 chs.County road to Ferry,bears NE and SW.
At 2.85 chs.South end of Ferry cable.
At 5.00 chs.Rocky bank 16 ft.high.

East 5.00 chs. At 3.00 chs.County road,bears S.80°W. and S.88°E.
At 5.00 chs.Rocky bank 15 ft.high.

S.80°30'E. 4.80 chs.Along north side of County road.

S.71°30'E. 7.80 chs. Bank 10 ft.high.

Thence along edge of County road.

S.66°30'E. 8.40 chs.

S.74°E. 8.30 chs.Rocky bank 12 ft.high.

East 13.50 chs. At 1.00 chs.Center of road.thence along road.
At 13.50 Rocky bank 15 ft.high.
South side of road.

Meanders in T.25 S.,R.21 E.-Continued.

Chains

Meanders of the left bank of Grand river,up stream.

N.59°15'E. 6.14 chs. To Meander cor.of fracl.secs.25 and 26.

Land,nearly level.

Soil,sandy and rocky.

Undergrowth,willows.

A few scattering cottonwoods.

November 1,1911.

November 2,1911:At 7 h 44 m a.m.,l.m.t.,I set off 38°37' N.,on the lat.arc;.4°29'E.,on the decl.arc;and determine a meridia with the solatmat the meander cor.of fracl. secs.25 and 26.

Thence I run with meanders in sec.25.

Over level land; through dense willows and scattering cottonwood timber.

N.32°E.,26.60 chs. At .60 chs.County road,bears N.50°E.and S.50°W.

At 3.90 chs.Leave willows,bears NE and SW.

Thence along sandy bank.

At 16.00 chs.Leave sandy and thence along rocky bank.

At 19.20 chs.Ledge,20 ft.high,bears NW and SE.

At 25.85 chs.Gravel chute,on line.

At 26.60 chs.Top of red sand ledge 40 ft.above river.

N.0°15'E. 12.10 chs.At 1.60 chs.Foot of ledge,40 ft.high

Thence along sandy bank.

At 9.40 Enter dense willows,bears NW and SE.

At 12.10 chs.The meander cor.of fracl. secs.24 and 25.

Meanders in T.25 S.,R.21 E.-Continued.

Meanders of left Bank of Grand River,up stream.

Land,nearly level

Soil,sandy and rocky.;2nd rate.

Timber, a few scattering cottonwoods.

Undergrowth,willows.

Land covered with dense undergrowth,6.60 chs.

November 2,1911:At the noon hour the sky is overcast and solar observations are impossible.

Thence with meanders in sec.24.

Over almost level bank ;through dense undergrowth.

N.0°15'E. 17.60 chs. Sloping sandy bank 10 ft.high.

N.28°30'E. 7.40 chs.At 3.90 chs.Wash,10 lks.wide,3 ft. deep,course NW.

At 7.40 chs.Steep earth bank 8 ft.high.

N.58°E.,7.00 chs.Sloping sandy bank 8 ft.high.

East 3.10 chs. Sloping sandy bank 8 ft.high.

S.76°45'E. 6.60 chs. Steep earth bank 8 ft.high.

S.51°30'E.,6.90 chs. Sloping sandy bank 6 ft.high,

Thence along east side of County road.

S.44°15'E.,20 .00 chs.Rocky bank 8 ft.high.

S.53°30'E.,4.30 chs.Rocky bank 8 ft.high.

S.42°E.,4.70 chs.Rocky bank 6 ft.high.

S.51°E.,2.40 chs.To Meander cor.of fracl.secs.24 and 25.

Land,nearly level.

Soil,sandy and rocky.2nd and 3rd rate .

Undergrowth,oak,willows,and sage brush.

No timber.

Thence with meanders in sec.25.

Through dense undergrowth.

S.51°E.,1.00 chs. Bank 10 ft.high.

Meanders in T.25 S.,R.21 E.-Continued.

Chains

S.56°30'E.,4.10 chs.Rocky bank 8 ft.high.

S.70°30'E.,9.40 chs.Rocky bank 20 ft.high.

S.82°30'E.,3.80 chs.Sloping sandy bank 20 ft.high.

S.86°30'E. 1.70 chs.To meander cor.of frac. secs. 25 and 30 on East bdy.of Tp..

Land nearly level.

Soil,sandy and rocky.

Undergrowth,oak and willows.

No timber.

November 2,1911.

Scott P. Stewart
U.S.Transitman.

General Description.

The valley land in this township is all patented ground and is improved in general to a high state of cultivation. The only unpatented land is in secs.24,25,26,and 36; and the a very rough mountainous country composed largely of smooth sandstone surfaces with very little soil for the most part and is therefore covered with a scanty growth of timber and undergrowth..The undergrowth is mostly sage brush and shadscale and the timber scrub cedar and pinon pine.;while along the bank of the Grand river the undergrowth is oak and willows. There are no settlers in the newly surveyed portion of the township;and no indications of mineral or oil.

Scott P. Stewart.
U.S.Transitman.

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BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "J" T.27 S., R.23 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2761

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of Transitman see book "J" T.27 S., R.21 E.

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov.12, 1914.

The foregoing field notes of the ~~xxxxxxx~~ retracement and resurvey of the Subdivisional and Meander lines of Township No.25 South, Range No.21 East, of the Salt Lake Base and Meridian, Utah

executed by Scott P.Stewart under his special instructions dated September 7, 191 1, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and re-surveys they describe, are hereby approved.

.....
~~*U. S. Surveyor General.*~~

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

.....
U. S. Surveyor General.

6—2761

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Filed: March 23, 1916.

4—679

March 4, 1916.

BOOK A-415

F.

H.E.V.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT AND SURVEY OF EAST AND NORTH

AND

SURVEY OF THE SOUTH AND WEST

BOUNDARIES

O F

TOWNSHIP NO.27 SOUTH, RANGE NO.22 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

SCOTT P.STEWART, ERIC H.ANDERSON, AND

THOMAS C. RATHBONE,

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* Sept. 7, *191*1, and supplemental special instructions dated September 9, 1915, *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *191*1 and September 18, 1915, respectively *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced November 3, *191*1

Survey completed December 11, *191*5.

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BOOK A-415

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Retracement of East boundary of T27S R22E.

Survey commenced November 3, 1911. and executed with a W&L.E. Gurley explorers transit No 956, the horizontal limb being provided with two opposite verniers, reading to 30" of arc.

At the old established cor. of Tps 26 and 27S Rs 22 and 23E which is a sandstone 12 x 10 x 8 ins, firmly set, marked and witnessed as described by surveyor general: in latitude 38°30'23" N, longitude 109°28'21" W: At 4h 39. m a.m. Lmt. I observe Polaris at western elongation in accordance with instructions in the manual and mark the line thus determined by a mark on a peg driven in the ground 5 chs. N of my station.

At 8h 0m a.m. I lay off the azimuth of Polaris 1°29' to the East and mark the meridian thus determined on a peg set 5 chs. N. of my sta.

November 4, I begin at cor. of Tps 26 and 27S. Rs 22 and 23E. I destroy old stone cor. and in place thereof Set an iron post 3 ft. long, 3 ins. diam 24 ins. in the ground for cor. of Tps 26 and 27S. Rs 22 and 23E mkd on brass cap. T 26 S in N., and T 27 S in S. half,

R 22 E S 36 in NW.
R 23 E S 31 in NE,
R 23 E S 6 in SE, and
R 22 E S 1 in SW, quadrants

raise a mound of stone 2½ ft. base; 2 ft. high S. of Cor.

At 8h 44m a.m. Lmt. I set off 38°30' on the lat. arc; 15° 9' S on the decl. arc and determine a meridian with the solar at this cor; This meridian I find, coincides with the one established by Polaris observation; The mag. decl. is 16°10' E

Note, The SW cor. of the old Higgins house

Retracement of East boundary of T 27 S R 22 E

Chains	bears N 86°19' W
	A new frame house, bears N 48°9' W about 3 miles dist.
	The most prominent peak in La Sal mountains bears S 70°18' E
	Thence from Tp. cor. already described I retrace
	South on E bdy. of Tp bet. secs 1 and 6
	Over nearly level land, through greasewood and sagebrush
1.05	Wash 5 lks. wide 2 ft. deep course N 30° W
3.70	Old road bears NW and SE
12.10	Old road bears NW and SE
40.13	Fall 3½ lks. E of 1/4 sec cor, bet secs 1 and 6 which is a sandstone mkd and witnessed as described by surveyor general.
	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground, in place of stone for 1/4 sec. cor bet. secs. 1 and 6
	Marked on brass cap 1/4 S 1 on W. and S 6 on E. half; raise a mound of stone 2 ft. base, 1½ ft. high W of cor.
	This cor. will hereafter refer to sec. 6 only
57.00	Wash 10 lks. wide 2 ft. deep, course NW
57.10	Trail bears N 30° E and S 30° W
64.90	Ditch 10 lks. wide 2 ft. deep course N 50° W
73.60	Road from Moab to sawmill in La Sal mountains bears N 38° W and S 38° E
80.28	Fall 7 lks. E of cor of secs 1, 6, 7 and 12 which is a sandstone firmly set mkd and witnessed as described by surveyor general; therefore the E bdy of Sec. 1 bears S 0° 3' W 80.28 chs.
	Set an iron post 3 ft. long, 3 ins. in dia 24 ins. in the ground, in place of stone for cor of secs 1, 6, 7 and 12 marked on brass cap; T 27 S in N half R 22 E S 1 in NW. R 23 E S 6 in NE., S 7 in SE., and

Retracement of East boundary of T27S R22E.

Chains	
	S 12 in S W., quadrant, raise a mound of stone 2½ ft. base 2 ft. high W of cor.
Nov. 4:	At 11h 44m am. lmt. I set off 15° 11' S on the decl. arc and observe the sun on the meridian at this cor.; the resulting lat is 38° 29' nearly. Nearly level land; N. westerly slope; soil, sandy loam with some gravel 18 to 36 ins. deep on gravel subsoil; fairly moist and medium texture; good growth of short greasewood and sagebrush. No timber.
	I retrace South on E. bdy of Tp. bet secs 7 and 12 Over almost level land through greasewood and sagebrush.
23.20	Wash 10 lks. wide 5 ft. deep course N W.
38.70	Wash 10 lks. wide, 3 ft. deep course N W
40.18	Fall 3½ lks E of ¼ sec. cor. which is a sandstone firmly set marked and witnessed as described by sur. gen. Set an iron post 3 ft. long, 1 in in dia 26 ins. in the ground, in place of stone, for ¼ sec cor bet secs 7 and 12 Marked on brass cap ¼ S 12 on W., and S 7 on E. half; raise a mound of stone, 2 ft. base 1½ ft. high W of cor. This cor. will hereafter refer to sec. 7 only.
Nov. 4:	At 3h 19m pm. lmt. I set off 38° 29' on the lat. arc; 15° 13' S on the decl. arc and determine a meridian with the solar at this cor
56.50	Wash 20 lks. wide, 5 ft. deep course N 80° W
63.20	Wash 50 lks. wide 3 ft. deep course N 80° W

Retracement of East boundary of T27S R22E

Inches

80.34 Fall 7 lks. E. of cor. of secs 7, 12, 13 and 18 which is a sandstone mkd and witnessed as described by surveyor general; therefore the E bdy of sec 12 bears S0°3'W 80.34 chs.
Set an iron post 3 ft. long, 3 ins. diam 24 ins. in the ground, in place of stone for. cor. of secs 7 12 13 and 18. Marked on brass cap, T27S in N. half, R22E S12 in NW
R23E S7 in NE
S18 in SE., and
S13 in SW, quadrant,
raise a mound of stone 2½ ft. base 2 ft. high W of cor.
Note, the SW cor of old Higgins house bears N 22°50' W.
A new frame house bears N 31°39' W about 5 miles dist.
Nearly level land; North westerly slope soil, sandy loam with some gravel 12 to 24 ins. deep on gravel subsoil:
Good growth of greasewood and sagebrush. No timber
November 4 1911.

November 6; at 8h 14m am. lmt. I set off 38°28' on the lat. arc 15°45' S on the decl. arc and determine a meridian with the solar at cor. of secs 7, 12, 13 and 18 on E. bdy of Tp.
Thence I retrace
South bet. secs 13 and 18
Over gently ascending land through greasewood and sagebrush.

Retracement of East boundary of T27S R22E.

Chains.	
5.60	Wash 10 lks. wide, 3 ft. deep, course NW
10.25	Telephone line between Moab and Monticello bears N31°W and S31°E
20.20	Wash 50 lks. wide 5 ft. deep course N 50W
21.75	Road from Monticello to Moab bears NW and SE
30.50	Begin ascent over small ridges and hollows. bears NW and SE Enter cedar and pinon pine timber bears NW and SE.
40.17	Fall 5 lks. E. of 1/4 sec. cor. bet. secs 13 and 18 which is a sandstone mkd, and witnessed as described by surveyor general Set an iron post 3 ft. long, 1 in. in dia 12 ins. in the ground and surrounded by mound of stone, in place of stone, for 1/4 sec cor. bet. secs 13 and 18. mkd, on brass cap, 1/4 S13 on W, and S18 on E half from which A pinon pine 9 ins. diam. bears N82°E 57 lks. dist. Marked 1/4 S18 BT A pinon pine 10 ins. diam. bears N65°15W 27 lks. dist. Marked 1/4 S13 BT. This corner will hereafter refer to sec. 18 only.
45.60	Bottom of swale course E, ascend
49.00	Top of ascent bears N80°W and S80°E. descend
54.00	Bottom of swale course S60°E
61.70	Top of ascent 60 ft. above hollow bears N70°W and S70°E descend
67.80	Bottom of swale 30 ft. below, course S80°E ascend
74.25	Point of ridge, 40 ft. above bears E and W. descend
77.25	Bottom of hollow 50 ft. below ridge course N80°E. ascend
79.30	Top of small ridge 50 ft. above hollow bears E and W. descend gently

Retracement of East boundary of T27S R22E.

Chains

80.29 Fall 10 lks. E. of cor of secs 13, 18, 19, and 24 which is a sandstone, mkd. and witnessed as described by surveyor general, therefore the E. bdy. of sec 13 bears S 0° 4' W. 80.29 chs.
Set an iron post 3 ft. long, 3 ins. in dia. 12 ins. in the ground and surrounded by mound of stone, in place of stone for cor of secs 13 18 19 and 24 Mkd on brass cap T27S in N. half
R22E S13 in NW.,
R23E S18 in NE.,
S 19 in SE., and
S 24 in SW., quadrant from which
A cedar 6 ins. diam bears N 63° 20' E 185 lks. dist. Mkd T27S R23E S18 BT
A piñon pine 8 ins. diam. bears S 42° 20' E 168 lks. dist. Mkd. T27S R23E S19 BT.
A cedar 6 ins. diam bears S 73° 35' W 92 lks. dist. Mkd. T27S R22E S24 BT,
A piñon pine 6 ins. diam. bears N 81° 05' W 119 lks. dist. Mkd. T27S R22E S13 BT.

nov 6 At 11h 24m am. Ent. I set off 15° 48' S on the decl. arc and observe the sun on the meridian at this cor; the resulting lat is 38° 28' very nearly

N 30. chs. Nearly level land; Northerly slope; Soil sandy loam with some gravel, 1 to 1½ ft deep on gravel subsoil
Good growth of short greasewood and sagebrush
No timber.

S 50. chs. Rolling Mountainous land NE dip
soil, gravely loam, 6 to 12 ins deep on rock and gravel subsoil, stony and washed on slopes.
Timber, cedar and piñon pine.
Undergrowth, scattering sagebrush

From above described cor. I retrace

Retracement of East boundary of T. 27 S R 22 E

Chains.	
	South bet secs 19 and 24 Over rolling mountainous land through, cedar and pinon pine timber and scattering sagebrush. descend
9.90	Wash 10 lks. wide, 1 ft. deep in bottom of hollow 40 ft. below sec. cor. course NE.; ascend
18.00	Begin abrupt ascent over ledges bear E and W.
21.80	Top of sloping ledge 60 ft. above ft. bears E and W.; ascent continues
40.02	Fall 6 lks E of 1/4 sec. cor. bet secs 19 and 24 which is a stone, marked and witnessed as described by surveyor general. Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground, and surrounded by mound of stone, in place of stone, for 1/4 sec cor. bet. secs 19 and 24 Marked on brass cap 1/4 S 24 on W S, and S 19 on E half from which the old bearing tree, a pinon pine 10 ins. diam. bears S 55° 30' E, 43 lks dist. and which I remark, 1/4 S 19 BT. The NW tree being dead, I select a pinon pine 10 ins diam bears S 36° 30' W 77 lks. dist Marked 1/4 S 24 BT. Top of ridge 250 ft. above hollow bears E and W.
Nov. 6:-	At 3h 14m p.m. lmt. I set off 38° 27' on the lat arc; 15° 51' S on the decl. arc and determine a meridian with the solar at this cor. descend
60.70	Leave timber, enter sagebrush flat bears E and W
78.10	Old road bears N 70° W and S E
80.11	Fall 12 lks. E of cor. of secs 19 24 25 and 30 which is a sandstone mkd and witnessed as described by surveyor general; therefore

Retracement of East boundary of T 27 S R 22 E

Chains.	
	the E bdy of sec 24 bears S 0°5' W Set an iron post 3 ft. long, 3 ins. in dia 24 ins. in the ground, in place of stone for cor of secs 19, 24, 25 and 30 Marked on brass cap T 27 S in N half R 22 E S 24 in NW., R 23 E S 19 in NE. S 30 in SE., and S 25 in SW., quadrant, from which a cedar 10 ins. diam. bears S 71°0' W 464 lks. dist. mkd. T 27 S R 22 E S 25 BT a pinon 16 ins diam bears. N 69°31' W 489 lks. dist. Mkd. T 27 S R 22 E S 24 BT No other trees being available, dig pits 18 x 18 x 12 ins in secs NE and SE 5½ ft. dist and raise a mound of earth 4 ft. base; 2 ft. high W of cor Mountainous land; NE slope; soil, gravely loam 6 to 24 ins deep on rock subsoil; coarse texture, dry Timber, cedar and pinon pine 60 chs. Undergrowth, sagebrush. November 6 1911
	Nov 7; At 8h 44m am. lmt. I set off 38°27' on the lat. arc; 16°45' on the decl. arc and determine a meridian with the solar at cor of secs 19, 24, 25 and 30 Thence I retrace South bet secs 25 and 30 Over mountainous land, through sagebrush; descend gully
7.80	Trail bears N 50° E and S C D
14.50	Leave sagebrush, enter cedar and pinon pine timber bears NW and SE
40.23	Intersect ¼ sec cor. bet secs 25 and 30

Chains.	
	which is a sandstone, mkd. and witnessed as described by surveyor general.
	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground, in place of stone for 1/4 sec cor. bet secs 25 and 30. Marked on brass cap 1/4 S 25 on W, and S 30 on E half; I remark and take bearing and dist. to old trees as follows.
	A pinon pine 12 ins. diam. bears N 76° 30' E 95 lks. dist. Marked 1/4 S 30 BT.
	A cedar 12 ins. diam bears S 24° 30' W 21 lks. dist. Marked 1/4 S 24 BT.
	descend gently
52.20	Wash in bottom of hollow 20 lks. wide 3 ft. deep course S 70° W; ascend
53.00	Old road bears N 70° E and S 70° W.
61.50	Top of ridge 65 ft. above wash bears E and W; descend
79.60	Bottom of hollow 30 ft. below ridge course S E. ascend gently
80.36	Intersect the cor of secs 25, 30, 31 and 36, on large boulder mkd by x in rock and 1 notches on the south and 5 notches on the north of cross. therefore the E bdy of sec 25 bears S.
80.44	Set an iron post 3 ft. long, 3 ins in dia 24 ins. in the ground for witness cor to cor of secs 25, 30, 31 and 36 Marked on brass cap T 27 S WC in N half, R 22 E S 25 in NW, R 23 E S 30 in NE S 31 in SE., and S 36 in SW, quadrant
	I mark the old bearing trees for witness cor. and take the following bearings and distances to same.
	A cedar 12 ins. diam. bears N 53° 0' E 61 lks. mkd. WC T 27 S R 23 E S 30 BT
	A cedar 8 ins. diam. bears S 57° 15' E

East boundary of T27SR22E

Chains.	49 lks. dist. mkd. WCT27SR23ES31BT. A cedar 10 ins. diam bears S64°10'W 24 lks. dist. mkd WCT27SR22ES36BT A pinon pine 9 ins. diam. bears N70°15'W 44 lks. dist. mkd WCT27SR22ES25BT. Mountainous land; westerly slope soil, gravely loam 6 to 18 ins. deep on rock and gravel subsoil, Timber, cedar and pinon pine 65 chs. Undergrowth, sagebrush.
	Note, the E. bdy not having been run farther S. than to cor of secs 25, 30 31 and 36 above described, I run South on true line bet. secs 31 and 36 Over Mountainous land, through cedar and pinon pine timber and scattering sagebrush undergrowth ascend
4.00	Top of ridge 40 ft. above sec cor. bears E and W;
Nov. 7:	At 11h 44m a.m. lmt. I set of 16°6'S on the decl arc. and observe the sun on the meridian at this point; the resulting lat. is 38°26' descend
8.00	Foot of ridge 40 ft. below top bears N60°E and S60°W, enter wide draw,
14.50	Wash 20 lks. wide, 3 ft. deep course SW
17.85	Road between Moab and Monticello bears NE and SW
22.00	Begin abrupt ascent bears NE and SW Enter timber bears NE and SW
29.90	Top of ridge 25 ft. high bears N80°E and SW
31.50	Top of ridge 150 ft above draw bears N60°E and SW descend

East boundary of T 27 S R 22 E.

Chains.	
37.50	Ledge 20 ft. high bears E and S 60° W
40.00	Set an iron post 3 ft. long 1 ins. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. sec. 31 and 36, Mkd on brass cap 1/4 S 36 on W., and S 31 on E half from which A piñon pine 14 ins. diam. bears N 18° 10' E 94 lks. dist. Mkd. 1/4 S 31 BT. A piñon pine 10 ins. diam. bears N 40° 50' W 108 lks. dist. Mkd. 1/4 S 36 BT.
Nov. 7:	At 3h 14m pm. lmt., I set off 38° 26' on the lat. arc; 16° 8' S on the decl. arc and determine a meridian with the solar at this cor.; descend
62.50	North edge of Cane Spring Canyon bears S 30° E and S W at this point descend over broken ledges
74.90	Telephone line to Cane Spring bears N 87° W and S 87° E
77.23	Wash 60 lks. wide 3 ft. deep in bottom of Cane Spring Canyon 200 ft. below edge of Canyon course N 80° W. Ascend gently
80.00	Set an iron post 3 ft. long 3 ins. in dia 18 ins. in the ground on solid rock surrounded by mound of stone for cor. of Tps 27 and 28 S. Rs 22 and 23 E Marked on brass cap T 27 S in N and T 28 S in S half R 22 E S 36 in NW., R 23 E S 31 in NE., R 23 E S 6 in SE., and R 22 E S 1 in SW, quadrant, from which A cedar 5 ins. diam bears N 49° 15' E 29 lks. dist. mkd T 27 S R 23 E S 31 BT A cedar 10 ins diam bears S 55° 0' E 5 lks. dist mkd. T 28 S R 23 E S 6 BT A piñon pine 16 ins. diam. bears S 33° 45' W 47 lks. dist. Mkd T 28 S R 22 E S 1 BT

South boundary of T 27 S R 22 E.

Trains. A pinon pine 10 ins diam. bears N 47° 0' W 106 lks dist. Mkd T 27 S R 22 E S 36 B T
Mountainous land; Westerly slope; soil sandy loam 1 to 2 ft. deep on gravel subsoil in valleys; gravely loam 6 to 12 ins. deep on rock, on ridges and slopes, stony and dry
Timber cedar and pinon pine 66 cu. ch.
Undergrowth, sagebrush.
November 17 1911

November 8; At 8h 14m am. Lmt. I set off 38°25' on the lat. arc 16°21' S on the decl. arc and determine a meridian with the solar at cor. of Tps 27 and 28 S, Rs 22 and 23 E heretofore described
Thence I run
West on S bdy of Tp. bet secs 1 and 36
Over mountainous land through heavy cedar and pinon pine timber and scattering sagebrush; ascend abruptly
8.30 Top of rocky ridge 100 ft. above tp cor bears N and S. descend abruptly over ledges
18.10 Note, The foot of dug way on road from Moab to Monticello bears N 35° E about 4 ch dist on N. side of Cane Spring canyon
18.50 Telephone line to Cane Spring bears N 55° E and S 55° W
21.05 Road from Moab to Monticello bears NE and SW
22.10 Center of Cane Spring wash 100 lks. wide 3 ft deep in bottom of Cane Spring canyon 200 ft. below ridge course S 48° W, ascend abruptly over ledges

South boundary of T 27 S R 22 E

Chains.	
30.00	Top of main ledges 400 ft. above canyon bears N and S; continue ascent over broken ledges.
37.50	Top of ridge 450 ft. above canyon beds N 20° E and S 20° W
Nov. 8:-	At 1h 44m a.m. lmt. I set off 16° 24' S on the decl. arc; and observe the sun on the meridian at this point the resulting lat. is 38° 25'
	Descend
40.00	Set an iron post 3 ft. long, 1 in in dia. 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec cor. bet. secs 1 and 36 Marked on brass cap 1/4 S 36 on N., and S 1 on S. half, from which A piñon pine 8 ins. diam bears N 44° 0' E 72 lks. dist. mkd 1/4 S 36 BT. A piñon pine 8 ins. diam bears S 21° 45' W 26 lks. dist. Mkd 1/4 S 1 BT.; descend gently over ledges
52.30	Wash 20 lks. wide 8 ft. deep in bottom of hollow 140 ft. below ridge, course S 20° W; ascend
53.50	Trail bears N 20° E and S 20° W
72.00	Top of ridge 80 ft. above hollow bears N and S; descend
80.00	Point 60 ft. below ridge Set an iron post 3 ft. long, 3 ins in dia. 12 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs. 1, 2, 35 and 36 Marked on brass cap T 27 S R 22 E in N., and T 28 S R 22 E in S. half S 35 in NW., S 36 in NE., S 1 in SE., and S 2 in SW. quadrant, from which A piñon pine 8 ins. diam bears N 27° 0' E 447 lks. dist. Mkd T 27 S R 22 E S 36 BT A piñon pine 18 ins. diam. bears S 66° 40' E

South boundary of T 27 S R 22 E

Chains

172 lks. dist. Mkd T 28 S R 22 E S 1 BT
A pinon pine 20 ins. diam bears S 49°20' W
304 lks. dist. Mkd T 28 S R 22 E S 2 BT
A cedar 9 ins. diam bears N 44°50' W
146 lks. dist. Mkd T 27 S R 22 E S 35 BT
Note, The house at Cane spring bears S 15°30' E nearly a mile away but cannot be seen from this cor.
Mountainous land; Southerly slope.
Soil, gravely loam 6 to 12 ins. deep on sandstone, washed on slopes, and dry
Timber, cedar and pinon pine 80 chs.
Undergrowth scattering sagebrush
November 8 1911

November 9; at 8h 44m a.m. l.m.t. I set off 38°25' on the lat. arc; 16°39' S on the decl. arc. and determine a meridian with the solar at cor. of secs 1, 2, 35 and 36 on S bdy of Tp.
Thence I run
West bet secs 2 and 35
Over mountainous land through cedar and pinon pine timber and scattering sagebrush; descend

8.10 Bottom of hollow 30 ft. below sec. cor. course S; ascend

25.50 Begin more abrupt ascent over ledges bears N E and S W

30.50 Top of abrupt ascent and ledge 20 ft high bears N E and S W.; ascend gently

39.50 Trail bears N 20° E and S 20° W on top of divide ridge 300 ft. above hollow bears same.; descend

40.00 Set an iron post 3 ft. long 1 in in dia, 12 ins. in the ground on solid rock and surrounded by mound of stone, for

South boundary of T 27 S. R 22 E

Chains.	
	1/4 sec. cor. bet. secs 2 and 35; marked on brass cap 1/4 S 35 on N., and S 2 on S. half from which
	A pinon pine 12 ins. diam. bears N 66° 0' E 39 lks. dist. mkd. 1/4 S 35 BT.
	A cedar 8 ins. diam bears S 8° 10' E 40 lks dist. mkd. 1/4 S 2 BT.
41.70	Edge of ridge, top of ledge 20 ft. high bears N and S 20° W; descend over ledges and boulders
50.70	Ledge 20 ft. high bears N 20° E and S 20° W.
57.50	Foot of abrupt descent and ledges bears N E and S W.
60.70	Bottom of hollow 400 ft. below ridge course N 20° W
67.00	Top of ridge 30 ft. above hollow bears N and S.
Nov. 9	At 1h 44m a.m. Eqt. I set off 16° 45' S on the decl. arc. and observe the sun on the meridian at this point; the resulting lat. is 38° 25' which is very nearly the proper lat.
74.50	Top of sloping ledge 30 ft. high bears N 20° E and S 20° W
76.00	Leave timber bears N 20° E and S 20° W
80.00	Set an iron post 3 ft. long, 3 ins. in dia 24 ins. in the ground for cor of secs 2, 3, 34 and 35 Mkd. on brass cap T 27 S R 22 E in N., and T 28 S R 22 E in S. half; S 34 in NW., S 35 in NE., S 2 in SE., and S 3 in SW., quadrant. Dig pits 18 x 18 x 12 ins in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base; 2 ft. high W of cor Mountainous land; Southerly slope; Soil, gravelly loam 6 to 12 ins. deep on rock and gravel subsoil; dry. Timber cedar and piñon pine 76. chs Undergrowth, scattering sagebrush

South boundary of T 27 S R 22 E

[illegible]	West bet. secs 3 and 34
	Over mountainous land through scattering cedar and pinon pine timber, dense sagebrush undergrowth descend gently
6.30	Begin abrupt descent over smooth sandstone ledges bears N and S
14.50	Rim of box canyon, top of almost vertical ledge 110 ft high bears N 10° E and S 10° W
18.90	Wash 100 lks wide 25 ft. deep in bottom of box canyon 300 ft. below sec. cor. course S 30° W, asc. abruptly over ledges
20.30	Trail bears N 30° E and S 30° W
26.30	N. side of old corral partly formed by ledges and partly by old fence bears S. 20 lks. dist.
30.00	West edge of box canyon, 120 ft. above bottom bears N 30° E and S 30° W ascend less abruptly
36.00	Leave ledges bears N 30° E and S 30° W
40.00	Point 250 ft. above canyon
	Set an iron post 3 ft. long, 1 in. in dia, 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec cor. bet. secs 3 and 34 mkd. on brass cap 1/4 S 34 on N., and S 3 on S. half; from which
	A pinon pine 14 ins diam. bears N 2° 30' W 133 lks. dist. mkd 1/4 S 34 B T
	A pinon pine 10 ins diam. bears S 63° 10' W 93 lks. dist mkd 1/4 S 3 B T.
Nov 9:	At 3h 14m p.m. fmt. I set off 38° 25' on the lat. arc 16° 43' S on the decl. arc and determining a meridian with the solar at this cor.; descend
45.00	Trail bears N 30° W and S 30° E.
48.20	Trail bears NW and SE; ascend gently over smooth sandstone ledges
50.00	Set an iron post 3 ft. long, 3 ins in dia 12 ins. in the ground on solid rock and surrounded by mound of stone

South boundary of T27SR22E.

Chains.

for cor. of secs 3, 4, 33, and 34 marked on brass cap T27SR22E in N, and T28SR22E in S half
S 33 in NW.,
S 34 in NE,,
S 3 in SE., and
S 4 in SW., quadrant, from which
A cedar 12 ins. diam. bears N78°45'E 120 lks. dist. Mkd T27SR22ES34BT
A pinon pine 10 ins. diam. bears S84°0'E 70 lks. dist. Mkd T28SR22ES3BT
A pinon pine 12 ins. diam bears S67°0'W 129 lks. dist. Mkd. T28SR22ES4BT,
A pinon pine 8 ins. diam. bears N27°15'W 305 lks. dist. Mkd T27SR22ES33BT
Mountainous land; southerly slope; soil, gravely loam 6 to 12 ins. deep on rock and gravel subsoil, dry.
Timber, scattering cedar and pinon pine 80.00 chs.
Undergrowth, sagebrush.
November 9 1911

November 10; At 8h 14m am. Lmt. I set off 38°25' on the lat. arc; 16°56'S. on the decl. arc and determine a meridian with the solar at cor of secs 3, 4, 33 and 34 on S. bdy of Tp.; thence I run
West bet. secs 4 and 33
Over Mountainous land, through heavy cedar and pinon pine timber and scattering sagebrush undergrowth ascend gently over smooth sandstone surfaces.

3.50 Trail bears NE and SW

25.00 Top of ridge 200 ft. above sec. cor. bears N and S; heave sandstone slopes,

South boundary of T27SR22E.

Chains.	
	descend
40.00	Set an iron post 3ft. long, 1in. in dia. 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 4 and 33 marked on brass cap; 1/4 S33 on N., and S4 on S. half
	from which
	A pinon pine 10 ins. diam. bears N53°15'E 33 lks. dist. mkd. 1/4 S33 BT
	A cedar 12 ins. diam. bears S51°25'E 105 lks. dist. mkd 1/4 S4 BT.
62.00	Head of hollow 100 ft. below ridge course NW; continue descent
62.20	Leave timber bears N and S
69.00	Wash 10 lks. wide 3ft. deep course N20°W in bottom of hollow 200ft. below ridge ascend
80.00	Set an iron post 3ft. long, 3 ins. diam, 12 ins. in the ground on solid rock and surrounded by mound of stone for cor of secs 4, 5, 32 and 33 mkd. on brass cap; T27SR22E in N., and T28SR22E in S. half
	S32 in NW.,
	S33 in NE.,
	S4 in SE., and
	S5 in SW., quadrant
	from which
	A cedar 26 ins. diam. bears N26°30'E 193 lks. dist. mkd T27SR22E S33BT
	A cedar 12 ins. diam. bears S47°20'W 111 lks. dist. mkd. T28SR22E S5BT.
	A cedar 5 ins diam. bears N73°40'W 232 lks. dist. mkd T27SR22E S32BT.
	No tree in SE Sec. therefore dig pit 18 x 18 x 12 ins. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft high W of cor.
Nov. 10	At 11h 44m am. lmt. I set off 16°58'S on the decl. arc and observe the sun

Chains.	
	on the meridian, at this cor.; the resulting lat. is 38°25' very nearly which is very nearly the proper lat. Mountainous land; westerly slope soil, gravelly loam 3 to 12 ins deep on sandstone in place, coarse texture & dry. Timber, cedar and pinon pine 6200 lbs. Undergrowth, sagebrush.
	West bet secs 5 and 32 Over mountainous land, through, scattering cedar and pinon pine timber and dense artemisia bush and sagebrush, undergrowth; ascend
18.00	Top of ridge 100 ft. above sec. cor. bears N and S; descend
29.30	Bottom of hollow 40 ft. below ridge course N; ascend gently along N slope of ridge
40.00	Set an iron post 3 ft. long, 1 in. in dia, 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs. 5 and 32, mkd on brass cap 1/4 S 32 on N., and S 5 on S. half from which A cedar 8 ins. diam. bears N 34° W 233 lbs. dist. mkd 1/4 S 32 BT A cedar 14 ins. diam. bears S 55° W 30 lbs. dist mkd. 1/4 S. 5 BT
Nov. 10	At 2h 34m p.m. lmt. I set off 38°25' on the lat. arc; 17°09'.5 on the decl. arc and determine a meridian with the solar at this cor.
65.00	Begin more abrupt descent over smooth ledges.
76.60	E. edge of gulch 50 ft. deep course SW
79.70	W edge of same gulch bears NE and SW
80.00	Set an iron post 3 ft. long, 3 ins in dia,

South boundary of T27SR22E.

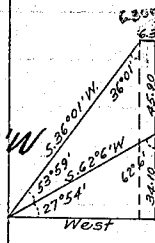
Imins. 12 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs. 5, 6, 31 and 32 marked on brass cap.
T27SR22E in N., and T28SR22E in S. half; S31 in NW.,
S32 in NE.,
S5 in SE., and
S6 in SW., quadrant from which
A pinon pine 12 ins. diam. bears N45°30'E 159 lks. dist. Mkd T27SR22E S32 BT.
A smooth ledge Mkd X B0 S5 bears S51°0'E 23 lks. dist.
A pinon pine 5 ins. diam bears S42°0'W 68 lks. dist. Mkd T28SR22E S6 BT.
A pinon pine 6 ins. diam. bears N60°0'W 39 lks. dist. Mkd. T27SR22E S31 BT.
Note, This cor. is located 1 Ch E of edge of Hatch wash canyon which is 1000 ft. deep. Since it is impossible to chain across canyon on account of ledge which is nearly vertical and about 500 ft high I erect a good flag or signal at this cor. for triangulation purpose.
Mountainous land, Westerly slope
Soil poor gravely loam 3 to 12 ins deep on sandstone, course texture, dry.
Timber, scattering cedar and pinon pine.
Undergrowth, artemisia brush and sagebrush

November 10 1911.

November 11; Note, It being impossible to chain across Hatch Wash canyon I go to west side

South boundary of T27S R22E

chs. of some, to point on line and observe flag set at point 34.10 chs N of cor of secs 5, 6 31 and 32 said flag brs N 62°06'E, from this flag the instrument brs S 62°06'W; therefore the dist is tan 62°06' × base or 1.88867 × 34.10 = 64.40 chs
I then observe flag set 80.00 chs N and 6.30 chs W of cor of secs 5, 6, 31 and 32, said flag brs. N 36°01'E, from flag instrument brs S 36°01'W therefore the distance is tan 36°01' × base + 6.30 chs or 0.72699 × 80.00 + 6.30 = 64.45 chs. Mean result of these triangulations is $\frac{64.40 + 64.45}{2}$ = 64.42 chs



Thence I run E 8.52 chs to W rim of Hatch Wash Canyon which makes distance ~~from cor~~ of secs 5, 6, 31 and 32 56.90 chs, impossible to chain farther.

40.00 Point for 1/4 sec cor bet secs 6 and 31 falls in Canyon at Point

56.90 Set an iron post 3 ft long 1 in. in dia. 12 ins in the ground on solid rock and surrounded by mound of stone for witness cor to 1/4 sec cor bet secs 6 and 31 Marked on brass cap T27S R22E 1/4 S31 in N, WC in E; and S 6 T28S R22E in S half from which
A pinon pine 8 ins. diam brs N80°30'W 43 lks dist MKd WC 1/4 S 31 BT
A pinon pine 10 ins. diam brs. S36°25'W 127 lks dist MKd WC 1/4 S 6 BT.
Thence I return to point
64.42 and run West over gently ascending land
74.90 Foot of sloping edge brs N and S
Nov 11. at Noon, sky overcast prevents lat. observation. ascend over smooth sandstone
77.37 Point for cor of Tps 27 and 28S Rs 21 and 22E falls on smooth sandstone ledge impossible to set cor I therefore cut x in rock at cor. point and return to 2.47 chs east and at
74.90 set an iron post 3 ft long, 3 ins in. dia 12 ins

North Boundary of T 27S R22E

Cor. in the ground on solid rock and surrounded by mound of stone for witness cor. to Cor of Tps 27 and 28S Rs 21 and 22E marked on brass cap T27S in N. WC in W, T28S in S half R21E S36 in NW., R22E S 31 in NE., R22E S6 in SE, and R21E S1 in SW quadrant from which,
a cedar 8 ins-diam brs N73°30'E 73 lks dist. MKd WC T27S R22E S 31 BT
a cedar 8 ins diam brs S 24°0'E 18 lks dist MKd. WC T 28S R22E S 6 BT
a sloping sandstone ledge 100 ft high MKd X B O S 1 Brs. S11°30'W 30 lks dist
Same ledge MKd X B O S 36 bears N39°25' W 8 lks dist
Mountainous land: Northerly slope; soil gravelly loam 6 to 12 ins deep on rock and gravel subsoil, Timber, scattering cedar and piñon pine; Undergrowth Sagebrush
November 11, 1911—

~~Scott P. Stewart~~
~~OS~~ Transitman

North Boundary of T27S R22E

Survey commenced November 3, 1911 and executed with a K and E light Mountain transit with Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to 30" of arc, which is also the least count of the verniers of the latitude and declination arcs.
The instrument was examined tested on the true meridian at Salt Lake City found correct, and was approved by

North boundary of T 27 S R 22 E

Chains.

the surveyor general for Utah Oct 16 1911 I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during am. and p.m. hours, with a meridian determined by observations on Polaris. I proceed as follows

At cor of Tps 26 and 27 S Rs 22 and 23 E heretofore described; latitude 38°30'23" N longitude 109° 28' 21" W; I set off 38°30' N on the lat. arc; 14°55' S. on the decl. arc. and, at 3h 44m p.m. lmt. determine with the solar a meridian and mark a point thereof on a peg driven into the ground 5 chs. N of the cor.

November 3 1911

November 4 At 4h 38m am. lmt I observe Polaris at western elongation in accordance with Manual of instructions and mark a point in the line thus determined, on a peg driven in the ground 5 chs N of my station

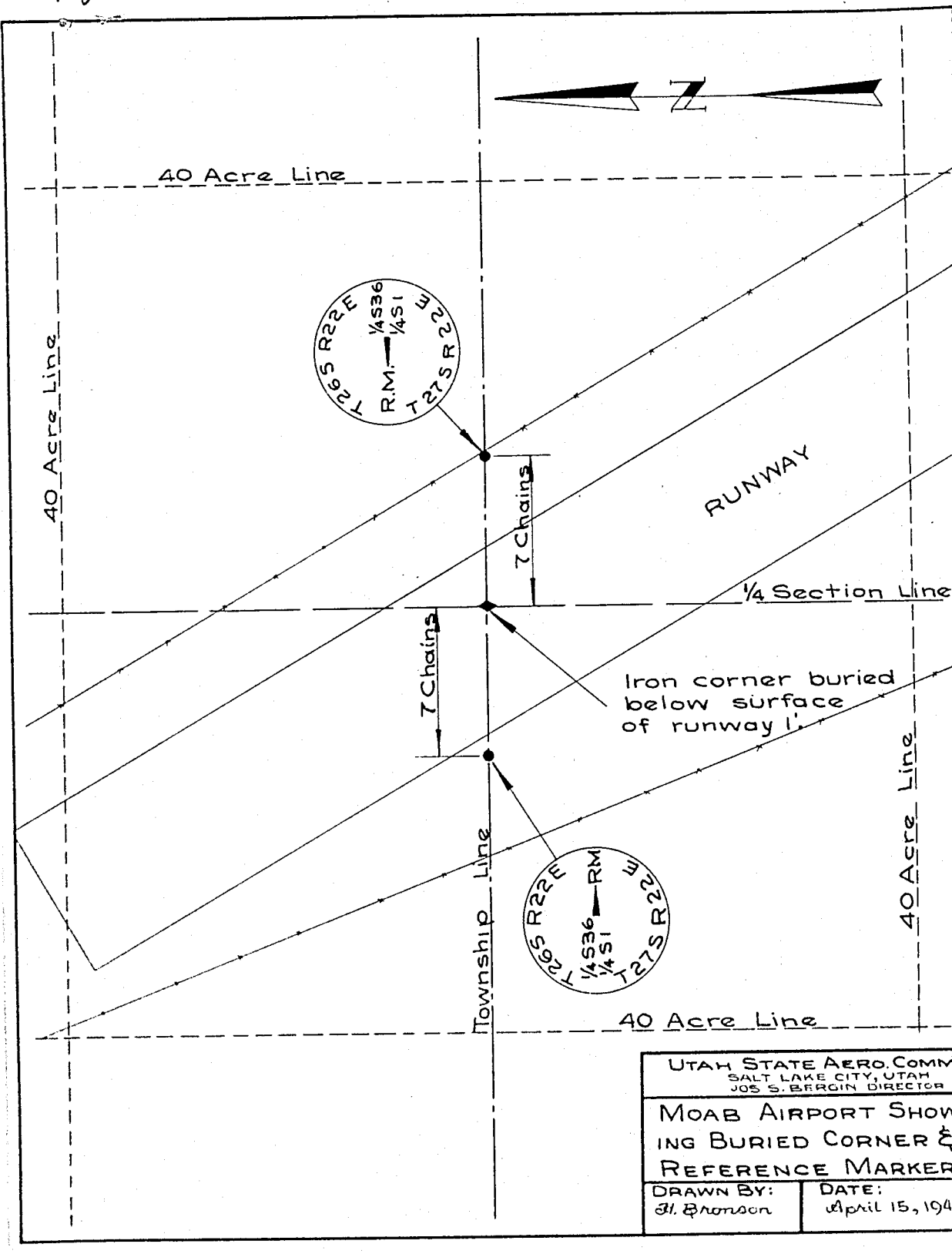
At 7:30 am. lmt. I lay off the azimuth of Polaris 1°29' to the east, and mark the meridian thus determined by a mark on the peg set Nov. 3 on which the meridian falls 0.25 lns west of the mark determined by the solar.

At 8h 14m am. lmt. I set off 38°30' on the lat. arc; 15°8' S on the decl. arc, and mark a point in the meridian determined with the solar by a mark on the peg already set 5 chs. N of my station; this mark falls 0.30 lns west of the meridian established by the Polaris observation.

North boundary of T 27 S R 22 E

Chains.	The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about 0°13" east and 0°16" west of the meridian established by the Polaris observations therefore I conclude that the adjustments of the instrument are satisfactory The magnetic bearing of the true meridian at 8:30 a.m. is N 16°15' W; the angle thus determined gives the mag. decl. 16°15' E
	From Tp cor. already described I retrace West on N. bdy of T bet. secs 1 and 36 Over nearly level land through greasewood and sagebrush.
0.90	Wash 5 lks. wide 2 ft. deep course N 30° W
20.50	Old road bears N W and S E
28.00	Wash 5 lks. wide 2 ft. deep course N 20° W
40.03	Intersect 1/4 sec. cor. which is a stone mkd. and witnessed as described by surveyor general. Set an iron post 3 ft. long, 1 in in dia 26 ins. in the ground, in place of stone for 1/4 sec. cor. bet secs 1 and 36 mkd. on brass cap. 1/4 S 36 on N. and S 1 on S half raise a mound of stone 2 ft base 1 1/2 ft high N. of cor
53.30	Ditch 10 lks wide 3 ft. deep course N 30° W
53.80	Road from Moab to Monticello bears N 35° W and S 35° E.
56.05	Branch road to stack yard bears N 70° W and S 70° E
76.50	Pole and wire fence bears N 5° 6' W and S 5° 6' E; Enter cultivated land
80.06	Intersect cor. of secs 1, 2, 35 and 36 which is a sandstone mkd. and witnessed as described by surveyor general. Set an iron post 3 ft. long 3 ins. in dia

for Ref. Monuments set for 1/4 sec cor to Secs. 1 and 36


N
40 Acre Line
40 Acre Line
T26S R22E
R.M.
1/4 S36
1/4 S1
T27S R22E
7 Chains
RUNWAY
1/4 Section Line
7 Chains
Iron corner buried below surface of runway 1'.
Township Line
T26S R22E
RM
1/4 S36
1/4 S1
T27S R22E
40 Acre Line
40 Acre Line
UTAH STATE AERO. COMM
SALT LAKE CITY, UTAH
JOS S. BERGIN DIRECTOR
MOAB AIRPORT SHOW
ING BURIED CORNER &
REFERENCE MARKER
DRAWN BY:
H. Bronson
DATE:
April 15, 194

North boundary of T27SR22E

Chains

30 ins. in the ground, in place of stone, for cor of secs 1, 2, 35 and 36 marked on brass cap T26SR22E in N., and T27SR22E in S half; S35 in NW;
S36 in NE.,
S1 in SE., and
S2 in SW., quadrant
from which
A cottonwood 10 ins diam. bears N39°47E 482 lks. dist marked T26SR22ES36BT. raise a mound of stone 2½ ft. base 2 ft. high W of cor.
Note, The SW. cor. of Higgins-house bears N67°19'E 11.60 chs. dist.
Nearly level land; W. slope.
Soil sandy loam, 1 to 3 ft deep on sand and gravel subsoil, medium texture and dry.
Good growth of short greasewood and sagebrush, thrifty alfalfa on land surrounding this cor.
No timber;

Nov. 4: At 11h 44m am. lmt. I set off 15°11'S on the decl. arc. and observe the sun on the meridian at this cor the resulting lat. is 38°30' which is very nearly the proper lat.

West bet. secs 2 and 35
Over nearly level
cultivated land

2.20 Leave cultivated land bears N and S
4.80 Holyokes hay stack bears N 6 lks. dist.
5.00 Wash 6 ft. deep 10 lks. wide course N10°W
6.60 Wash 3 ft. deep 10 lks. wide course N30°W
12.30 Pack creek wash 25 lks. wide 10 ft. deep course N30°W
15.40 Wash 60 lks. wide 8 ft. deep course

North boundary of T27SR22E

Inches	
	N 30°W
23.40	Telephone line between Moab and Monticello bears N31°W and S31°E
40.09	Intersect 1/4 sec cor. bet. secs. 2 and 35 which is a sandstone mkd and witnessed as described by surveyor general.
	Set an iron post 3 ft. long, 1 in in dia 24 ins. in the ground, in place of stone for 1/4 sec. cor. bet secs 2 and 35 marked, on brass cap 1/4 S35 on N., and S2 on S half; raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
	Note, The old survey not having been extended west of this 1/4 sec. cor. I continue West bet. secs 2 and 35
43.60	Leave valley begin abrupt ascent of steep hillside, Enter cedar and pinon pine timber. bears N and S
56.50	Top of spur 150 ft. above 1/4 sec cor. bears N and S; descend
60.00	Bottom of hollow 90 ft. below spur course N; ascend abruptly
65.00	Top of abrupt ascent 50 ft. above hollow bears N and S; ascend gently
70.75	Old wood road bears NW and SE.
80.09	Set an iron post 3 ft. long 3 ins. in dia 18 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs 2, 3, 34 and 35 marked on brass cap T26S R22E in N., and T27S R22E in S half
	S 34 in NW,
	S 35 in NE.,
	S 2 in SE., and
	S 3 in SW., quadrant from which
	A pinon pine 6 ins. diam. bears N41°50'E 1.10 Chs. dist. mkd. T26SR22E S35BT
	A pinon pine 7 ins diam. bears S73°20'E 191 lks. dist mkd T27SR22E S2BT

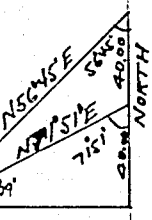
North Boundary of T 27 S R 22 E

Chains	a pinon pine 6 ins, diam. brs S87°0'W 91 lks dist MKd T27SR22E S3 BT a pinon pine 5 ins. diam brs N17°25'W 154 lks dist MKd T26SR22E S34BT E 43.00 Nearly level land. drs. easterly Soil sandy loam 1 to 2 ft deep on sand and gravel subsoil; medium texture and fairly moist Undergrowth, short greasewood + sagebrush no timber W 37.00 Mountainous land, N slope soil, gravely loam 6 to 12 ins. deep on sandstone, stony and dry Timber scattering cedar and pinon pine, Undergrowth scattering sagebrush. November 6 1911 Eric H Anderson M.S. Transitman
	Nov. 6; at 8h 14m am. Int. I set off 38° 30' on the lat arc 15° 45' S on the decl arc and determined a meridian with the solar at Cor of secs 2, 3, 34 and 35 on N Bdy of Tp heretofore described Thence I run bet. secs 3 and 34 West over mountainous land through scattering cedar and pinon pine, and scattering sage brush undergrowth ascend
6.00	Top of ridge 75 ft above sec cor brs N and S, descend
9.00	Bottom of hollow 175 ft below ridge course N; Begin abrupt ascent over ledges and boulders.
24.25	Top of ledges 250 ft above sec cor bears N 30°W and S 20°E Begin abrupt ascent over steep talus slope
38.40	Foot of nearly vertical ledge 500 ft high brg N20°W and S20°E at this point this wall continues to the north for a number of miles and to the south a

North Boundary of T 27S R 22E

chains a considerable distance. It being impossible to chain farther. I go to top of wall or rim rock to point on line. I observe flag set at 1/4 sec cor bet secs 36 + 35 or 4 chs N of cor of secs 1, 2, 35 + 36 on this bdy. Said flag brs N 71°51' E, from the flag the instrument brs S 71°51' W therefore the dist. is tan 71°51' x base or 3.0505 x 40.00 chs = 122.02 chs.

I then observe flag set at cor of secs 25, 26, 35 + 36 T 26 S R 22 E which gives a base line of 80 chs, this flag brs N 56°45' E. from the flag the inst. brs S 56°45' W therefore the dist is tan 56°45' x base or 1.5250 x 80.00 chs = 122.00 chs



Mean of these triangulations = $\frac{122.02 + 122.00}{2}$ = 122.01 chs and 122.01 − 80.00 makes

42.01 Top of rim rock 1200 ft above valley brs N + S at this point

2100.6 Noon - lat observation was missed while climbing to top of ledge, I run west to

42.15 The nearest safe distance and set an iron post 3 ft long 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for witness to 1/4 sec. cor bet secs. 3 and 34, which falls on nearly vertical ledge, marked on brass cap T 26 S R 22 E 1/4 S 34 on N., WC on E and S 3 T 27 S R 22 E on S half from which a sand stone ledge marked + B O S 34 bears N 72°15' W 29 lks dist.

a pinon pine 8 ins diam bears S 30°40' E 29 lks dist mkd. WC 1/4 S 3 BT

Thence I continue west bet secs 3 and 34

42.75 Top of small sandstone spur 20 ft above W.C. bears N and S, descend

44.00 Bottom of canyon 75 ft below spur course S 30° W; ascend

North boundary of T 27 S R 22 E

Chains	
52.00	A sandstone pinacle 100 ft. high bears S 50 lks. dist.
57.00	Top of smooth sandstone knoll — 160 ft. above canyon, descend abruptly over steep sandstone ledges
61.00	Foot of smooth ledges bears N and S ascend
70.00	Top of smooth sandstone ledge or ridge 60 ft. above foot bears N and S descend over smooth sandstone ledges and pinacles
80.00	Point falls on smooth sandstone, therefore at
61.37	Set an iron post 3 ft. long 3 ins. in dia. 12 ins. in the ground on solid rock and surrounded by mound of stone for witness cor. to cor of secs 3 4, 33 and 34, mkd on brass cap T 26 S R 22 E in N, and T 27 S R 22 E in S and WC in W half; S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW., quadrant, from which, A pinon pine 10 ins. diam. bears N 88° 0' E 80 lks. dist. mkd WC T 26 S R 22 E S 34 BT A pinon pine 6 ins. diam. bears S 83° 30' E 71 lks. dist mkd WC T 27 S R 22 E S 3 BT A cedar 6 ins. diam. bears S 52° W 8 lks. dist. mkd. WC T 27 S R 22 E S 4 BT. A pinon pine 8 ins. diam. bears N 6° 30' W 47 lks. dist. mkd. WC T 26 S R 22 E S 33 BT Note, This cor. is located in a hollow or basin surrounded by smooth sandstone ledges. Very rough Mountainous land; soil, poor gravely loam, 6 to 12 ins. deep on sandstone, stony and dry on E 40 chs. with scarcely any

North boundary of T 27 S R 22 E.

Chains	
	soil on W. 40.00 chs. this being smooth sandstone ledges and pinacles. Timber, a few scattering cedars and pinon pine; Undergrowth, scattering sagebrush November 6 1911 Eric T Anderson U.S. Transitman
	November 7; sky overcast obs. impossible West bet. secs 4 and 33 Over very rough Mountainous land through scattering cedars and pinon pine descend over sandstone ledges and pinacles,
40.00	Point falls on sandstone ledge
42.40	Foot of sandstone ledge bears NW and S E
42.53	Set an iron post 3 ft. long, 1 in. in dia 26 ins in the ground for witness cor. to 1/4 sec cor. bet secs 4 and 33 Marked on brass cap T 26 S R 22 E 1/4 S 34 on N, WC on E., and S 4 T 27 S R 22 E on S. half; from which A pinon pine 8 ins. diam. bears N 57° W 37 lks. dist. Mkd. WC 1/4 S 33 BT A pinon pine 8 ins. diam. bears S 54° 30' E 41 lks. dist. Mkd. WC 1/4 S 4 BT.
Nov. 7.	At 11h 44m AM. lmt. I set off 16° 6' S on the decl. arc and observe the sun on the meridian at this cor. the resulting lat. is 38° 30'. which is very nearly the proper lat. ascend gently
52.00	Begin ascent over smooth sandstone ledge bears N 30° W and S 30° E
53.50	Top of ledge 125 ft. above foot bears NW. and S E. descend
61.00	Bottom of gulch 150 ft. below ledge house NW. ascend

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ctive notes
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this book.

North boundary of T 27 S R 22 E

Chains.	
66.50	Top of smooth sandstone ledge or ridge 100 ft above gulch bears NW and SE. descend
72.00	Bottom of gulch 125 ft. below ridge course NW, ascend.
75.50	Top of smooth ledge 100 ft. above gulch bears NW and SE; descend
79.25	Foot of ledge, small hollow, course SW
79.50	ascend over smooth sandstone knoll
80.00	Falls on smooth sandstone knoll mkd by x cut in ledge; at
79.25	Set an iron post 3 ft. long, 3 ins in dia 16 ins. in the ground on solid rock and surrounded by mound of stone for corners cor. to cor. of secs. 4, 5, 32 and 33, mkd on brass cap T 26 S R 22 E in N., WC in W., and T 27 S R 22 E in S half; S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW., quadrant from which A pinon pine 12 ins diam. bears N 51° 25' E 88 lks. dist. mkd W.C. T 26 S R 22 E S 33 BT A sandstone ledge mkd. x BOS 4 bears S 7° 30' E 29 lks. dist. A pinon pine 8 ins. diam bears S 10° 10' W 174 lks. dist mkd WC T 27 S R 22 E S 5 BT. A pinon pine 10 ins diam. bears N 3° 45' W 70 lks. dist. Mkd. - W.C. T 26 S R 22 E S 32 BT Rough mountainous land, westerly slope Soil, gravelly loam, 1 to 2 ft. deep between sandstone pinnacles and ledges. Timber scattering cedar and pinon pine Undergrowth, scattering sagebrush November 7 1911 Eric H Anderson U.S. Transitman

For corrective notes see page 1 of this book.

North boundary of T27S R22E.

Chains.

November 8; at 8h 14m am. Int. I set off 38°30' on the lat. arc; 16°21'S on the decl. arc and determine a meridian with the solar at cor point of secs 4 5 32 and 33 on N. bdy of Tp.; thence I run West bet secs 5 and 32

Over rough Mountainous land over sandstone ledges and pinacles, through scattering cedar and pinon pine timber ascend

0.70 Top of small sandstone knoll 20 ft above witness cor. bears N and S descend

1.90 Foot of same knoll 50 ft. below top bears NW and SE, descend over small greasewood flat through scattering timber

12.00 Gray sandstone pinacle 100 ft. base, 60 ft high bears S 50 lks. dist.

20.00 Wash 5 lks. wide 1 ft. deep course S

21.30 Foot of smooth sandstone spur bears NW and SE; ascend

23.80 Top of spur 100 ft. above foot bears N and S descend over ledges

28.00 Foot of ledge spur 100 ft. below bears N and S descend less abruptly

29.00 Wash 5 lks. wide 1 ft deep in bottom of hollow, course S

31.00 Foot of sandstone ledge ascend abruptly

37.00 Top of sandstone ledge 80 ft. above foot bears N and S descend over smooth sandstone

40.00 Point falls on sloping sandstone ledge therefore at

31.00 Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground, at base of ledge for witness cor. to 1/4 sec. cor. bet. secs 5 and 32 mkd. on brass cap. T26SR22E 1/4 S32 on N, WC on W, and S5 T27SR22E on S half from which

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ve notes
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is book.

North boundary of T 27 S R 22 E

Chains.	A pinon pine 8 ins. diam. bears N 93° 0' W 14 lks. dist. Mkd WC 1/4 S 32 BT A pinon pine 8 ins. diam. bears S 51° 20' E 130 lks. dist. Mkd WC 1/4 S 5 BT.	
Nov. 8 :-	At 11h 44m am. lmt. I set off 16° 24' S on the decl. arc and observe the sun on the meridian at this cor the resulting lat. is 38° 30'	
44.00	Bottom of hollow 125 ft. below ridge course S 20° W; ascend	
56.00	Top of sandstone ledge or ridge 85 ft. above hollow bears N and S. descend	
62.50	Descend abruptly over ledges bear N & S.	
65.00	Foot of ledges 150 ft. below top bears N and S at this point; descend over talus	
76.00	Wash 10 lks. wide, 1 ft. deep in bottom of canyon course NW; ascend gently	
80.00	Set an iron post 3 ft. long, 3 ins. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs. 5, 6, 31 and 32 Mkd. on bears cap T 26 S R 22 E on N., T 27 S R 22 E on S. half; S 31 in NW., S 32 in NE., S 5 in SE., and S 6 in SW., quadrant from which A pinon pine 8 ins. diam. bears N 85° 0' E 76 lks. dist. Mkd. T 26 S R 22 E S 32 BT. A pinon pine 6 ins. diam. bears S 28° 0' E 80 lks. dist. Mkd T 27 S R 22 E S 5 BT A cedar 10 ins. diam. bears S 52° 0' W 86 lks. dist. Mkd. T 27 S R 22 E S 6 BT. A pinon pine 6 ins. diam. bears N 88° W 68 lks. dist Mkd T 26 S R 22 E S 31 BT Rough Mountainous land, W slope soil, gravely loam, 6 to 12 ins. deep on sandstone, between ledges and pinacles. in hollows. coarse texture and dry. Timber, scattering cedar and pinon pine Undergrowth, scattering sagebrush	For corrective notes see page 49 of this book

North boundary of T27S R22E

Swing.

November 8 1911
Eric H Anderson
U.S. Transitman

November 9; at 8h 44m am. lmt. I set off 38°30' on the lat. arc; 16°39'S on the decl. arc, and determine a meridian with the solar at cor. of secs 5, 6, 31 and 32 on N bdy. of Tp. thence I run
West bet. secs 6 and 31
Over Mountainous land through scattering cedar and pinon pine timber and scattering sagebrush ascend over talus slope

7.00 Begin ascent over ledges bears N10°W and S10°E

10.30 Top of ledges, E edge of canyon 400 ft. above sec. cor. bears N10°W and S10°E ascent continues

14.50 Top of smooth sandstone ridge bears N and S; descend over smooth sandstone ledges

40.00 Point falls on sloping ledge, therefore at

39.86 Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground and surrounded by mound of stone for witness cor to 1/4 sec. cor. bet. secs 6 and 31
Mkd on brass cap T26S R22E 1/4 S 31 on N. WC on W., and S6 T27S R22E on S. half, from which.
A pinon pine 6 ins. diam. bears N62°E 18 lks. dist. Mkd. WC 1/4 S 31 BT
A pinon pine 7 ins. diam. bears S3°E 124 lks. dist. Mkd WC 1/4 S6 BT

42.60 Top of ledge 75 ft. high bears N30°E and S30°W

43.50 Foot of ledge bears same, descend over talus slope

69.50 Bottom of canyon 300 ft. below ridge

correc-
notes see
page 49, of
book.

North boundary of T27S R22E

Chains. Nov. 9: course SW
At 11h 44m am. lmt. I set off 16°42'S on the decl. arc and observe the sun on the meridian; the resulting lat. is 38°30' which is very nearly the proper lat. ascend

74.50 Foot of ledge 300 ft. high and nearly vertical, impossible to surmount, therefore

Set an iron post 3 ft. long 3 ins. in dia 16 ins. in the ground and surrounded by mound of stone for witness cor to cor of Tps 26 and 27 S Rs 21 and 22 E Mkd on brass cap T26S in N., WC in W., and T27S in S half

R21E S36 in NW.,
R22E S31 in NE.,
R22E S6 in SE., and
R21E S1 in SW., quadrant

raise a mound of stone 2½ ft. base 2 ft. high W of cor. the theoretical cor. point at

77.71 Falls on top of spur which is inaccessible from this vicinity.

Mountainous land; westerly slope, Soil, poor gravely loam in hollows, 6 to 18 ins. deep on sandstone, ridges composed of sandstone, (bare)
Timber, scattering cedar and pinon pine
Undergrowth, scattering sagebrush

November 9 1911
Eric H Anderson
U.S. Transitman

For corrective notes see page 49 of this boo

November 10; At 8h 14m am. lmt. I set off 38°30' on the lat. arc, 16°56'S on the decl. arc and determine a meridian with the solar at witness cor. above described on N bdy of Tp.
Thence in order to perpetuate W bdy of Tp. I run

Random West boundary of T 27 S R 22 E

Chains	S on offset line to point 4.40 chs. thence I run
	West on offset line to point 3.20 ch on W bdy of Tp. at base of perpendicular ledge 300 ft. high bears E and W at this point
	Set an iron post 3 ft. long 3 ins. in dia 18 ins. in the ground on solid rock and raise a mound of stone around post for cor. of Tps 26 and 27 S R 21 and 22 E Marked on brass cap T 26 S W C in N., and T 27 S in S. half
	R 21 E S 36 in NW.,
	R 22 E S 31 in NE.,
	R 22 E S 6 in SE., and
	R 21 E S 1 in SW., quadrant
	from which
	A sandstone boulder 20 x 12 x 8 ft mkd x B O S 6 bears S 64° 30' E, 146 lks. dist.
	A sandstone boulder 10 x 8 x 4 ft. mkd x B O S 1 bears S 32° 0' W 77 lks. dist.
	raise a mound of stone 3 ft. base 2 1/2 ft high S of cor.
	Thence I run
	South on a random line on W bdy of Tp, bet secs 1 and 6
40.00	Set temp 1/4 sec cor.
80.00	Set temp cor of secs 1 6 12 and 7
	S. bet secs 7 and 12
40.00	Set temp 1/4 sec cor.
	At 11h 44m apr. lmt. I set off 16° 58' S on the decl. arc and observe the sun on the meridian at this point the resulting lat is 38° 3.0'
80.00	Set temp cor. of secs 7 12 13 and 18
	S. bet secs 13 and 18
40.00	Set temp 1/4 sec cor
80.00	Set temp cor of secs 13, 18, 19, and 24

November 10 1911

Eric H Anderson

U.S. Transitman

Random West boundary of T27S R22E

Chains.	
	November 11; at 8:30 am, clouds obscure sun thereby preventing solar observation at temp cor of secs 13 18 19 and 24 on W bdy of Tp. Thence I run S on a random line bet secs. 19 and 24
40.00	Set temp 1/4 sec cor.
80.00	Set temp cor of secs 19, 24, 25 and 30 S. on random bet secs 25 and 30
40.00	Set temp 1/4 sec. cor.
80.00	Set temp cor of secs 25, 30, 31 and 36 S. on random bet secs 31 and 36
40.00	Set temp 1/4 sec. cor.
81.80	Intersect S. bdy. of Tp 30 lks W of cor. point of cor of TpS 27 and 28 S R's 21 and 22 E.
	November 11. 1911 Eric H Anderson U.S. Transitman

West boundary of T27S R22E.

November 13; at 8h44m am. lmt. I set off 38°25' on the lat. arc; 17°46' S. on the decl. arc; and determine a meridian with the solar at cor. point of Tp's 27 and 28 S R's 21 and 22 E. which is 2.47 chs. W of W.C. heretofore described

Thence I run

No. 2' W on a true line on W. bdy of Tp. bet. secs 31 and 36

Over mountainous land through scattering cedar and pinon pine timber and dense sagebrush ascend gently over smooth rock

1.50	Top of ridge 40 ft. above bears N70°E and S70°W descend over smooth ledges.
20.00	Foot of ledges bears N80°E and S80°W descend gently
28.30	Trail bears E and W
40.00	Set an iron post 3 ft. long, 1 in india,

West boundary of T 27 S R 22 E

Omins. 26 ins. in the ground for 1/4 sec. cor. bet. secs 31 and 36, mkd. on brass cap. 1/4 S 36 on W., and S 31 on E. half
from which
A cedar 16 ins. diam. bears S 43° 15' E 280 lks. dist. mkd 1/4 S 31 BT.
A pinon pine 6 ins. diam. bears N 60° 40' W 54 lks. dist. mkd 1/4 S 36 BT.

49.70 Top of ledge 30 ft. high bears NE and SW

54.50 Bottom of canyon 400 ft below ridge course N 30° E.

64.60 Edge of canyon 400 ft above bottom bears SE and N 10° W

74.50 N edge of some ledge bears N 30° E and S 15° W; ascend over boulders

80.00 Set an iron post 3 ft. long, 3 ins. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone, for cor of secs 25, 30, 31 and 36 mkd on brass cap
T 27 S in N half;
R 21 E S 25 in NW.,
R 22 E S 30 in NE.,
S 31 in SE., and
S 36 in SW.; quadrant
from which
A cedar 14 ins. diam bears N 27° 30' E 98 lks. dist. mkd T 27 S R 22 E S 30 BT
A cedar 12 ins. diam. bears S 7° 15' E 14 lks. dist. Mkd. T 27 S R 22 E S 31 BT.
A cedar 14 ins. diam bears S 55° 0' W 109 lks. dist. mkd T 27 S R 21 E S 36 BT
A ledge 4 ft. high mkd. x B O S 25 bears N 38° 0' W. 25 lks. dist.

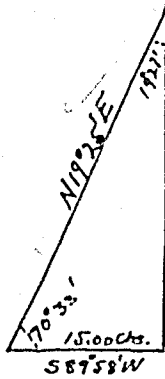
Nov. 13. At 1h 44m am lmt. set off 17° 48' S on the dec. arc and observe the sun on the meridian at this cor; the resulting lat. is 38° 26; which is very nearly the proper lat.
Note, The highest peak in the Sal Mountains bears N 84° 38' E

West Boundary of T27S R22E

chains

Another prominent peak in La Sal Mountains bears N 72°45' E
Another prominent peak in La Sal mountains bears N 78°30' E.
Mountainous land; Northerly slope.
Soil; gravelly loam 6 to 12 ins deep on sandstone coarse texture and dry
Timber, scattering cedar and pinon pine
Undergrowth, Sagebrush

N 0°2' W bet secs. 25 and 30
Over Mountainous land through scattering cedar and pinon pine and sage brush; descend gently
6.70 S edge of Hatchwash Canyon, top of nearly vertical ledge 400 ft high bts NW and SE. It being impossible to chain further I set flag on line on N side or edge of Canyon; then measure a base, S 89°58' W., 15 chs to a point from which the flag bears N 19°25' E; from the flag the W end of base brs S 19°25' W, therefore the dist. is tan 70°33' x base or 2.8317.6 x 15.00 chs = 42.47 chs, making the whole dist. from sec cor 6.70 + 42.47 = 49.17 which added to 0.40 make



49.57 The nearest safe distance
Set an iron post 3 ft long 1 in. in dia 12 ins. in the ground and surrounded by mound of stone for witness cor to 1/4 sec. cor. bet secs 25 and 30 Mkd on brass cap. T27S in N R 21 E 1/4 S 25 in W., WC in S., and R 22 E S 30 in E. half from which
A pinon pine 9 ins diam brs. N 84°10' E 69 lks dist mkd. WC 1/4 S 30 BT
A pinon pine 10 ins diam brs N 40°45' W 112 lks dist mkd WC 1/4 S 25 BT
ascend gently
55.00 Top of snake ridge bears E and W

West Boundary of T 27 S R 22 E

chains

descend

6600 Bottom of hollow or swale 25 ft below ridge course N 70° W; asc. gently

8000 Set an iron post 3 ft long 3 ins in dia 24 ins. in the ground for cor of secs 19, 24, 25 and 30 mkd on brass cap T 27 S in N., half
R 21 E S 24 in NW
R 22 E S 19 in NE "
S 30 in SE., and
S 25 in SW quadrant
from which
a cedar 5 ins. diam bears N 57° 30' E 130 lks. dist. Mkd. T 27 S R 22 E S 19 BT
a cedar 6 ins. diam bears S 48° 00' W 270 lks. dist Mkd. T 27 S R 21 E S 25 BT
a cedar 14 ins. diam brs. N 38° 11' W 107 lks. dist. Mkd. T 27 S R 21 E S 24 BT.
No tree in SE sec., dig pit 18 x 18 x 12 ins. 5½ ft dist and raise a mound of earth 4 ft base; 2 ft high W of cor
Mountainous land; westerly slope; Soil, gravelly loam 3 to 8 ins deep on rock or gravel subsoil, coarse texture, dry; Timber scattering cedar and pinon pine, and scattering sagebrush
November 13 1911 -
Eric H. Anderson
U.S. Transitman

November 14; at 8h 44m am. l.m.t. set off 38° 27' on the lat arc; 18° 02' S on the decl. arc and determine a meridian with the Solar at cor of secs 19, 24, 25 and 30 on W bdy of Tp. heretofore described
Thence I run
N 0° 2' W bet secs 19 and 24,
Over Mountainous land through scattering cedar and pinon pine timber

West boundary of T 27S, R 22E.

Chains.	
	and dense quaking aspen and sage-brush undergrowth; ascend gently
5.00	Top of small ascent bears E and W descend gently
19.50	Bottom of swale course S 80° W; ascend gently
34.00	Begin abrupt ascent over broken ledges bears NE and SW.
39.00	Top of ledges 100 ft. above foot bear E and W; ascend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 19 and 24 Marked on brass cap 1/4 S 24 on W., and S 19 on E. half from which A pinon pine tree 6 ins. diam. bears S 38° 50' E., 68 lks. dist. Mkd 1/4 S 19 BT A cedar 9 ins. diam. bears N 54° 40' W; 112 lks. dist. Mkd 1/4 S 24 BT
42.00	Top of ridge 20 ft. above 1/4 sec. cor bears E and W; descend gently
68.00	Begin abrupt ascent over broken ledges bears E and W
71.00	Top of ledges, 50 ft. above foot, S edge of rolling mesa, bears E and W ascend gently
75.00	Top of gentle ascent 10 ft. above edge of mesa bears E and W descend gently
80.00	Set an iron post 3 ft. long, 3 ins. in dia 24 ins. in the ground for cor of secs 13, 18, 19 and 24. Mkd on brass cap T 27S in N half R 21 E S 13 in NW., R 22 E S 18 in NE S 19 in SE., and S 24 in SW., quadrant from which A cedar 20 ins. diam. bears N 65° 30' E

West boundary of T27S R22E

Chains.	120 lks. dist mkd. T27S R22E S18BT. A pinon pine 30 ins. diam. bears S58°10'E 326 lks dist. Mkd. T27S R22E S19BT A cedar 6 ins. diam bears S36°30'W; 241 lks. dist. Mkd T27S R21E S24BT No tree in NW sec. therefore dig pit 18 X 18 X 12 ins 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W of cor
Nov. 14:	At 11h44m am. lint, I set off 18° 3' S on the decl. arc and observe the sun on the meridian at this cor.; the resulting lat. is 38 28 nearly. Mountainous land; Southerly slope soil sand and gravel loam 3 to 18 ins. deep on rock and gravel subsoil. Timber, scattering cedar and pinon pine Undergrowth greasewood and sagebrush.
	N 0°2' W bet secs 13 and 18. Over mountainous land through scattering cedar and pinon pine timber and undergrowth of greasewood and sagebrush. descend gently
14.00	Bottom of swale 15 ft. below sec cor. course N 30° E ascend
16.00	Top of ridge 25 ft. above swale bears N 30° W and S 30° E descend
27.00	Bottom of hollow 40 ft. below ridge course NE ascend
31.50	Top of ledge spur 50 ft. above hollow bears E and W, descend
40.00	Set an iron post 3 ft. long 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for ¼ sec cor. bet. secs 13 and 18 Mkd on brass cap ¼ S13 on W., and S18 on E. half, from which A cedar 6 ins. diam. bears S39°30'E

West boundary of T 27S R 22E

Chains.	
	20 lks. dist. mkd 1/4 S 18 BT
	A pinon pine 8 ins. diam bears S 64°25' W
	184 lks. dist. mkd 1/4 S 13 BT.
40.25	Bottom of hollow course N 20° E ascend
63.00	Top of ridge 40 ft. above hollow bears NE and SW.
Nov. 14:	At 3h 14m p.m. l.m.t. ☽ set off 38°28' on the lat. arc and 18°5' S on the decl. arc and determined a meridian with the solar at this point; descend
76.00	Descend over broken sandstone ledges bears N 30° E and S 30° W
80.00	Set an iron post 3 ft. long, 3 ins. in dia. 12 ins. in the ground and surrounded by mound of stone for cor of secs. 7 12 13 and 18
	Mkd. on brass cap T 27S in N half R 21E S 12 in NW., R 22E S 7 in NE., S 18 in SE., and S 13 in SW., quadrant
	from which
	A pinon pine 14 ins. diam. bears N 64°30' E 290 lks. dist. mkd T 27S R 22E S 7 BT
	A pinon pine 8 ins. diam. bears S 27°45' E 111 lks. dist. mkd. T 27S R 22E S 18 BT
	A cedar 18 ins. diam bears S 57° W 70 lks. dist. mkd. T 27S R 21E S 13 BT
	A pinon pine 4 ins. diam. bears N 84°30' W 109 lks. dist. mkd. T 27S R 21E S 12 BT
	Mountainous land; N slope; soil sand and gravel loam 6 to 12 ins. deep on sandstone, dry. Timber scattering cedar and pinon pine
	Undergrowth, greasewood and sagebrush

November 14 1911.
Eric H Anderson
U.S. Transitman

West boundary of T 27 S R 22 E

Chains.	
	November 15; at 8h 45m am. lmt. I set off 38° 28' on the lat. arc; 18° 17' S on the decl. arc and determine a meridian with the solar at cor of secs 7, 12, 13 and 18 on W. bdy of Tp
	Thence I run
	N 0° 2' W bet. secs 7 and 12
	Over mountainous land through cedar and pinon pine timber, and scattering sagebrush undergrowth
	descend
1.10	Wash 80 lks. wide 10 ft deep course NE
	ascend
12.00	Top of spur 40 ft. above wash bears NE and SW; descend
36.30	Bottom of hollow 60 ft. below spur course N 60° E; ascend
39.40	Ledge 10 ft. high bears NE and SW.
40.00	Set an iron post 3 ft. long 1 in. in dia 12 ins. in the ground and surrounded by mound of stone for 1/4 sec. cor. bet. secs. 7 and 12. Mkd on brass cap 1/4 S 12 on W., and S 7 on E half
	from which
	A pinon pine 5 ins. diam. bears N 42° 40' E 36 lks. dist. mkd 1/4 S 7 BT.
	A pinon pine 6 ins. diam bears N 24° 30' W 48 lks. dist. mkd. 1/4 S 12 BT
	ascend gently
57.00	Top of spur 50 ft. above 1/4 sec cor. bears E and W descend
66.00	Bottom of hollow 30 ft. below spur course E
	ascend
73.00	Top of spur 90 ft. above hollow bears E and W
Nov. 15	At 11h 45m am. lmt. I set off 18° 20' S on the decl. arc and observe the sun on the meridian at this point the resulting lat. is 38° 29' very nearly
	descend
79.32	S. edge of small box canyon bears NW and SE; descend abruptly over ledges

West boundary of T27SR22E

Chains	
80.00	Set an iron post 3 ft. long, 3 ins. in dia 16 ins. in the ground and surrounded by mound of stone for cor of secs 1, 6, 7 and 12 marked on brass cap T 27 S in N. half R21E S1 in NW., R22E S6 in NE., S 7 in SE., and S 12 in SW., quadrant from which A pinon pine 8 ins. diam. bears N78°E 63 lks. dist. Mkd T27SR22E S6 BT A pinon pine 6 ins. diam. bears S88°E 26 lks. dist. Mkd. T 27S R22E S 7 BT A pinon pine 10 ins. diam. bears S12°30'W 54 lks. dist. Mkd. T27S R21E S 12 BT A pinon pine 8 ins. diam. bears N20°W 80 lks. dist. Mkd. T 27S R21E S 1 B.T. Mountainous land; Northerly slope Soil, gravelly loam 3 to 18 ins. deep on sandstone in place; coarse texture and dry; Timber, scattering cedar and pinon pine. Undergrowth, scattering sagebrush
	No. 2. W bet secs 1 and 6 Over Mountainous land through scattering cedar and pinon pine and sagebrush; descend over talus slope
1.00	Bottom of box canyon 150 ft. below top course N20°W; descend abruptly
4.50	N edge of same canyon 150 ft. above bottom bears N20° W and S 30° E ascend gently
5.00	Top of ridge 25 ft. above edge of canyon bears N30° W and S 30° E; descend
29.00	Descend over ledges bears N20° E and S 20° W

West boundary of T27SR22E

Chains.

32.00 Bottom of same canyon course N10°E thence along wash

35.00 Junction of wash from Pritchot canyon comes from S20°E course N10°W Leave wash, and thence over nearly level land in canyon bottom

40.00 Set an iron post 3 ft. long 1 in. in dia 26 ins. in the ground for 1/4 sec. cor. bet. secs 1 and 6 mkd on brass cap 1/4 S1 on W., and S6 on E half from which
A cedar 9 ins. diam bears N18°0'E. 130 lks. dist. mkd. 1/4 S6 BT
A cedar 6 ins. diam bears S86°0'E. 219 lks. dist. Mkd. 1/4 S1 BT
ascend gently

44.00 Foot of broken ledges bear NW and SE

45.00 Top of ledges 60 ft. above foot of ledges bears NW and SE

Nov. 15: At 3h 15m p.m. Lmt. I set off 38°30' on the lat. arc; 18°21' S on the decl. arc and determine a meridian with the solar at this point; descend gently

53.60 Begin more abrupt descent bears E and W

56.00 Bottom of hollow 30 ft. below course N80°W ascend

59.40 Top of small spur 20 ft. above hollow bears E and W descend gently

63.00 Bottom of hollow 30 ft. below spur course N80°W. ascend

75.00 Begin ascent of talus slope bears E and W

77.40 The witness cor. to cor of Tps ~~26 and~~ 27S Rs 21 and 22 E heretofore described

81.80 The true cor. point falls on top of high ledge, impossible to reach point.
Mountainous land; Northerly slope;
Soil, sand and gravel loam 3 to 12 ins deep on rock and gravel subsoil
Timber scattering cedar and pinon pine

West boundary of T. 27 S R 22 E

Undergrowth, scattering short greasewood and sagebrush
November 15, 1911
Eric H Anderson
U.S. Transitman

BOUNDARIES OF T. 27 S., R. 22 E.

Latitudes, departures and closing errors.

Line signated	True Bearing	Dist. Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
Bdy.	West	477.37				477.37
Bdy.	N 0°02'W	481.80	481.80			.30
Bdy.	East	477.86			477.86	
Bdy.	S 0°03'W	160.62		160.62		.14
Bdy.	S 0°04'W	80.29		80.29		.10
Bdy.	S 0°05'W	80.11		80.11		.12
Bdy.	South	160.36		160.36		
vergency					.57	
Totals			481.80	481.38	478.43	478.03
			481.38		478.03	
			.42 Error in lat.		.40 Error in dep.	

GENERAL DESCRIPTION.

See subdivision of T. 27 S., R. 22 E.

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Page

Filed March 4, 1916.

Corrections on the North Bdy. of T.27 S.,R.22 E.

Chains		
	December 11, 1915.	
	I find the W.C. $\frac{1}{4}$ sec. cor. heretofore described by E.H. Anderson, U.S.Transitman, as being set (erroneously) for secs. 4 and 33, to already have been corrected, so that this W.C. $\frac{1}{4}$ sec. cor. refers to sec. 4 only, and there are no marks on the cor. or on the accessories that pertain to sec. 33.	See N.bd page 2
	The W.C.C.C. of secs. 32 and 33, T.26 S.,R.22 E., as heretofore described by J.W.Dougall, bears West, .5 lks dist.	
	I destroy all marks of the cor. of secs. 4, 5, 32 and 33 heretofore described by E.H.Anderson, that pertain to secs. 32 and 33. The marks on the brass cap for secs. 32 and 33 have already been effaced.	See N.bd page 31
	I destroy all marks of the W.C. $\frac{1}{4}$ cor. bet. secs. 5 and 32 heretofore described by E.H.Anderson, that pertain to sec. 32. The marks on the brass cap for sec. 32 have already been obliterated.	See N.bdy p.32.
	I destroy all marks of the cor. of secs. 5, 6, 31 and 32 including the B.Ts., that pertain to secs. 31 and 32.	See N.bdy page 32
	All marks of the W.C. to $\frac{1}{4}$ sec. cor. bet. secs. 6 and 31, heretofore described by E.H.Anderson, have already been defaced, and this cor. refers to secs 6 only.	See N.bdy page 34.
	I destroy all marks of the witness cor. to cor. of Ts. 26 and 27 S., Rs. 21 and 22 E., heretofore described by E.H.Anderson, that pertain to Ts. 26 S., Rs. 21 and 22 E.,	See N.bdy page 35

Corrections on the North Boundary of T.27 S., R.22 E.

destroy the mound of stone, and rebuild a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft, high, south of the cor.

Thos. O. Cathcart
U. S. Transitman,

Dec. 11, 1915

Volume
#
R0415

4—680

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants for Scott P.Stewart and Eric H.Anderson U.S.Transitmen, see book "J" T.27 S., R.23 E.

For certificate of assistants for Thomas C.Rathbone, U.S.Transitman, see book "M" T. 26 S., R. 22 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oaths of Scott P.Stewart and Eric H.Anderson, U.S.Transitmen, see book "J" T.27 S., R.23 E.
For final oath of Thomas C.Rathbone, U.S.Transitman, see book "M" T.26 S., R.22 E. ..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, May 31, 1916

The foregoing field notes of the ~~xxxxxxx~~ retracement and survey of the east and north, and survey of the south and west boundaries of Township No.27 South, Range No.22 East, of the Salt Lake Base and Meridian, Utah,

executed by Scott P.Stewart, Eric H.Anderson, and Thomas C.Rathbone under ~~XX~~ special instructions dated September 7, 1911, and supplemental special instructions dated Sept.9,1915, ~~191~~ , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and surveys they describe, are hereby approved.

.....
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

6—7761

Filed March 28, 1912.
WSH.

165

4—670

BOOK A-415
G.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 27 SOUTH,

RANGE NO. 22 EAST,

Of the SAL. LAKE [illegible] *Meridian,*

in the State of UTAH

EXECUTED BY

[illegible]

in the capacity of U. S. Transitmen *~~Surveyor~~, under instructions dated* Sept. 7 *, 1911,*

issued by the United States Surveyor General to govern surveys included in

Group No. 15 *, which were approved by the Commissioner of the General Land*

Office, September 19 *, 1911, pursuant to authority contained in the Act of*

Congress dated *, 191*

Survey commenced November 12 *, 1911*

Survey completed December 2 *, 1911.*

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BOOK A-415

INDEX DIAGRAM.

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31	32	33	34	35	36

6—151

Subdivision of T 27 S R 22 E.

Survey commenced November 12 1911 and executed with a W & L. E. Gurley explorers transit No 956, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to 30" of arc. which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City found correct, and was approved by the surveyor general for Utah April 22, 1911.

I examine the adjustments of the transit, and correct the level and collination errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during am, and pm hours with a meridian determined by observation on Polaris, I proceed as follows.

At cor of secs 1 2 35 and 36 on S bdy of Tp. heretofore described latitude 38°25' N, longitude 109°30' W; I set off 38°25' N on the lat. arc; 17°35' S on the decl. arc and at 3h 14m p.m. l.m.t. determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground 5 chs N of the cor.

November 12 1911

November 13 At 3h 59m am. l.m.t. I observe Polaris at western elongation in accordance with Manual of instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs. N of

Chains.	
	my station At 7:30 a.m. Lat. I lay off the azimuth of Polaris 1°29' to the east and mark the meridian thus determined by a mark on stone set Nov. 12 on which the meridian falls 0.45 ins. west of the mark determined by the Solar At 8h 4m a.m. Lat. I set off 38°25' on the lat arc; 17°46' S. on the decl arc; and mark a point in the meridian determined with the Solar, by a mark on the stone already set 5 chs. N of my station; this mark falls 0.4 ins. west of the meridian established by the Polaris observation. The Solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about 0'23" east and 0'21" west of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory The magnetic bearing of the true meridian at 8:30 a.m. is N 6°10' W; the angle thus determined gives the magl decl. 16°10' E
	Thence I run N 0° 1 W bet secs 35 and 36 Over mountainous land through cedar and pinon pine timber and scattering sagebrush; ascend gently
5.00	Begin abrupt ascent over broken ledges bear E and W
10.00	Top of ledges, South edge of small mesa 15 ft above sec cor bears E and W ascend gently

Subdivision of T 27 S. R 22 E

Chains.	
27.50	Top of ridge 50 ft above gentle ascent bears E and W. descend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground for 1/4 sec cor. bet secs 35 and 36 marked on brass cap 1/4 S 35 on W., and S 36 on E half from which a pinon pine 12 ins. diam bears S 60° 30' E 156 lks. dist. marked 1/4 S 36 BT A pinon pine 12 ins. diam. bears S 42° 30' W 142 lks. dist. marked 1/4 S 35 BT. descend gently
66.00	Begin abrupt descent over broken ledges bears E and W
74.00	Foot of ledges 90 ft. below top bears E and W. Have timber outer sagebrush bears E and W; descend gently
80.00	Set an iron post 3 ft. long, 2 ins. in dia 24 ins. in the ground for cor of secs 25, 26, 35 and 36 marked on brass cap T 27 S R 22 E S 26 S 25 in N. half S 36 in SE, and S 35 in SW, quadrant from which a cedar 10 ins. diam bears S 80° 40' E 165 lks. dist. marked T 27 S R 22 E S 36 BT No other trees being available, dig pits 18 x 18 x 12 ins in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft base, 2 ft high W of cor Mountainous Mesa land; Northerly slope soil, poor gravely loam, 6 to 12 ins deep on gravel and rock subsoil, dry, Timber, cedar and pinon pine 74 ch Undergrowth, scattering sage brush and a little bunch grass.
	E on a random line bet secs 25 and 36
40.00	Set temp 1/4 sec cor.
80.00	Intersect E bdy. of Tp at cor of secs

Subdivision of T 27 S R 22 E.

Chains	25 30, 31 and 36, heretofore described
Nov. 13:	At 11h 44m am lmt. I set off 17°49' S on the decl. arc; and observe the sun on the meridian at this cor the resulting lat is 38°26' very nearly. Thence I run
	West on a true line bet secs 25 and 36
	Over rolling mountainous land through heavy timber and scattering sagebrush
13.00	Top of ledges, E edge of mesa 100 ft. above sec. cor. bears N and S.; ascend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground for 1/4 sec cor bet secs 25 and 36 marked on brass cap 1/4 S 25 on N., and S 36 on S. half from which
	A pinon pine 4 ins. diam. bears N 77°0' W 69 lks. dist. marked 1/4 S 25 BT.
	A cedar 6 ins. diam. bears S 51°0' E 26 lks. dist. marked 1/4 S 36 BT.
43.50	Begin abrupt descent over broken ledges bears N 70° E and S 70° W
63.50	Foot of ledges 150 ft below top bears N 70° E and S 70° W; leave timber enter greasewood bears NW and SE descend gently into valley.
78.00	Wash 15 lks wide 1 ft. deep course N
80.00	The cor of secs 25, 26, 35 and 36
	Rolling mountainous land: Northerly slope soil gravely loam 6 to 18 ins deep on gravel and rock subsoil in valleys, washed on slopes, dry, coarse texture, Timber, cedar and pinon pine 63.50 chs. Undergrowth scattering sagebrush and greasewood
	November 13 1911

November 14, At 8h 14m am. lmt. I

Subdivision of T 27 S R 22 E

Chains.	
	Set off 38°26' on the lat. arc; 18.0'S on the decl. arc; and determine a meridian with the solar at cor of secs 25, 26, 35 and 36. Thence I run
	N 0°1' W bet secs 25 and 26
	Over rolling mountainous land through dense sagebrush and artemisia brush; descend gently
7.40	Wash 20 lks. wide 4 ft. deep course N 20° W
10.75	Road bears N 80° E and S 80° W
20.30	Wash 70 lks. wide 4 ft. deep in broad hollow course S 80° W; ascend gently
30.00	Top of ridge 100 ft. above hollow bears E and W; descend
40.00	Set an iron post 3 ft. long 1 in in dia, 26 ins in the ground for 1/4 sec cor. bet. secs. 25 and 26. marked on brass cap 1/4 S 26 on W., and S 25 on E half from which
	a cedar 12 ins. in diam bears S 8° 20' E 151 lks. dist marked 1/4 S 25 BT
	A pinon pine 6 ins. diam bears N 31° 40' W 223 lks. dist. Marked 1/4 S 26 BT.
	Entire timber bears E and W
42.00	Wash 60 lks. wide 4 ft. deep in bottom of hollow 30 ft. below ridge course SW ascend over smooth sandstone ledges
70.00	Top of ridge 250 ft above wash bears N 20° W and S 20° E; descend
78.00	Head of hollow 100 ft. below ridge course S 30° E; descend along side of gulch in solid sandstone
80.00	Pt. falls on smooth sandstone surface, where I make a X and 23 lks. N. Set an iron post 3 ft. long 2 ins. in dia, 12 ins. in the ground on solid rock and surrounded by mound of stone for witness cor to cor of secs 23 24 25 and 26 marked on brass cap

Subdivision of T27SR22E

Trains	T27SR22E S23 S24 in N. half, WC near S edge, S25 in SE, and S26 in SW, quadrant from which A pinon pine 4 ins. diam. bears N19°40'E 76 lks dist. marked WC T27SR22E S24 BT A pinon pine 8 ins. diam bears S6°0'E 75 lks. dist. marked WC T27SR22E S25 BT A pinon pine 10 ins diam. bears S 30°30'W 104 lks. dist. Marked WC T27SR22E S26 BT A pinon pine 12 ins. diam. bears N48°45'W 81 lks. dist. Marked WC T27SR22E S23 BT Rolling mountainous land, SW Slope, S40 chs. Soil sand and gravel loam with some clay 1 to 2 ft. deep on gravel subsoil, medium texture, fairly moist; undergrowth sagebrush and greasewood, No timber N40. chs, soil poor gravely loam 3 to 12 ins. deep on sandstone, dry, coarse texture, Timber, cedar and pinon pine undergrowth scattering sagebrush and grass
	E. on a random line bet. secs 24 and 25
40.00	Set temp 1/4 sec cor
80.02	Intersect E bdy. of Tp 40 lks. S of cor of secs. 19, 24, 25 and 30 heretofore described Thence I run S89°43'W on a true line bet secs 24 and 25 Over rolling mountainous land through sagebrush and artemesia descend gently
5.00	Enter cedar and pinon pine timber bears N and S.

Subdivision of T 27 S R 22 E

Chains.	
6.20	Wash 20 lks. wide 8 ft. deep course S 20° W
28.60	Wash 10 lks. wide 4 ft. deep course S ascend
35.70	Top of ridge bears N and S; descend
40.01	Point falls on ledge, mark x in rock ¼ cor. not set.
40.12	Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for witness cor to ¼ sec cor bet secs 24 and 25 marked on brass cap T 27 S R 22 E ¼ S 24 on N half; W C near E edge and S 25 on S half from which A pinon pine 6 ins diam. bears N 26° 30' E 55 lks. dist. marked W C ¼ S 24 BT. A pinon pine 6 ins. diam bears S 34° 0' E 161 lks dist. marked W C ¼ S 25 BT.
44.25	Bottom of hollow 140 ft. below ridge course S, ascend
69.00	Top of ridge 140 ft above hollow bears N and S.
Nov. 14:	At 11h 44m am. lmt I set off 18° 3' S on the decl. arc; and observe the sun on the meridian at this point; the resulting lat. is 38° 27 nearly, descend
79.70	Bottom of gulch in solid sandstone 130 ft. below ridge course S 10° E ascend
80.02	The cor of secs 23, 24, 25 and 26 Rolling mountainous land; S slope; soil gravely loam 3 to 12 ins. deep on sandstone and gravel subsoil, dry, coarse texture. Timber, cedar and pinon pine 75 lks. Undergrowth sagebrush, artemisia and a little grass.

N 0° 4' E bet secs 23 and 24

Subdivision of T 27 S R 22 E

Chains.	
	Over Mountainous land through heavy cedar and pinon pine timber and artemisia brush; ascend over smooth sandstone ledges
3.50	Top of ridge 50 ft above sec cor bears N 20° W and S 20° E, descend
12.40	Bottom of hollow 30 ft. below ridge course S 10° E; ascend
26.20	Sand knoll 20 ft high on line, cone shaped.
40.00	Set an iron post 3 ft. long, 1 in in dia 26 ins. in the ground for 1/4 sec cor bet secs. 23 and 24 Marked on brass cap 1/4 S 23 on W., and S 24 on E half; from which A pinon pine 18 ins. diam. bears S 79° 25' E; 85 lks. dist. marked 1/4 S 24 BT. A pinon pine 8 ins. diam bears S 44° 15' W. 91 lks. dist. marked 1/4 S. 23 BT.
42.00	Top of ridge 300 ft. above sec cor bears N 10° W and S 10° E descend
55.20	Bottom of hollow 150 ft. below ridge course S 30° E; ascend
59.50	Top of ridge 20 ft. above hollow bears E and W.
nov. 14	At 3h 45m pm. lint I set off 38° 27' on the lat. arc; 18° 6' S on the decl. arc; and determine a meridian with the solar at this point.
61.60	Bottom of same hollow 20 ft. below ridge Course S 30° W. ascend
75.80	Begin abrupt ascent over ledges bear N 20° E and S 20° W.
80.00	Point falls on smooth sandstone ledge, cor. cannot be set, therefore I mark x and at
80.92	Nearest safe point on top of ledge Set an iron post 3 ft. long, 2 ins. in dia 12 ins. in the ground and surrounded by mound of stone for witness cor to cor of secs 13, 14,

Subdivision of T27S R22E

Chains.

23 and 24 marked on brass cap
T27S R22E S14 S13 in N., half
WC near S edge, S24 in SE., and
S23 in SW., quadrant
from which
A pinon pine 14 ins. diam bears N15°30'E
60 lks. dist. marked WC T27S R22E S13 BT
A pinon pine 4 ins. diam bears S68°0'E
13 lks. dist. marked WC T27S R22E S24 BT
A pinon pine 12 ins. diam bears S30°0'W
63 lks. dist. marked WC T27S R22E S23 BT
A pinon pine 12 ins. diam. bears N55°30'W
117 lks. dist. Marked WC T27S R22E S14 BT
Mountainous land; SE. slope;
soil gravelly loam 4 to 12 ins. deep
on gravel and rock subsoil, dry
coarse texture
Timber, heavy cedar and pinon pine
Undergrowth, scattering sagebrush
and artemisia brush
November 14 1911

November 15, at 8h 15m am. Lmt. I
set off 38°28' on the lat. arc, 18°16' S
on the decl. arc, and determine a
meridian with the solar at
Cor. point of secs 13 14 23 and 24
Thence I run
E. on a random line bet secs 13 and 24
40.00 Set temp 1/4 sec cor
79.98 Intersect E. bdy of Tp 75 lks S of
cor. of secs 13, 18, 19 and 24 hereto fore described
Set an iron post 3 ft. long 2 ins in
dia. 24 ins in the ground for closing
Cor of secs 13 and 24 marked on
brass cap T27S in N half
R22E S13 in NW,

Subdivision of T 27 S R 22 E

Chains	
	R 23 E S 18 in NE.,
	S 19 CC in SE., and
	S 24 in SW., quadrant, from which
	A pinon pine 8 ins. diam bears S 26° 0' W
	149 lks. dist marked T 27 S R 22 E S 24 BT
	A pinon pine 10 ins. diam bears N 51° 0' W
	151 lks. dist. marked T 27 S R 22 E S 13 BT
	Destroy marks on cor. pertaining to sec 13 and 24. Thence
	West on a true line bet. secs 13 and 24
	Over Mountainous land through
	cedar and pinon pine timber
	ascend
16.50	Top of abrupt ascent, top of canyon
	wall forming west side of valley
	600 ft above closing cor. descend
	less abruptly over sandstone ledges
26.50	Top of ridge bears N and S
38.00	Bottom of hollow 100 ft. below ridge
	course S 45° W. ascend
39.99	Set an iron post 3 ft. long, 1 in. in dia
	18 ins. in the ground on solid rock
	and surrounded by mound of
	stone. for 1/4 Sec cor. bet. 13 and 24
	marked on brass cap 1/4 S 13 on N.,
	and S 24 on S half from which
	A pinon pine 14 ins. diam. bears N 44°
	15' E 116 lks. dist marked 1/4 S 13 BT
	A cedar 14 ins. diam. bears S 36° 45' E
	68 lks. dist. marked 1/4 S 24 BT.
42.00	Top of ridge 100 ft. above hollow bears
	N and S; descend
47.00	Bottom of hollow 40 ft. below ridge
	course S 30° W; ascend
48.30	Top of ridge 50 ft. above hollow bears N and
	S; descend
61.20	Bottom of rough hollow or head of canyon
	in ledges 200 ft. below ridge course
	S 30° W. ascend
64.30	Top of ridge 100 ft. above hollow bears
	N and S; descend
67.00	Head of hollow 70 ft. below ridge

Subdivision of T27S, R22E.

Chains.	
	Course S; ascend
70.50	Top of ridge 80 ft above hollow bears N and S; descend
77.80	Bottom of hollow 140 ft. below ridge course S; ascend
79.98	The cor. point of secs 13 14 23 and 24, 100 ft. above hollow. Mountainous land: S slope, Soil, gravely loam 6 to 12 ins. deep on rock and gravel subsoil, dry, coarse texture. Timber heavy cedar and pinon pine Undergrowth, a few scattering sagebrush.
	N 0° 3' E bet. secs 13 and 14 Over mountainous land through scattering cedar and pinon pine timber ascend over sandstone ledges and sharp pinacles.
10.90	Top of sharp ridge 100 ft. above witness cor bears N 20° W and S 20° E; descend
11.50	Bottom of deep gulch in solid rock 70 ft. below ridge course N 20° W ascend
19.00	Top of series of ledges 150 ft. above gulch bears E and W
Nov. 15:-	At 11h 45m am Lmt. I set off 18° 20' S on the decl. arc and observe the sun on the meridian at this point; the resulting lat. is 38° 28'.; descend abruptly
21.00	Foot of abrupt descent bears E and W
30.00	Bottom of canyon 300 ft. below sandstone ridge course S 80° W ascend along bottom of same canyon
37.00	Leave bottom of canyon, ascend West slope
40.00	Point falls on ledge, 1/4 sec cor cannot be

Subdivision of T 27 S R 22 E

Chains.	
	set, therefore at
40.50	Set an iron post 3 ft. long 1 in. in dia 18 ins. in the ground and surrounded by mound of stone for witness cor to 1/4 sec cor bet secs 13 and 14 Marked on brass cap T 27 S R 22 E in N half, 1/4 S 14 in W half, S 13 in E half and WC in S half from which A pinon pine 14 ins. diam. bears S 43° 45' E, 29 lks. dist. Marked WC 1/4 S 13 BT A cedar 12 ins. diam. bears S 82° 0' W 34 lks. dist. marked WC 1/4 S 14 BT
40.60	Foot of ledge 30 ft. high bears E and W.
48.00	Top of ledge 80 ft high bears N 10° W and S 10° E, descend over ledges
63.00	Bottom of Same Canyon 250 ft. above last crossing, course S 10° E, ascend over ledges
68.00	Top of ledge 200 ft. high bears N 10° W and S 10° E.; ascend
70.00	Top of ridge 250 ft. above canyon bears N 80° W and S 80° E.
80.00	Point falls on broken ledges cor. not set; at
80.70	Set an iron post 3 ft. long, 2 ins. in dia. 14 ins. in the ground and surrounded by mound of stone for witness cor to cor of secs 11, 12, 13 and 14 Marked on brass cap T 27 S R 22 E S 11 S 12 in N half, WC near S edge, S 13 in SE and S 14 in SW, quadrant, from which A cedar 12 ins. diam bears N 47° 30' E 22 lks. dist. marked WC T 27 S R 22 E S 12 BT A pinon pine 12 ins. diam bears S 14° 0' E 97 lks. dist. marked WC T 27 S R 22 E S 13 BT A pinon pine 10 ins. diam. bears S 29° 30' W 51 lks. dist. Marked WC T 27 S R 22 E S 14 BT A pinon pine 5 ins. diam bears N 33° 15' W 46 lks. dist. Marked WC T 27 S R 22 E S 11 BT
	Rough mountainous land; S slope;

Subdivision of T 27 S, R 22 E.

Chains. soil, poor gravely loam 3 to 12 ins deep on sandstone in place
Timber, scattering cedar and pinon pine.
Undergrowth; scattering sagebrush
November 15 1911.

November 16 at 8h 15m am. lmt I set off 38° 28.' on the lat arc, 18° 33' S on the decl. arc and determine a meridian with the solar at cor. point of secs 11, 12, 13 and 14.
Thence I run
East on a random line bet secs 12 and 13
40.00 Set temp 1/4 sec cor.
80.25 Intersect E bdy of Tp 108 lks S of cor of secs 7, 12, 13 and 18 heretofore described
Set an iron post 3 ft. long 2 ins. in dia 24 ins. in the ground for closing cor. of secs 12 and 13 marked on brass cap T 27 S in N half, near N edge,
R 22 E S 12 in NW.,
R 23 E S 7 in NE.,
S 18 CC in SE., and
S 13 in SW., quadrant.
raise a mound of stone 2 ft. base 1 1/2 ft high W of cor. Pits impracticable
Destroy marks on cor pertaining to secs 12 and 13 Thence
West on a true line bet. secs 12 and 13
Over gently rolling land through sagebrush and some greasewood
5.65 Telephone line bet. Moab and Monticello bears N 31° W and S 31° E
8.75 Wash 50 lks. wide 8 ft. deep course N 20° W

Subdivision of T 27 S R 22 E.

Chains.	
12.65	Road between Monticello & Moab bears N 30° W 18.3
25.30	Leave valley begin abrupt ascent bears N 20° W and S 20° E; Enter cedar and pinon pine timber bears N 20° W and S 20° E.
40.12½	Set an iron post 3 ft. long 1 in. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 12 and 13 marked on brass cap 1/4 S 12 on N., and S 13 on S., half from which A pinon pine 6 ins. diam bears N 20° 30' W 46 lks. dist. marked 1/4 S 12 BT A pinon pine 12 ins. diam bears S 4° 30' E 9 lks. dist. marked 1/4 S 13 BT.
45.50	Top of ridge 50 ft above 1/4 Sec. Cor. bears NE and SW. descend
48.25	Head of hollow 40 ft. below ridge course NE. ascend over ledges
58.75	Foot of ledge 300 ft high bears N and S
60.30	Top of ledge 1000 ft above C.C. bears N and S; ascend gently
78.65	Top of small ridge bears N and S descend
80.25	The cor. point of secs 11, 12, 13 and 14 40 ft. below ridge E. 25 chs, Gently rolling land; N slope; Soil sandy loam with some clay 1 to 3 ft. deep on sand and gravel subsoil; medium texture, dry, Undergrowth sagebrush and greasewood No timber, N 55.25 chs, Rough Mountainous land Northerly slope; Soil gravelly loam 3 to 12 in deep on sandstone, stony, washed on slopes, Coarse texture and dry Timber, cedar and pinon pine Undergrowth, scattering sagebrush

Subdivision of T 27 S R 22 E

Chains.	
	N 0° 2' E bet secs 11 and 12 Over mountainous land through heavy cedar and pinon pine timber and scattering sagebrush descend
2.80	Head of hollow 30 ft. below sec cor. course N 80° W ascend
9.00	Top of main divide, ridge 30 ft above hollow bears N 30° W and S 10° E,
Nov. 16	At noon, sky overcast, prevents observation
	descend over small sandstone ledges
28.20	Edge of ledge 300 ft. high bears N 30° W and S 30° E. Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for witness cor. to 1/4 sec cor bet secs 11 and 12 Marked on brass cap T 27 S R 22 E WC on N, 1/4 S 11 on W., and S 12 on E half, from which a pinon pine 8 ins. diam bears S 34° 0' E. 86 lks dist. Marked WC 1/4 S 12 BT a pinon pine 10 ins. diam bears N 59° 0' W 82 lks. dist. Marked WC 1/4 S 11 BT. Descend abruptly over ledges
40.00	Point falls on steep sloping ledge; cor. not set.
42.50	Head of hollow at foot of largest ledges 600 ft below edge of ledge course N 80° E; ascend abruptly
48.00	Top of ridge 80 ft. above hollow bears N 80° E and S 80° W descend abruptly
52.80	Bottom of hollow 300 ft. below ridge course N 70° E, ascend abruptly
61.20	Top of ridge 60 ft. above hollow bears N 70° E and S 20° W., descend abruptly
69.00	Foot of mountain 1000 ft below WC 1/4 sec cor, 200 ft. below last ridge bears N 30° W and S E, descend gently into valley

Subdivision of T27SR22E

Sheet:

7000 Leave timber enter artemesia and sagebrush, Leave rocky ground enter sandy loam

80.00 Set an iron post 3 ft. long 2 ins in dia 24 ins. in the ground for cor. of secs 1, 2, 11 and 12 Marked on brass cap T27SR22ES2 S1 in N., half S12 in SE., and S11 in SW., quadrant. from which A cedar 10 ins. diam bears S15°8'W 6.69 Chs. dist Marked T27SR22ES11BT A cedar 8 ins diam bears N58°55'W 5.57 Chs. dist. marked T27SR22ES2BT No other trees being available, raise a mound of stone 2 ft. base 1½ ft high W of cor.

S70 chs. Mountainous land; Northerly slope; Soil, poor gravely loam 3 to 12 ins. deep on sandstone, stony and washed on slopes Timber, cedar and pinon pine Undergrowth scattering sagebrush

N10 chs Gently rolling land, N slope; Soil good sandy loam, 1 to 3 ft deep on sand and gravel subsoil medium texture, and fairly moist. Undergrowth artemesia and sagebrush; Timber, cedar and pinon pine

November 16, 1911.

November 17; At 8h 15m am. Lmt. I set off 38°29' on the lat. arc 18°48' S on the decl. arc and determine a meridian with the solar at cor of secs 1 2 11 and 12 Thence I run East on a random line bet secs 1 and 12

Subdivision of T 27 S R 22 E

Chains.	
40.00	Set temp 1/4 sec. cor.
80.08	Intersect E. bdy of Tp 132 lks. S of cor of secs. 1, 6, 7 and 12 heretofore described Set an iron post 3 ft. long 2 ins. in dia 24 ins. in the ground for closing cor of secs 1 and 12 marked on brass cap T 27 S R 22 E S1 R 23 E S6 in N half; S7 C.C. in S E., and S12 in S W., quadrant, raise a mound of stone 2 ft. base 1 1/2 ft. high W of cor.
	Destroy marks on cor pertaining to secs. 1 and 12. Thence I run
	West on a true line bet. secs 1 and 12 Over nearly level and stony land through dense grease wood or artemisia brush; descend gently
21.10	Wash 20 lks. wide 4 ft. deep course N W., ground not so stony, more sandy
34.30	Wash 40 lks. wide 6 ft. deep course N 30° W; this is main wash from Pack creek, ascend gently
35.40	Road between Moab and Monticello bears N and S
40.04	Set an iron post 3 ft. long, 1 in. in dia, 26 ins in the ground for 1/4 sec. cor. bet. secs 1 and 12 marked on brass cap 1/4 S 1 on N., and S 12 on S half raise a mound of stone 2 ft. base 1 1/2 ft high N of cor, Pits impracticable.
48.40	Wash 20 lks. wide 4 ft. deep course N 40° W
54.00	Telephone line bet. Moab and Monticello bears N 31° W and S 31° E, Note, This line keeps this course more than a mile each way
58.60	Center of main wash in the valley 150 lks. wide 6 ft. deep course N 25° W ascend over sand ground
80.08	The cor of secs 1, 2, 11 and 12 Rolling land, Northerly slope Soil sand and gravel loam 12 to 24 ins

Subdivision of T 27 S R 22 E

Chains	
	deep on gravel subsoil, rather coarse texture medium moist, Undergrowth dense greasewood No timber.
	Note, The cor on Tp line being visible I run North on a true line toward it bet. secs 1 and 2 Over rolling land through scattering cedar and pinon pine timber and greasewood undergrowth; descend gently
22.10	Wash 20 lks. wide 3 ft. deep course N 30° E
23.40	Same wash 20 lks. wide 3 ft deep course N 30° W
Nov. 17.	Note, Cloud prevents latitude observation.
27.30	Same wash 20 lks. wide 3 ft. deep course N 30° E
34.30	Stony ridge 20 ft. above wash bears E and W; descend gently
35.00	Light scattering timber bears NW and S E
40.00	Set an iron post 3 ft. long, 1 in in dia, 26 ins. in the ground for 1/4 sec cor bet secs 1 and 2 marked on brass cap 1/4 S 2 on W., and S 1 on E half from which A cedar 6 ins. diam. bears S 1° 25' E 4.40 chs. dist. Marked 1/4 S 1 BT. A cedar 7 ins. diam bears S 39° 40' W 2.85 lks. dist. Marked 1/4 S 2 BT.
43.33	Telephone line between Moab and Monticello bears N 31° W and S 31° E
52.10	Center of wash 150 lks. wide 8 ft. deep course N 30° W
69.30	Wash 10 lks. wide 3 ft. deep course NW

Subdivision of T 27 S, R 22 E

Chains.	
75.40	Wash 15 lks. wide 3 ft. deep course N 60° W
78.11	Wire fence bears N 81°15' E and S 81°15' W; Enter Holyokes' cultivated field
81.72	Intersect N bdy of Tp at cor of secs 1 2 3 5 and 36 heretofore described
	Note, La Sal Mountain Peak bears S 72° E.
	S.E. cor of Johnsons log house bears N 20°45' W, about 50 chs. dist.
	Rolling land; N slope;
	soil, sandy loam, with some gravel 1 to 2 ft. deep on sand and gravel subsoil.
	Timber, scattering cedar and pinon pine 35.60 chs
	Undergrowth, greasewood
	November 17, 1911.
	Scott P. Stewart
	U. S. Transitman

November 16; At 8h 15m am Emt., I set off 38° 25' on the lat. arc; 18° 33' S on the decl arc and determine a meridian with the solar at cor of secs 2 3 34 and 35 on S bdy Tp. heretofore described

Note, K. and E. transit with Smith solar used; the complete test of which is given elsewhere in these notes.

Thence I run

N 0° 1' W bet secs 34 and 35

Over rolling land through a few scattering cedar and pinon pine and greasewood and grass undergrowth descend gently

7.30	Wash 10 lks. wide 1 ft. deep course W ascend gently
25.00	Wash 12 lks. wide 1 ft. deep course W

Subdivision of T 27 S R 22 E

Chains.

35.00 Top of gentle ascent bears E and W descend gently

40.00 Set an iron post 3 ft. long, 1 in in dia 26 ins. in the ground for 1/4 sec. cor. bet. secs 34 and 35. marked on brass cap, 1/4 S 34 on W., and S 35 on E. half; from which A cedar 14 ins. diam bears N 26° W 275 lks. dist. Marked 1/4 S 34 BT No other tree being available, dig pits 18 x 18 x 12 ins. N and S, 3 ft. dist. and raise a mound of earth 3 1/2 ft base 1 1/2 ft high W of Cor

45.00 Bottom of swale course W ascend gently

49.00 Top of gentle ascent bears E and W descend gently

55.00 Wash 4 lks. wide 6 ft. deep course S 80° W. Note, head of small canyon

63.50 Same wash course S 20° E; ascend

74.00 Top of small ridge 35 ft. above wash bears E and W. descend gently

79.00 Wash 15 lks. wide 3 ft. deep course W at foot of descent. ascend gently

80.00 Set an iron post 3 ft. long 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for cor of secs 26, 27, 34 and 35. marked on brass cap T 27 S R 22 E S 27 S 26 on N. half S 35 in SE., and S 34 in SW., quadrant from which

A cedar 8 ins. diam. bears N 4° 45' E 210 lks. dist. Marked T 27 S R 22 E S 26 BT

A pinon pine 8 ins. diam. bears S 67° 30' E 94 lks. dist. marked T 27 S R 22 E S 35 BT

A cedar 6 ins. diam. bears S 61° 30' W, 8.38 chs. dist. marked T 27 S R 22 E S 34 BT

A cedar 8 ins. diam bears N 0° 30' W 387 lks dist. marked T 27 S R 22 E S 27 BT.

Subdivision of T 27 S R 22 E.

Drains.	Rolling land, westerly slope, Soil, sandy loam with some gravel 1 to 3 ft deep on gravel or rock subsoil, drift sand in places, medium texture, dry; Timber a few scattering cedar and piñon pine, Undergrowth greasewood and grass
	E. on a random line bet secs 26 and 35
40.00	Set temp 1/4 sec. cor.
79.98	Intersect N and S line at cor of secs 25, 26, 35 and 36
	Thence S 1000
	West on a true line bet secs 26 and 35.
	Over rolling land through short greasewood and some grass ascend gently
4.00	Wash 10 lks. wide, 1 ft. deep course N
32.50	Wagon road bears N 80° E and S 80° W
39.99	Set an iron post 3 ft. long, 1 in in dia. 26 ins in the ground for 1/4 sec cor bet. secs 26 and 35. with brass cap 1/4 S 26 on N., and S 35 on S. half dig pits 18 x 18 x 12 ins. E and W of post 3 ft dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high N of cor
Nov. 16:	At noon hunt. sky overcast, prevents latitude observation. descend gently
40.50	Wash 8 lks. wide 1 ft. deep course N
65.00	Wash 10 lks. wide 1 ft. deep course S
79.98	The cor of secs 26 27 34 and 35
	Gently rolling land; SW slope Soil, sandy loam 1 to 2 ft. deep on sand and gravel subsoil medium texture, dry. Undergrowth greasewood and grass No timber

Subdivision of T 27 S R 22 E

Chains.	
	N 0° 1' W bet secs 26 and 27
	Over rolling land through scattering timber, sagebrush greasewood and grass ascend gulch
2.60	Cattle trail bears NE and SW.
5.00	Leave timber bears N 10° W and S 10° E
20.00	Top of small ridge 30 ft above sec cor. bears NW and SE; descend gulch
22.00	Enter scattering timber bears E and W
40.00	Set an iron post 3 ft. long, 1 in in dia 20 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec cor. bet. secs 26 and 27 marked on brass cap 1/4 S 27 on W., and S 26 on E. half, from which a cedar 6 ins. diam. bears S 38° 8' E 81 lks. dist. marked 1/4 S 26 BT. a pinon pine 9 ins. diam. bears N 59° 46' W 55 lks. dist. marked 1/4 S 27 BT.
56.50	Wash 40 lks wide 12 ft. deep course S 15° E 15 ft. below 1/4 sec cor ascend gulch
80.00	Set an iron post 3 ft. long, 2 ins. in dia 14 ins. in the ground on solid rock and surrounded by mound of stone for cor of secs 22, 23, 26 and 27 marked on brass cap T 27 S R 22 E S 22 S 23 on N half S 26 in SE., and S 27 in SW., quadrant from which a pinon pine 6 ins. diam. bears N 78° 20' E 33 lks. dist. marked T 27 S R 22 E S 23 BT a pinon pine 22 ins. diam bears S 17° 30' E 60 lks. dist. mkd. T 27 S R 22 E S 26 BT. a cedar 8 ins. diam bears S 75° 0' W 50 lks. dist. marked T 27 S R 22 E S 27 BT a pinon pine 7 ins. diam bears N 68° 0' W 56 lks. dist. marked T 27 S R 22 E S 22 BT
	Rolling land; S slope
	Soil, a mixture of sand and gravel 10 to 18 ins. deep on gravel subsoil

Chains	
	rather coarse texture, dry; Timber, scattering cedar and pinon pine 66 chs Undergrowth, scattering, sagebush, greasewood and grass. November 16 1911 Eric H Anderson U.S. Transitman
	November 17; at 8h 15m am, lat. I set off 38° 27' on the lat. arc; 18° 48' S on the decl arc, and determined a meridian with the solar at cor of secs 22, 23, 26 and 27 ; thence I run E on a random line bet secs 23 and 26
40.00	Set temp 1/4 sec. cor
80.09	Intersect N and S line 2 chs N of cor. point of secs 23, 24, 25 and 26. Thence I run N 89° 59' W on a true line bet secs 23 and 26 Over rolling mountainous land through timber, scattering sagebush, greasewood and grass. ; ascend
3.00	Top of ridge 25 ft. above sec. cor. bears N 16° E and S 10° W. ; descend
8.00	Bottom of hollow, 90 ft. below ridge course S 10° W. ascend
15.00	Top of ridge 80 ft. above hollow bears N and S; descend gently
20.40	Descend abruptly over broken ledges bear N and S
26.00	Bottom of small canyon 75 ft. below course S 10° E ; ascend abruptly
30.00	Top of abrupt ascent, W edge of canyon 40 ft. above bottom bears N and S ascend gently
32.50	Top of ridge, 20 ft. above edge of canyon bears N and S descend gently
35.90	Bottom of swale 20 ft. below ridge course S

Chains.	
	ascend gently
40.04½	Set an iron post 3ft. long 1 in. in dia. 18 ins in the ground and surrounded by mound of stone for 1/4 sec. cor. bet. secs. 23 and 26 marked on basecap 1/4 S 23 on N., and S 26 on S. half from which A cedar 8 ins. diam. bears N70°54' E 124 lks. dist. marked 1/4 S 23 BT. A pinon pine 12 ins. diam bears S81°25' W. 78 lks. dist. marked 1/4 S 26 BT.
41.50	Top of small ridge bears N15° E and S15° W. descend
60.60	Bottom of hollow 75 ft. below ridge, Note, wash in bottom 20 lks. wide, 6 ft. deep course S. ascend
63.00	heavy timber enter more dense sagebrush and greasewood bears N and S
71.00	Top of ascent bears N and S; descend gently
74.00	Enter timber bears N and S
80.09	The cor of secs 22, 23, 26 and 27

Rolling mountainous land; S slope soil, gravely loam 6 to 12 ins deep on gravel and rock subsoil, coarse texture, dry, and washed on slopes. Timber cedar and pinon pine 70 chs. Undergrowth, scattering sagebrush, greasewood and grass.

N 0°4' E bet secs 22 and 23
Over rolling land through cedar and pinon pine timber, sagebrush greasewood and some grass.

	ascend gently
24.00	heavy timber bears N30° W and S30° E
26.00	Cattle trail bears NE and SW.
29.00	Top of ridge bears E and W.
Nov. 17	At noon Qut. sky overcast prevents

Subdivision of T 27 S, R 22 E.

Chains.	
	latitude observation, descend gently
31.00	Enter timber bears E and W.
40.00	Set an iron post 3 ft. long 1 in in dia. 26 ins. in the ground for 1/4 sec. cor. bet. secs 22 and 23, marked on brass cap, 1/4 S 22 on W., and S 23 on E. half from which
	A cedar 6 ins. diam. bears N 67° 40' E 39 lks. dist. marked 1/4 S 23 BT
	A cedar 12 ins. diam. bears S 67° 50' W 99 lks. dist. marked 1/4 S 22 BT, ascend gently
44.00	Top of gentle ascent bears N 70° E and S 70° W; dec and gently
53.00	Wash 30 lks. wide 8 ft. deep course SW, ascend
65.00	Cattle trail bears E and W
80.00	Set an iron post 3 ft. long, 2 ins in dia 24 ins. in the ground for cor of secs 14, 15, 22 and 23 mkd on brass cap T 27 S R 22 E S 15 S 14 in N, half S 23 in SE, and S 22 in SW. quadrant, from which
	A pinon pine 12 ins. diam. bears N 61° 10' E 332 lks. dist. marked T 27 S R 22 E S 14 BT.
	A pinon pine 18 ins. diam. bears S 69° 30' E 233 lks. dist. marked T 27 S R 22 E S 23 BT
	A pinon pine 16 ins. diam. bears S 22° 48' W 157 lks. dist. marked T 27 S R 22 E S 22 BT
	A cedar 8 ins diam. bears N 86° 05' W 234 lks. dist. marked T 27 S R 22 E S 15 BT.
	Rolling mountainous land, S slope soil, sandy loam with some gravel 1 to 2 ft. deep on gravel and rock subsoil, medium texture, dry. Timber, cedar and pinon pine 73 lks. Undergrowth, sagebrush, greasewood and grass

November 17, 1911
Eric H. Anderson
U.S. Transitman

Subdivision of T 27 S R 22 E.

Trains.	November 18; at 8h 15m am lmt; I set off 38° 28' on the lat. arc 19° 2' S on the decl. arc and determine a meridian with the solar at cor of secs 14, 15, 22 and 23,
	Thence I run
	E. on a random line bet secs 14 and 23
40.00	Set temp 1/4 sec cor.
80.04	Intersect N and S line 7 lks N of cor point of secs 13, 14, 23 and 24
	Thence I run
	N 89° 57' W on a true line bet. secs 14 and 23,
	Over rolling mountainous land through scattering cedar and pinon pine timber; sagebrush greasewood and grass, undergrowth
	ascend abruptly over small ledges bear N and S
7.00	Top of ledge ridge 60 ft. above sec. cor. bear N and S, descend gently
40.02	Set an iron post 3 ft. long, 1 in in dia, 26 ins. in the ground, for 1/4 sec cor. bet. secs 14 and 23 marked on brass cap 1/4 S 14 on N., and S 23 on S half from which
	A cedar 14 ins. diam. bears N 85° 46' W 6.43 lks dist marked 1/4 S 14 BT
	A cedar 14 ins. diam bears S 8° 12' W 94 lks. dist. marked 1/4 S 23 BT
54.00	Leave timber bears N and S
66.00	Enter timber bears N and S
70.65	Descend abruptly over sandstone ledge bear N and S
70.80	Bottom of small canyon, wash 50 lks. wide 8 ft. deep course S 30° W ascend abruptly
75.00	W edge of small canyon 50 ft above bottom bears N and S ascend gently

Subdivision of T 27 S R 22 E

Chains.	
80.04	The cor of secs 14, 15, 22 and 23 Rolling mountainous land, 5 slope soil, gravely loam, 8 to 18 ins. deep on gravel and rock subsoil rather coarse texture, dry, Timber cedar and pinon pine 68.04 chs. Undergrowth, sagebrush greasewood and grass
	N 0°03' E bet. secs 14 and 15 Over mountainous land through scattering timber and greasewood undergrowth.
	Nov. 18; At 11h 45m am lat. 2 set off 19°55' S on the decl arc and observe the sun on the meridian at cor of secs 14, 15 22 and 23 heretofore described, the resulting lat is 38°28' nearly
18.00	Enter heavy timber bears NE and SW.
25.20	Trail bears NW and SE.
27.80	Wash 5 lks. wide 1 ft. deep course SE.
40.00	Set an iron post 3 ft. long 1 in in dia 26 ins. in the ground for 1/4 sec cor bet secs. 14 and 15, Marked on brass cap 1/4 S 15 on W., and S 14 on E. half from which.
	A cedar 8 ins. diam. bears S 89°10' E 98 lks. dist. marked 1/4 S 14 B T
	A cedar 10 ins. diam. bears N 55°0' W 308 lks. dist. marked 1/4 S 15 B T
53.00	Top of small ridge 20 ft. above 1/4 sec. cor. bears N 60° W and S 60° E; desc. gently
61.00	S. edge of Pritchot canyon 30 ft. below ridge bears N 70° W and S 70° E descend abruptly over broken ledges
62.00	Foot of ledges 125 ft. below edge of canyon, bears N and S; descend over steep talus slope
72.00	Bottom of Pritchot Canyon, 350 ft.

Subdivision of T 27 S R 22 E.

Chains.	
	below edge, course N 85° W
	ascend over small, broken ledges
80.00	Set an iron post 3 ft. long, 2 ins. diam
	14 ins. in the ground on solid rock
	and surrounded by mound of stone
	for cor. of secs. 10, 11, 14 and 15
	Marked on brass cap
	T 27 S R 22 E S 11 S 10 in N. half
	S 14 in S E., and
	S 15 in S W., quadrant, from which
	A cedar 8 ins. diam bears N 65° 30' E
	14 lks. dist. Marked T 27 S R 22 E S 11 BT
	A pinon pine 6 ins. diam bears S 74° 20' E
	35 lks. dist. Marked T 27 S R 22 E S 14 BT
	A pinon pine 6 ins. diam bears S 69° 48' W
	46 lks. dist. Marked T 27 S R 22 E S 15 BT
	A pinon pine 12 ins. diam. bears N 32° 30'
	W, 56 lks. dist. Marked T 27 S R 22 E S 10 BT.
	S 61.00 chs Rolling mountainous land
	; S slope; Soil, gravely loam 1 to 2 ft
	deep on gravel and rock subsoil
	Timber, cedar and pinon pine.
	Undergrowth, scattering greasewood.
	N 1.9 chs, Rough Mountainous land;
	westerly slope; Soil, poor gravely loam
	stony and washed, 3 to 12 ins deep
	on sandstone in place,
	Timber cedar and pinon pine.
	Undergrowth, scattering greasewood
	November 18 1911
	Eric H. Anderson
	U.S. Transitman

November 20; At 8h 16m am Engt. I set off 38° 28' on the lat. arc; 19° 31' S on the decl. arc and determine a meridian with the solar at cor. of secs 10 11 14 and 15 [illegible]

Thence I run

E on a random line bet secs 11 and 14

Subdivision of T27S R22E.

Chains.	
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N and S line 10 lks. N of cor point of secs. 11 12 13 and 14
	Thence S run
	N89°56' W on a true line bet. secs 11 and 14
	Over mountainous land through heavy cedar and pinon pine timber and scattering sagebrush undergrowth descend
15.90	Head of canyon 150 ft. below sec. cor.
	Course S70°W ascend
21.40	Top of ridge 50 ft. above canyon bears N & and SW descend
35.70	Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for witness cor. to 1/4 sec. cor. bet secs. 11 and 14. Marked on brass cap T27S R22E 1/4 S 11 on N half, WC near W edge and S 14 on S half
	from which
	A pinon pine 8 ins. diam. bears N63°0'W 21 lks. dist Marked WC 1/4 S 11 BT
	A pinon pine 14 ins. diam bears S24° 15' E. 91 lks. dist. Marked WC 1/4 S 14 BT.
36.10	Edge of canyon wall 300 ft. high bears N and S at this point descend abruptly over broken ledges
40.05	Point falls on ledges in place where it is impossible to perpetuate cor, cor. not set.
43.00	Head of box canyon 600 ft. below witness 1/4 sec. cor. course S80°W; ascend along S slope of canyon
80.10	The cor of secs 10, 11, 14 and 15
	Rough mountainous land; W slope
	Soil poor gravely loam 6 to 12 ins deep on rock and gravel subsoil
	Coarse and dry,
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush

Subdivision of T 27 S R 22 E

Chains.	
Nov. 20:	At 11h 46m am. lmt. I set off 19°24' S on the decl. arc and observe the sun on the meridian at cor of secs. 10, 11, 14 and 15 the resulting lat. is 38°28'
	N 0°2' E bet. secs 10 and 11
	Over rough mountainous land through cedar and pinon pine timber, scattering sagebrush undergrowth, ascend
15.80	Foot of ledge 75 ft. above sec. cor. bears NW and SE, ascend abruptly over ledges.
19.00	Top of ledge 250 ft above foot, N edge of Pritchot canyon, bears NW and SE, ascend over rolling and smooth sandstone ridges
40.00	Point falls on steep slope on smooth ledge; therefore cor. not det; and at
35.00	Set an iron post 3 ft. long, 1 in in dia, 12 ins. in the ground on solid rock and surrounded by mound of stone, for witness cor to 1/4 sec cor bet secs 10 and 11 marked on brass cap T27S 1/4S10 on W. half, WC near S edge, and R22E S11 on E half from which
	A pinon pine 14 ins. diam bears S67°08'E 109 lks. dist. marked WC 1/4S11 BT
	A pinon pine 12 ins. diam. bears S83°0'W 58 lks. dist. marked WC 1/4 S10 BT.
45.50	S. edge of deep canyon, bears E and W descend abruptly over ledges
55.00	Bottom of canyon 600 ft. below top, heads about 1/4 mile to the east drains into Pritchot canyon westerly ascend over broken ledges
74.00	Foot of sloping ledge 300 ft. high bears E and W
78.50	Top of ledge 500 ft above canyon bears E and W. ascend over rolling and broken

Subdivision of T27SR22E.

Chains. ledges.

80.00 Set an iron post 3 ft. long, 2 ins. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for cor of secs. 2, 3, 10 and 11 Marked on brass cap T27SR22ES3S2 in N half S11 in SE., and S10 in SW., quadrant from which A pinon pine 14 ins. diam. bears S81°30'E 110 lks. dist. Marked T27SR22ES11BT. No other trees being available, raise a mound of stone 2½ ft. base 1½ ft high W of cor.

Note, this cor is located on top of round sandstone knoll

Rough Mountainous land; Westerly Slope Soil, poor gravely loam, 3 to 12 ins deep on sandstone in place, coarse texture and dry,

Timber, Cedar and pinon pine, Undergrowth scattering greasewood and sagebrush.

November 20 1911
Eric H Anderson
M.S. Transitman

November 21; At 8h 16m a.m. Lmt. I set off 38°28' on the lat. arc; 19°45' S on the decl. arc and determine a meridian with the solar at cor of secs 2 3 10 and 11 thence I run

E. on a random line bet. secs 2 and 11

40.00 Set temp ¼ sec cor.

80.04 Intersect N and S at cor of secs 1, 2, 11 and 12.

Thence I run

West on a true line bet. secs 2 and 11

Over rolling land through dense greasewood and artemisia brush

Chains.	
	ascend gently
6.70	Wash 10 lks. wide 4 ft. deep course N 30° E
12.70	Wash 30 lks. wide 7 ft. deep at mouth of hollow course NE; leave valley Begin ascent of talus slope and ledge bear N and SE. Enter timber bears same.
15.00	Begin more abrupt ascent of ledges
40.02	Point falls on steep ledge, impossible to perpetuate 1/4 cor. at this point therefore at
42.49	On top of rimrock 1000 ft. above sec. cor. Set an iron post 3 ft. long 1 in in dia. 14 ins. in the ground on solid rock and surrounded by mound of stone for witness cor to 1/4 sec cor bet secs 2 and 11 marked on brass cap T 27 S R 22 E 1/4 S 2 on N. half WC year E edge, and S 11 on S half from which. A pinon pine 9 ins. diam. bears N 39° 0' W 140 lks. dist. marked WC 1/4 S 2 BT A pinon pine 10 ins. diam bears S 25° 30' E 131 lks. dist. Marked 1/4 S 11 BT.
	ascend gently
46.50	Top of main ridge (divide) 50 ft. above WC. bears N 30° W and S 30° E
	descend gently
52.00	descend over gray ledge 50 ft high bears N and S
59.00	Bottom of hollow 75 ft. below ridge course S
61.00	Top of smooth sandstone knoll 25 ft. above hollow descend
62.30	Foot of knoll 30 ft. below bears N and S
68.00	Wash 15 lks. wide 1 ft deep 40 ft. below knoll course S 30° W; ascend
70.00	Top of small sandstone ridge 30 ft. above wash bears N and S; descend:

Subdivision of T 27 S R 22 E

Chains	
77.00	Bottom of hollow 60 ft. below ridge Course SW. begin ascent over small sandstone knoll
80.04	The cor of secs 2, 3, 10 and 11; top of knoll 40 ft. above hollow E 13.00 chs Gently rolling land; N slope Soil sandy loam 10 to 36 ins deep on sand and gravel subsoil Medium texture, dry; Undergrowth sagebrush and greasewood No timber W 67.00 chs. Rough mountainous land Soil poor gravelly loam 6 to 12 ins deep on sandstone in place, Coarse texture, dry Timber Cedar and pinon pine. Undergrowth sagebrush and greasewood.
Nov. 21	At 11h 46m am lmt. I set off 19°47'.5 on the decl. arc, and observe the sun on the meridian at cor of secs 2, 3, 10 and 11 The resulting lat is 38°29'. North on a random line bet secs 2 and 3
40.00	Set temp 1/4 sec cor.
81.70	Intersect N bdy. of Tp. 2 lks. W of cor of secs. 2, 3, 34 and 35 heretofore described. Thence I run S 0°1' W on a true line bet. secs 2 and 3 Over Mountainous land through cedar and pinon pine timber and scattering sagebrush; ascend over small ridges and hollows too numerous to mention over large boulders and much broken surface
30.00	Begin ascent of broken sandstone

Subdivision of T 27 S R 22 E

Chains.	
	ledges, bears N 30° W and S 30° E
	Top of rim rock 800 ft. above sec. cor, bears N 30° W and S 30° E; desc. gently
41.70	Set an iron post 3 ft. long 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone, for 1/4 sec cor. bet. secs 2 and 3 Marked on brass cap 1/4 S 3 on W, and S 2 on E half.
	from which
	A pinon pine 6 ins. diam bears N 37° 22' E 75 lks. dist. Marked 1/4 S 2 BT.
	A pinon pine 6 ins. diam. bears S 66° 08' W, 79 lks. dist. marked 1/4 S 3 BT
45.70	Note at this point line runs between 2 gray sandstone knolls about 1 ch. apart and about 50 x 50 ft. base and 20 ft high.
52.70	S edge of small mesa, begin abrupt descent over ledges bear N 60° W and S 60° E
61.20	Hollow 125 ft. below edge of mesa course S 50° W ascend
66.50	Top of ridge 50 ft. above hollow bears E and W; descend
80.00	Bottom of rocky gulch, 100 ft. below ridge course S 30° W; ascend
81.70	The cor of secs 2, 3, 10 and 11
	Mountainous land
	Soil, poor gravely loam 3 to 12 ins deep on sandstone in place, washed on slopes, and dry.
	Timber, Cedar and pinon pine,
	Undergrowth scattering sagebrush
	November 21 1911
	Eric H Anderson
	U.S. Transitman

November 18; at 8h 15m a.m. lmt.
I set off 38° 25' on the lat. arc;

Subdivision of T 27 S R 22 E.

Chains.	
	19°2' S on the dcl. arc and determine a meridian with the solar at cor. of secs 3, 4, 33 and 34 on S bdy of Tp heretofore described
	Thence 3 rim
	No°2' W bet. secs. 33 and 34
	Over rolling land through cedar and pinon pine timber, greasewood and salt grass ascend gully
1.00	Cattle trail bears E and W.
40.00	Set an iron post 3ft. long 1in in dia. 16 ins. in the ground and surrounded by mound of stone for 1/4 sec cor bet. secs 33 and 34. Marked on brass cap 1/4 S 33 on W, and S 34 on E half
	from which
	A cedar 10 ins diam bears S35°40' E 80 lks. dist. Marked 1/4 S 34 BT.
	A cedar 6 ins. diam. bears S 77°0' W 110 lks. dist. Marked 1/4 S 33 BT.
47.00	Cattle trail bears E and W
50.00	Top of small ridge 45 ft. above 1/4 sec. cor. covered with drift sand bears N 80° E and S 80° W; leave timber enter greasewood and salt grass, thence over nearly level land
80.00	Set an iron post. 3ft long 2 ins. in dia. 24 ins. in the ground for cor. of sec. 27, 28, 33 and 34 marked on brass cap T 27 S R 22 E S 28 S 27 in N. half S 34 in SE., and S 33 in SW., quadrant
	Dig pits 18 X 18 X 12 ins. in each sec 5 1/2 ft. dist. and raise a mound of earth 4 ft. base; 2 ft. high W of cor.
	Rolling land, southerly slope soil, sandy loam 8 to 24 ins. deep on gravel and rock subsoil, medium texture and dry,
	Timber cedar and pinon pine 50 cha.

Subdivision of T 27 S R 22 E.

Chains.	Undergrowth greasewood and grass.
	E. on a random line bet secs 27 and 34
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S line at cor. of secs. 26, 27, 34 and 35
	Thence I run
	West on a true line bet. secs 27 and 34.
	Over rolling land through scattering cedar and pinon pine timber and short greasewood undergrowth. descend gently
4.70	Wash 15 lks. wide 3 ft. deep course S 30° E, ascend gently
20.00	Wash 10 lks. wide, 1 ft. deep course S 80° E
21.80	Cattle trail bears N 20° W and S 20° E.
29.00	Wash 10 lks. wide 1 ft. deep course N 75° E.
40.00	Set an iron post 3 ft. long, 1 in in dia 26 ins. in the ground for 1/4 sec. cor. bet. secs 27 and 34, marked on brass cap 1/4 S 27 on N, and S 34 on S. half; dig pits 18 X 18 X 12 ins E and W of post 3 ft. dist., and raise a mound of earth 3 1/2 ft. base; 1 1/2 ft. high N of cor.
Nov. 18	At 11h 45 m am. Lmt. I set off 19° 5' S on the decl. arc and observe the sun on the meridian at this point, the resulting lat. is 38° 26' which is very nearly the proper lat.
40.10	Cattle trail bears N 20° W and S 20° E
50.00	Wash 8 lks. wide 6 ins. deep course S 80° E
76.00	Cattle trail bears NW and SE
80.00	The cor of secs 27 28 33 and 34
	Rolling land; Easterly slope
	Soil, sandy loam, with some gravel

Subdivision of T 27 S R 22 E.

Chains.	
	in places 12 to 36 ins. deep on gravel and rock subsoil, medium texture, some moisture, Timber, scattering cedar and pinon pine 80 cbs. Undergrowth, greasewood and a little grass.
	N 0° 2' W bet secs 27 and 28 Over rolling land through artemisia brush; ascend gently
6.00	Trail bears N 70° W and S 70° E
33.80	Trail bears N 60° W and S 60° E.
40.00	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground for 1/4 sec. cor. bet. secs 27 and 28 Marked on brass cap 1/4 S 28 on W., and S 27 on E half. Dig pits 18 x 18 x 12 ins. N and S of post dist. and raise a mound of earth 3½ ft. base 1½ ft. high W of cor thence over nearly level land
80.00	Set an iron post 3 ft. long; 2 ins. in dia. 24 ins. in the ground for cor. of secs 21, 22 27 and 28 Marked on brass cap T 27 S R 22 E S 22 S 21 in N half S 27 in SE., and S 28 in SW., quadrant from which a lone cedar 20 ins. diam. bears N 65° 2' E 11.21 chs. dist. Marked T 27 S R 22 E S 22 BT. Dig pits 18 x 18 x 12 ins in other secs 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W of cor Rolling land; Southerly slope Soil, sandy loam 1 to 3 ft deep on gravel and sand subsoil, medium moist, and medium texture Undergrowth, artemisia brush; No timber November 18 1911-

Subdivision of T 27 S R 22 E

Chains.	
	November 20, at 8h 16m a.m. Lat. I set off 38° 27' on the lat. arc; 19° 31' S on the decly arc and determine a meridian with the solar at cor of secs 21, 22, 27 and 28. Thence I run
	E. on a random line bet. secs 22 and 27
40.00	Set temp. 1/4 sec cor.
79.94	Intersect N and S line 5 lks. N of cor of secs 22, 23, 26 and 27
	Thence I run
	N 89° 58' W on a true line bet. secs 22 and 27
	Over rolling mountainous land through scattering cedar and piñon pine timber and scattering sagebrush and artemesia brush undergrowth
	descend
0.60	Bottom of hollow 20 ft. below sec. cor. course S 10° W; ascend
8.00	Top of ridge 30 ft. above hollow bears W and E; descend
14.80	Bottom of hollow 40 ft. below ridge course S 30° E, ascend
28.00	Top of ridge 30 ft. above hollow bears N and S, descend
30.00	Trail bears N 30° W and S 30° E
34.30	Bottom of hollow 40 ft. below ridge course S, ascend
39.97	Set an iron post 3 ft. long 1 in in dia. 26 ins. in the ground for 1/4 sec. cor. bet. secs 22 and 27 Mkd. on brass cap 1/4 S 22 on N, and S 27 on S half
	from which
	A cedar 18 ins. diam. bears S 62° 30' W 467 lks. dist. Marked 1/4 S 27 BT
	No other tree being available, dig pits 18 X 18 X 12 ins. E and W, 3 ft. dist. of post and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N of cor.

Subdivision of T 27 S R 22 E

Chains	
58.00	Top of ridge 50 ft. above hollow bears N and S. descend
61.90	Wash 10 lks. wide, 4 ft. deep. Course S10°W
68.30	Head of hollow 40 ft. below ridge course S 20° E ascend
79.94	The cor of secs 21, 22, 27 and 28 Rolling mountainous land; Southerly slope; soil, sandy loam with some gravel, 1 to 3 ft. deep on gravel subsoil, medium texture, fairly moist. Timber scattering cedar and pinon pine 79.94 lks.; Undergrowth, sagebrush and artemisia brush.
	N0°3'E bet secs 21 and 22 Over rolling mountainous land through dense artemisia brush and sagebrush ascend gently
Nov. 20 10.00	A 11h 46m am bmt. I set off 19°33'S on the decl arc and observe the sun on the meridian at this point the resulting lat. is 38°27° very nearly
29.00	Foot of sandstone ridge bears E and W ascend
31.67	Top of same ridge 100 ft. above foot bears E and W. descend
36.00	Foot of same ridge 100 ft. below top bears E and W; Enter scattering timber descend gently
37.00	Leave scattering timber bears E and W.
40.00	Set an iron post 3 ft. long, 1 in in dia. 26 ins. in the ground for 1/4 sec. cor. bet. secs 21 and 22, mkd. on brass cap 1/4 S 21 on W., and S 22 on E. half from which A pinon pine 14 ins. diam bears S13°45'E 514 lks. dist. marked 1/4 S 22 BT. A pinon pine 14 ins. diam. bears S15°0'W 444 lks. dist. marked 1/4 S 21 BT.
70.00	Enter scattering timber bears E and W

Subdivision of T27SR22E

Chains.	
75.00	Head of hollow 50 ft. below 1/4 sec. cor. course W. ascend
80.00	Set an iron post 3 ft. long, 2 ins. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for cor of secs 15, 16, 21 and 22 marked on brasscap T27SR22ES16S15 in N., half S22 in S E., and S21 in S W., quadrant from which A pinon pine 12 ins. diam. bears N23°30'E 82 lks. dist. Marked T27SR22ES15BT A pinon pine 12 ins diam. bears S59°45'E 86 lks. dist. Marked T27SR22ES22BT A pinon pine 10 ins diam bears S48°0'W 176 lks. dist. Marked T27SR22ES21BT A cedar 6 ins. diam. bears N3°0'W 37 lks. dist. Marked T27SR22ES16BT Rolling Mountainous land; Northerly slope; soil, sandy loam with some gravel 12 to 24 ins deep on gravel and rock subsoil, dry, medium texture. Timber, scattering cedar and pinon pine 11. chs. Undergrowth artemesia brush and sage-brush. November 20 1911
	November 21 At 8h 16m a.m. lmt. I set off 38°28' on the lat. arc; 19°44'S on the decl. arc and determine a meridian with the solar at cor. of secs. 15 16 21 and 22 Thence I run E on a random line bet secs 15 and 22
40.00	Set temp 1/4 sec cor.

Subdivision of T 27 S. R 22 E.

Chains.	
79.88	Intersect N and S line 18 lks S of cor. of secs 14, 15, 22 and 23. Thence I run S 89° 52' W on a true line bet. secs. 15 and 22 Over rolling mountainous land through scattering cedar and pinon pine timber, and sagebrush and greasewood undergrowth, ascend gently
7.50	Top of ridge 100 ft above sec. cor. bears N and S; descend.
16.00	Bottom of hollow 60 ft. below ridge course S ascend
30.00	Top of ridge 80 ft. above hollow bears N and S, descend gently
39.94	Set an iron post 3 ft. long, 1 in in dia 26 ins. in the ground for 1/4 sec cor bet. secs 15 and 22 Mkd. on brass cap 1/4 S 15 on N., and S 22 on S half Dig pits 18 x 18 x 12 ins. E and W of post 3 ft dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N of cor.
55.00	Head of hollow course N.W. asc.
79.88	The cor of secs. 15, 16, 21 and 22 Rolling mountainous land; Northerly slope Soil, sandy loam with some gravel 12 to 24 ins. deep on rock subsoil, rather coarse texture and medium moist. Timber, scattering cedar and pinon pine. Undergrowth, sagebrush and greasewood.
	N 0° 2' E bet secs 15 and 16 Over rolling mountainous land through scattering cedar and pinon pine timber, and scattering sagebrush and artemisia brush; ascend gently
2.00	Top of gentle ascent bears E and W
Nov. 21:	At 11h 46m am. Lat. I set off 19° 47' S on

Chains.	
	the dep. arc and observe the sun on the meridian at this point; the resulting lat. is 38°28' descend gently
18.50	Wash 20 lks. wide, 2 ft. dep course S 50° W
24.50	Leave timber bears E and W
37.00	Enter timber bears E and W.
37.40	Wash 25 lks. wide 10 ft. dep course NW
39.90	Head of hollow 80 ft. below sec. cor. course S 70° W; ascend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec cor. bet secs 15 and 16 Marked on brass cap 1/4 S 16 on W., and S 15 on E half, from which A cedar 12 ins. diam. bears N 72°15' E 54 lks. marked 1/4 S 15 BT. A pinon pine 12 ins. diam. bears N 72° W 144 lks. dist. marked 1/4 S 16 BT.
44.30	Wash 10 lks. wide 3 ft. dep course N 60° W. ascend
54.00	Top of ridge 60 ft. above hollow bears E and W. descend
69.40	Head of hollow 80 ft. below ridge course SW; ascend
80.00	Set an iron post 3 ft. long, 2 ins. in dia 24 ins. in the ground for cor of secs 9, 10, 15 and 16, mkd. on brass cap T 27 S R 22 E S 9 S 10 in N., half S 15 in S E., and S 16 in SW., quadrant, from which A cedar 8 ins. diam. bears N 48°15' E 111 lks. dist. marked T 27 S R 22 E S 10 BT A pinon pine 18 ins. diam. bears S 57°50' E 334 lks. dist. marked T 27 S R 22 E S 15 BT A cedar 14 ins. diam. bears S 60° W 19 lks. dist. marked T 27 S R 22 E S 16 BT A cedar 10 ins. diam bears N 27°30' W 38 lks. dist. marked T 27 S. R 22 E S 9 BT Rolling Mountainous land; W Slope;

Subdivision of T 27 S R 22 E.

Chains.	
	Soil, sand and gravel loam 1 to 2 ft. deep on gravel and rock subsoil, dry. Timber, scattering cedar and piñon pine 6 & 8 ins. Undergrowth, scattering artemesia brush and sagebrush. November 21, 1911
	November 22; At 8h 16m a.m. l.m.t. I set off 38°28' on the lat. arc; 19°58' S on the decl. arc; and determine a meridian with the solar at cor of secs 9, 10, 15 and 16 Thence I run E. on a random line bet secs 10 and 15
40.00	Set temp 1/4 sec cor.
80.06	Intersect N and S line at cor. of secs 10, 11, 14 and 15 Thence I run West on a true line bet. secs 10 and 15 Over mountainous land through scattering cedar and piñon pine timber and scattering sagebrush. descend
6.00	Bottom of canyon 50 ft. below sec. cor. course S; ascend
29.00	Top of ridge 100 ft. above canyon bears N and S descend
40.03	Set an iron post 3 ft. long 1 in. in dia 12 ins. in the ground and surrounded by mound of stone. for 1/4 sec cor. bet. secs 10 and 15 Veled on brass cap. 1/4 S 10 on N., and S 15 on S half from which a piñon pine 7 ins. diam. bears N 83 3/4°

Subdivision of T 27 S. R. 22 E.

Chains.	
	41 lks. dist. marked 1/4 S 10 BT. A pinon pine 8 ins. diam bears S 19° E 78 lks. dist. marked 1/4 S 15 BT.
42.20	Descend abruptly over broken ledges bear NW and SE
60.20	Bottom of Pritchet canyon 600 ft below ridge course NW, ascend abruptly over ledges
69.50	Top of abrupt ascent, W edge of Pritchet canyon bears NW and SE.; thence nearly level land
80.05	The cor of secs 9, 10, 15 and 16 Mountainous land; NW slope; Soil; poor gravely loam 6 to 12 ins. deep on sandstone, coarse texture and dry; Timber, scattering cedar and pinon pine 80.06 chs; Undergrowth scattering sagebrush
	N 0° 01' E bet secs 9 and 10 Over mountainous land through heavy cedar and pinon pine timber and scattering sagebrush undergrowth ascend gently
17.00	Top of ridge 30 ft. above sec cor. bears N 80° E and S 80° W.
Nov. 22	at 1h 46m am. l.m.t. I set off 19° 59' S on the decl. arc, and observe the sun on the meridian at this point; the resulting lat is 38° 29' nearly; descend
19.60	South edge of Pritchet canyon bears N 50° W and S 80° E at this point. descend over broken ledges:
34.70	Bottom of Pritchet canyon 600 ft. below edge course NW; ascend
36.00	Top of spur 30 ft. above canyon bears N 70° W and S 70° E; descend

Subdivision of T 27 S. R 22 E.

Chains.	
38.60	Branch of Prichot canyon 30 ft. below spur, course West; ascend abruptly over ledges
40.00	Point falls on smooth sloping ledge cor not set.
40.20	Set an iron post 3 ft. long 1 in. in dia. 12 ins. in the ground and surrounded by mound of stone for witness cor to 1/4 sec. cor. bet secs 9 and 10 Marked on brass cap; T27S 1/4 S9 on W, R22E S10 on E, and W C on S. half, from which A cedar 8 ins. diam bears N 9° 30' E 80 lks. dist. marked WC 1/4 S10 BT A pinon pine 10 ins diam bears N 41° 15' W 40 lks. dist. mkd. WC 1/4 S9 BT
45.10	Top of abrupt ascent and edge of branch of canyon from East. bears N 60° E and S 60° W; ascend gently.
60.20	Top of ridge 100 ft. above 1/4 sec. cor. 500 ft above canyon bears E and W descend
76.20	Bottom of hollow 200 ft. below ridge course S 80° W. ascend
79.00	Top of spur 40 ft. above hollow bears E and W; descend
80.00	Set an iron post 3 ft. long, 2 ins. in dia. 24 ins. in the ground for cor of secs 3, 4, 9 and 10 mkd. on brass cap; T27S R22E S4 S3 in N. half; S10 in S E., and S9 in S W, quadrant, from which A pinon pine 7 ins. diam. bears N 40° 0' E 66 lks. dist. marked T 27S R22E S3 BT A pinon pine 12 ins. diam. bears S 82° 0' E 101 lks. dist. Marked T27S R22E S10 BT A pinon pine 14 ins. diam bears S 80° 15' W 138 lks dist. Marked T27S R22E S9 BT A pinon pine 12 ins. diam bears N 49° 10' W 63 lks. dist. Marked T27S R22E S4 BT Mountainous land; westerly slope

Subdivision of T 27 S R 22 E.

Origin. Soil, poor gravelly loam 6 to 18 ins deep on rock and gravel subsoil, stony, and dry
Timber, cedar and pinon pine 800 cks
undergrowth scattering sagebrush
November 22 1911

November 23; At 8:00 am. Sky overcast prevents solar observation.
E on a random line bet. secs. 3 and 10
40.00 Set temp 1/4 sec. cor.
80.06 Intersect N and S line at cor. of secs 2, 3, 10 and 11.
Thence S run
West on a true line bet. secs 3 and 10
Over rough Mountainous land, through scattering cedar and pinon pine timber and scattering sagebrush
descend gently
1.00 Descend abruptly over ledges bears N and S
2.00 Bottom of small box canyon 200 ft below top course S; ascend abruptly over ledges
12.00 Top of sandstone ridge 300 ft above canyon bears N and S; descend over numerous sandstone ridges and pinnacles
39.90 Bottom of gulch in solid rock 30 ft deep course S ascend
[illegible] Point falls on smooth sloping sandstone ridge, cannot reach point. cor. not
40.66 Top of ridge bears N and S
Set an iron post 3 ft. long, 1 in in dia 12 ins in the ground and surrounded by a mound of stone for witness cor to 1/4 sec cor bet secs 3 and 10

Subdivision of T27S R22E

Chains

Marked on brass cap T27S R22E 1/4 S 3 on N, S 10 on S and WC on E half from which
A piñon pine 5 ins. diam. bears N 1°30' E 41 lks. dist. Marked WC 1/4 S 3 BT
A piñon pine 6 ins. diam. bears S 21°0' W 100 lks. dist. Marked WC 1/4 S 10 BT.
Nov 23 At noon. sky overcast prevents lat. observation. ; descend.

46.50 Head of gulch 100 ft. below ridge course S ascend over sandstone ledges.

48.00 Top of sandstone ridge 80 ft. above gulch bears N and S ; descend

49.90 Bottom of gulch 150 ft. below ridge course S ascend

57.50 Top of steep sandstone ridge 50 ft above gulch bears N and S ; descend

59.20 Top of almost vertical ledge 100 ft high, bears N and S ; descend abruptly

80.06 The cor. of secs 3, 4, 9 and 10
Rough Mountainous land ; SW slope ; soil poor gravelly loam 3 to 1/2 ins deep on sandstone, dry ;
Timber, scattering cedar and piñon pine, 8 to 6 ins. very little undergrowth
November 23 1911.

November 24 ; At 8h 17m a.m. lmt. I set off 38°29' on the lat. arc ; 20°23' on the decl. arc and determine a meridian with the solar at cor of secs 3, 4, 9 and 10
Thence I run
N on a random line bet secs 3 and 4

40.00 Set temp 1/4 sec. cor.

Subdivision of T 27 S R 22 E.

Chains.	
81.76	Intersect N. bdy. of Tp at cor of secs. 3, 4, 33 and 34 heretofore described. Thence I run South on a true line bet. secs 3 and 4 Over rough mountainous land through scattering cedar and pinon pine timber and scattering sagebrush descend over smooth sandstone ledges and pinacles
22.75	Head of canyon 200 ft. below sec. cor. course SW; ascend
37.75	Top of ridge 100 ft above canyon bears NW and SE; descend
41.76	Point falls on smooth sloping ledge cannot get to point; therefore cor. not set, at
42.36	Set an iron post 3 ft. long, 1 in in dia. 12 ins. in the ground and surrounded by mound of stone for witness cor to 1/4 sec cor bet. secs 3 and 4 Marked on brass cap T27S 1/4 S4 on W, R22E S3 on E, and WC on S half, from which a pinon pine 6 ins. diam. bears S3°0'E 8 lks. dist. mkd. WC 1/4 S3 BT. a pinon pine 10 ins. diam bears N66°30'W 23 lks. dist. Marked WC 1/4 S4 BT.
42.75	Bottom of gulch in solid rock 60 ft below ridge course N30°W; ascend
45.50	Top of almost perpendicular ledge 150 ft above gulch bears N30°W and S20°E
47.75	Top of ridge of smooth sandstone bears N30°W and S20°E; descend
48.50	Top of smooth ledge 60 ft high bears N60°W and S60°E
Nov. 24:	At 1 h 47 m a.m. l.m.t. I set off 20°26'S on the decl. arc, and observe the sun on the meridian at this point; the resulting lat. is 38°29'
59.75	Top of almost perpendicular ledge 80 ft.

Subdivision of T 27 S R 22 E.

Chains

high bears E and W, descend abruptly

79.15 Bottom of canyon 200 ft below, course SW ascend.

81.76 The cor of secs 3, 4, 9 and 10

Rough Mountainous land, SW slope

Soil poor gravely loam 3 to 12 ins deep, where soil is found, numerous bare sandstone ridges.

Timber, Scattering cedar and pinon pine

Undergrowth, scattering sagebrush.

November 24 1911

Scott P. Stewart

U.S. Transitman

November 22; At 8h 16m a.m. lmt. I set off 38°25' on the lat. arc; 19°58' S on the decl. arc and determine the meridian at cor. of secs 4 5 32 and 33 on S bdy of Tp heretofore described

Thence I run

N 0° 3' W bet. secs 32 and 33

Over rolling mountainous land through scattering cedar and pinon pine and scattering greasewood and grass.

ascend gently

21.60 Trail bears NW and SE

29.00 Wash 5 lks. wide 1 ft. deep course S 75° W

40.00 Set an iron post 3 ft; long 1 in. in dia. 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec cor. bet secs 32 and 33 marked on brass cap 1/4 S 32 on W., and S 33 on E., half; from which

A cedar 4 ins. diam bears N 1° 0' E; 430 lks. dist. marked 1/4 S 33 BT

A cedar 4 ins. diam bears N 7° 30' W; 400 lks. dist marked 1/4 S 32 BT

52.00 Foot of sandstone ledge bears E and W.

Subdivision of T 27 S. R 22 E.

Chains.
66.00 ascend abruptly
Top of sandstone ledge or ridge 75 ft.
above foot bears E and W;
descend gently
75.00 Trail bears E and W
80.00 Set an iron post 3 ft. long, 2 ins. in dia.
24 ins. in the ground for cor of secs
28 29 32 and 33 marked
on brass cap T 27 S R 22 E S 29 S 28
in N half, S 33 in S E, and
S 32 in S W. quadrant.
from which
A pinon pine 10 ins. diam bears N 18° 30' E
62 lks. dist. marked T 27 S R 22 E S 28 B T
A pinon pine 8 ins. diam. bears S 79° 50' E
15 lks. dist. Marked T 27 S R 22 E S 33 B T
A cedar 6 ins. diam. bears S 44° 20' W
33 lks. dist. marked T 27 S R 22 E S 32 B T
A pinon pine 12 ins. diam. bears N 39° 30' W
39 lks. dist marked T 27 S R 22 E S 29 B T
Rolling mountainous land; S slope
Soil, sandy loam with some gravel
1 to 2 ft deep in valleys on gravel subsoil,
washed on slopes, medium moist.
Timber, scattering cedar and pinon
pine,
Undergrowth scattering greasewood and
grass

E. on a random line bet secs 28 and
33
40.00 Set temp 1/4 sec. cor.
79.99 Intersect N and S line at cor of secs.
27, 28, 33 and 34
Thence I run
West on a true line bet secs 28 and 33
Over rolling mountainous land
through a few scattering cedar and
pinon pine timber, greasewood
and grass undergrowth

Subdivision of T 27 S R 22 E

Chains	
	ascend gently
5.00	Top of gentle ascent bears N and S
Nov. 22:	At 11h46m am. lmt. I set off 19°59'S on the decl. arc and observe the sun on the meridian; the resulting lat is 38°26' very nearly;
	descend
12.30	Trail bears N and S
33.70	Trail bears NW and SE
38.50	Trail " N and S
39.99½	Set an iron post 3 ft. long, 1 in in dia 24 ins. in the ground for 1/4 sec. cor. bet secs 28 and 33 marked on brass cap 1/4 S 28 on N, and S 33 on S half from which
	A pinon pine 10 ins. diam bears N 19°30' E 275 lks. dist. Marked 1/4 S 28 BT.
	No other tree being available, dig pits 18 X 18 X 12 ins. E and W 3 ft. dist. of post; and raise a mound of earth 3½ ft. base 1½ ft high N of cor.
46.50	Wash 8 lks. wide 1 ft. deep course S
50.50	Wash 8 lks wide 10 ins. deep course S
	ascend gently
53.00	Trail bears N and S
56.00	Wash 6 lks wide 1 ft. deep course S
58.00	Begin ascent over gently rolling sandstone ledges bear N 20° E and S
79.99	The cor. of secs 28, 29, 32 and 33
	Rolling Mountainous land; S slope; soil, sandy loam with some gravel 12 to 24 ins deep on gravel subsoil, medium texture, dry. Timber, scattering cedar and pinon pine,
	Underg rowth greasewood and grass.

November 22 1911
Eric H Anderson
U.S. Transitman

Subdivision of T 27 S. R 22 E.

Chains.	
	November 23, At 8 am sky overcast, prevents Solar observation at cor of secs 28, 29, 32 and 33
	N 0°3' W bet secs 28 and 29
	Over mountainous land through dense artemisia brush and sagebrush and scattering cedar and piñon pine timber; ascend
3.00	Begin ascent over ledges bear E and W
7.00	Leave ledges 80 ft. high bears E and W ascend gently
9.00	Leave timber bears E and W
11.00	Top of ridge 120 ft. above sec. cor. bears E and W. descend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia, 26 ins in the ground for 1/4 sec. cor. bet. secs 28 and 29 mkd. on brass cap 1/4 S 29 on W., and S 28 on E half dig pits 18 x 18 x 12 ins. N and S of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W of cor
	ascend gently
78.00	Top of small ridge bears E and W
80.00	Set an iron post 3 ft. long 1 in. in dia 24 ins. in the ground, for cor of secs 20, 21, 28 and 29 mkd. on brass cap T 27 S R 22 E S 20 S 21 in N. half S 28 in SE., and S 29 in SW., quadrant; Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft base: 2 ft high W of cor.
	Rolling mountainous land; S slope Soil, sandy loam 1 to 2 ft. deep on gravel subsoil, medium texture, Timber scattering cedar and piñon pine. Undergrowth, artemisia brush and sagebrush

Subdivision of T 27 S R 22 E.

Chains

Nov. 23: At noon lmt. sky overcast prevents lat. observation. at cor of secs 20 21 28 and 29. E. on a random line bet. secs. 21 and 28

40.00 Set temp 1/4 sec. cor.

79.98 Intersect N and S line at cor. of secs. 21, 22, 27 and 28.

Thence I run

West on a true line bet secs 21 and 28

Over gently rolling land through dense artemesia brush and sagebrush descend gently

39.99 Set an iron post 3 ft. long, 1 in in dia. 26 ins. in the ground for 1/4 sec cor. bet secs. 21 and 28. Marked on brass cap 1/4 S 21 on N., and S 28 on S half. Dig pits 18 X 18 X 12 ins. E and W of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base; 1 1/2 ft high N of cor

79.98 The cor of secs 20, 21, 28 and 29

Gently rolling land; W slope

Soil, good sandy loam 2 ft. deep on sand and gravel subsoil, medium texture, and medium moist

Undergrowth artemesia brush, sagebrush and some grass; No timber

November 23 1911.

Eric H Anderson

U.S. Transitman

November 24; At 8h 47m am. lmt I set off 38° 27' on the lat. arc; 20° 24' S on the decl arc, and determine a meridian with the solar at cor. of secs 20, 21, 28 and 29

Thence I run

N 0° 2' E bet secs 20 and 21

Over mountainous land

Subdivision of T 27 S. R 22 E.

Chains.	
	Through scattering cedar and pinon pine timber; Undergrowth of greasewood and grass. descend gently
8.00	Begin more abrupt descent bears E and W.
14.50	Descend abruptly over small and broken ledge bears E and W
17.00	Foot of ledges 40 ft below top, bears E and W.; descend less abruptly
40.00	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground for 1/4 sec cor. bet secs 20 and 21 Mkd. on brass cap 1/4 S 20 on W., and S 21 on E half from which A cedar 8 ins. diam. bears S 17°45' E 65 lks. dist. mkd. 1/4 S 21 BT A pinon pine 10 ins. diam. bears S 43°40' W 170 lks dist Mkd. 1/4 S 20 BT
56.00	Descend abruptly over small ledge bears E and W, thence along W slope of small gulch
60.00	Top of small spur bears NW and SE heavy timber; descend gently
71.50	Wash 20 lks. wide 3 ft. deep course N 75° W
79.10	Wash 20 lks. wide 4 ft. deep course S 75° W
79.85	Wash 20 lks wide, 3 ft. deep in bottom of main canyon course S 80° W
80.00	Set an iron post 3 ft. long 2 ins diam 24 ins. in the ground for cor. of secs. 16 17 20 and 21 marked on brass cap T 27 S R 22 E S 17 S 16 in N. half S 21 in S E., and S 20 in SW., quadrant, from which A cedar 8 ins. diam. bears N 64 35' E 300 lks dist. mkd. T 27 S R 22 E S 16 BT. A cedar 12 ins. diam. bears S 66°15' E 300 lks. dist. Mkd T 27 S R 22 E S 21 BT A cedar 10 ins. diam. bears S 81°40' W 430 lks. dist. Marked T 27 S R 22 E S 20 BT. A cedar 8 ins. diam bears N 82°45' W

Subdivision of T27S R22E

Chains.	505 lks. dist. Mkd. T27SR22ES17 BT. Rolling mountainous land; W slope soil, sandy loam with some gravel 1 to 3 ft. deep on gravel and rock sub soil, rather coarse texture and medium moist, Timber, scattering cedar and pinon pine 60 chs. Undergrowth, greasewood and considerable short grass, good for grazing.
	E on a random line bet secs 16 and 21.
4000	Set temp 1/4 sec. cor.
79.90	Intersect N and S line at cor of secs 15 16 21 and 22
Nov. 24:	At 11h 47m am. lmt. I set off 20°26'S on the decl. arc and observe the sun on the meridian at this cor; the resulting lat is 38°28' very nearly Thence I run West over rolling mountainous land through scattering cedar and pinon pine timber and scattering sagebrush and greasewood descend gently
12.80	Bottom of hollow 40 ft. below sec. cor. course S 30° W: ascend
22.00	Top of sandstone ridge 80 ft. above hollow bears N and S; descend over sandstone ledges
29.90	Bottom of hollow 100 ft. below ridge course N 40° W
39.50	Set an iron post 3 ft. long, 1 in. in dia, 26 ins. in the ground for witness cor to 1/4 sec cor bet. secs 16 and 21 marked on brass cap T27SR22E 1/4 S16 on N, WC on W., and S21 on S half from which

Subdivision of T 27 S R 22 E

Chains.	
	A pinon pine 12 ins. diam. bears N 16° E 50 lks. dist. mkd. WC 1/4 S 16 BT
	A pinon pine 10 ins. diam. bears S 30° 15' E, 23 lks. dist. mkd WC 1/4 S 21 BT
39.95	Point for 1/4 sec. cor. falls in wash cor. not set.
47.00	Wash 20 lks. wide, 10 ft. deep course NW
51.20	Trail bears NE and SW
53.20	Same wash 30 lks. wide, 10 ft. deep, course S 30° W
74.70	Bottom of hollow 25 lks. wide 4 ft. deep course SW
79.90	The cor of secs 16, 17, 20 and 21 Rolling mountainous land, W slope Soil, sandy loam 1 to 8 ft. deep in valleys and gravely loam 3 to 10 in. deep on slopes, washed, and dry, subsoil gravel and rock. Timber scattering cedar and pinon pine, Undergrowth, greasewood and grass November 24 1911 Eric H Anderson U.S. Transitman

November 25, at 8h 47m am. Inst. & set off 38° 28' on the lat. arc; 20° 36' S on decl. arc and determine a meridian with the solar at cor. of secs 16 17 20 and 21
Thence & run
N. 0° 01' E. bet secs. 16 and 17
Over mountainous land, through scattering timber; and short greasewood and grass undergrowth ascend gently

7.00	Foot of small ledge 35 ft high bears N 85° W and S 85° E.; ascend abruptly
8.00	Top of ledge, S edge of small mesa bears N 85° W and S 85° E

Subdivision of T 27 S R 22 E

Chains.	
	descend gently
18.50	Wash 15 lks. wide, 1 ft. dep course S 20° E; ascend gently
30.00	Top of small ridge 25 ft. above wash bears N 70° W and S 70° E; descend
34.00	Bottom of Gulch 15 ft. below ridge course S 65° E.
	Note, There is a small seep of fresh water in this gulch, about 2 chs down stream from line.
	ascend
36.00	Set an iron post 3 ft. long, 1 in. in dia 12 ins. in ground and surrounded by mound of stone for witness cor. to 1/4 Sec. cor. bet secs 16 and 17 marked on brass cap T 27 S 1/4 S 17 in W, WC in N. and R 22 E S 16 in E. half; from which
	A pinon pine 6 ins. diam. bears S 46° 30' E. 44 lks. dist. marked WC 1/4 S 16 BT
	A pinon pine 6 ins. diam bears S 39° 0' W 42 lks. dist. Marked WC 1/4 S 17 BT
36.10	Foot of smooth sandstone ridge ascend abruptly
40.00	Point falls on smooth sandstone ridge, marked by x in rock; cor. not set.
41.00	Top of sandstone ridge 150 ft. above foot bears NW and SE; descend over smooth sandstone
45.00	Foot of ledge 80 ft. below top bears NW and SE; ascend gently over broken sandstone ledges.
68.00	Foot of smooth sandstone spur bears N 60° W and S 60° E; ascend abruptly
70.00	Top of spur 90 ft. above foot bears S 60° E and W.
	Note, 20 lks. W of line projects a red sandstone butte 150 x 100 lks base and 60 ft. high, the base of which is gray sandstone, a conspicuous land mark

Subdivision of T27SR22E

Chains.	
	descend
79.00	Foot of abrupt descent 60 ft. below spur. descend gently
80.00	Set an iron post 3 ft. long, 2 ins. in dia 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17. Marked on brass cap T27SR22ES8 S9 in N. half S16 in S E., and S17 in S W., quadrant, from which A cedar 8 ins. diam. bears N53°25' E. 23 lks. dist Mkd. T27SR22ES9BT A pinon pine 10 ins. diam. bears S87°25' E 125 lks. dist. mkd. T27SR22ES16BT. A pinon pine 8 ins. diam. bears S54°0' W 44 lks. dist. mkd. T27SR22ES17BT A cedar 12 ins. diam. bears N73°0' W 40 lks. dist. mkd. T27SR22ES8BT Mountainous land; S slope; soil, gravely loam 6 to 18 ins. deep on rock and gravel subsoil, washed on slopes, dry, coarse texture Timber, scattering cedar and pinon pine; Undergrowth, greasewood and grass.
	E on a random line bet. secs 9 and 16
40.00	Set temp 1/4 sec. cor.
79.98	Intersect N and S line 14 lks. N of cor of secs 9 10 15 and 16
Nov. 25	At 11h 47m am l.m.t. I set off 20°38' S on the decl. arc and observe the sun on the meridian at this cor; the resulting lat. is 38°28' very nearly Thence I run N89°54' W on a true line bet. secs 9 and 16 Over mountainous land through cedar and pinon pine timber and greasewood and grass undergrowth.

Subdivision of T27S R22E

Chains.	
	descend gently
7.00	Wash 5 lks. wide 2 ft. dep, course S, ascend gently
15.00	Top of gentle ascent bears N and S descend gently
25.30	Bottom of draw 20 ft. below course S; ascend gently over broken sandstone knoll
37.53	Set an iron post 3 ft. long, 1 in. in dia. 12 ins. in the ground and surrounded by mound of stone for witness cor. to 1/4 sec. cor. bet. secs 9 and 16 Marked on brass cap T27S R22E 1/4 S 9 on N., WC on W., and S 16 on S. half; from which. A pinon pine 12 ins. diam bears N 40° 30' W, 80 lks. dist. Mkd WC 1/4 S 9 BT, A pinon pine 8 ins. diam. bears S 74° 15' W 54 lks. dist. Mkd WC 1/4 S 16 BT
38.00	Foot of sandstone ledge bears N and S ascend abruptly
39.99	Point for 1/4 sec. cor. falls on smooth sandstone ledge Mkd by x in rock. cor. not set.
46.00	Top of sandstone ledge or spur 150 ft above foot bears N and S; descend
54.00	Foot of ledge 100 ft. below top bears N and S; leave timber entering rolling mesa bears N and S, through short and dense greasewood
79.50	Descend over small ledge 20 ft high bears N and S.
79.98	The cor. of secs 8, 9, 16 and 17, Rolling Mountainous land; S slope; Soil sandy loam with some gravel 12 to 24 ins dep on gravel and rock, subsoil in valleys; poor gravelly loam 3 to 12 ins dep on ridges and slopes, on bed rock Timber, cedar and pinon pine 54 chs. Undergrowth, short greasewood and grass.

Subdivision of T 27 S, R 22 E.

Chains	November 25, 1911. Eric H. Anderson U.S. Transitman
	November 27 At 8:00 am. Sky Overcast, prevents solar observation
North	North bet secs 8 and 9
	Over mountainous land, through cedar and pinon pine timber and scattering greasewood: descend gently
9.50	Begin abrupt descent over ledges 100 ft. high bears E and W
12.00	Foot of ledges bears E and W; descend over talus slope.
16.90	Wash 5 lks. wide, 1 ft. deep in bottom of branch of Pritchet Canyon course NW; ascend
22.50	Point of ledge 50 ft. high bears NW and SE; descend
40.00	Set an iron post 3 ft. long 1 in. in dia. 12 ins. in the ground and surrounded by mound of stone for 1/4 sec. cor. bet. secs 8 and 9. Mkd. on brass cap 1/4 S 8 on W. and S 9 on E. half from which
	A cedar 12 ins. diam bears N 42° 30' E 165 lks. dist. mkd. 1/4 S 9 BT
	A pinon pine 16 ins. diam. bears N 32° 30' W 213 lks. dist. mkd. 1/4 S 8 BT.
41.30	Wash 12 lks. wide 1 ft. deep in bottom of canyon course NW; ascend over broken sandstone ledges.
63.50	Top of ledge ridge 175 ft. above wash bears N 60° W and S 60° E; descend abruptly over ledges
70.00	Foot of abrupt descent 150 ft. below ridge bears NW and SE descend gently
79.55	Set an iron post 3 ft. long 2 ins. in dia

Subdivision of T 27 S, R 22 E.

Ins.	16 ins. in the ground and surrounded by mound of stone for witness cor. to cor of secs. 4, 5, 8 and 9 Marked on Brass cap, T27SR22E S5.S4WC in N half S9 in SE, and S8 in SW., quadrant. from which
	A pinon pine 8 ins. diam bears N81° 40'E. 190 lks. dist. mkd. WC T27SR22E S4 BT.
	A pinon pine 10 ins diam bears S39°20' E. 56 lks. dist. Mkd WC T27SR22E S9 BT.
	A cedar 6 ins. diam bears S34°0'W 66 lks. dist. Mkd WC T27SR22E S8 BT
	A pinon pine 6 ins diam. bears N42°30'W 286 lks. dist. Mkd. WC T27SR22E S5 BT.
80.00	Point falls on solid rock in smooth rock wash in Bottom of Pritchet canyon. marked by X in Rock, cor. not set.
	Mountainous land; W Slope; soil poor gravely loam 3 to 12 ins deep, on sandstone, washed on slopes, coarse texture and dry
	Timber, cedar and pinon pine
	Undergrowth, scattering greasewood
	Note, There are numerous pot holes in bottom of Pritchet canyon many of which are full of good water.
	E on a random line bet. secs 4 and 9
40.00	Set temp 1/4 sec. cor.
79.88	Intersect N and S line at cor. of secs, 3, 4, 9 and 10.
	Nov. 27: at noon, cloud obscures sun making lat. observation impossible,
	Thence 3 mm
	West on a true line bet secs 4 and 9

Subdivision of T 27 S. R 22 E.

Chains.	
	Over mountainous land through scattering cedar and pinon pine timber and scattering sagebrush. descend
3.20	Bottom of canyon 40 ft. below sec. cor. Course S 60° W; ascend over ledges
9.30	West rim of same canyon bears N 70° E and S 70° W; ascend gently
11.00	Top of ridge 120 ft. above canyon, bears N and S; descend
18.80	Bottom of hollow 80 ft. below ridge, course S. ascend
22.00	Top of ridge 60 ft above hollow bears N and S; descend
26.40	Bottom of hollow 50 ft below ridge course S. ascend
37.40	Head of hollow 100 ft. above last hollow course SW
39.94	Set an iron post 3 ft. long, 1 in. in dia. 12 ins. in the ground and surrounded by mound of stone for 1/4 sec cor. bet. Secs 4 and 9 Mkd. on brass cap 1/4 S 4 on N., and S 9 on S. half from which.
	A pinon pine 5 ins. diam bears N 73° 15' W 136 lks dist. Mkd. 1/4 S 4 B T
	A cedar 12 ins. diam bears S 66° 0' E 3 lks. dist. mkd. 1/4 S 9 B T.
44.00	Descend over ledges bear N and S
54.10	Hollow 60 ft. below cor. course S. ascend over ledges
59.40	Top of abrupt ascent 70 ft. above hollow bears NE and SW ascend gently
59.90	Top of ridge 75 ft. above hollow bears N and S; descend over small broken ledges bear N 80° W and S 80° E
77.90	Bottom of Pritchet canyon 65 ft. below ridge course N at this point,

Subdivision of T 27 S R 22 E

Chains.	
	thence along S. side of canyon wash 59 lks. wide, 10 ft. deep in solid rock.
79.88	The cor. point of secs 4, 5, 8 and 9 Mountainous land; SW slope Soil, poor gravely loam 6 to 12 ins. deep on rock in place Coarse texture and dry. Timber, scattering cedar and pinon pine. Undergrowth, scattering sagebrush
	November 27 1911 Eric H Anderson U.S. Transitman
	November 28, at 8h 48m a.m. limit I set off 38°29' on the lat. arc; 21°10' S on the decl. arc. and determine a meridian with the polar at cor. point of secs 4, 5, 8 and 9 Thence I run North on a random line bet. secs 4 and 5
40.00	Set temp 1/4 sec. cor.
81.78	Intersect N bdy of Tp 3 lks E of cor. point of secs. 4, 5, 32 and 33 heretofore described. Thence I run S 0° 1' E on a true line bet. secs 4 and 5 Over mountainous land, through scattering cedar and pinon pine and scattering sagebrush undergrowth descend
1.78	Foot of gently sloping sandstone ledge bears E and W desc gently
3.75	Foot of sandstone ledge bears NW and SE descend abruptly
5.00	Top of smooth sandstone ledge or bluff 50 ft. above foot bears NW and SE; descend abruptly over smooth sandstone ledge

Subdivision of T27S. R22E

Tenths	
16.30	Foot of ledge 300 ft. below top bears NE and SW; descend gently
28.80	N side of box canyon which heads about 30 lks. E. of line, bears E and W. Note, There is a small seep of water in head of this canyon.
30.70	S side of same canyon 100 ft. above bottom bears E and W Ascend abruptly over small sandstone spur
34.70	Top of spur or ledge 45 ft. above edge of canyon bears NW and SE Descend gently over small rolling sandstone ledges.
41.78	Set an iron post 3 ft. long, 1 in. in dia 12 ins. in the ground for solid rock and surrounded by mound of stone for 1/4 sec cor bet. secs 4 and 5 Marked on brass cap 1/4 S 5 on W, and S.4 on E half, from which A pinon pine 10 ins. diam bears S 34°30' E 60 lks. dist. Marked 1/4 S 4 BT A pinon pine 10 ins. diam. bears N 70°30' W 87 lks. dist. Marked 1/4 S 5 BT. Nov 28: At noon, cloud prevents lat. observation.; ascend gently
44.80	Top of gentle ascent bears E and W descend gently over small mesa
52.00	Descend over smooth sandstone knolls and ledges
66.50	Foot of ledges 200 ft. below top bears E and W; descend over rough talus slope.
81.50	Bottom of Pritchot canyon course W
81.78	The cor point of secs 4, 5, 8 and 9 Very rough mountainous land; Westerly slope; Soil poor gravely loam 3 to 12 ins deep. on bedrock, coarse and dry. Timber, scattering cedar and pinon pine; Undergrowth scattering sago

Subdivision of T 27 S R 22 E.

[illegible]	brush.
	November 28 1911. Eric H. Anderson U.S. Transitman
	November 25; At 8h 47m am Inst. I set off 38°25' on the lat. arc; 20°36' S on the decl. arc, and determine a meridian with the solar at cor of secs 5, 6, 31 and 32 on the S bdy of Tp. heretofore described. Thence I run
	N 0°3' W bet secs 31 and 32
	Over Mountainous land through scattering cedar and pinon pine timber; greasewood and grass under-growth; descend
1.00	Begin abrupt descent into canyon over broken ledge
11.00	Bottom of canyon 300 ft. below edge course W, drains into Hatchewash canyon. ascend over ledges
22.50	N edge of canyon 300 ft. above bottom bears N 80° E, and S 86° W; ascend gently over rolling mesa
30.00	Top of small ridge bears E and W descend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia. 26 ins. in the ground for 1/4 sec. cor. bet. secs 31 and 32 marked on brass cap, 1/4 S 31 on W, and S 32 on E half from which
	A cedar 6 ins. diam. bears S 49°0' E 96 lks. dist. marked 1/4 S 32 BT.
	A cedar 15 ins. diam. bears S 54°0' W 133 lks. dist. marked 1/4 S 31 BT ascend gently
59.90	Trail bears NW and SE.
80.00	Set an iron post 3 ft. long, 2 ins. in dia. 12 ins. in the ground on solid rock

Trim. and surrounded by mound of stone for cor. of secs 29 30 31 and 32 Marked on brass cap T27SR22ES30S29 in N. half S32 in SE, and S31 in SW., quadrant, from which
A pinon pine 6 ins. diam bears N74°15'E 220 lks. dist. Marked T27SR22ES29BT
A pinon pine 6 ins. diam bears S89°0'E 170 lks. dist Marked T27SR22ES32BT
A cedar 6 ins diam bears S41°0'W 73 lks. dist. Marked T27SR22ES31BT.
A pinon pine 6 ins. diam bears N79°0'W 100 lks. dist. Marked T27SR22ES30BT
Mountainous land; SW Slope; soil sand and gravel loam 6 to 18 ins deep on gravel and rock subsoil coarse texture and dry.
Timber scattering cedar and pinon pine.
Undergrowth, short greasewood and grass,

E on a random line bet secs 29 and 32
40.00 Set temp 1/4 sec. cor.
80.00 Intersect N and S line at cor. of secs 28 29 32 and 33
Nov. 25: At 11h 47m am Lmt. I set off 20°38'S on the decl. arc. and observe the sun on the meridian at this point; the resulting lat. is 38°26' very nearly
Thence I run
West on a true line bet secs 29 and 32.
Over rolling mountainous land through scattering cedar and pinon pine timber and greasewood and grass.
ascend gently
23.50 Point of sandstone ridge bears NE and SW; descend

Subdivision of T 27S R 22E

24.00 Foot of sandstone ridge 40 ft below brs NE and SW; desc gently

40.00 Set an iron post 3 ft long 1 ins. in dia 26 ins. in the ground for 1/4 sec cor bet secs 29 and 32 marked on brass cap 1/4 S29 on N and S32 on S half from which
a cedar 6 ins. diam bears N 69°20'W 170 lks dist Marked 1/4 S29 BT
A cedar 8 ins. diam bears S 53°30'W 185 lks dist Marked 1/4 S32 BT
ascend gently

50.00 Top of ridge 25 ft above 1/4 sec cor brs. N and S; descend

60.00 Bottom of hollow 50 ft. below ridge course SW; ascend

64.00 Top of sandstone ridge 20 ft above hollow brs N and S; descend

70.00 Bottom of gulch 40 ft below ridge course S, ascend gently

80.00 The cor of secs 29, 30, 31 and 32

Rolling mountainous land, S slope, soil, sand and gravel loam 6 to 18 ins. deep on rock and gravel subsoil, rather coarse texture and dry;
Timber, scattering cedar and Pinon Pine
Undergrowth; greasewood and grass.
Nov. 25 1911-

November 27: at 8:00 am. Lmt. Sky over cast solar observation impossible
I run
West on a random line bet. secs 30 and 31, and at point 6.30 chs on top of small ridge I can see flag at cor of secs 30, 31, 36 and 25 and which this line intersects on W bdy of Tp; I therefore abandon

Subdivision of T 27 S R 22 E

Chains

random line and
run West from cor of secs 30 and 29,
31 and 32 bet secs 30 and 31 on
a true line
Over Mountainous land through
scattering cedar and pinon pine
timber; and scattering sagebrush
ascend

6.30 Top of ridge 40 ft above sec cor,
beds N and S; descend

6.50 Begin descent over broken ledges
bearing N 30° E and S 30° W

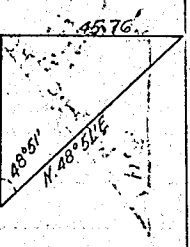
20.00 Foot of abrupt descent bears N 30° E
and S 30° W
Nov 27: at noon Sky overcast, lat.
observation impossible

32.20 E. edge of Hatch Wash canyon, top of
vertical ledge 400 ft. high brs N 30° W
and S 30° E impossible to chain
further therefore at

31.65 Set an iron post 3 ft long 1 in. in dia
18 ins. in the ground on solid rock and
surrounded by mound of stone for
witness cor to 1/4 sec cor bet secs 30 and 31;

40.00 (True point of which falls in canyon Sr. not set)
Marked on brass cap T 27 S R 22 E 1/4 S 30
on N., W.C. on W and S 31 on S half from
a cedar 6 ins. diam brs N 42° 30' E, 20 lks.
dist Mkd W.C. 1/4 S 30 BT
a pinon pine 26 ins. diam. brs S
7° 40' W, 7 1/2 lks. dist Mkd WC 1/4 S 31 BT
From W.C. I observe flag at 1/4 sec
cor bet. secs 31 and 36 on W bdy of Tp.
which bears S 48° 51' W; From the flag
the instrument bears N 48° 51' E therefore
the dist is tan 48° 51' × base or 1.1440 × 40.00 =
45.76 chs which makes the line bet.
secs 30 and 31; 31.65 + 45.76 or

77.41 The cor of secs 25, 30, 31 and 36
on W bdy of Tp heretofore described
Mountainous land; SW slope;



Subdivision of T 27 S R 22 E

Chains.	
	Soil gravelly loam, 6 to 12 ins. depth on rock and gravel subsoil coarse texture and dry; Timber scattering cedar and pinon pine. Undergrowth, scattering sagebrush November 27 1911.
	November 28; At 8h 48m a.m. l.m.t. I set off 38°26' on the lat. arc; 21°10' S on the decl. arc and determine a meridian with the solar at cor of secs 29 30 31 and 32 Thence I run N 0°3' W bet secs 29 and 30 Over Mountainous land through scattering cedar and pinon pine, timber and scattering greasewood and grass; ascend
7.00	Top of ridge 50 ft. above sec. cor. bears N 70° W and S 70° E; descend
15.00	Bottom of hollow 60 ft. below ridge course N 70° W; ascend
20.00	Top of ridge spur, at point 40 ft. above hollow, bears E and W. descend
22.50	Foot of spur 50 ft. below top bears N 70° E and S 70° W; descend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 29 and 30 marked on brass cap 1/4 S 30 on W and S 29 on E half, from which A cedar 8 ins. diam. bears S 68°45' E 118 lks. dist. mkd. 1/4 S 29 B.T. A pinon pine 7 ins diam. bears S 86°0' W 244 lks. dist. Mkd 1/4 S 30 B.T.

Subdivision of T 27 S R 22 E

Chains.	
47.00	Edge of box canyon, 300 ft. dup, bears N10°E and S10°W, canyon drains South westerly into Hatch Wash Canyon. Being impassable I offset E to a point 10.00 chs, thence I run N0°3'W on offset line over gently descending land 33 chs., thence W 7.10 chs, to the edge of same canyon, which bears N and S at this point. Canyon being impassable at this point I Set an iron post 3 ft. long 2 ins. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for witness cor. to cor of secs 19. 20 29 and 30 marked on brass cap T27SR22E S19 S20 in N., and WC in W. half; S29 in SE., and S30 in SW. quadrant from which A pinon pine 8 ins. diam bears N1°50'W 138 lks. dist. Mkd WC T27SR22E S20BT A cedar 10 ins. diam bears N53°45' W 46 lks. dist. Mkd. WC T27SR22E S20BT A pinon pine 8 ins. diam. bears S32°10'W 133 lks dist. Mkd. WC T27SR22E S29BT A pinon pine 14 ins. diam. bears S15°25'W 117 lks. dist. Mkd WC T27SR22E S29BT They in order to perpetuate sec. line to the North I return to offset line 7.10 chs. east of W.C. and run N.0°02'E. on offset line over gently rolling land to point 18.15 chs., thence West to point 10 chs, back to sec. line, on W edge of canyon, Set an iron post 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and surrounded by mound of stone for witness cor. to cor. of secs 20, 19, 29 and 30; marked on brass cap, T27SR22E S19S20

Subdivision of T27SR22E

Chains.

in N, and WC in S half,
S29 in SE; and
S30 in SW, quadrants
from which
a cedar 6 ins. diam. bears N17°30'E
191 lks. dist. Mkd. WCT27SR22E S20BT
a pinon pine 6 ins. diam. bears S9°30'E
13 lks. dist. Mkd WCT27SR22E S29BT
a pinon pine 8 ins. diam bears S25°W
105 lks. dist. Mkd. WCT27SR22E S30BT.
a pinon pine 6 ins. diam. bears N67°50'W
57 lks. dist. Mkd WCT27SR22E S19BT.
Nov. 28: Cloud, prevents lat. observation.
Mountainous land; westerly slope
Soil, gravely loam 6 to 12 ins. dep
on rock and gravel subsoil.
Timber, scattering cedar and pinon
pine; Undergrowth, scattering greasewood and grass.

From witness cor., heretofore described,
Set 2.90 chs E of Point for cor of secs 19, 20, 29 & 30
6 on a random line bet. secs 20 and
29
37.10 Set temp 1/4 sec cor.
77.10 Intersect N and S line 6 lks N of cor. of secs.
20, 21, 28 and 29
Thence I run
N89°57'W on a true line bet secs 20
and 29
Over Mountainous land through
scattering cedar and pinon
pine and dense sagebrush
ascend
5.00 Top of ridge 40 ft. above sec. cor bears
N and S. descend
15.10 Top of sloping ledge 30 ft. high, bears
N and S
19.90 Top of sloping ledge 30 ft high bears
N and S.

Subdivision of T 27 S R 22 E

Chains.	
33.10	Top of sloping ledge 60 ft. high bears N and S.
38.20	Bottom of hollow 100 ft. below ridge course NW, ascend
39.00	Top of ridge 20 ft. above hollow bears N 20° W and S 20° E.
40.00	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground for 1/4 sec cor. bet secs 20 and 29 marked on brass cap 1/4 S 20 on N and S 29 on S. half, from which A pinon pine 18 ins. diam bears N 85° 30' E 370 lks. dist. Mkd. 1/4 S 20 BT A cedar 10 ins. diam. bears S 55° 30' W 395 lks. dist. Mkd. 1/4 S 29 BT.
45.80	Wash 10 lks. wide 3 ft. deep in small hollow 30 ft. deep course N 30° W ascend
63.00	Top of small ridge 40 ft. above wash bears N and S. descend gently
77.10	The witness cor to cor of secs 20 19, 30 and 29, 2.90 chs E of true cor. point.
80.00	The cor point of secs 19 20 29 and 30 falls in canyon Mountainous land; W slope; Soil sand and gravel loam 12 to 18 ins. deep on gravel subsoil. Timber, scattering cedar and pinon pine, Undergrowth dense artemisia brush and sagebrush November 28. 1911. Scott P. Stewart U. S. Transitman

November 29; At 8h 48m am. lmt. I set off 38° 27' on the lat arc; 21° 21' S on the decl. arc and determine a meridian with the solar at witness cor to cor. of secs 19 20 29 and 30

Subdivision of T 27 S R 22 E

Chains.	
	which is 18.15 chs. N of true cor. point, then in order to perpetuate random line bet secs 19 and 30, I run West on offset line to point, 17.50 chs. over gently rolling land; thence I run S. 0°02' W. 18.15 chs to point on sec line on W edge of same canyon Thence I run W. on a random line bet secs 19 and 30
22.50	Set temp 1/4 sec. Cor.
59.97	Intersect W bdy of Tp at cor of secs 19, 24 25 and 30 heretofore described Thence I run East on a true line bet. secs 19 and 30 Over mountainous land through scattering cedar and pinon pine, and greasewood and sagebrush. ascend gently
14.50	Begin abrupt ascent over sandstone spur bears N and S
19.50	Top of same spur 100 ft. above foot bears N and S, descend over smooth sandstone.
32.00	Foot of same spur 100 ft. below top bears N 20° E and S 20° W, descend gently
37.47	Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 19 and 30 Mkd. on brass cap 1/4 S 19 on N., and S 30 on S, half from which a pinon pine 6 ins. diam bears S 38 50' E 68 lks. dist. Mkd. 1/4 S 30 BT a cedar 9 ins. diam. bears N 55° 40' W 112 lks. dist. Mkd 1/4 S 19 BT: descend
59.97	Point of offset, edge of canyon bears N 10° E and S At this point impossible to chain into canyon

Subdivision of T 27 S. R 22 E.

Chains.	
	this point being 17.50 chs W of true cor. point, makes this line
77.47	The cor. point of secs. 19 20 29 and 30, which falls in box canyon Mountainous land; Southerly slope Soil gravely loam, 6 to 12 ins. deep on rock and gravel subsoil coarse texture and dry. Timber, scattering cedar and pinon pine; Undergrowth greasewood and sagebrush. Eric H. Anderson U.S. Transitman
	November 29 At 8h 48m am. lmt. I set off 38°27' on the lat. arc; 21°21' S on the decl. arc and determine a meridian with the solar at witness cor. to cor. of secs. 19, 20 29 and 30 which is 18.15 chs N. of true cor point. Thence I run, Meas. counted from true Cor point N. 0°02' E bet. secs 19 and 20 Over rolling mountainous land through scattering cedar and pinon pine timber and dense sagebrush
40.00	Set an iron post 3 ft. long, 1 in. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 19 and 20 Marked on brass cap 1/4 S 19 on W, and S 20 on E. half from which A cedar 12 ins. diam. bears S 80°30' E 144 lks. dist. Mkd. 1/4 S 20 BT A cedar 5 ins. diam. bears S 33°40' W 275 lks. dist. Mkd 1/4 S 19 BT.
55.00	Begin abrupt ascent bears E and W
59.80	Top of ridge 150 ft. above 1/4 sec. cor. bears E and W., descend
71.50	Bottom of hollow 130 ft. below ridge

Subdivision of T 27 S R 22 E.

Chains.	course E; Begin abrupt ascent over ledges.
80.00	Set an iron post 3 ft. long, 2 ins. in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs 17 18 19 and 20 marked on brass cap T 27 S R 22 E S 18 S 17 in N. half; S 20 in S E., and S 19 in S W., quadrant, from which A pinon pine 20 ins. diam. bears N 16° 30' E 24 lks. dist. Mkd T 27 S R 22 E S 17 BT A pinon pine 8 ins. diam. bears S 46° 0' E 20.5 lks. dist. mkd T 27 S R 22 E S 20 BT A pinon pine 8 ins. diam. bears S 35° 30' W 80 lks. dist. Mkd. T 27 S R 22 E S 19 BT A pinon pine 10 ins. diam. bears N 57° 0' W. 120 lks. dist. Mkd. T 27 S R 22 E S 18 BT. Rolling Mountainous land; S slope. Soil, sand and gravel loam 6 to 12 ins deep on rock and gravel subsoil, Timber, scattering cedar and pinon pine Undergrowth, sagebrush. Joel H. Stewart U.S. Transitman
Nov. 29	At 11h 48m am. lmt. I set off 21° 22' S on the decl. arc and observe the sun on the meridian at cor. of secs 17, 18, 19 and 20, the resulting lat. is 38° 28' nearly Thence I run E, on a random line bet secs 17 and 20
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S line 3 lks. S of cor. of secs. 16 17 20 and 21 Thence I run S 89° 59' W on a true line bet secs 17 and 20 Over mountainous land, through

Subdivision of T 27 S R 22 E

Chains.	
	scattering cedar and pinon pine timber; scattering greasewood and sagebrush undergrowth ascend gently
7.75	Begin abrupt ascent over ledges bears N and S
13.00	Top of ledge knoll 85 ft. above foot bears N and S; descend
19.00	Foot of ledges 40 ft. below top bears N and S, enter small mesa
29.30	Descend abruptly over ledges, edge of mesa bears N80°W and S80°E
34.00	Bottom of hollow 50 ft. below mesa course S; ascend
37.00	Begin abrupt ascent over ledges bear N and S
37.50	Top of ledge spur 70 ft. above hollow bears N and S; descend
39.00	Descend abruptly over vertical ledge 20 ft high bears N and S
40.00	Set an iron post 3 ft. long 1 in in dia 12 ins. in the ground and surrounded by mound of stone for 1/4 sec. cor. bet. secs 17 and 20 Mkd. on brass cap 1/4 S 17 on N and S 20 on S half from which A cedar 8 ins. diam. bears N 3°0'E 120 lks. dist. Mkd. 1/4 S 17 BT A pinon pine 8 ins. diam. bears S 69°6' W. 50 lks. dist. Mkd. 1/4 S 20 BT. descend gently
47.50	Bottom of gentle canyon 60 ft. below 1/4 Sec cor; Wash in bottom 30 lks wide 2 ft. deep course S; ascend gently
56.50	Begin abrupt ascent over ledges bears N 20°E and S 20°W
75.00	Top of ridge 90 ft. above foot of ledges bears N and S
80.00	The cor of secs 17, 18, 19 and 20 Mountainous land; S slope soil gravely loam 6 to 12 ins. deep

Subdivision of T 27 S R 22 E

Chains	
	on rock and gravel subsoil Timber scattering cedar and pinon pine; Undergrowth, short greasewood, sagebrush and some grass. November 29 1911 Eric H Anderson U.S. Transitman
	December 1, At 8:00 am. Sky overcast prevents solar observation. I run West on a random line bet. secs. 18 and 19
40.00	Set temp 1/4 sec. cor.
77.53	Intersect W. bdy. of Tp. 7 lks. N of cor of secs 18, 19, 13 and 24 heretofore described. Thence I run N 89°57' E on a true line bet. secs 18 and 19 Over Mountainous land through cedar and pinon pine timber; greasewood and occ. undergrowth ascend
12.00	Top of ridge 50 ft. above sec. cor. bears W and S. descend gently
25.00	Bottom of swale 30 ft. below ridge course N 10° E ascend
35.00	Top of ridge 60 ft. above swale bears NE and SW, descend gently
37.53	Set an iron post 3 ft. long, 1 in. in dia 26 ins. in the ground for 1/4 sec cor bet secs 18 and 19 Mkd. on brass cap 1/4 S 18 on N, and S 19 on S half from which A cedar 8 ins. diam. bears S 18° 30' E 471 lks. dist. Marked 1/4 S 19 BT. No other trees being available, dig pits 18 x 18 x 12 ins. E and W of post 3 ft. dist. and raise a mound

Subdivision of T 27 S R 22 E

Chains.	of earth 3½ ft. base 1½ ft. high N of cor.; descend gently
49.40	Top of sloping ledge 30 ft. high bears N and S; descend more abruptly
58.50	Bottom of hollow course S 20° E ascend
64.50	Top of ridge 30 ft. above hollow bears N and S.; descend
77.53	The cor of secs 17, 18, 19 and 20.
Dec. 1:	At 11h 49m a.m. l.m.t. I set off 21°42' S on the decl. arc and observe the sun on the meridian at this cor.; the resulting lat. is 38°28' nearly. Mountainous land; S. slope; soil sandy loam with some gravel 8 to 24 ins deep on sandstone, medium texture, dry. Timber, scattering cedar and pinon pine. Undergrowth, greasewood, ooc and sagebrush.

Eric H Anderson
U.S. Transitman

Nov. 26:	N 0° 1' E bet secs 17 and 18 Over mountainous land through scattering cedar and pinon pine timber, and scattering artemisia-brush and sagebrush; ascend over ledges
1.40	Top of sloping ledge 20 ft. high bears E and W.
Nov. 29:	At 11h 48m a.m. l.m.t. I set off 21° 42' S on the decl. arc. and observe the sun on the meridian at this point; the resulting lat is 38°28' nearly
13.00	Top of sloping ledge 60 ft high bears E and W ascend
17.00	Top of ridge 250 ft. above sec. cor. bears E and W; descend gently
39.00	Begin more abrupt descent bears

Subdivision of T 27 S R 22 E

Chains.	
	E and W
39.90	Foot of ledge 40 ft. high bears E and W
40.00	Set an iron post 3 ft long, 1 in. in dia 26 ins - in the ground for 1/4 secor. but secs 17 and 18 mked on brass cap 1/4 S 18 on W qud S 17 on E half
	from which
	A pinon pine 12 ins. diam. bears N 24° 10' W; 38 lks. dist. Mkd. 1/4 S 18 BT
	A pinon pine 10 ins. diam bears S 66° 45' E; 46 lks dist. mked 1/4 S 17 BT.
43.00	Bottom of hollow 150 ft. below ridge course NW; ascend
63.70	Top of ridge 40 ft. above hollow bears N 88° E and S. 80° W; descend gently
80.00	Set an iron post 3 ft. long, 2 ins. in dia. 12 ins. in the ground and surrounded by mound of stone for Cor. of secs 7, 8, 17 and 18 Mkd. on brass cap T 27 S R 22 E S 7 S 8 in N half, S 17 in S E., and S 18 in S W., quadrant, from which
	A pinon pine 10 ins. diam. bears N 40° 0' E 107 lks. dist. Mked T 27 S R 22 E S 8 BT.
	A cedar 8 ins. diam. bears S 73° 0' E 70 lks. dist. Mked. T 27 S R 22 E S 17 BT.
	A pinon pine 14 ins. diam bears S 62° 40' W 20 lks. dist. Mked T 27 S R 22 E S 18 BT.
	A pinon pine 12 ins. diam bears N 33° 10' W 129 lks. dist. Mked. T 27 S R 22 E S 7 BT.
	Mountainous land; Northerly slope; soil, gravelly loam 6 to 18 ins. deep on sandstone in place, dry; Timber, scattering cedar and pinon pine 80. cks Undergrowth, scattering artemisia-brush and sagebrush
	November 29 1911

Subdivision of T 27 S R 22 E

Chains.	
	December 1. At 8:00 Am Sun being obscured by clouds, make solar observation impossible, at cor of secs 7, 8, 17 and 18; I run E. on a random line bet. secs 8 and 17
40.00	Set temp 1/4 sec. cor.
80.04	Intersect N and S line 7 lks N of cor of secs 8, 9, 16 and 17
	Thence I run N89°57'W on a true line bet. secs 8 and 17
	Over rocky mountainous land, through scattering cedar and pinon pine timber; greasewood and some grass undergrowth ascend
8.00	Top of gently rolling sandstone ridge 30 ft. above sec. cor. bears N and S; descend over smooth and rolling sandstone ridges
37.00	Foot of ledge 60 ft. below ridge bears N 25° E and S 25° W; descend gently
40.02	Set an iron post 3 ft. long, 1 in. in dia. 12 ins. in the ground on solid rock and raise a mound of stone around post for 1/4 sec. cor. bet. secs. 8 and 17 mkd. on brass cap 1/4 S 8 on N., and S 17 on S. half from which
	A pinon pine 10 ins. diam bears N 45° W 206 lks. dist. mkd. 1/4 S 8 BT.
	A pinon pine 10 ins. diam. bears S 37° W 35 lks. dist. mkd 1/4 S 17 BT
46.20	Wash 5 lks. wide 6 ins. dep course N 25° W ascend
56.20	Top of rocky sandstone ridge 40 ft. above wash bears N and S descend
62.50	Foot of sandstone ledge bears N and S

Subdivision of T 27 S R 22 E.

Chains.	
64.50	Top of ledge 100 ft. above bears N and S descend
66.00	Bottom of gulch 100 ft. below ledge course N, heads 3 chs. S of line ascend
72.90	Foot of ledge bears N 20° W and S 20° E
74.00	Top of ledge 30 ft. above foot bears N and S; ascend gently
80.04	The cor. of secs 7, 8, 17 and 18
Decl	At 11h 49m a.m. I set off 21° 42' S on the decl. arc and observe the sun on the meridian at this cor.; the resulting lat is 38° 58' very nearly
	Mountainous land; Northerly slope; Soil, poor gravely loam 3 to 12 ins deep on sandstone in place; Timber, scattering cedar and pinon pine Undergrowth, scattering greasewood and some grass.
	Earl P. Stewart U.S. Transitman
	W. on a random bet secs 7 and 18
4.00	Set temp 1/4 sec. cor
77.54	Intersect W. bdy of Tp 4 lks. S of cor. of secs. 7 12 13 and 18 heretofore described
	Thence I run S 89° 58' E on a true line bet. secs 7 and 18
	Over mountainous land through scattering cedar and pinon pine timber and sagebrush; ascend
27.5	Top of ridge 80 ft. above sec. cor. bears N and S.; descend
30.75	Trail bears N and S
31.15	Bottom of canyon 300 ft. below ridge, course N.; ascend

Subdivision of T 27 S R 22 E

Chains.	
37.54	Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 7 and 18 marked on brass cap; 1/4 S 7 on N. and S 18 on S half, from which a pinon pine 12 ins. diam. bears N 66 45' E 1.62 lks. dist. Mkd. 1/4 S 7 B T. A cedar 8 ins. diam. bears S 42° 30' W 72 lks. dist. Mkd. 1/4 S 18 B T.
	ascent continues
51.00	Foot of sloping ledge bears N and S
52.50	Top of sloping ledge 80 ft. above foot bears N and S
Dec. 1	At 3h 49m p.m. lmt. I set off 38° 28' on the lat. arc; 21° 42' S on the decl arc; and determine a meridian with the solar at this point.
	ascend gently
66.00	Top of ridge 500 ft. above canyon bears N 20° W and S 20° E; descend
68.60	Bottom of hollow 30 ft. below ridge course N 30° W; ascend
77.54	The cor of secs 7, 8, 17 and 18 Mountainous land; Northerly slope; soil, gravely loam 3 to 12 ins deep on rock and gravel subsoil. Timber, scattering cedar and pinon pine. Undergrowth scattering greasewood and sagebrush.

December 1, 1911.
Eric A Anderson
U.S. Transitman

Dec 1, 1911
North bet. secs 7 and 8
Over mountainous land through scattering cedar and pinon pine timber and scattering sagebrush.
descend.

Subdivision of T 27 S R 22 E.

Chains.	
5.90	Top of sloping ledge 40 ft. high bears E and W.
10.24	Top of sloping ledge 80 ft. high bears E and W
28.00	Bottom of canyon 400 ft. below sec. cor. Course NW; ascend;
33.00	Top of ridge 80 ft. above canyon bears NW and S E.; descend
40.00	Set an iron post 3 ft. long, 1 in in dia, 12 ins. in the ground and surrounded by mound of stone for 1/4 sec. cor. bet. secs 7 and 8 Mkd. on brass cap 1/4 S 7 on W., and S 8 on E half from which
	A piñon pine 18 ins. diam bears N 65° 45' E 161 lks. dist. Mkd 1/4 S 8 BT.
	A piñon pine 12 ins. diam. bears S 32° 45' W 176 lks. dist. Mkd. 1/4 S 7 BT.
44.50	Bottom of canyon 140 ft. below ridge course N 70° W; ascend
67.00	Top of ridge 150 ft. above hollow bears N 70° W and S 70° E.
Dec 1	At 3h 49m p.m. Lmt. I set off 38° 29' on the lat. arc; 21° 42' S on the decl. arc, and determine a meridian at this point.; descend
75.00	Begin abrupt descent over ledges bears N E and S W
80.00	Point 200 ft. below ridge and 100 ft above Pritchet canyon.
	Set an iron post 3 ft. long, 2 ins. in dia. 12 ins. in the ground and surrounded by mound of stone for cor. of secs. 5, 6, 7 and 8. Mkd. on brass cap T 27 S R 22 E S 6 S 5 in N. half S 8 in S E., and S 7 in S W., quadrant, from which
	A cedar 7 ins. diam. bears N 36° 10' E 95 lks. dist. Mkd T 27 S R 22 E S 5 BT
	A sandstone ledge 4 ft high Mkd + BO S 8 bears S 37° 0' E, 34 lks. dist.

Subdivision of T 27 S R 22 E.

Chains.

A cedar 6 ins. diam. bears S 58°15' W 127 lks. dist. Mkd. T 27 S R 22 E S 7 B T
A cedar 7 ins. diam. bears N 66°15' W 132 lks. dist. Mkd T 27 S R 22 E S 6 B T.
Mountainous land; NW slope
Soil, gravely loam 6 to 12 ins. deep on sandstone, coarse texture, dry
Timber, scattering cedar and pinon pine;
Undergrowth, scattering artemisia brush and sagebrush.

December 1 1911.

Geo. P. Stewart
U. S. Transitman.

December 2; At 8h 49m a.m. L.M.T. I set off 38°29' on the lat. arc 21°50'S on the decl. arc and determine a meridian with the solar at cor. of secs. 5, 6, 7 and 8
Thence I run
E. on a random line bet. secs 5 and 8
40.00 Set temp 1/4 Sec. cor.
80.00 Intersect N and S line at cor. of secs. 4, 5, 8 and 9
Thence I run
West on a true line bet. secs. 5 and 8
Over mountainous land through scattering cedar and pinon pine timber, and scattering sagebrush undergrowth.
Descend along wash in bottom of Pritchet Canyon
7.00 leave wash course S 60° W; begin ascent over broken sandstone ledges bear N 60° E and S 60° W
14.00 Top of ledges 50 ft. above canyon brs. NE and SW; ascend gently
17.00 Top of ridge 60 ft. above canyon bears

Subdivision of T 27 S R 22 E.

Chains.	
	N and S; descend gently
22.20	Descend abruptly, bears NW and SE
29.50	Wash in bottom of Pritchet canyon 20 lks. wide 1 ft. dep in solid rock, 60 ft. below ridge course W.; descend gently along wash
32.50	Leave Pritchet Canyon wash course SW, and begin abrupt ascent over broken ledges bears NE and SW.
36.60	Top of ridge 40 ft. above canyon bears W and S; descend
39.70	Top of ledge 30 ft high bears NW and SE
40.00	Set an iron post 3 ft. long, 1 in. india 14 ins. in the ground and surrounded by mound of stone for 1/4 secor. bet. secs 5 and 8. Mkd on brass cap, 1/4 S 5 on N.; and S 8 on S hdf. from which
	A pinon pine 12 ins. diam. bears N62°0'W 46 lks. dist. Mkd 1/4 S 5 B T.
	A cedar 12 ins. diam. bears S 20°0'E 40 lks. dist. Mkd 1/4 S 8 B.T.
	descend gently
41.00	Wash 20 lks wide 3 ft. dep in bottom of Pritchet Canyon course N 70°W at this point.
	Note, There is a tank of fresh water in bottom of wash (rock bottom) at this place 20 lks wide 40 lks. long and 1 ft. dep, from which a very small stream of water flows, indicating a seep.; ascend
52.00	Top of spur 60 ft. above canyon bears N and S. descend
57.00	Foot of spur 35 ft. below top bears NE and SW.; descend gently over small flat or mesa
77.00	Begin abrupt descent over broken ledge 20 ft. high bears N60°E and S60°W.
80.00	The cor. of secs 5, 6, 7 and 8

Chains. Subdivision of T 27 S R 22 E.

Dec. 2:	At 11h 49m am. Inst. I set off 21°51' S on the incl. arc and observe the sun on the meridian at this cor, the resulting lat. is 38° 29' nearly. Mountainous land; Westerly slope; soil, gravely loam 3 to 12 ins deep on Sandstone in place; coarse texture and dry. Timber, scattering Cedar and pinon pine. Undergrowth, scattering sagebrush
	W. on a random line bet secs. 6 and 7
40.00	Set temp 1/4 sec cor.
77.60	Intersect W bdy. of Tp 1 lk. S of cor of secs 1, 6, 7 and 12 heretofore described. Thence I run East on a true line bet. secs. 6 and 7. Over Mountainous land, through scattering Cedar and pinon pine timber and scattering sagebrush. descend
2.00	Bottom of canyon 25 ft. below sec. cor. course NW, ascend, over ledges
5.60	E. edge of canyon 200 ft. above bottom bears N and S. ascend gently
12.50	Top of gentle ascent bears N 20° W and S 20° E; descend
28.50	Bottom of hollow course N 20° W; asc.
37.60	Set an iron post 3 ft. long, 1 in in dia 12 ins. in the ground on solid rock and surrounded by mound of stone for 1/4 sec. cor. bet. secs 6 and 7 mkd. on brass cap. 1/4 S 6 on N., and S 7 on S half, from which A pinon pine 12 ins. diam bears N 51° 0' E 29 lks. dist. mkd 1/4 S 6 BT.

Chains. Subdivision of T 27 S, R 22 E.

A pinon pine 14 ins. diam. bears S 22° 30' E. 33 Gov. dist. Mkd. 1/4 S 7 B.T.
ascend gently over small ridges and hollows.

46.50 Top of gentle ascent bears N 60° E and S 80° W; descend abruptly over broken ledges.

53.50 Bottom of canyon course N 30° W, ascend over ledges.

59.60 Top of ridge 250 ft. above canyon bears N and S. descend over ledges

77.60 The cor. of secs. 5, 6, 7 and 8
Mountainous land; Northerly slope; soil, gravely loam 6 to 12 ins. deep on sandstone, coarse texture and dry.
Timber, scattering cedar and pinon pine
Undergrowth, scattering sagebrush

December 2 1911—
Eric H. Anderson
U.S. Transitman

December 2; at 8h 49m a.m. lmt. I set off 38° 29' on the lat. arc; 21° 50' S on the decl. arc and determine a meridian with the solar at cor. of secs 5, 6, 7 and 8
Thence I run
N. on a random line bet. secs 5 and 6

40.00 Set temp 1/4 Sec cor.

81.82 Intersect N bdy of Tp. at cor. of secs 5, 6, 31 and 32 heretofore described
Thence I run
South on a true line bet secs 5 and 6
Over mountainous land through scattering cedar and pinon pine timber and scattering sagebrush ascend

4.60 Top of ledge 300 ft high bears E and W ascend gently

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Subdivision of T 27 S. R. 22 E.

Chains	
11.40	Top of sandstone ridge 150 ft high bears E and W; descend over solid sandstone
27.60	Bottom of hollow 200 ft. below top of sandstone ridge, course W, ascend
41.70	Set an iron post 3 ft. long, 1 in in dia, 12 ins in the ground on solid rock and surrounded by mound of stone for witness cor to 1/4 sec. cor. bet secs 5 and 6. Mkd. on brass cap T 27 S 1/4 S 6 on W., W C on S. and R 22 E S 5 on E. half, from which A pinon pine 12 ins. diam. bears S 80°30' E. 104 lks. dist. Mkd W C 1/4 S 5 B T. A pinon pine 7 ins. diam bears S 76°30' W 54 lks. dist. Mkd. W C 1/4 S 6 B T.
41.82	Point for 1/4 sec cor. falls on solid sandstone Mkd by x in ledge, cor. not set.
51.70	Top of smooth sandstone ridge 100 ft. above hollow bears E and W,
Dec. 2:	At 11h 49m am. Lmt. I set off 21°51' S on the decl. arc. and observe the sun on the meridian at this point; the resulting lat. is 38°30' very nearly; descend over series of sandstone ledges
76.10	Bottom of Pritchot canyon 600 ft. below ridge, course W, Note, there are a few scattering cottonwoods in bottom of canyon at this point. ascend over ledges
81.82	The cor. of secs 5, 6, 7 and 8 Rough Mountainous land; SW slope soil, gravely loam 6 to 12 ins deep in hollows no soil on ridges, but smooth sandstone. Timber scattering cedar and pinon pine Undergrowth scattering sagebrush

December 2 1911.

Scott P. Stewart
U.S. Transitman

T27S R22E.

General Description

This township contains land ranging from nearly level to rough mountainous. The soil in the extreme NE portion is a sandy loam with some gravel and of fair quality; the soil in the central portion and extending southerly is a sand and gravel loam, the land being gently rolling mesa; the remaining portion may be classed as Mountainous land, soil gravely loam; the portion of the township north of Pritchet canyon is extremely rough, consists of smooth sandstone ledges pinnacles and box canyons.

Cedar and pinon pine timber prevails throughout except, in the central portion and the extreme NE. None of which is of commercial value; the undergrowth consists chiefly of short greasewood sage brush and grass.

Water is scarce, it only being found in small quantities in bottom of Pritchet canyon, in "Pot Holes" or "tanks" and is rain or snow water; There is also a small seep in head of small canyon in sec. 34.

There are no settlers in this township although a small portion of cultivated land extends into sec 1 and 2 this being a part of Holyokes ranch to the north.

Note, It was learned that a reclamation company known as Spanish Valley Land and Water Company under the head of W.H. Jones and W.W. Taylor of Chicago Ill. are to reservoir water in Millcreek canyon and contemplate covering 7840 acres near this vicinity which is known as Poverty Flat; Salt Lake office of company is located in Kearns Bldg.

We found no trace of mineral in this Tp.

Sgt. P. Stewart
Eric H. Anderson
U.S. Transitmen

Volume
#
R0415

4—680

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities ated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "J" T.27 S., R.23 E.

the ..... Meridian, in the State of .....

ich are represented in the foregoing field notes as having been executed by him, and under his direc-
on; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
ithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2761 *U. S. Surveyor.*

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oaths of U.S. Transitmen see book "J" T.27 S., R.23 E.

..... of the .....

..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 31, 191 6

The foregoing field notes of the survey of the subdivisional lines of Township No. 27 South, Range No. 22 East, of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and Eric H. Anderson under ~~his~~ their special instructions dated September 7, 191 1, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

N. C. Thoresen
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

6—2761

4—079

BOOK A-415

II.

FIELD NOTES

OF THE SURVEY OF THE

Retracement of Colorado Guide Meridian
Township 27 South Rs 23 and 24 East

Of the Salt Lake Base and Meridian,
in the State of Utah

EXECUTED BY

Scott P. Stewart.

in the capacity of U. S. ~~Surveyor~~ under instructions dated Sept 7, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 15, which were approved by the Commissioner of the General Land
Office, September 29, 1911, pursuant to authority contained in the Act of
Congress dated , 191

Survey commenced December 7, 1911

Survey completed December 7, 1911

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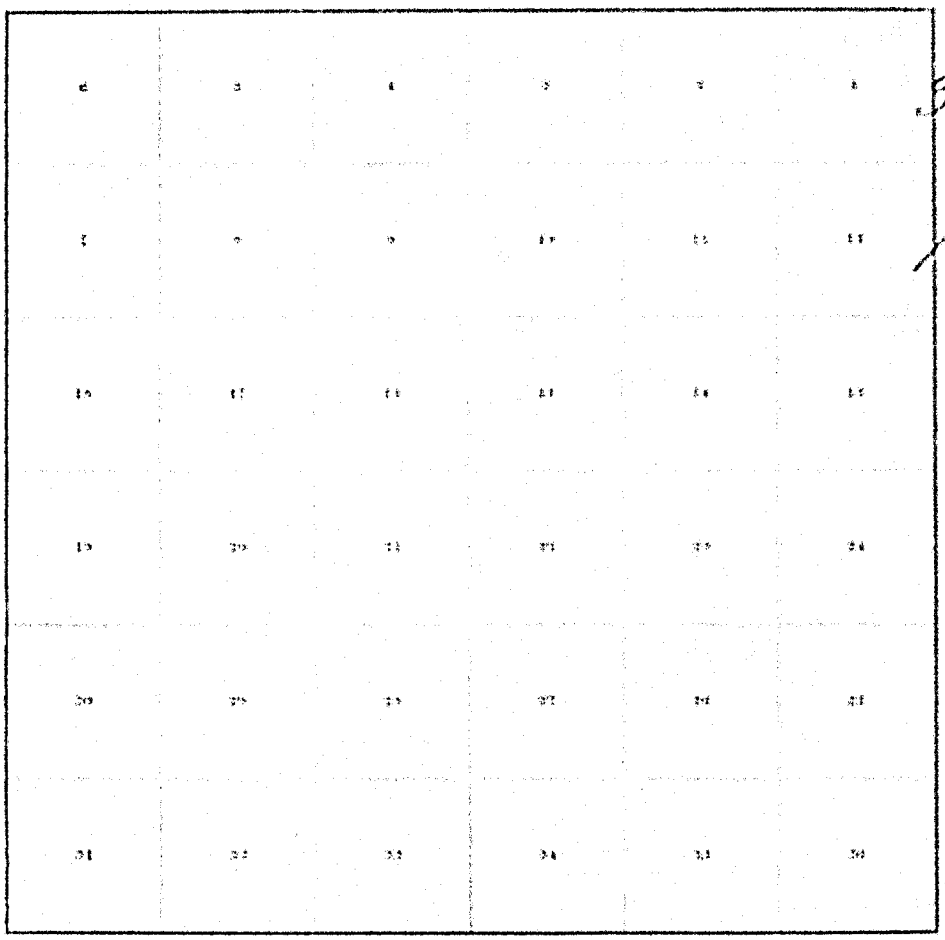
SUR. A-415

INDEX DIAGRAM.

Township 27 South, Range 23 East



Retracement of Colorado Guide Mer., T. 27 S.

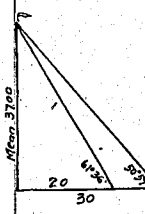
Chains	
	Survey commenced December 7, 1911, and executed with a W. and L. E. Gurley Explorer's Transit, No. 956 ; the horizontal limb being provided with two opposite verniers reading to 30" of arc.
	At cor. of secs. 7, 12, 13 and 18, T. 27 S. on the Colorado Guide Mer., heretofore described, in latitude 38°28'N., longitude 109°21'44"W., at 2h 25m a.m. l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual and mark the line thus determined by a mark on a peg set in the ground, 5 chs. N. of my station.
	At 7.30 a.m. I turn off the azimuth of Polaris, 1°29' to the east and mark the meridian thus determined by a mark on a peg set in the ground east of the mark established last night; the magnetic bearing of said true meridian is N.16°15'W., which gives the magnetic declination 16°15' East.
	Thence from said cor. I retrace
	North on the Colorado Guide Meridian, bet. secs. 7 and 12.
	Over mountainous land, through heavy cedar and pinon pine timber and service berry undergrowth.
	Descend.
2.70	Bottom of small gulch, 15 ft. below sec. cor., course N.60°W.
	Ascend.
14.00	Top of small spur, 30 ft. above gulch, bears E. and W.
	Descend.
15.70	Bottom of hollow, 20 ft. below spur, course W.
	Ascend.
28.60	Top of ridge, 40 ft. above hollow, bears E. and W.
	Descend.
33.00	Begin more abrupt descent, bears E. and W.
39.85	Fall, 6 lks. E. of ¼ sec. cor., which is a sandstone, 17x10x6 ins., set in a mound of stone, marked ¼ on W. face.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground in place of stone, for ¼ sec. cor., mkd. on brass

Retracement of Colorado Guide Mer., T. 27 S.

Chains	
	cap ¼ S 12 on W., and S 7 on E. half; from which
	A pinon pine, 6 ins. diam., bears S.80°0'E., 130 lks. dist., mkd. ¼ S 7 B T
	A pinon pine, 8 ins. diam., bears S.86°0'W., 163 lks. dist., mkd. ¼ S 12 B T
42.70	Bottom of canyon, S. fork of N. Pack Creek, 10 lks. wide, 100 ft. below ¼ sec. cor., course N.70°W.
	Ascend abruptly.
49.50	Top of spur, 150 ft. above canyon, bears E. and W.
	Descend.
56.00	N. fork of North Pack Creek in bottom of canyon, small stream, 4 lks. wide, 3 ins. deep, 150 ft. below spur, course S.70°W.
	Ascend abruptly.
72.50	Top of abrupt ascent, N. edge of canyon, 200 ft. above bottom, bears N.70°E. and S.70°W.
	Ascend gently.
80.22	Fall 12 lks. E. of cor. of secs. 1, 6, 7 and 12, which is a trachyte stone, 5x10x5 ins. above ground, marked and witnessed as described by the surveyor general; therefore this line bears N.0°5'W., 80.22 chs.
	I destroy stone and in place thereof
	Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground and surrounded by m ound of stone for cor. o secs. 1, 6, 7 and 12, mkd. on brass cap
	T 27 S in N. half,
	R 23 E S 1 in NW.,
	R 24 E S 6 in NE.,
	S 7 in SE., and
	S 12 in SW. quadrant.
	Leave old bearing trees.
Dec. 7:	At 11h 51m a.m. l.m.t., I set off 22°32'S., on the decl. arc, and observe the sun on the meridian at this cor., the resulting lat. is 38°29', very nearly.
	Mountainous land, W. slope.
	Soil, gravelly loam, 6 to 12 ins. deep, on rock or gravel

Retracement of Colorado Guide Meridian, T. 27 S.

Chains	
	subsoil, coarse texture and dry.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush and service berry.
	Retrace.
	North bet. secs. 1 and 6.
	Over mountainous land, through heavy cedar and pinon pine timber. Ascend.
14.00	Top of ridge, 60 ft. above sec. cor., bears E. and W. Descend gently.
25.50	Bottom of hollow, 25 ft. below ridge, course W. Ascend.
40.18	Fall 9 lks. E. of $\frac{1}{4}$ sec. cor., which is a sandstone, 5x10x4 ins. above ground, marked and witnessed as described by the surveyor general.
	I destroy stone and in place thereof
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 1 on W., and S 6 on E. half.
	Leave old bearing trees.
41.40	Top of ridge, 50 ft. above $\frac{1}{4}$ sec. cor., bears E. and W. Descend.
47.00	Road from Moab to Sawmill, bears E. and W.
53.00	S. rim of Millcreek Canyon, bears E. and W.
	Canyon is about 1500 ft. deep and box type, therefore it is impossible to continue chaining. I set flag on line on N. side of canyon and return to point 49.00 and measure a base E. 20 chs., from which the flag bears N.28°24'W.; from the flag the E. end of base bears S.28°24'E., therefore the dist is tan. 61°36' X base or 1.8494 X 20.00 = 36.98 chs. I continue 10 chs. farther E., making a base 30.00 chs., from which the flag bears N.39°01'W.; from the flag the E. end of base bears S.39°01'E., therefore the dist. is tan. 50°59' X base or 1.2341 X 30.00 = 37.02 chs.
	Mean result of triangulation is



Retracement of Colorado Guide Meridian, T. 27 S.

Chains	
	$\frac{36.98 + 37.02}{2}$ = 37.00 chs., which added to 49.00 makes
86.00	To point of triangulation N. of Mill Creek Canyon, there fore I run S. from this point and at 5.48 chs. fall 18 lks. E. of cor. of Tps. 26 and 27 S., Rs. 23 and 24 E. which is a sandstone, 12x8x5 ins., mkd. as described by the surveyor general; hence line bet. secs. 1 and 6 bears N.0°8'W., the length of which is 86.00 - 5.48 =
80.52	The Tp. cor.
	I destroy said stone and in place thereof
	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of Tps. 26 and 27 S., Rs. 23 and 24 E., mkd. on brass cap
	T 26 S in N., and
	T 27 S in S. half,
	R 23 E S 36 in NW.,
	R 24 E S 31 in NE.,
	S 6 R 24 E in SE., and
	S 1 R 23 E in SW. quadrant.
	The NW. bearing tree is dead and there are no bearing trees NE. and SE., I, therefore, take the following bearing trees:
	A pinon pine 8 ins. diam. bears N.68°0'W., 51 lks. dist., mkd. T 26 S R 23 E S 36 B T
	A pinon pine 8 ins. diam., bears N.29°25'E., 47 lks. dist., mkd. T 26 S R 24 E S 31 B T
	A pinon pine 8 ins. diam. bears S.69°20'E., 68 lks. dist., mkd. T 27 S R 24 E S 6 B T
	Raise a mound of stone, W. of cor., 3 ft. base, 2 ft. high
	Mountainous land, westerly slope.
	Soil, gravelly loam, 6 to 14 ins. deep on rock or gravel
	Subsoil, dry.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush.

December 7, 1911.

Scott P. Stewart

U. S. Transitman.

4—080

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities ated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "J" T.27 S., R 23 E.

the ..... Meridian, in the State of .....

hich are represented in the foregoing field notes as having been executed by him, and under his direc-on; and that said survey has been, in all respects, to the best of our knowledge and belief, well and ithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2761

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursu
of special instructions received from the U. S. Surveyor General for .....
bearing date of the ..... day of ....., 191 , I have well, faithfully, and tr
in my own proper person, and in strict conformity with said instructions, the Manual of Survey
Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of Transitman see book "J" T.27 S., R.23 E.

..... of the .....
..... Meridian, in the State of ....., which are represente
the foregoing field notes as having been executed by me, and under my direction; and I do fur
solemnly swear that all the corners of said survey have been established and perpetuated in strict acc
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surv
General for ..... and in the specific manner described in the field notes, and
the foregoing are the original field notes of such survey.

.....
U. S. Surveyo

Subscribed by said ....., and sworn to before me
this ..... day of ....., 191

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov.12, ..., 191

The foregoing field notes of the ~~XXXXXXX~~ retracement of the Colorado Guide
Meridian, Township No.27 South, between Ranges Nos.23 and 24 East,
of the Salt Lake Base and Meridian, Utah,

executed by Scott P.Stewart
under his special instructions dated September 7, 191 1, having b
critically examined, and the necessary corrections and explanations made, the said field notes, and
~~survey~~ retracements they describe, are hereby approved.

U. S. Surveyor Gener

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 offic

.....
U. S. Surveyor Genera

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.I.F.

Filed: Apr. 5, 1912.
March 4, 1916.

4—679

BOOK A-415

I.

H.E.W.

FIELD NOTES

OF THE SURVEY OF THE

NORTH AND SOUTH BOUNDARIES

O F

TOWNSHIP NO. 27 SOUTH, RANGE NO. 23 EAST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

SCOTT P. STEWART, ERIC H. ANDERSON, AND THOS. C. RATHBONE

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* Sept. 7, *1911*, and supplemental special instructions dated Sept. 9, 1915 *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *1911* and Sept. 18, 1915, respectively. *pursuant to authority contained in the Act of Congress dated* ....., *191*...

Survey commenced December 6, *1911*

Survey completed December 8, *1915.*

6—151

Pub. A.F.T. Coly 1-38-07
Sur. N.I.S. 5-40-11

BOOK A-415

INDEX DIAGRAM.

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South Boundary of T. 27 S., R. 23 E.

Chains	
	Survey commenced Dec. 6, 1911, and executed with the instrument described in book "J" of this survey.
	From the cor. of secs. 2, 3, 34 and 35, on S. bdy. of Tp. which is a sandstone, 6x12x6 ins. above ground, marked and witnessed as described by the surveyor general. I retrace
	West bet. secs. 3 and 34.
	Over mountainous land, through heavy cedar and pinon pine timber and scattering sage brush.
	Descend gently.
1.30	Wash, 5 lks. wide, 1 ft. deep in bottom of hollow, 15 ft. below sec. cor., course SW.
	Ascend.
6.00	Top of ridge, 30 ft. above wash, bears NE. and SW.
	Descend.
15.20	Bottom of gulch, 60 ft. below ridge, course SW.
	Ascend.
19.00	Point of small ledge, spur 20 ft. above gulch, bears NE. and SW.
	Descend.
28.00	Begin abrupt descent over broken ledges, bears N. and S.
40.25	Fall 13 lks. N. of ¼ sec. cor., which is a sandstone, 6x9x5 ins. above ground, marked and witnessed as described by the surveyor general.
	Note: This being the terminal of the old survey, this line bears S.89°49'W.
	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground and surrounded by mound of stone, in place of stone, for ¼ sec. cor. bet. secs. 3 and 34, mkd. on brass cap ¼ S 34 in N., and S 3 on S. half.
	Leave old bearing trees.
	Mountainous land, W. slope.
	Soil, gravelly loam, 6 to 12 ins. deep on rock and gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sage brush.
	December 6, 1911.

South Boundary of T. 27 S., R. 23 E.

Chains	
	December 7: At 8h 51m a.m. l.m.t., I set off 38°25' on the lat. arc; 22°31'S., on the decl. arc, and determine a meridian with the solar at the ¼ sec. cor.
	Thence I run
	West on a random line, bet. secs. 3 and 34.
40.00	Set temp. cor. of secs. 3, 4, 33 and 34.
	West on a random line bet. secs. 4 and 33.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. cor. of secs. 4, 5, 32 and 33.
	Dec. 7: At 11h 51m a.m. l.m.t., I set off 22°32'S. on the decl. arc, and observe the sun on the meridian at t point; the resulting lat. is 38°25'.
	Thence I run
	West on a random line bet. secs. 5 and 32.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. cor. of secs. 5, 6, 31 and 32.
	West on a random line bet. secs. 6 and 31.
40.00	Set temp. ¼ sec. cor.
79.70	Fall 2 lks. S. of cor. of Tps. 27 and 28 S., Rs. 22 and 23 E., heretofore described.
	December 7, 1911.

	December 8: At 8h 52m a.m. l.m.t., I set off 38°25' on the lat. arc; 22°37'S., on the decl. arc, and determine a meridian with the solar at cor. of Tps. 27 and 28 S., Rs. 22 and 23 E., [illegible].
	Thence I run
	East on a true line bet. secs. 6 and 31.
	Over mountainous land, through cedar and pinon pine timber and scattering greasewood and grass.
	Descend gently.
2.70	Wash, 10 lks. wide, 1 ft. deep, course N.
	Ascend gently.
6.70	Point of ledge, S. of line, bears N. and S.
	Descend gently.

South Boundary of T. 27 S., R. 23 E.

Chains		
7.90	Wash, 10 lks. wide, 2 ft. deep in bottom of hollow, course N. Ascend over ledges.	
10.50	Top of ledge, 150 ft. above wash, bears N. and S. Ascend gently.	
31.60	Top of ridge, 100 ft. above top of ledge, bears N. and S. Descend gently.	
33.70	Edge of canyon, begin abrupt descent over ledges, bears N. and S.	
39.70	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and surrounded by mound of stone for ¼ sec.cor. bet. secs. 6 and 31 mkd. on brass cap ¼ S 31 on N., and S 6 on S. half, from which A cedar, 8 ins. diam., bears N.39°30'E., 15 lks. dist., mkd. ¼ S 31 B T A cedar, 12 ins. diam., bears S.3°0'W., 10 lks. dist., mkd. ¼ S 6 B T This corner refers to section 6 only. Point 75 ft. below edge of canyon.	See corrective notes page 15 this boo
44.60	Bottom of canyon, 275 ft. below ¼ sec. cor., course N. Ascend abruptly over ledges.	
48.00	East edge of canyon, 300 ft. above bottom, bears N. and S. Descend gently.	
63.75	Bottom of hollow, 40 ft. below edge of canyon, course N. Ascend gently.	
66.00	Top of small ridge, 15 ft. above hollow, bears N. and S. Descend.	
70.80	Bottom of hollow, 30 ft. below ridge, course N. Ascend.	
74.90	Top of ridge, 25 ft. above hollow, bears N. and S. Descend gently.	
79.70	Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs. 5, 6, 31 and 32, marked on brass cap T 27 S R 23 E in N. half, T 28 S R 23 E in S. half S 31 in NW.,	

South Boundary of T. 27 S., R. 23 E.

Chains	
	S 32 in NE.,
	S 5 in SE. and
	S 6 in SW., quadrant, from which
	A pinon pine, 10 ins. diam., bears S.84°10'E., 122 lks. dist., mkd. T 28 S R 23 E S 5 B T
	A cedar, 5 ins. diam., bears S.67°50'W., 18 lks. dist., mkd. T 28 S R 23 E S 6 B T
	Dec. 8: At 11h 52m a.m. l.m.t., I set off 22°30'S. on the decl. arc; and observe the sun on the meridian at this cor., the resulting lat. is 38°25'.
	Mountainous land, N. slope.
	Soil, gravelly loam, 6 to 12 ins. deep on rock and gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering greasewood and grass.
	East on a true line bet. secs. 5 and 32.
	Over mountainous land, through cedar and pinon pine timber scattering greasewood and sage brush.
	Descend.
5.00	Wash, 5 lks. wide, 1 ft. deep, course N.
	Ascend gently.
10.00	Top of ridge, 20 ft. above wash, bears N. and S.
	Descend.
17.00	Bottom of hollow, 25 ft. below ridge, course N.
	Ascend.
21.00	Top of ridge, 20 ft. above hollow, bears N. and S.
	Descend.
24.00	Bottom of hollow, 30 ft. below ridge, course N.
	Ascend.
26.50	Top of small ridge, 30 ft. above hollow, bears N. and S.
	Descend.
33.00	Bottom of hollow, 40 ft. below ridge, course N.
	Ascend.
36.50	W. edge of ravine, 35 ft. above hollow, bears N. and S.

South Boundary of T. 27 S., R. 23 E.

Chains		
	Descend.	See corrective notes page 16.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. bet. secs. 5 and 32, mkd. on brass cap ¼ S 32 on N., and S 5 on S. half, from which	
	A pinon pine, 6 ins. diam., bears N.23°20'E., 36 lks. dist., mkd. ¼ S 32 B T	
	A pinon pine, 6 ins. diam., bears S.33°14'E., 48 lks. dist., mkd. ¼ S 5 B T	
45.00	Bottom of ravine, 50 ft. below edge, course N.	
	Ascend.	
52.70	Top of ridge, 60 ft. above ravine, bears N. and S.	
	Descend.	
73.30	Wash, 15 lks. wide, 1 ft. deep in bottom of hollow, course N.20°W.	
	Ascend gently.	
76.00	Top of small ascent, bears NW. and SE.	
	Descend gently.	
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs. 4, 5, 32 and 33, mkd. on brass cap	
	T 27 S R 23 E in N.,	
	T 28 S R 23 E in S. half,	
	S 32 in NW.,	
	S 33 in NE.,	
	S 4 in SE. and	
	S 5 in SW., quadrant, from which	
	A pinon pine, 12 ins. diam., bears S.50°20'W., 86 lks. dist., mkd. T 28 S R 23 E S 5 B T	
	A cedar, 12 ins. diam., bears S.75°0'E., 43 lks. dist., mkd. T 28 S R 23 E S 4 B T	
	No other bearing trees within limits, raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.	
	Mountainous land, N. slope.	
	Soil, gravelly loam, 6 to 12 ins. deep on rock or gravel	

South Boundary of T. 27 S., R. 23 E.

Chains	
	subsoil, dry.
	Timber, cedar and pinon pine.
	Undergrowth, scattering greasewood, sage brush and some grass.
	December 8, 1911.
	December 9: At 8h 52m a.m. l.m.t., I set off 38°25' on the lat. arc; 22°44'S. on the decl. arc, and determine a meridian with the solar at cor. of secs. 4, 5, 32 and 33 on S. bdy. of Tp.
	Thence I run
	East on a true line bet. secs. 4 and 33.
	Over rolling mountainous land, through cedar and pinon pine timber and scattering sage brush.
	Ascend.
2.00	Top of small ledge, ridge 25 ft. above sec. cor., bears N. and S.
	Descend.
17.00	Bottom of small canyon, 100 ft. below ridge, course N.35°W
	Ascend.
25.00	Top of small spur, 60 ft. above canyon, bears NW. and SE.
	Descend.
30.00	Bottom of hollow, 20 ft. below spur, course NW.
	Ascend.
35.20	Top of ridge, 40 ft. above hollow, bears N.30°W. and S.30°E.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and surrounded by mound of stone for ¼ sec. cor. bet. secs. 4 and 33, mkd. on brass cap ¼ S 33 on N., and S 4 on S. half, from which
	A pinon pine, 8 ins. diam., bears N.6°20'W., 25 lks. dist., mkd. ¼ S 33 B T
	A pinon pine, 6 ins. diam., bears S.5°15'E., 15 lks. dist., mkd. ¼ S 4 B T

South Boundary of T. 27 S., R. 23 E.

Chains	
42.40	Bottom of small canyon, 50 ft. below ¼ sec. cor., course NW.
	Ascend abruptly over small broken ledges.
55.00	Top of abrupt ascent, E. edge of canyon, 70 ft. above bottom, bears NW. and SE.
	Ascend gently.
74.00	Top of ridge, 50 ft. above edge of canyon, bears N.30°W. and S.30°E.
	December 9: At 11h 52m a.m. l.m.t., I set off 22°46'S., on the decl. arc; and observe the sun on the meridian at this point, the resulting lat. is 38°25' very nearly.
	Descend.
80.00	Point falls on smooth rock in place mkd. by cross (X) cut in rock, cor. not set; therefore at
80.19	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground on solid rock and raise a mound of stone around post, for witness cor. to cor. of secs. 3, 4, 33 and 34, mkd. on brass cap
	T 27 S R 23 E in N.,
	W C in W.,
	T 28 S R 23 E in S. half,
	S 33 in NW.,
	S 34 in NE.,
	S 3 in SE, and
	S 4 in SW., quadrant, from which
	A pinon pine, 10 ins. diam., bears N.45°15'E., 6 lks. dist., mkd. W C T 27 S R 23 E S 34 B T
	A pinon pine, 6 ins. diam., bears S.17°45'E., 24 lks. dist., mkd. W C T 28 S R 23 E S 3 B T
	A pinon pine, 7 ins. diam., bears S.44°0'W., 70 lks. dist., mkd. W C T 28 S R 23 E S 4 B T
	A pinon pine, 12 ins. diam., bears N.38°15'W., 47 lks. dist., mkd. W C T 27 S R 23 E S 33 B T.
	Rolling mountainous land, northerly slope.
	Soil, gravelly loam, 6 to 12 ins. deep, on rock and gravel subsoil, dry.

South Boundary of T. 27 S., R. 23 E.

Chains	
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sage brush and some grass.
	East on a true line bet. secs. 3 and 34.
	Over rolling mountainous land, through cedar and pinon pine timber and scattering sage brush,
	Descend gently.
26.75	Sandstone rock in place 30x10x10 ft., bears N. and S. on top of small ridge which bears N. and S.
	Descend gently.
39.85	Wash, 15 lks. wide, 2 ft. deep in bottom of hollow, 30 ft. below ridge, course S.75°W.
	Ascend.
40.00	The ¼ sec. cor. bet. secs. 3 and 34.
	Rolling mountainous land, westerly slope.
	Soil, gravelly loam, 6 to 12 ins. deep on rock and gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	December 9, 1911.
	Eric H. Anderson
	U. S. Transitman.
	North Boundary of T. 27 S., R. 23 E.
	December 8: At 8h 52m a.m. l.m.t., I set off 38°30' on the lat. arc; 22°37'S. on the decl. arc, and determine a meridian with the solar at cor. of Tps. 26 and 27 S., Rs. 23 and 24 E., heretofore described; thence I run
	West on a random line on N. bdy. of Tp. bet. secs. 1 and 36.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. cor. of secs. 1, 2, 35 and 36.
	December 8: At 11h 52m a.m. l.m.t., I set off 22°39'S. on the decl. arc, and observe the sun on the meridian at this point, the resulting lat. is 38°30' very nearly.

North Boundary of T. 27 S., R. 23 E.

Chains	
	Thence I run
	West on a random line bet. secs. 2 and 35.
40.00	Set temp. ¼ sec. cor.
80.44	Intersect old cor. of secs. 2, 3, 34 and 35, which is a sandstone 15x12x3 ins. above ground, marked and witnessed as described by the surveyor general. I destroy stone and
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground in place of stone for cor. of secs. 2, 3, 34 and 35, mkd. on brass cap
	T 26 S R 23 E in N., and T 27 S R 23 E in S. half
	S 34 in NW.,
	S 35 in NE.,
	S 2 in SE., and
	S 3 in SW. quadrant,
	I take bearings to old bearing trees as follows:
	A pinon pine, 16 ins. diam., bears N.74°30'E., 177 lks. dist., mkd. T 26 S R 23 E S 35 B T
	A pinon pine, 14 ins. diam., bears S.71°0'E., 210 lks. dist., mkd. T 27 S R 23 E S 2 B T
	A cedar, 24 ins. diam., bears S.88°30'W., 182 lks. dist., mkd. T 27 S R 23 E S 3 B T
	A pinon pine, 12 ins. diam., bears N.60°20'W., 209 lks. dist., mkd. T 26 S R 23 E S 34 B T
	December 8, 1911.

December 9: At 8h 52m a.m. l.m.t., I set off 38°30' on the lat. arc, 22°44'S. on the decl. arc, and determine a meridian with the solar at cor. of secs. 2, 3, 34 and 35.

Thence I run

East on a true line bet. secs. 2 and 35.

Over mountainous land, through heavy cedar and pinon pine timber, scattering sage brush undergrowth.

Descend gently.

North Boundary of T. 27 S., R. 23 E.

Chains	
37.60	Edge of rolling mountain mesa and North rim of Mill Creek Canyon.
	Top of ledge, 300 ft. high and vertical, is 15 lks. east and very steep talus below where cor. would not likely stand, therefore, at this point (37.60)
	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and surrounded by mound of sto for witness cor. to ¼ sec. cor. bet. secs. 2 and 35, mkd. on brass cap, T 26 S R 23 E ¼ S 35 on N., W C on E., and S 2 T 27 S R 23 E on S. half, from which
	A pinon pine, 4 ins. diam., bears N.49°15'W., 41 lks. dist., mkd. W C ¼ S 35 B T
	A pinon pine, 4 ins. diam., bears S.85°15'W.,129 lks. dist., mkd. W C ¼ S 2 B T
	Note: From this cor. a prominent peak of La Sal Mountai bears S.56°52'E., about 5 miles away.
38.00	Foot of nearly vertical ledge, 300 ft. below top, bears N.80°E. and S.80°W.
	Descend over steep talus slope.
40.11	Point for ¼ sec. cor. bet. secs. 2 and 35 falls on surfa subject to rock slide, very steep. Cor. not set.
46.00	Bottom of hollow, course S.
	Ascend.
60.00	Top of spur, 50 ft. above hollow, bears N. and S.
	Descend.
70.00	Bottom of hollow, 65 ft. below spur, course S.
	Ascend.
79.50	Top of small ledge, spur 40 ft. above hollow, bears N. and S.
	Descend gently.
80.22	Set an iron post, 3 ft. long, 3 ins. in dia, 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, mkd. on brass cap
	T 26 S R 23 E in N., and
	T 27 S R 23 E in S. half,
	S 35 in NW.,

North Boundary of T. 27 S., R. 23 E.

Chains	
	S 36 in NE.,
	S 1 in SE., and
	S 2 in SW. quadrant, from which
	A pinon pine, 7 ins. diam., bears N.52°50'E., 26 lks. dist., mkd. T 26 S R 23 E S 36 B T
	A pinon pine, 6 ins. diam., bears S.75°20'E., 50 lks. dist., mkd. T 27 S R 23 E S 1 B T
	A pinon pine, 6 ins. diam., bears S.4°45'W., 120 lks. dist., mkd. T 27 S R 23 E S 2 B T
	A cedar, 16 ins. diam., bears N.56°52'W., 28 lks. dist., mkd. T 26 S R 23 E S 35 B T
	Note: A prominent peak of La Sal Mountains, bears S.67°55'E Another peak, bears S.73°40'E.
	Mountainous land, southerly aspect.
	Soil, gravelly loam, 6 to 18 ins. deep on rock or gravel subsoil, coarse texture and dry.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sage brush.
	December 9: At 11h 52m. a.m. l.m.t., I set off 22°46'S., on the decl. arc, and observe the sun on the meridian at this cor., the resulting lat. is 38°30' which is very nearly the proper lat.
	East on a true line bet. secs. 1 and 36.
	Over mountainous land, through cedar and pinon pine timber.
	Ascend.
20.00	Top of spur, 50 ft. above sec. cor., bears N. and S.
	Descend.
35.00	Bottom of hollow, 90 ft. below spur, course S.
	Ascend.
40.11	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins in the ground on solid rock and surrounded by mound of stone for ¼ sec. cor. bet. secs. 1 and 36, mkd. on brass cap ¼ S 36 on N., and S 1 on S. half, from which
	A pinon pine, 8 ins. diam., bears N.28°08'W., 26

North Boundary of T. 27 S., R. 23 E.

Chains	
	lks. dist., mkd. ¼ S 36 B T
	A cedar, 7 ins. diam., bears S.12°25'W., 45
	lks. dist., mkd. ¼ S 1 B T
42.00	Top of spur, 25 ft. above ¼ sec. cor., bears N. and S.
	Descend.
44.00	Bottom of hollow, 90 ft. below spur, course S.
	Ascend.
55.00	Foot of nearly vertical ledge, 300 ft. high, bears N.80°W. and S.80°E.
56.10	Top of ledge, N. rim of Mill Creek Canyon, bears N.75°W. and S.75°E.
	Ascend gently near rim of canyon.
72.20	West edge of break from main ledge which extends about 50 lks. N. of line, and 1.50 chs. wide, 200 ft. deep.
80.22	The cor. of Tps. 26 and 27 S., Rs. 23 and 24 E.
	Note: N. rim of Mill Creek Canyon is 1 ch. S. of this cor., and the canyon is about 1500 ft. deep at this point
	Mountainous land, S. slope.
	Soil, gravelly loam, 6 to 12 ins. deep, on rock or gravel subsoil, coarse texture and very dry.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sage brush.
	December 9, 1911.
	December 16: Note: Lat. observation was taken on line b secs. 5 and 8 and having finished line bet. secs. 5 and 6, 1 retrace
	West from cor. of secs. 5, 6, 31 and 32.
	Over rolling mountainous land.
	Descend over ledges.
7.00	Foot of ledges, bears N. and S.
10.30	Bottom of hollow, 400 ft. below sec. cor., course SW. Asce
25.00	Top of ridge, 40 ft. above hollow, bears NE. and SW. Desc
37.00	Bottom of hollow, 50 ft. below, course SW.

North Boundary of T. 27 S., R. 23 E.

Chains	
	Ascend.
39.96	Intersect ¼ sec. cor. , a sandstone, 16x9x4 ins., mkd. and witnessed as described by the surveyor general. Stone is loose
	I, therefore, reset stone firmly, 11 ins. in the ground, from which
	A cedar, 12 ins. diam., bears N.70°15'E., 420 lks. dist., mkd. ¼ S 31 B T
	A cedar, 7 ins. diam., bears S.5°30'E., 311 lks. dist., mkd. ¼ S 6 B T
45.60	Bottom of hollow, 30 ft. below, bears S.20°W.
	Ascend gently.
47.50	Top of ridge, 30 ft. above hollow, bears N. and S.
	Descend gently.
49.30	Bottom of hollow, 20 ft. below ridge, course S.
	Ascend gently.
58.00	Top of ridge, 50 ft. above hollow, bears N. and S.
67.70	Wash, 100 lks. wide, 6 ft. deep, in hollow, course N.30°W.
	Ascend gently.
77.82	Intersect cor. of Tps. 26 and 27 S., Rs. 22 and 23 E., heretofore described.
	The course of this line is therefore west 77.82 chs.
	Rolling mountainous land, westerly slope.
	Soil, sand and gravel loam, 6 to 24 ins deep, on rock or gravel subsoil, dry.
	Timber, scattering cedar and pinon pine, 40. chs.
	Undergrowth, scattering artemisia brush.
	December 16, 1911.
	Geo. W. Stewart
	U. S. Transitman.

For general description see notes of the subdivision of this township.

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Filed March 4, 1916.

Corrections in T.27 S., R.23 E.

Survey commenced December 8, 1915, and executed with a Young and Son's transit, No, 7192, equipped with a Smith solar attachment.

Note.- For description and test of instrument, see book of subdivisions of T.29 S.,R.24 E. From the recent test of instrument I am assured that it is now in satisfactory adjustment.

A five chain steel tape, and clinometer were used in making all measurements.

Instruments were approved by the Ass't. Supervisor of Surveys for this District.

Dec. 8: At $9^h 00^m$ a.m., l.a.t., I set off 38°25' on the lat. arc, 22°37'S. on the decl. arc, and determine a meridian with the solar at the ¼ sec. cor. erroneously set for secs. 6 and 31, on the S. bdy. of the Tp., which is an iron post, 1 in. dia., firmly set 12 ins. above ground, with brass cap marked

See S.bdy. page 3.

S 31
¼
———
S 6
1911

from which

A cedar, 12 ins. dia., bears S. 3°W., 10 lks. dist., mkd. ¼ S 6 BT

A cedar, 10 ins. dia., bears N.40°E., 15 lks. dist., mkd. ¼ S 31 BT.

I destroy all mks. of the cor. pertaining to sec. 31, the cor. remaining as the ¼ sec. cor. on N. bdy. sec. 6.

Thence I run

West, on true line, bet. secs. 6 and 31

0.99 Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground, and 14 ins. in a mound of stone 2 ft. base, for ¼ sec. cor. on south bdy. sec. 31, with brass cap marked

S 31
¼
———
1915

	Chains	
		from which
		A cedar, 10 ins. dia., bears N.83°40'E., 114 lks. dist., mkd. ¼ S 31 BT.
		This cor. stands on steep ledgy N. side of canyon, 45 ft. above the ¼ sec. cor. for sec. 6.
		From the old ¼ sec. cor. erroneously set as the ¼ sec. cor. bet. secs. 5 and 32, which is an iron post, 1 in. dia., 10 ins. above ground, firmly set, with brass cap mkd.
		S¼32 / S 5 / 1911
See S.bdy. page 5.		from which
		A pinon, 6 ins. dia., bears N.23°E., 36 lks. dist., mkd. ¼ S 32 BT
		A pinon, 6 ins. dia., bears S.33°14'E., 48 lks. dist., mkd. ¼ S 5 BT
		Note. I destroy all marks of the cor. pertaining to sec. 32. Cor. remains as the ¼ sec. cor. on N. bdy. sec. 5.
		I run
		West, on true line, bet. secs. 5 and 32
	0.92½	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor. on the S. bdy. of sec. 32, with brass cap marked
		S 32 ¼ / 1915
		from which
		A cedar 6 ins. dia., bears N.27°W., 41 lks. dist., mkd. ¼ S 32 BT.
		Cor. stands on E. slope, 20 ft. above the old ¼ sec. cor.

Dec. 8, 1915.

U.S. Transitman.

4—680

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants for Scott P.Stewart and Eric H.Anderson, U.S.Transitmen, see book "J" T.27 S., R.23 E.

For certificate of assistants for Thos.C.Rathbone, U.S.Transitman, see book "M" T. 26 S., R.22 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2761 *U. S. Surveyor.*

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuanc of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveyin Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oaths of Scott P.Stewart and Eric H.Anderson, U.S.Transitme see book "J" T.27 S., R.23 E.

For final oath of Thos.C.Rathbone, U.S.Transitman, see book "M" T.26 S. R.22 E. ..... of the ..... Meridian, in the State of ....., which are represented i the foregoing field notes as having been executed by me, and under my direction; and I do furthe solemnly swear that all the corners of said survey have been established and perpetuated in strict accord ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo General for ..... and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 31, 1916.

The foregoing field notes of the survey of the north and south boundaries of Township No. 27 South, Range No. 23 East, of the Salt Lake Base and meridian, Utah,

executed by Scott P.Stewart and Eric H.Anderson and Thos.C.Rathbo under ~~his~~ special instructions dated Sept. special instructions dated September 7,1911 and supplemental, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th surveys they describe, are hereby approved.

.....
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

6—2761

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Filed: April 5, 1912.
March 4, 1916.

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4—679

J.

H.E.W. BOOK A-415

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 27 SOUTH, RANGE NO. 23 EAST,

Of the SALT LAKE BASE AND *Meridian,*

in the State of UTAH

EXECUTED BY

SCOTT P.STEWART, ERIC H.ANDERSON, AND THOMAS C.RATHBONE,

Transitmen

in the capacity of U. S. ~~*Surveyor*~~, *under instructions dated* Sept.7, *191*1,
and supplemental special instructions dated September 9, 1915,
issued by the United States Surveyor General to govern surveys included in

Group No. 15, *which were approved by the Commissioner of the General Land*
and September 18, 1915, respectively
Office, September 19, *191*1, *pursuant to authority contained in the Act of*

Congress dated ....., *191*....

Survey commenced December 4, *191*1

Survey completed December 8 *191*5.

6—151

15-45-77
16-40-24

BOOK A-415

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SUBDIVISION OF T.27 S., R.23 E.

Survey commenced December 4, 1911, and executed with a K.&.E.transit, No.20036, with Smith Solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 30" of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, Oct.16, 1911.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.and p.m.hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor.of secs.25,30,31 and 36 on W.bdy.of Tp., heretofore described; lat.38° 26' N.; longitude 109°28' 21" W. I set off 38° 26' on the lat.arc; 22°10'S.on the decl.arc; and at 2h 50m p.m.l.m.t., determine with the solar a meridian, and mark a point thereof on a stake driven in the ground 5 chs.N.of my station.

December 4, 1911.

December 5: At 2h 33m a.m.l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a stone firmly set in the ground 5 chs.N.of my station.

At 8 a.m.l.m.t. I lay off the azimuth of Polaris 1° 29' to the east, and mark the meridian thus determined by a mark on the peg set Dec.4, on which the meridian falls 0.2 ins.west of the mark determined by the solar.

At 8h 50m a.m.l.m.t., I set off 38° 26' on the lat.arc; 22° 16'S.on the decl.arc; and mark a point in the me-

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	ridian determined with the solar, by a mark on the stake already set 5 chs.N.of my station; this mark falls 0.5 ins.west of the meridian established by the Polaris observation.
	The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0' 10" east and 0' 26" west of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h 15m a.m. is N.16° 15'W.; the angle thus determined gives the mag. decl.16° 15'E.
	From said cor.of secs.25,30,31, and 36, I retrace East bet.secs.30 and 31,
	Over rolling mountainous land; through scattering cedar and pinon pine timber and sagebrush undergrowth.
1.00	Leave timber, bears NE. and S.
5.00	Bottom of swale 10 ft.below sec.cor., course S.
	Ascend.
10.50	Enter timber, bears NW. and SE.
15.00	Top of small spur, 15 ft.above swale, bears N.and S.
	Descend gently.
18.00	Leave timber; enter short greasewood bearing NE. and SW.
24.40	Wash, 10 lks.wide, 4 ft.deep, course SW.
	Ascend gently.
27.00	Road from Moab to Monticello bears NE. and SW.
29.40	Road, Moab to Monticello bears NE. and SW. This road also well traveled and joins the other road some distance each side of the line.
37.00	Leave small valley; begin abrupt ascent, over broken sandstone ledges bearing N.30° E. and S.30° W.
38.32	Fall 3 lks.N.of the ¼ sec.cor., which is a sandstone 5 x 10 x 4 ins.above ground, mkd.and witnessed as described

Chains.

by the surveyor general. In place of stone I

Set an iron post 3 ft.long, 1 in.in dia., 14 ins.in the ground, on solid rock, and surrounded by mound of stone, for ¼ sec.cor., mkd.on brass cap ¼ S 30 on N.half and S 31 on S.half.

Leave same bearing trees.

38.50 Top of broken ledges, 40 ft.above ¼ sec.cor. bears N.30° E. and S.30° W.

Ascend gently through timber.

49.00 Top of ridge, 80 ft.above ledges, bears N.and S.

Descend gently.

53.00 Leave timber; enter short greasewood and grass, bears N. and S.

60.70 Bottom of hollow, 75 ft.below ridge, course S.30° W.

Ascend.

78.48 Fall 5 lks.N.of the cor.of secs.29,30,31 and 32, which is a sandstone 19 x 10 x 8 ins.in mound of stone, marked and witnessed as described by the surveyor general.

The course of this line is therefore S.89°58'E.78.48 chs.

In place of stone I set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.29,30,31 and 32, marked on brass cap

T 27 S S 30 in NW.

R 23 E S 29 in NE.

S 32 in SE.; and

S 31 in SW.quadrant; from which

A lone cedar 6 ins.diam.bears N.87° 0'W.115 lks. dist., mkd.T 27 S R 23 E S 30 B T

No other bearing trees available; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Land, rolling, mountainous; S slope.

Soil, sand and gravelly loam 6 to 24 ins.deep, on rock and gravel subsoil.

Timber, scattering cedar and pinon pine 50.00 chs.

Undergrowth, sagebrush,greasewood and some grass.

	Chains.	
		East, retracing bet.secs.29 and 32,
		Over rolling mountainous land; through short greasewood and grass; ascend.
	5.00	Top of small ridge, 35 ft.above sec.cor., bears N.60° E. and S.60° W.
		Dec.5: At this point at 11h 50m a.m.l.m.t., I set off 22° 17'S.on the decl.arc; and observe the sun on the meridian; the resulting lat.is 38° 26' very nearly.
		Descend.
	7.00	Bottom of small hollow, 20 ft.below ridge, course SW.
		Enter timber bearing NE. and SW.
		Ascend.
	11.40	Top of ridge, 30 ft.above hollow, bears N.30° E. and S. 30° W. Descend.
	20.00	Bottom of hollow, 50 ft.below ridge, course SW.
		Ascend.
	29.00	Top of ridge, 60 ft.above hollow, bears N.and S.
		Descend abruptly.
	39.00	Bottom of hollow, 150 ft.below ridge, course N.
		Ascend.
For corrective notes see page 53 this book.	40.12	Fall 4 lks.N.of ¼ sec.cor., which is a sandstone 19 x 11 x 7 ins. set in a mound of stone, marked and witnessed as described by the surveyor general.
		Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, in place of stone, for ¼ sec.cor., marked on brass cap ¼ S 29 on N.half and S 32 on S.half.
		The NE.bearing tree having been cut down, I take a new bearing tree, which is
		A cedar 12 ins.diam.bears N.70°44'E.78 lks.dist. marked ¼ S 29 B T
	41.30	Telephone line from Moab to Cane Spring, bears N.and S.
	42.20	Top of ridge, 90 ft.above hollow, bears NE. and SW.
		Descend abruptly.
	47.00	Bottom of gulch, 60 ft.below ridge, course SW.
		Ascend gently.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
65.00	Wash, 40 lks.wide, 2 ft.deep, course S.
	Ascend.
80.40	Fall 8 lks.N.of cor.of secs.28,29,32 and 33, which is a sandstone 4 x 8 x 9 ins.above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore S.89°57'E.80.40 chs.In place of stone
	Set an iron post 3 ft.long, 2 ins.in dia., 12 ins.in the ground and surrounded by mound of stone, for cor.of secs.28,29,32, and 33, marked on brass cap :
	T 27 S S 29 in NW.
	R 23 E S 28 in NE.
	S 33 in SE., and
	S 32 in SW quadrants.
	Note: I find the NE. and NW.bearing trees dead;therefore I replace them with the following;
	A pinon pine, 6 ins.dia.bears N.18° 0'E.84 lks. dist.mkd.T 27 S R 23 E S 28 B T
	A pinon pine, 6 ins.diam., bears N.66° 0'W.80 lks.dist. mkd.T 27 S R 23 E S 29 B T
	Land, rolling, mountainous; S.slope.
	Soil, gravelly loam 6 to 12 ins.deep, on rock and gravel subsoil.
	Timber, cedar and pinon pine 73.00 chs.
	Undergrowth, short greasewood, sagebrush, and some grass.
	East, retracing bet.secs.28 and 33,
	Over rolling mountainous land; through heavy cedar and pinon pine and short greasewood, mountain rush and grass undergrowth. Ascend gently.
5.00	Top of spur, 20 ft.above sec.cor., bears N.and S.
	Descend gently.
6.00	Begin abrupt descent over ledges bearing N.30° W. and S. 30° E.
7.90	Bottom of small canyon, 90 ft.below, course NW.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	Ascend abruptly.
12.00	Top of abrupt ascent; edge of canyon, 60 ft.above bottom, bears NW. and SE.
	Ascend gently.
29.00	Top of ridge, 50 ft.above edge of canyon, bears N.70° W. and S.20° E.
	Descend abruptly.
35.50	Wash in bottom of hollow, 30 lks.wide, 3 ft.deep, 75 ft. below ridge, course S.40° W.
	Ascend gently.
40.27	Fall 3 lks.S.of $\frac{1}{4}$ sec.cor., which is a sandstone 4 x 10 x 5 ins.above ground, marked and witnessed as described by the surveyor general. In place of stone I
	Set an iron post 3 ft.long, 1 in.dia., 18 ins.in the ground, on solid rock, and surrounded by mound of stone for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 28 on N.half, and S 33 on S.half.
	Leave same bearing trees.
70.00	Top of small spur, 70 ft.above $\frac{1}{4}$ sec.cor., bears NW. and SE. Descend gently.
74.00	Bottom of hollow, 30 ft.below spur, course S.
	Ascend.
80.30	Fall 6 lks.S of cor.of secs.27,28,33, and 34, which is a sandstone 5 x 10 x 7 ins.above ground, marked and witnessed as described by the surveyor general. In place of stone I
	Set an iron post 3 ft.long, 2 ins.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone for cor.of secs.27,28,33, and 34, marked on brass cap T 27 S S 28 in NW. R 23 E S 27 in NE. S 34 in SE.; and S 33 in SW quadrants; Leave same bearing trees.
	The course of this line is N.89°58'E.80.30 chs.
	Land, rolling mountainous; S.slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock and gravel

SUBDIVISION OF T. 27 S., R. 23 E.

Chains	
	Subsoil, dry.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering greasewood, sage brush, and mountain rush.
	December 5, 1911.
	December 6: At 8h 51m a.m. l.m.t., I set off 38°26' on the lat. arc; 22°23'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34. Thence I run
	East, retracing bet. secs. 27 and 34.
	Over rolling mountainous land; through very heavy cedar and pinon pine timber; ascend gently.
40.20	Fall 2 lks. N. of ¼ sec. cor., which is a sandstone 5x10x7 ins. above ground, marked and witnessed as described by the surveyor general. In place of stone I
	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of stone for ¼ sec. cor., marked on brass cap ¼ S 27 in N. half, and S. 34 in S. half.
	Leave old bearing trees.
41.50	Top of ridge, bears N.30°E. and S.30°W., 100 ft. above hollow, descend.
52.00	Bottom of hollow, 50 ft. below ridge, course NW. Ascend. gently.
70.00	Top of ridge, 50 ft. above hollow, bears NE. and SW. Desc.
79.00	Bottom of gulch, 35 ft. below ridge, course SW. Ascend.
80.28	Fall 4 lks. N. of cor. of secs. 26, 27, 34 and 35, which is a trachyte stone 5x12x5 ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is S.89°58'E., 80.28 chs. In place of stone
	Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground, on solid rock, and surrounded by mound of stone for cor. of secs. 26, 27, 34 and 35, marked on brass cap T 27 S S 27 in NW., R 23 E S 26 in NE.,

SUBDIVISION OF T. 27 S., R. 23 E.

Chains

S 35 in SE. and

S 34 in SW. quadrants.

Note: I find the NW. and SE. bearing trees dead; therefor I replace them with the following:

A cedar, 10 ins. diam., bears S.53°31'E., 79 lks. dist., mkd. T 27 S R 23 E S 35 B T

A pinon pine, 6 ins. diam., bears N.70°0'W., 32 lks. dist., mkd. T 27 S R 23 E S 27 B T

Land rolling mountainous; S. slope.

Soil, gravelly loam, 6 to 18 ins. deep, on rock and gravel subsoil. Timber, heavy cedar and pinonpine.

Undergrowth, scattering sage brush.

S.0°1'E., retracing bet. secs. 34 and 35.

Over mountainous land, through heavy cedar and pinon pine timber and scattering sage brush; ascend.

4.50 Top of ridge, 70 ft. above sec. cor., bears E. and W. Descend abruptly.

15.00 Bottom of Cane Spring Canyon, 100 ft. below ridge, course W. Ascend.

30.00 Top of ridge, 100 ft. above bottom of canyon, bears E. and W. Descend gently.

40.11 Fall 18 lks. W. of ¼ sec. cor., which is a sandstone 5x9x3 ins. above ground, marked and witnessed as described by the surveyor general.

Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, surrounded by mound of stone, in place of stone for ¼ sec. cor., mkd. on brass cap ¼ S 34 on W., and S 35 on E. half.

Leave same bearing trees.

Dec.6: At this point I set off 22°25'S., on the decl. arc and at 11h 51m a.m. l.m.t., observe the sun on the meridian, the resulting lat. is 38°25' very nearly.

42.00 Bottom of gentle hollow, 15 ft. below ¼ sec. cor., course W.

Ascend.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
65.00	Top of ridge, 100 ft.above hollow, bears E. and W.
	Descend gently.
80.29	Fall 35 lks.W.of cor.of secs.2,3,34, and 35, on S.bdy.of Tp., heretofore described.
	The course of this line is therefore S.0° 16'E.80.29 chs.
	In place of stone, I
	Set an iron post 3 ft.long, 3 ins.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone for cor.of secs.2,3,34, and 35, marked on brass cap
	T 27 S R 23 E in N.
	T 28 S R 23 E in S.half;
	S 34 in NW.
	S 35 in NE.
	S 2 in SE.; and
	S 3 in SW.quadrants;
	Leave old bearing trees.
	Land, mountainous; westerly slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock and gravel subsoil. Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush. December 6, 1911.

	December 11: At 8h 53m a.m.l.m.t., I set off 38° 26' on the lat.arc; 22° 55'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.27,28,33, and 34. Thence I run
	S.0° 16'E.on a random line bet.secs.33 and 34,
40.00	Set temp.¼ sec.cor.
80.28	Intersect S.bdy.of Tp.6.1ks.W.of true cor.point for cor. of secs.3,4,33, and 34, heretofore described.
	Thence I run
	N.0° 19'W.on a true line bet.secs.33 and 34,
	Over mountainous land; through cedar and pinon pine timber and scattering sagebrush. Descend.
4.00	Bottom of hollow, 40 ft.below sec.cor., course W.Ascend.
13.10	Top of ridge, 40 ft.above hollow, bears E.and W.Descend.

Chains.	
16.60	Top of sloping sandstone ledge, 150 ft.high, bears E.and W.
	Dec.11: At this point I set off 22°56'S.on the decl.arc; and at 11h 53m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 25' nearly.
25.70	Bottom of Cane Spring Canyon, 200 ft.below ridge, course W. Ascend.
39.40	Top of sandstone ledge, 20 ft.high, bears NW. and SE.
40.14	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone, for ¼ sec.cor., marked on brass cap ¼ S 33 on W.half; and S 34 on E.half; from which
	A pinon pine, 5 ins.diam.bears S.18°0'E.29 lks. dist., marked ¼ S.34 B T
	A pinon pine, 12 ins.diam., bears N.44° 20'W.63 lks dist., marked ¼ S.33 B T.
	Descend.
50.00	Bottom of box canyon, 200 ft.below ridge, course S.60° W. Ascend abruptly.
78.00	Top of ridge, 400 ft.above canyon, bears E.and W.
80.28	The cor.of secs.27,28,33, and 34.
	Land, mountainous; westerly slope.
	Soil, gravelly loam, 3 to 12 ins.deep, on rock and gravel; dry, coarse texture. Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	December 11, 1911.

	December 12: At 8h.53m a.m.l.m.t., I set off 38° 26' on the lat.arc; 23° 0'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.28,29,32, and 33. Thence I run
	South, on a random line bet.secs.32 and 33,
40.00	Set temp.¼ sec.cor.
80.40	Intersect S.bdy.of Tp.96 lks.W.of the cor.of secs.4,5,32 and 33, heretofore described.
	Set an iron post 3 ft.long, 2 ins.in dia., 18 ins.in the

SUBDIVISION OF T.27 S., R.23 E

Chains.	
	ground, on solid rock, and surrounded by a mound of stone, for closing cor.of secs.32 and 33, marked on brass cap
	T 27 S S 32 in NW.
	R 23 E S 33 in NE.quadrants;
	C C T 28 S R 23 E S 4 S 5 in S.half; from which
	A pinon pine, 10 ins.diam., bears N.15° 20'E.66 lks.dist., marked T 27 S R 23 E S 33 B T
	A pinon pine, 10 ins.diam.bears N.53° 35'W.101 lks. dist., marked T 27 S R 23 E S 32 B T
	I destroy marks on the cor.set for secs.4,5,32, and 33, that pertain to secs.32 and 33.
	Thence I run
	North on a true line bet.secs.32 and 33,
	Over mountainous land; through cedar andpinon pine timber, and scattering sagebrush; descend.
17.40	Bottom of Cane Spring Canyon, 200 ft.below sec.cor., course W. Ascend.
37.00	Top of ridge, 350 ft.above canyon, bears NE. and SW. Descend.
40.20	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone, for ¼ sec.cor. marked on brass cap ¼ S 32 on W.half, and S 33 on E.half; from which
	A pinon pine, 10 ins.diam.bears N.39°30'E.96 lks. dist., marked ¼ S 33 B T
	A cedar, 6 ins.diam., bears S.13° 30'W.68 lks. dist., mkd.¼ S 32 B T
40.34	Bottom of hollow, 30 ft.below ridge, course S.70° W. Ascend.
45.20	Top of ridge, 40 ft.above hollow, bears NE. and SW. Descend.
48.40	Bottom of hollow, 40 ft.below ridge, course SW. Ascend.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
63.90	Sandstone boulder 16 x 10 x 10 ft.on line
74.40	Top of ridge, 200 ft.above hollow, bears E.and W.
	Descend.
80.40	The cor.of secs.28,29,32, and 33.
	Land, mountainous; westerly slope.
	Soil, gravelly loam 6 to 12 ins.deep, on rock and gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	Dec.12: At this cor.I set off 23° 1'S.on the decl.arc; and at 11h 53m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 26'
	South, on a random line bet.secs.31 and 32,
40.00	Set temp.¼ sec.cor.
80.06	Intersect S.bdy.of Tp.99 lks.W.of cor.of secs.5,6,31 and 32, heretofore described.
	Set an iron post 3 ft.long, 2 ins.in dia., 18 ins.in the ground, and surrounded by mound of stone for closing corner of secs.31 and 32, marked on brass cap
	T 27 S S 31 in NW.
	R 23 E S 32 in NE.
	C C T 28 S R 23 E S 5 S 6 in S.half;from which
	A cedar 6 ins.diam.bears N.31° 52'E.47 lks.dist. mkd.T 27 S R 23 E S 32 B T
	A pinon pine, 6 ins.diam., bears N.72°30'W.18 lks. dist., marked T 27 S R 23 E S 31 B T
	I destroy the marks on the cor.set for secs.5,6,31 and 32 that pertain to secs.31 and 32.
	Thence I run
	North on a true line bet.secs.31 and 32,
	Over mountainous land; through cedar and pinon pine timber and scattering greasewood and sagebrush. Descend.
9.00	Bottom of hollow, 50 ft. below sec. cor., course NE. Asc.

SUBDIVISION OF T.27 S., R.23 E.

Chains	
15.00	Top of ridge, 25 ft. above hollow, bears NE. and SW. Desc.
36.00	Telephone line between Moab and Cane Spring ,bears E.and W.
40.03	Set an iron post 3 ft.long, 1 in.in dia., 18 ins.in the ground, on solid rock,surrounded by mound of stone, for ¼ sec.cor., marked on brass cap ¼ S 31 on W.half and S 32 on E.half; from which A cedar, 14 ins.dia.bears N.38° 00'E.80 lks.dist. mkd.¼ S 32 B T A cedar, 6 ins.diam., bears N.51° 30'W.76 lks. dist., mkd.¼ S 31 B T
41.30	Wash, 1 ch.wide, 5 ft.deep, in bottom of Cane Spring Canyon, course W. Ascend.
52.00	Top of spur, 200 ft.above canyon, bears N.60° E. and S. 60° W. Descend.
57.00	Bottom of hollow, 80 ft.below spur, course S.60° W. Ascend.
64.00	Top of spur, 150 ft.above hollow, bears NE. and SW. Descend.
73.00	Bottom of hollow, 50 ft.below spur, course SW. Ascend.
78.30	Top of ridge, 75 ft.above hollow, bears E.and W. Descend.
80.06	The cor.of secs.29,30,31, and 32. Land, mountainous, westerly slope. Soil, gravelly loam, 6 to 12 ins.deep, on rock and gravel subsoil. Timber, cedar and pinon pine. Undergrowth, scattering greasewood and sagebrush. December 12, 1911. Eric H. Anderson U.S.Transitman.

December 5: At 8h 50m a.m.l.m.t., I set off 38° 28' on the lat.arc; 22° 16'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.13,18,19

Chains.	
	and 24, on W.bdy.of township, heretofore described. Then, in order to locate the cor.of secs.16,17,20,and 21, I retrace roughly east and find same, well preserved, a sandstone 20 x 8 x 7 ins.in mound of stone, marked and witnessed as described by the surveyor general.
	From this cor.I retrace East bet.secs.16 and 21,
	Over rolling mountainous land; through dense sagebrush.
3.10	Bottom of swale, course N.80° W.
	Ascend.
15.00	Top of ascent, bears N.70° E. and S.70° W.Descend gently.
27.00	Leave bench, bears NW. and SE.
	Descend.
30.10	Bottom of hollow, 40 ft.below bench, course N.20° W.
	Ascend.
31.70	Top of small spur, 30 ft.above hollow, bears N.20° W. and S.20° E. Descend..
34.40	Wash, at foot of ridge, 60 ft.below ridge, course N.30° W.; thence over rolling valley; very rocky.
40.23	Fall 11 lks.N.of ¼ sec.cor., which is a trachyte stone marked and witnessed as described by the surveyor general. Corner well preserved.
45.50	Wash, 10 lks.wide, 4 ft.deep, course N.20° W.
48.10	Old road, bears N 60° W. and S.60° E.
52.60	Descend from bench 20 ft.high to creek bed, bears N.60° W. and S.60° E.
57.60	Pack Creek, 15 lks.wide, 6 ins.deep, course N.60° W.
59.20	Pack Creek, 15 lks.wide, 6 ins.deep, course S.60° W.
62.00	Pack Creek, 15 lks.wide, 6 ins.deep, course N.70° W.
65.10	Pack Creek, 15 lks.wide, 6 ins.deep, course S.80° W.
70.80	Pack Creek, 15 lks.wide, 6 ins.deep, course N.60° W.
75.20	Road from Moab to saw mill, bears N.60° W. and S.60° E.
80.61	Fall 21 lks.N.of cor.of secs.15,16,21, and 22; therefore the course of this line is S.89°51'E.80.61 chs.
	This corner is a sandstone 6 x 10 x 6 ins.above ground, marked and witnessed as described by the surveyor gen-

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	eral.
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.15,16,21, and 22, marked on brass cap
	T 27 S S 16 in NW.
	R 23 E S 15 in NE.
	S 22 in SE.; and
	S 21 in SW.quadrants;from which
	A pinon pine, 14 ins.diam.bears S.13° 45'E.206 lks.dist., marked T 27 S R 23 E S 22 B T
	A cedar, 6 ins.dia., bears N.66° 15'W.205 lks. dist., marked T 27 S R 23 E S 16 B T
	No other trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, rolling,mountainous; NW.slope.
	Soil, sandy and gravelly loam 1 to 2 ft.deep, on gravel subsoil.
	Timber scattering cedar and pinon pine.
	Undergrowth, sagebrush.
	East, retracing between secs.15 and 22,
	Over rolling mountainous land; through scattering cedar and pinon pine timber and sagebrush undergrowth;ascend.
13.00	Top of ridge, 100 ft.above sec.cor., bears N.and S.
	Dec.5: At this point I set off 22° 17'S.on the decl.arc; and at 11h 50m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 28', very nearly.
	Descend.
15.00	Head of hollow, 30 ft.below ridge, course S. Ascend.
26.30	Ridge, 50 ft.above hollow, bears NW. and SE.
	Descend.
29.65	Road to sawmill, bears N.and S. at this point.
30.25	Wash, 50 lks.wide, 2 ft.deep, course S.30° E.
35.90	North Pack Creek, 3 lks.wide,2 ins.deep, in bottom of canyon, 100 ft.below ridge, course SW.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	Ascend.
40.08	Fall 11 lks.N.of the ¼ sec.cor., which is a trachyte stone 15 x 7 x 7 ins., set in a mound of stone, mkd. as described by the surveyor general. I rebuild mound of stone N.of cor.Corner in good preservation.
70.00	Top of ridge, 500 ft.above canyon, bears N.80° E. and SW.
80.04	Fall 23 lks.N.of the cor.of secs.14,15,22,and 23,which is a trachyte stone 18 x 8 x 6 ins.in a mound of stone marked and witnessed as described by the surveyor general, and in good shape. I rebuild stone mound W.of the corner.The course of this line is S.89°50'E.80.04 chs.
	Land, mountainous, southerly slope.
	Soil, sand and gravelly loam, 1 to 2 ft.deep, on gravel and rock subsoil.
	Timber, scattering cedar and pinon pine.
	Undergrowth, sagebrush and some grass.
	North retracing bet.secs.14 and 15,
	Over mountainous land; through scattering cedar and pinon pine timber and scattering sagebrush. Descend.
12.90	Begin more abrupt descent, bears E.and W.
21.70	North Pack Creek, 3 lks.wide, 2 ins.deep, course S.60° W.
	Ascend abruptly.
30.50	Top of sloping sandstone ledge 30 ft.high, bears E. and W.
40.15	Fall 4 lks.E.of the ¼ sec.cor., which is a sandstone 16 x 13 x 4 ins. in mound of stone, marked ¼ on W.face, and witnessed as described by the surveyor general.The stone is in good condition.
45.20	Top of ridge, 600 ft.above canyon, bears E.and W.,known as Brumley Ridge. Descend.
57.50	Road to sawmill, bears N.20° E. and SW.
59 40	Head of hollow, 30 ft.below ridge, course W. Ascend.
62.30	Same road bears NW. and SE.
64.40	Top of ridge, 30 ft.above hollow, bears NW. and SE. Descend.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
67.00	Same road bears E.and W.
74.00	Head of hollow, 30 ft.below ridge, course SE. Ascend.
79.00	Top of ridge, 40 ft.above hollow, bears N.20° E. and S. 20° W. Descend.
80.16	Fall 9 lks.E.of cor.of secs.10,11,14, and 15,which is a sandstone badly disintegrating; therefore I destroy it and at same point,

Set an iron post 3 ft.long, 2 in.in dia., 12 ins.in the ground, on solid rock, surrounded by mound of stone, for cor.of secs.10,11,14, and 15, marked on brass cap

T 27 S S 10 in NW.

R 23 E S 11 in NE .

S 14 in SE.; and

S 15 in SW quadrants; from which

A pinon pine, 8 ins.diam., bears N.18° 15'E.74 lks.dist., mkd.T 27 S R 23 E S 11 B T

A pinon pine, 10 ins.diam.bears S.35° 15'E.76 lks. dist., mkd.T 27 S R 23 E S 14 B T

A cedar, 10 ins.diam., bears S.25° 30'W.112 lks. dist., mkd.T 27 S R 23 E S 15 B T

A pinon pine, 5 ins.diam.bears N.69° 45'W.61 lks. dist., mkd..T 27 S R 23 E S 10 B T

The course of this line is N.0° 04'W.80.16 chs.

Land, mountainous; southerly slope.

Soil, gravelly loam, 6 to 12 ins.deep, on rock and gravel subsoil.

Timber, scattering cedar and pinon pine.

Undergrowth, scattering sagebrush.

December 5, 1911.

December 6: At 8h 51m a.m.l.m.t., I set off 38° 28' on the lat.arc; 22° 23'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.10,11,14, and 15. Thence I retrace

East bet.secs.11 and 14,

SUBDIVISION OF T.27 S., R.23 E.

Chains.

Over mountainous land; through heavy cedar and pinon pine and short sagebrush and buck brush; ascend.

1.00 Top of ridge, 30 ft.above sec.cor., bears N.and S.

Descend.

8.70 Road to saw mill bears N.and S.

11.20 Begin abrupt descent over ledges, bearing N.20° E. and S. 20° W.

19.50 North Pack Creek, 5 lks.wide, 2 ins.deep, in bottom of small canon, course S.20° W.

Ascend through heavy oak brush.

22.20 Leave oak brush, bears N.and S.

38.90 Top of spur, 150 ft.hove creek, bears NE. and SW.

Descend.

For corrective notes see pages 53-54 this book.

39.62 Fall 7 lks.S.of ¼ sec.cor., which is a sandstone 5 x 10 x 8 ins., marked and witnessed as described by the surveyor general. I destroy same, and

Set an iron post 3 ft.long, 1 in.in dia., 14 ins.in the ground, on solid rock, and surrounded by mound of stone for ¼ sec.cor., marked on brass cap ¼ S 11 on N.half, and S 14 on S.half. Leave same bearing trees. This corner refers to section 14 only.

41.00 Wash, 5 lks.wide, 1 ft.deep, in bottom of hollow, 20 ft. below ¼ sec.cor., course NE. Ascend.

55.00 Top of ridge, 50 ft.above hollow, bears NE. and SW.

Descend.

58.00 Bottom of hollow, 20 ft.below ridge, course SW.

Ascend.

78.90 Top of ridge, 150 ft.above hollow, bears N.and S. Descend

79.86 Fall 14 lks.S.of cor.of secs.11,12,13, and 14, which is a trachyte stone 5 x 14 x 6 ins.above ground, marked as described by the surveyor general. The course of this line is therefore N.89°54'E. 79.86 chs.

I destroy the stone corner and in place thereof,

Set an iron post 3 ft.long, 2 ins.in dia., 12 ins.in the ground, and surrounded by a mound of stone, for cor.of secs.11,12,13, and 14, marked on brass cap

SUBDIVISION OF T.27 S., R.23 E.

Chains	
	T 27 S S 11 in NW.
	R 23 E S 12 in NE.
	S 13 in SE.; and
	S 14 in SW.quadrants; from which
	Old bearing tree, a pinon pine, 12 ins.dia.bears N.33°30'E.46 lks.dist., marked T 27 S R 23 E S 12 B T
	A pinon pine, 8 ins.dia., bears S.37° 0'E. 43 lks. dist., marked T 27 S R 23 E S 13 B T
	A cedar, 4 ins.diam., bears S.59° 15'W. 58 lks. dist., marked T 27 S R 23 E S 14 B T
	Old bearing tree, a cedar, 14 ins.dia.,bears N. 68° 30'W.45 lks.dist., marked T27S R23E S11 BT
	Land, mountainous; westerly slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock and gravel subsoil.
	Timber, very heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	East, retracing bet.secs.12 and 13,
	Over mountainous land; through heavy cedar and pinon pine timber; descend.
2.00	Bottom of hollow, 40 ft.below sec.cor., course S.
	Ascend.
5.25	Top of ridge, 30 ft.above hollow, bears N.and S.
	Dec.6: At this point I set off 22° 25'S.on the decl.arc; and at 11h 51m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 29', very nearly.
	Descend gently.
9.00	Bottom of hollow, 20 ft.below ridge, course S.
	Ascend.
10.50	Top of small ridge, 25 ft.above hollow, bears N.10° E. and S.10° W. Descend.
16.00	Leave timber; enter sagebrush flat, bearing N.and S.
17.50	Swale, course N.10° E.

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Chains. Ascend gently.

21.00 Leave sagebrush flat; enter heavy timber bearing N.10° W. and S.10° E.

29.50 Top of ridge, 50 ft.above swale, bears N.15° E. and S.15° W. Descend.

34.00 Wash, 20 lks.wide, 4 ft.deep, course N.

Ascend.

40.31 Fall 4 lks.S.of ¼ sec.cor., which I find to be a sandstone 5 x 9 x 4 ins.above ground, marked and witnessed as described by the surveyor general. I destroy stone, and in its place

Setan iron post 3 ft.long,1 in.in dia., 14 ins.in the ground, for ¼ sec.cor., marked on brass cap ¼ S 12 on N.half, and S 13 on S.half. Mound of stone around post.

Leave old bearing trees.

42.50 Leave timber; enter sagebrush bears N.30° W. and S.30° E.

45.00 Bottom of hollow, 40 ft.below ¼ sec.cor., course NW.

Ascend.

55.00 Leave sagebrush; enter timber, bears N.30° W. and S.30°E.

80.40 Intersect Colorado Guide Meridian 7 lks.S.of cor.of secs. 7,12,13, and 18, which is a sandstone 16 x 10 x 8 ins. above ground, marked as described by the surveyor general. The course of this line is therefore N.89°57'E. 80.40 chs.

Of the two bearing trees described in the old notes, I fin the SW.bearing tree dead; therefore I replace it with the following tree:

A pinon pine, 8 ins.diam.bears S.34° 30'W.49 lks. dist., marked T 27 S R 23 E S 13 B T

There being no bearing trees in secs.7 and 18, I take the following:

A cedar, 6 ins.diam.bears N.0° 45'E.377 lks.dist. mkd.T 27 S R 24 E S 7 B T

A cedar, 6 ins.dia., bears S.31° 30'E.85 lks.dist. mkd.T 27 S R 24 E S 18 B T

Land, mountainous; northerly slope.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	Soil, gravelly loam, 6 to 12 ins.deep, on rock and gravel subsoil; dry coarse texture.
	Timber, heavy cedar and pinon pine 61.50 chs.
	Undergrowth scattering sagebrush.
	Dec.6: At 2h 51m p.m.l.m.t., I set off 38° 29' on the lat.arc; 22° 25'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.7,12,13, and 18.
	Dec.11 : At 8h 53m a.m.l.m.t., I set off 38° 28' on the lat.arc; 22° 55'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.11,12,13, and 14. Thence I run
	N.0° 6'W.bet.secs.11 and 12,
	Over mountainous land; through heavy cedar and pinon pine timber, and scattering sagebrush. Descend.
9.00	Head of hollow, 150 ft.below sec.cor., course NW.
	Ascend.
15.30	Top of ridge, 60 ft.above hollow, bears NW. and SE.
	Descend.
23.50	Bottom of hollow, 80 ft.below ridge, course N.40° W.
	Ascend.
26.50	Top of ridge, 30 ft.above hollow, bears NW. and SE.
	Descend.
36.30	North Pack Creek, 3 lks.wide, 3 ins.deep, in bottom of canyon, 250 ft. below ridge, course S.70° W.
	Ascend.
40.00	Point 100 ft.above creek,
	Set an iron post 3 ft.long, 1 in.in dia., 18 ins.in the ground, on solid rock, and surrounded by mound of stone, for ¼ sec.cor., marked on brass cap ¼ S 11 on W.half, and S 12 on E.half; from which
	A pinon pine, 8 ins.diam.bears N.11° 30'E.41 lks. dist., mkd.¼ S 12 B T
	A cedar, 8 ins.diam.bears N.69°15'W.54 lks.dist.

SUBDIVISION OF T.27 S., R.23 E.

Chains. marked ¼ S 11 B T

65.50 Top of ridge, 600 ft.above canyon, bears E.and W.

Descend.

72.00 Head of hollow, 80 ft.below;course W.

Ascend.

76.00 Trail bears N.30° E. and S.30° W.

80.00 Set an iron post 3 ft.long, 2 ins.in dia., 12 ins.in the ground, on solid rock, and surrounded by a mound of stone,for cor.of secs.1,2,11, and 12, mkd.on brass cap T 27 S S1 S12 In NW.

R 23 E S 1 in NE.

S 12 in SE. and

S 11 in SW.quadrants;from which

A pinon pine, 14 ins.diam.bears N.17° 30'E.48 lks. dist., marked T 27 S R 23 E S 1 B T

A cedar, 12 ins.diam.bears S.82° 15'E.48 lks.dist. marked T 27 S R 23 E S 12 B T

A cedar, 20 ins.diam., bears S.40° 40'W.97 lks. dist., marked T 27 S R 23 E S 11 B T

A pinon pine, 12 ins.diam., bears N.56° 15'W. 52 lks.dist., marked T 27 S R 23 E S 2 B T

Dec.11: At this cor.I set off 22° 56'S.on the decl.arc; and at 11h 53m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 29', which is very near the proper lat.

Land, mountainous; westerly slope.

Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil; rather coarse texture; medium moist.

Timber, heavy cedar and pinon pine.

Undergrowth, scattering sagebrush.

East on a random line bet.secs.1 and 12,

40.00 Set temp.¼ sec.cor.

80.50 Intersect Colorado Guide Meridian 35 lks.S.of cor.of secs.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	1,6,7, and 12, heretofore described, in ret.Col.G.M.
	Thence I run
	S.89°45'W.on a true line bet.secs.1 and 12,
	Over mountainous land; through heavy cedar and pinon pine; descend gently.
30.50	Begin more abrupt descent, bears N.and S.
40.25	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone, for ¼ sec.cor., marked on brass cap ¼ S 1 on N.half; and S.12 on S.half; from which
	A cedar, 14 ins.diam., bears N.5° 0'W.49 lks.dist. marked ¼ S 1 B T
	A pinon pine, 12 ins.diam., bears S 41° 20'E. 32 lks.dist., marked ¼ S 12 B T
45.00	Bottom of hollow, 30 ft.below ¼ sec.cor., course S.
	Ascend.
55.50	Top of ridge, 100 ft.above hollow, bears N.and S.
	Descend.
79 20	Trail, bears N.20° E. and S.20° W.
80.50	The cor.of secs.1,2,11, and 12.
	Land, mountainous; southwesterly slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil; coarse texture; fairly moist.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	December 11, 1911.
	Scott P. Stewart
	U.S .Transitman.

December 12: At 8h 53m a.m.l.m.t., I set off 38° 29' on the lat.arc; 23° 0'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.1,2,11,and 12. Thence I run

North on a random line bet.secs.1 and 2,

Chains.	
40.00m	Set temp. ¼ sec.cor.
80.90	Intersect N.bdy.of Tp.3 lks.W.of cor.of secs.1,2,35, and 36, heretofore described. Thence I run S.0° 1'W.on a true line bet.secs.1 and 2,
	Over mountainous land; through cedar and pinon pine timber descend over ledges.
13.90	Creek in bottom of Millcreek Canyon, 15 lks.wide, 12 ins. deep, 1000 ft.below sec.cor., course S.70° W.
	Ascend abruptly over ledges.
25.60	Top of ledge, 300 ft.high, bears E. and W.
	Ascend less abruptly.
26.30	Top of ridge, bears NW. and SE.; descend.
30.50	Head of hollow, 40 ft.below ridge, course NW.
	Ascend.
35.50	S.edge of Millcreek Canyon, 1500 ft.above creek, bears E. and W.
	Dec.12:At this point I set off 23° 1'S.on the decl.arc; and at 11h 53m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38°30'.
	Thence along flat ridge.
38.30	S.edge of ridge, bears E.and W.
	Descend.
40.90	Point for ¼ sec.cor.falls in bottom of hollow, draining SW. This hollow is subject to freshets, cor.not set.
40.77	The nearest safe point,
	Set an iron post, 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone for witness cor.to ¼ sec.cor., marked on brass cap, T 27 S R 23 E on N., W C on S., ¼ S 2 on W.half; S 1 on E.half; from which
	A pinon pine, 20 ins.diam.bears N.67°30'E.14 lks. dist., mkd.W C ¼.S 1 B T
	A pinon pine, 14 ins.diam., bears S.81°30'W.48 lks dist., marked W C ¼ S 2 B T
	Ascend.
42.40	Dugway road, to sawmill, bears NE. and SW.at this point.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	About 5 chs.NE.of here the road runs on top of ridge.
43.70	Top of ridge, 100 ft.above hollow, bears E.and W.
	Descend.
60.00	A temporary lumber camp is located at foot of dugway about 10,00 chs.W.of this point.
74.50	Bottom of hollow, 400 ft.below ridge, course W.
	Ascend.
77.00	Top of ridge, 30 ft.above hollow, bears E.and W.
	Descend.
80.90	The cor.of secs.1,2,11, and 12.
	Land, mountainous; westerly slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil.
	Timber, heavy cedar and pinon pine,
	Undergrowth, scattering sagebrush.
	December 12, 1911.

December 13: At 8h 54m a.m.l.m.t., I set off 38° 28' on the lat.arc; 23° 5'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.10,11,14, and 15, Thence I run

N.0° 7'W.bet.secs.10 and 11,

Over mountainous land; through heavy cedar and pinon pine and scattering sagebrush; ascend.

5.30	Top of ridge, 40 ft.above sec.cor., bears NE. and SW.
	Descend.
10.50	Bottom of hollow, 50 ft.below ridge, course SW.
	Ascend.
12.35	Wire fence, Forest Reserve, bears E.and W.
32.00	Top of ridge, 100 ft.above hollow, bears E.and W.
	Descend.
33.80	Bottom of hollow, 30 ft.below ridge, course W.
	Ascend.
40.00	Set an iron post 3 ft. long, 1 in.dia., 16 ins.in the ground, on solid rock, and surrounded by mound of stone

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	for ¼ sec.cor., marked on brass cap ¼ S 10 on W.half, and S 11 on E.half; from which
	A pinon pine, 8 ins.diam.bears N.60° 30'E.50 lks. dist., marked ¼ S 11 B T
	A cedar, 6 ins.diam., bears N.87°45'W.19 lks.dist. marked ¼ S 10 B T
41.10	Top of ridge, 50 ft.above hollow, bears E. and W.
54.10	Head of hollow, 200 ft.below ridge, course NW.
	Ascend gently.
58.00	Top of ridge, 20 ft.above hollow, bears NW. and SE. Descen
61.30	S.edge of box canyon; ledge 300 ft.high bears E.and W.
66.00	Bottom of canyon, 500 ft.below ridge, course N.60° W.
	Ascend abruptly over ledges.
76.00	Top of ridge, 500 ft.above canyon, bears N.50° W. and S. 80° E. Descend abruptly.
80.00	Point 80 ft.below ridge,
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.2,3,10, and 11, marked on brass cap
	T 27 S S 3 in NW.
	R 23 E S 2 in NE.
	S 11 in SE.; and
	S 10 in SW.quadrant; from which
	A pinon pine, 12 ins.diam.bears N.39°15'E.75 lks. dist., marked T 27 S R 23 E S 2 B T
	A pinon pine, 14 ins.diam., bears S.16°15'E.69 lks. dist., marked T 27 S R 23 E S 11 B T
	A pinon pine, 8 ins.diam., bears S.57°15'W.44 lks. dist., marked T 27 S R 23 E S 10 B T
	A pinon pine, 10 ins.diam.,bears N.50°30'W.38 lks. dist., marked T 27 S R 23 E S 3 B T
	Dec.13: At 11h 54m a.m.l.m.t., I set off 23° 6'S.on the decl.arc; and observe the sun on the meridian at this cor.; the resulting lat.is 38°29',which is very near the proper lat.
	Land, mountainous; NW.slope.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	Soil, gravelly loam, 6 to 14 ins.deep,on rock or gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	East on a random line, bet.secs.2 and 11,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N.and S.line 30 lks.S.of cor.of secs.1,2,11, and 12. Thence I run
	S.89°47'W.on a true line bet.secs.2 and 11,
	Over mountainous land; through heavy cedar and pinon pine.
	Descend.
9.50	Bottom of canyon, course SW.
	Ascend.
14.50	Top of ridge, 60 ft.above canyon, bears NE. and SW.
	Descend.
18.25	Bottom of hollow, 80 ft.below ridge, course SW.
	Ascend.
20.00	Top of ridge, 20 ft.above hollow, bears NE. and SW.
	Descend.
29.45	Road from Moab to sawmill, bears N.10° W. and S.10° E.at this point; at about 15 chs.S.,it turns SW., and about 5 chs.N.it turns NE.
40.03	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 2 on N.half, and S 11 on S.half; from which
	A cedar, 10 ins.diam., bears north 45 lks.dist. marked $\frac{1}{4}$ S 2 B T
	A pinon pine, 12 ins.diam., bears S.52° E. 41 lks. dist., marked $\frac{1}{4}$ S 11 B T
	The west end of a road where it crosses ridge, bears S.8° 30'E.about 20 chs.dist.
49.25	Bottom of hollow, 200 ft.below ridge, course S.30° W.
	Ascend.
55.00	Top of ridge, 30 ft.above hollow, bears N.and S.

Chains.	
56.50	Begin abrupt descent, bears NW. and SE.
77.85	Bottom of canyon, 600 ft.below ridge, course NW.
	Ascend.
80.06	The cor.of secs.2,3,10, and 11.
	Land, mountainous; NW.slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	December 13, 1911.

December 14: At 8h 54m a.m.l.m.t., I set off 38° 29' on the lat.arc; 23° 9'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.2,3,10, and 11. Thence I run

North on a random line bet.secs.2 and 3,

40.00	Set temp.¼ sec.cor.
81.16	Intersect N.bdy.of Tp.24 1ks.E.of the cor.of secs.2,3, 34, and 35, heretofore described.

Thence I run

S.0° 10'E.on a true line bet.secs.2 and 3,

Over mountainous land; through cedar and pinon pine timber; ascend gently.

11.00	Top of ascent, bears E.and W.
	Descend gently.
22.35	Top of vertical ledge, 300 ft.high, bearing E.and W., north rim of Millcreek Canyon.
	Descend over ledges.
33.50	Top of almost vertical ledge, 250 ft.high, bears E.and W.
41.16	Point 1500 ft.below N.rim of canyon,
	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone,

Subdivision of T. 27 S., R. 23 E.

Chains	
	12 ins. high
	for ¼ sec. cor., marked on brass cap ¼ S 3 on W. half, and S. 2 on E. half; from which
	A cedar, 8 ins. diam., bears N.45°30'E. 45 lks. dist., marked ¼ S 2 B T
	A cedar, 7 ins. diam., bears N.57°30'W., 34 lks. dist., marked ¼ S 3 B T
	Dec. 14: At this cor. I set off 23°10'S. on the decl. arc; and at 11h 54m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°30'
42.60	Trail, bears N.70°E. and S.70°W.; foot of ledges; descend gently.
44.70	Millcreek, 16 lks. wide, 1 ft. deep, in bottom of Millcreek Canyon, course S.70°W.
	Ascend gently.
46.00	Leave canyon bottom; begin abrupt ascent over ledges.
52.50	Top of perpendicular ledge, 300 ft. high, bears E. and W.
	Ascend over ledges.
63.40	Top of ridge, 1000 ft. above canyon, bears NW. and SE.
	Descend over ledges.
73.30	Bottom of canyon, 200 ft. below ridge, course NW.
	Ascend over ledges.
81.16	The cor. of secs. 2,3,10 and 11.
	Land, mountainous; westerly slope.
	Soil, gravelly loam, 3 to 12 ins. deep, on rock; washed on slopes; coarse texture.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush and service berry.
	Dec. 14, 1911.
	Eric H. Anderson
	U.S. Transitman

December 13: At 8h 54m a.m.l.m.t., I set off 38°28' on

Subdivision of T. 27 S., R. 23 E.

Chains	
	the lat. arc; 23°5'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22.
	Thence I retrace
	N.0°02'W. bet. secs. 15 and 16,
	Over rolling land; through scattering cedar and pinon pine and sagebrush.
40.01	Intersect the ¼ sec. cor., which is a sandstone 5 x 10 x 7 ins. above ground, marked and witnessed as described by the surveyor general.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 16 on W. half, and S 15 on E. half.
	Leave same bearing trees.
41.20	Top of small ridge, 30 ft. high, bears E. and W.
	Descend.
43.60	Bottom of hollow, 50 ft. below ridge, course S.50°W.
	Ascend.
63.01	On top of ridge, 600 ft. above hollow, bearing NW. and S.80°E., the old witness cor., which is a sandstone 16 x 9 x 4 ins., set in a mound of stone, marked and witnessed as described by the surveyor general. I destroy it.
	Descend abruptly over ledges.
80.00	Point 450 ft. below ridge,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 9,10,15 and 16, marked on brass cap
	T 27 S S 9 in NW.
	R 23 E S 10 in NE.
	S 15 in SE.; and
	S 16 in SW. quadrant; from which
	A pinon pine, 8 ins. diam., bears N.70°40'E. 108 lks. dist., marked T 27 S R 23 E S 10 B T
	A pinon pine, 12 ins. diam., bears S.35°0'E. 74 lks. dist., marked T 27 S R 23 E S 15 B T

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	A pinon pine, 12 ins.diam., bears S.46° 30'W.136 lks.dist., marked T 27 S R 23 E S 16 B T
	A cedar, 12 ins.diam., bears N.12° 10'W.197 lks. dist., marked T 27 S R 23 E S 9 B T
	Dec.13: At 11h 54m a.m.l.m.t., I set off 23° 6'S.on the decl.arc, and observe the meridian at this cor.; the resulting lat.is 38° 28', which is very nearly the correct lat.
	Land, rolling, westerly slope, S.40 chs.
	Soil, sand and gravelly loam, 1 to 2 ft.deep, on gravel subsoil.
	Timber, few scattering cedar and pinon pine.
	Undergrowth, sagebrush.
	North 40.00 chs.mountainous land; W.slope.
	Soil, gravelly loam, 6 to 18 ins.deep, on rock or gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	East on a random line bet.secs.10 and 15,
40.00	Set temp.¼ sec.cor.
80.16	Intersect N.and S.line 9 lks.N.of cor.of secs.10,11,14, and 15. Thence I run
	N.89° 56'W.on a true line bet.secs.10 and 15,
	Over mountainous land; through heavy cedar and pinon pine timber. Descend.
3.15	Bottom of hollow, course SW. Ascend.
13.00	Top of ridge, 20 ft.above hollow, bears NE. and SW.
	Descend.
23.00	Sandstone ledge, 8 ft.high, bears N.and S.
31.90	Wash, 20 lks.wide, 1 ft.deep, course S.
35.00	Bottom of head of canyon, 400 ft.below ridge, course S.
	Note: This becomes a box canyon about 5 chs.S.of this point.
	Ascend.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
40.08	Foot of ledge, bears N.70° E. and S.70° W.
	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone for ¼ sec.cor., marked on brass cap ¼ S 10 on N.half, and S 15 on S.half;from which
	A pinon pine, 8 ins.diam., bears N.62° 15'W.48 lks dist., marked ¼ S 10 B T
	A pinon pine, 8 ins.diam., bears S.37° E.53 lks. dist., marked ¼ S 15 B T
65.00	Top of ridge, 100 ft.above head of canyon, bears N.and S. Descend gently.
76.00	Bottom of canyon, 600 ft.below ridge,course NW. Ascend.
80.16	The cor.of secs.9,10,15, and 16.
	Land, mountainous; southerly slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	December 13, 1911.
	December 14: At 8h 54m a.m.l.m.t., I set off 38° 28' on the lat.arc; 23° 9'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.9,10,15, and 16. Thence I run
	N.0° 8'W.bet.secs.9 and 10,
	Over mountainous land; through scattering cedar and pinon pine; descend over ledges.
2.50	Bottom of canyon 40 ft.below sec.cor., course N.70° W. Ascend.
10.00	Top of ridge, 150 ft.above canyon, bears NW. and SE. Descend.
14.00	Bottom of hollow, 60 ft.below ridge, course NE. Ascend.

SUBDIVISION OF T.27 S., R.23 E.

Chains	
17.80	Top of ridge, 40 ft.above hollow, bears E.and W. Descend.
31.20	Bottom of hollow, 80 ft.below ridge, course NW. Ascend.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone for ¼ sec.cor., marked on brass cap ¼ S 9 on W.half, and S 10 on E.half; from which A pinon pine, 8 ins.diam.bears S.73° 15'E.64 lks. dist., marked ¼ S 10 B T A pinon pine, 10 ins.diam., bears N.47° 0'W.43 lks.dist., marked ¼ S 9 B T
42.20	Top of sandstone ledge,40 ft.high, bears E.and W. Continue ascent,over sloping sandstone ledges.
45.30	Top of sandstone ridge, 100 ft.above hollow, bears E.and W. Descend.
50.00	Foot of ledges, bearing NE. and SW.
56.20	Head of hollow, 60 ft.below ridge, course SW. Ascend.
72.30	Top of ridge, 40 ft.above hollow, bears E.and W. Descend.
77.30	S.edge of Millcreek Canyon, top of vertical ledge, 200 ft. high, bears E.and W. Dec.14: At 11h 54m a.m.l.m.t., I set off 23° 10'S.on the decl.arc, and observe the sun on the meridian, at this point; the resulting lat.is 38° 29', which is very nearly the correct lat.
78.20	Foot of ledge; enter bottom of Millcreek Canyon, bears E.and W.; enter dense oak brush, bearing same.
80.00	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.3,4,9, and 10, marked on brass cap T 27 S S 4 in NW. R 23 E S 3 in NE. S10 in SE.; and S 9 in SW.quadrants; from which An oak 3 ins.diam.bears N.54° 45'E.55 lks.dist.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	marked T 27 S R 23 E S 3 B T
	A ledge, south wall of canyon, bears S.6°50'E.182 lks.dist., marked X B O S 10
	Same ledge, bears S.16°50'W.204 lks.dist. marked X B O S 9
	A cottonwood, 5 ins.diam., bears N.41°30'W.89 lks. dist., marked T 27 S R.23 E.S 4 B T
	Mountainous land; westerly slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on sandstone; coarse texture and dry.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	East on a random line bet.secs.3 and 10,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.12	Intersect N.and S.line 12 lks.N.of the cor.of secs.2,3, 10 and 11. Thence I run
	N.89°55'W.on a true line bet.secs.3 and 10,
	Over rough mountainous land; through cedar and pinon pine timber and scattering sagebrush. Ascend over broken sandstone ledges.
3.75	Top of sandstone ridge, 80 ft.above sec.cor., bears N.70° W.and S.70° E. Descend.
10.20	Descend abruptly over ledges, bearing N.80° W. and S.80° E.
13.00	Foot of ledges, 300 ft.below top, bears N.80° W. and S. 80° E.; thence over broken ledges.
36.60	Begin descent over smooth sandstone ledges bearing N.60° W.and S.60° E.
38.50	Bottom of canyon, 1000 ft.below ridge, course N.70° W. Ascend over ledges.
40.06	Point for $\frac{1}{4}$ sec.cor.falls on smooth and sloping ledge; cor.not set; at
44.45	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the

Chains

ground, for witness cor. to ¼ sec. cor., marked on brass cap, T 27 S R 23 E ¼ S 3 on N.; W C on E., and S 10 on S. half; from which

A pinon pine, 7 ins. diam., bears N.57°10'W. 18 lks. dist., marked W.C. ¼ S 3 B T

A pinon pine, 8 ins. diam., bears S.3:07'W. 38 lks. dist., marked W C ¼ S 10 B T

W. edge of canyon, 125 ft. above bottom, bears N.70°W. and S.70°E. Ascend gently.

46.00 Top of small spur, 20 ft. above W. C., bears N.20°W. and S.20°E.

56.00 S. edge of Millcreek Canyon, top of sloping ledge 200 ft. high, bears N.80°E. and S.80°W.

58.00 Foot of ledge bears same; enter bottom of Millcreek Canyon; enter oak brush.

80.12 The cor. of secs. 3, 4, 9 and 10.

Land, rough mountainous; W. slope.

Soil, gravelly loam, 3 to 12 ins. deep, on rock or gravel subsoil; coarse texture.

Timber, scattering cedar and pinon pine 56 chs.

Undergrowth, scattering sagebrush and oak.

December 14, 1911.

December 15: At 8h 55m a.m. l.m.t., I set off 38°29' on the lat. arc; 23°12'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10. Thence I run

North on a random line bet. secs. 3 and 4,

40.00 Set temp. ¼ sec. cor.

80.99 Intersect N. bdy of Tp. 1 link. W. of cor. point of secs. 3, 4, 33 and 34, mkd. on ledge as described by the surveyor general. This cross and marks being on a sloping ledge and almost obliterated, at a point 8 lks. west, at foot of ledge, I

SUBDIVISION OF T. 27 S., R. 23 E.

Chains	
	Set an iron post 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by a mound of stone, for witness cor. to cor. of secs. 3, 4, 33 and 34, marked on brass cap
	T 26 S S 33 in NW.
	R 23 E S 34 in NE.
	S 3 in SE.,
	S 4 in SW. quadrants;
	W C in E. half; from which
	A pinon pine 4 ins. diam. bears N.81°30'E. 43 lks. dist., marked W C T 26 S R 23 E S 34 B T
	A pinon pine 6 ins. diam. bears S.63°30'E. 85 lks. dist., marked W C T 27 S R 23 E S 3 B T
	A pinon pine 10 ins. diam. bears S.46°40'W. 150 lks. dist., marked W C T 27 S R 23 E S 4 B T
	A pinon pine 12 ins. diam. bears N.88°15'W. 173 lks. dist., marked W C T 26 S R 23 E S 33 B T
	Thence, from cor. point of secs. 3, 4, 33 and 34, I run South, on a true line, bet. secs. 3 and 4.
	Over mountainous land; through cedar and pinon pine timber; descending over ledges.
3.00	Bottom of canyon, course W. Ascend.
11.00	Top of ridge, 150 ft. above canyon, bears E. and W. Descend gently.
18.00	Begin abrupt descent, bears E. and W.
21.50	Bottom of canyon, 200 ft. below ridge, course W. Ascend.
23.50	Edge of canyon, bears E. and W. Continue ascent.
27.00	Top of ridge, 150 ft. above canyon, bears E. and W. Descend.
40.99	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone for ¼ sec. cor., marked on brass cap ¼ S 4 on W. half, and S 3 on E. half; from which
	A pinon pine, 7 ins. diam., bears S.24°0'E. 19 lks.

SUBDIVISION OF T.27 S., R.23 E.

Chains	
	dist., marked ¼ S 3 B T
	A pinon pine, 8 ins.diam., bears S.36° 30'W.80 lks.dist., marked ¼ S 4 B T
	Dec.15: At this cor. I set off 23° 13'S.on the decl.arc; and at 11h 55m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 30', which is very nearly the correct lat.
43.00	Bottom of hollow, 80 ft.below ridge, course S.80° W. Ascend.
51.00	Top of ridge, 60 ft.above hollow, bears E.and W. Descend.
68.50	Begin abrupt descent, over ledges. N.rim of Millcreek Canyon, bears E.and W.at this point.
76.00	Foot of ledges, 400 ft.below ridge, bear E.and W. Enter bottom of Millcreek Canyon; through birch, oak,and rose brush.
78.20	Trail, bears N.70° E. and S.70° W.
78.40	Small spring of fresh water, course S.20° W.
80.35	Millcreek, 15 lks.wide, 1 ft.deep, in bottom of Millcreek Canyon, course N.70° W. Ascend.
80.99	The cor.of secs.3,4,9, and 10.
	Land, mountainous; SW.slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	December 15, 1911.
	Scott P. Stewart.
	U.S.Transitman.

December 15: At 8h 55m a.m.l.m.t, I set off 38° 28' on the lat.arc; 23° 12'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.16,17,20, and 21.

SUBDIVISION OF T.27 S, R.23 E.

Chains.	
	Thence I retrace
	North bet.secs.16 and 17.
	Over rolling mountainous land; through scattering greasewood; descend gently.
1.60	Head of hollow, 20 ft.below sec.cor., course N.60°W.
	Ascend gently.
13.50	Edge of bench; descend.
16.00	Foot of bench, bears E.and W. Descend gently.
27.70	Pack Creek, 15 lks.wide, 1 ft.deep, in wash, course N. 60° W. Ascend.
30.00	Enter scattering timber, bears E.and W.
30.50	Wash, 15 lks.wide, 4 ft.deep, course SW.
35.50	Road from Moab to sawmill, bears N.70° W. and S.70° E.
	Begin ascent of mountain, bearing N.70° W. and S.70° E.
40.11	Fall 4 lks.E.of $\frac{1}{4}$ sec.cor., which is sandstone 18 x 8 x 3 ins.set in a mound of stone, marked as described by the surveyor general. I rebuild corner, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
55.50	Top of ridge, 400 ft.above creek, bears E.and W.
	Descend.
80.24	Fall 9 lks.E.of cor.of secs.8,9,16, and 17, a stone in a disintegrated condition. The course of this line is N.0°04'W.80.24 chs. I destroy stone,and in place thereof
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.8,9,16, and 17, marked on brass cap
	T 27 S S 8 in NW.
	R 23 E S 9 in NE.
	S 16 in SE.; and
	S 17 in SW.quadrant; from which
	A cedar, 6 ins.diam.bears N.61° 40'E.93 lks.dist. marked T 27 S R 23 E S 9 B T
	A pinon pine, 5 ins.diam., bears S.55° 15'E.70 lks dist., marked T 27 S R 23 E S 16 B T
	A pinon pine, 5 ins.diam., bears S.22° 45'W.163 lks.dist., marked T 27 S R 23 E S 17 B T

SUBDIVISIONS OF T.27 S., R.23 E.

Chains	
	A pinon pine, 8 ins.diam.bears N.76°0'W.95 lks. dist., marked T 27 S R 23 E S 8 B T
	Land, mountainous; westerly slope.
	Soil, gravelly loam, 1 to 2 ft.deep, on rock or gravel subsoil.
	Timber, scattering cedar and pinon pine 50 chs.
	Undergrowth, short greasewood.
	East on random ret. line bet.secs.9 and 16
40.18	Fall 20 lks.N.of the old ¼ sec.cor., which is a sandstone 18 x 10 x 6 ins., well set but poorly marked. This is the end of the old survey from the west.
	I continue east on random line, and at
80.52	Intersect N.and S.line 39 lks.N.of cor.of secs.9,10,15, and 16. Thence I run
	N.89°43'W.on a true line bet.secs.9 and 16,
	Over mountainous land; through heavy cedar and pinon pine timber; descending.
3.00	Bottom of hollow, course N.50° W.
	Ascend.
10.00	Top of ridge, 60 ft.above hollow, bears N.and S.
	Dec.15: At 11h 55m a.m.l.m.t., I set off 23° 13'S.on the decl.arc; and observe the sun on the meridian, at this point; the resulting lat.is 38° 29'.
	Descend.
17.40	Bottom of hollow, 80 ft.below ridge, course N.30° W.
	Ascend.
20.50	Top of ridge, 40 ft.above hollow, bears N.30° W. and S. 30° E. Descend.
23.30	Bottom of hollow, 30 ft.below ridge, course N.30° W.
	Ascend.
30.00	Top of ridge, 30 ft.above hollow, bears N.30° W. and S. 30° E. Descend.
34.50	Bottom of hollow, 60 ft.below ridge, course N.30° W.
	Ascend.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
39.72	Top of ridge, 80 ft.above hollow, bears NW. and SE.
	Descend.
40.34	Intersect old ¼ sec.cor., which I destroy, and in place thereof,
	Set an iron post 3 ft.long,1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., marked on brass cap ¼ S 9 on N.half, and S 16 on S.half; from which
	Old bearing tree, a pinon pine, 8 ins.dia.bears N.60° 0'W.71 lks.dist., marked ¼ S 9 B T
	Old bearing tree, a pinon pine, 12 ins.dia., bears S.3° 0'E.95 lks.dist., marked ¼ S 16 B T
43.00	Bottom of canyon, 40 ft.below ridge, course NW.; ascend.
47.00	Top of ridge, 150 ft.above canyon, bears NW. and SE.
	Descend.
56.20	Bottom of canyon, 80 ft.below ridge, course N.70° W.
	Ascend over ledges.
63.50	Top of abrupt ascent, bears N.20° W. and S.20° E.
65.00	Top of ridge, 500 ft.above canyon, bears N.20° W. and S.20° E. Descend.
70.70	Top of ledge, 15 ft.high, bears E.and W.
74.20	Bottom of hollow, 200 ft.below ridge, course N.30° W.
	Ascend.
80.52	The cor.of secs.8,9,16, and 17.
	Land, mountainous; northerly slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	December 15, 1911.

December 16: At 8h 55m a.m.l.m.t.,I set off 38° 29' on the lat.arc; 23° 15'S.on the decl.arc; and determine

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	a meridian with the solar at the cor.of secs.8,9,16, and 17. Thence I retrace
	North bet.secs.8 and 9,
	Over mountainous land; through scattering cedar and pinon pine timber; descend.
1.80	Bottom of hollow, 50 ft.deep, course N.70° W.
	Ascend.
4.10	Top of ridge, 40 ft.above hollow, bears N.60° W. and S. 60° E. Descend.
7.00	Enter valley, bears E.and NW.
10.00	Wash, 5 lks.wide, 1 ft.deep, course NW.
	Ascend gently.
20.00	Top of ascent, bears NW. and SE.
	Descend gently.
30.50	Wash, 20 lks.wide, 2 ft.deep, in hollow, course N.80° W.
	Ascend gently.
38.00	Top of ridge, 40 ft.above wash, bears N.70° W. and S.70° E. Descend.
40.13	Fall ½ lk.E.of ¼ sec.cor., which is a sandstone 16 x 10 x 3 ins., set in mound of stone; poorly marked. In the place thereof I
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., marked on brass cap ¼ S 8 on W.half, and S 9 on E.half; from which
	A pinon pine, 12 ins.diam.bears N.52° 20'E.262 lks.dist., marked ¼ S 9 B T
	A cedar, 12 ins.diam.bears N.71°45'W.117 lks.dist. marked ¼ S 8 B T
40.60	Bottom of hollow, 30 ft.deep, course S.80° W.
	Ascend.
50.00	Top of ridge, 40 ft.above hollow, bears E.and W.
	Descend.
56.50	Bottom of hollow, 20 ft.below ridge, course S.80° W.
	Ascend.
63.00	Foot of ledges, bearing N.20° W. and S.20° E.
	Ascend abruptly.

SUBDIVISION OF T.27 S., R.23 E.

Chains.
71.00 Fall 1 lk.E.of witness cor., which is a sandstone 18 x 10 x 4 ins., set in a mound of stone,marked and witnessed as described by the surveyor general.

I destroy this corner,

80.00 Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.4,5,8, and 9, marked on brass cap

T 27 S S 5 in NW.
R 23 E S 4 in NE.
S 9 in SE.; and
S 8 in SW.quadrant; from which

A pinon pine, 6 ins.diam.bears N.10° 0'E.36 lks. dist., marked T 27 S R 23 E S 4 B T

A pinon pine, 8 ins.dia., bears S.19° 45'E.55 lks. dist., marked T 27 S R 23 E S 9 B T

A pinon pine, 10 ins.diam., bears S.44° 30'W.111 lks.dist., marked T 27 S R 23 E S 8 B T

A pinon pine, 8 ins.diam.bears N.65° 0'W.56 lks. dist., marked T 27 S R 23 E S 5 B T

Land, mountainous; westerly slope.

Soil, gravelly loam, 6 to 18 ins.deep, on rock or gravel subsoil.

Timber, scattering cedar and pinon pine.

Undergrowth, scattering sagebrush.

East on a random line bet.secs.4 and 9,

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.30 Intersect N.and S.line 49 lks.N.of cor.of secs.3,4,9,and 10. Thence I run

N.89° 39'W.on a true line bet.secs.4 and 9,

Over mountainous land; through scattering cedar and pinon pine timber and scattering sagebrush.

Descend gently, in bottom of Millcreek Canyon; through oak and rose brush.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
15.00	Leave canyon; begin abrupt ascent over ledges bearing N. 70° W. and S.70° E.
20.00	Top of abrupt ascent, S.edge of Millcreek Canyon, 175 ft. above bottom, bears N.70° W. and S.70° E.
	Continue ascent; through scattering cedar and pinon pine.
32.60	Top of spur, 150 ft.above edge of canyon, bears N.and S.
	Dec.16: At this point I set off 23° 16'S.on the decl.arc; and at 11h 55m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 29'
	Descend.
40.15	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone for ¼ sec.cor., marked on brass cap ¼ S 4 on N.half, and S 9 on S.half; from which
	A pinon pine, 8 ins.dia., bears N.62° E. 325 lks. dist., marked ¼ S 4 B T
	A pinon pine, 12 ins.diam.bears S.56° E. 294 lks. dist., marked ¼ S 9 B T
45.00	Begin abrupt descent, over ledges, bearing N.and S.
46.00	Bottom of canyon, 200 ft.below ¼ sec.cor., course N.10° W., drains into Millcreek.
	Ascend abruptly.
62.00	Top of ridge, 450 ft.above canyon, bears N.and S.
	Descend gently.
67.80	Swale, 60 ft.below ridge, course N.
	Ascend gently.
69.10	Top of ridge, 40 ft.above swale, bears N.and S.
	Descend over broken sandstone ledges.
80.30	The cor.of secs.4,5,8, and 9.
	Land, mountainous; northerly slope.
	Soil, poor gravelly loam, 6 to 12 ins.deep, on sandstone in place.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush and service berry.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	North on a random line bet.secs.4 and 5,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.50	Intersect N.bdy.of Tp.5 lks.W.of the cor.of secs.4,5,32, and 33, which is a sandstone 24 x 14 x 3 ins.marked and witnessed as described by the surveyor general.
	Set an iron post 3 ft.long, 3 ins.dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone in place of stone cor., for cor.of secs.4,5,32, and 33 marked on brass cap
	T 26 S R 23 E in N.half,
	T 27 S R 23 E in S.half,
	S 32 in NW.,
	S 33 in N.E;
	S 4 in SE.; and
	S 5 in SW.quadrant.
	I find that the NW.bearing tree is dead; therefore I take
	A cedar, 6 ins.dia.bearing N.41° 40'W.130 lks. dist., and mark it T 26 S R 23 E S 32 B T
	Leaving the other bearing trees.
	Thence I run
	S.0° 2'W.on a true line bet.secs.4 and 5,
	Over mountainous land; through cedar and pinon pine timber and scattering sagebrush. Descend gently.
6.00	Wash, 10 lks.wide, 1 ft.deep, course W.
	Ascend gently.
16.00	Top of ridge, 20 ft.above wash, bears E.and W.
	Descend.
23.50	Bottom of small canyon, 100 ft.below ridge, course W.
	Ascend.
25.00	S'edge of canyon, 60 ft.above bottom, bears E.and W.
	Ascend gently.
30.50	Foot of smooth sandstone ledge, bears E.and W.
34.00	Top of sandstone ridge, 250 ft.above foot , bears E.and W.
	Descend abruptly; over smooth sandstone ledge.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
35.50	Foot of ledge, 350 ft.below top, bears NE. and SW.
	Ascend over ledges.
40.50	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground and surrounded by a mound of stone, for ¼ sec. cor., marked on brass cap ¼ S 5 on W.half; and S 4 on E.half; from which
	A sandstone ledge,marked X B O S 4 bears E.14 lks. dist.
	A cedar, 3 ins.diam.bears S.39° W. 7 lks.dist., marked ¼ S 5 B T
43.50	Top of ledge spur, 75 ft.above ¼ sec.cor., bears E.and W. Descend.
49.50	Foot of ledges; enter bottom of Millcreek Canyon, bearing NW. and SE.
51.50	Millcreek 15 lks.wide, 1 ft.deep, in bottom of canyon, course N.60° W.
	Note: The proposed reservoir dam site of the Spanish Valley Land and Irrigation Company, is a short distance up stream (East) of this point.
	Ascend.
53.00	Begin abrupt ascent, over ledges bearing N.70° W. and S. 70° E.
56.00	South edge of Millcreek Canyon, 350 ft.above creek, bears N.70° W. and S.70° E.
	Ascend gently.
66.50	Top of red sandstone ridge, 100 ft.above edge of canyon, bears NW. and SE.
	Descend over broken sandstone ledges.
80.50	The cor.of secs.4,5,8, and 9, 300 ft.below ridge.
	Land, mountainous.
	Soil, poor, gravelly loam, 6 to 12 ins.deep, on sandstone; westerly drainage.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.

SUBDIVISION OF T.27 S., R.23 E.

Chains.	December 16, 1911. Eric H. Anderson U.S. Transitman.
	December 16: At 8h 55m a.m.l.m.t., I set off 38° 29' on the lat.arc; 23° 15'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.1,6,7, and 12, on the west bdy.of Tp., heretofore described.
	Thence I retrace
	East bet.secs.6 and 7,
	Over nearly level land; through scattering artemisia undergrowth; ascend gently.
5.80	Road from Moab to sawmill, bears N.30° W. and S.30° E.
14.50	Creek 15 lks.wide, 3 ins.deep, course N.40° W. furnishes water for ranches below.
37.93	Fall 5 lks.N.of $\frac{1}{4}$ sec.cor., which is a sandstone mkd.and witnessed as described by the surveyor general. I destroy it and in place thereof
	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 6 on N.and S 7 on S.half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.high N.of cor.
61.70	Old road, bears N.20° W. and S.20° E.
64.90	Old road bears N.20° W. and S.20° E.
66.60	Old ditch, course N.20° W.
66.80	Wash, 20 lks.wide, 6 ft.deep, course N.20° W.
68.40	Old ditch course S.30° W.
68.80	Old road bears NE. and SW.
78.06	Fall 10 lks.N.of cor.of secs.5,6,7, and 8; which is a trachyte 5 x.11 x 6 ins.above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore S.89° 56'E.78.06 chs.
	Set an iron post 3 ft.long, 2 ins.in dia.24 ins.in the ground, in place of stone, for cor.of secs.5,6,7, and 8, marked on brass cap

SUBDIVISION OF T.27 S., R.23 E.

Chains.	
	T 27 S S 6 in NW. R 23 E S 5 in NE. S 8 in SE.; and S 7 in SW.quadrants; raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor. Land, gently rolling; NW.slope. Soil, sand and gravelly loam, 1 to 3 ft.deep on gravel subsoil. Undergrowth, scattering artemisia. No timber.
	East, retracing bet.secs.5 and 8, Over rolling land; through artemisia ;descend gently.
13.50	Wash, 40 lks.wide, 8 ft.deep, course N.60° W. Ascend gently.
25.50	Leave valley; enter scattering timber, bears N.and S. Ascend.
34.00	Top of ridge, 50 ft.above foot, bears N.70° W. and S.70° E. Descend.
40.14	Fall 9 lks.N.of ¼ sec.cor., which is a sandstone 6 x 12 x 6 ins.above ground, marked and witnessed as described by the surveyor general. I destroy same. Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, to solid rock, and surrounded by a mound of stone, for ¼ sec.cor., (in place of stone), mkd.on brass cap ¼ S 5 on N.half, and S 8 on S.half;from which A pinon pine, 7 ins.dia.bears N.84° W. 24 lks.dist. marked ¼ S 5 B T A pinon pine, 8 ins.diam.bears S.17° E. 37 lks. dist., marked ¼ S 8 B T
46.50	Bottom of hollow, 45 ft.below ridge, course N.60° W. Ascend.
61.00	Top of ridge, 35 ft.above hollow, bears N.50° W. and S. 50° E. Dec.16: At this point, I set off 23° 16'S.on the decl.arc;

Chains.	
	and at 11h 55m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 29', which is very nearly the correct lat.
	Descend.
64.00	Bottom of hollow, 20 ft.below ridge, course S.
	Ascend.
70.36	Fall 3 lks.N.of old witness cor.to cor..of secs.4,5,8, and 9, which is a sandstone 18 x 8 x 6 ins.set in a mound of stone;marked and witnessed as described by the surveyor general. I destroy it.
	Note: This is the terminal of the old survey of this line from the west.
72.50	Begin abrupt ascent, over ledges, bearing N.and S.
75.50	Top of abrupt ascent and ledges, 300 ft.above the foot, bears N.10° W. and S.10° E.
	Ascend gently.
80.44	Fall 18 lks.N.of cor.of secs.4,5,8, and 9 .
	The course of this line is therefore S.89°52'E.80.44 chs.
	West 40.00 chs.rolling land; NW.slope.
	Soil, sand and gravelly loam, 1 to 2 ft.deep, on gravel subsoil.
	East 40.00 chs.mountainous land; west slope.
	Soil, gravelly loam, 6 to 12 ins.deep, on rock or gravel subsoil.
	Timber, cedar and pinon pine 54.94 chs.
	Undergrowth, scattering artemisia.
	From cor.of secs.5,6,7, and 8, I retrace North bet.secs.5 and 6,
	Over rolling land; through artemisia brush; descending gently.
.60	Old road, bears E.and W.
2.60	Old ditch, course NW.
6.60	Wash, 20 lks.wide, 4 ft.deep, course N.20° W.

Chains.	
19.00	Wash, 60 lks.wide, 4 ft.deep, course in hollow, 40 ft. below sec.cor., course W. Begin ascent, over mountainous land; enter scattering cedar and pinon pine, bearing E.and W.
40.14	Fall ~~2~~ 4 lks.E.of ¼ sec.cor., which is a badly disintegrated sandstone, which I destroy, and in its place Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, surrounded by a mound of stone, for ¼ sec.cor. marked on brass cap ¼ S 6 on W.half, and S 5 on E.half; from which
	A pinon pine, 14 ins.diam.bears S.50° 10'E.148 lks.dist., marked ¼ S.5 B T
	A pinon pine, 10 ins.diam.bears N.42° 20'W.70 lks. dist., marked ¼ S 6 B T
	Note: This ¼ sec.cor.is N.terminal of old survey on this line from the south.
41.90	Old road bears N.70° W. and S.70° E.
51.10	Top of sandstone ridge, 300 ft.above hollow, bears E.and W.; descend over ledges.
60.80	Bottom of hollow, 150 ft.below sandstone ridge, course N. 70° W.; ascend over ledges.
68.50	Sandstone ridge, 100 ft.above hollow, bears E.and W. Descend over ledges.
71.50	Gulch in solid sandstone 60 ft.below ridge, course N.80° W. Ascend over ledges.
80.50	Fall 11.06 chs.W.of the witness cor.on N.bdy.of Tp.which is a sandstone 6 x 12 x 6 ins.above ground, marked and witnessed as described by the surveyor general.
	Note: Cor.cannot be set at proper point; therefore at 11.10 chs.W.of witness corner, and 4 lks.W.of my north line, and 5 lks.E.of the true cor.point, I
	Set an iron post 3 ft.long, 3 ins.in dia., 12 ins.in the ground, and surrounded by mound of stone, for witness cor.to cor.of secs.5,6,31 and 32, marked on brass cap

Chains.

T 26 S R 23 E in N.half

T 27 S R 23 E in S.half,

S 31 in NW.

S 32 in NE.

S 5 in SE., and

S 6 in SW.quadrant; W C in W., from which

A pinon pine, 5 ins.diam., bears N.62° 0'E.54 lks. dist., marked W C T 26 S R 23 E S 32 B T

A pinon pine, 6 ins.diam., bears S.9° 30'E.110 lks.dist., marked W C T 27 S R 23 E S 5 B T

A pinon pine, 12 ins.diam., bears S.34° 20'W.201 lks.dist., marked W C T 27 S R 23 E S 6 B T

A sandstone ledge marked X B O S 31 bears N.59° 50'W.36 lks.dist.

Since the north line bet.secs.5 and 6 intersects the N. bdy.9 lks.E.of true cor.point, this line bears N.0°4' W.

South 20.00 chs.nearly level land, NW.slope.

North 60.00 chs. mountainous land; westerly slope.

Soil, sand and gravelly loam, 6 to 18 ins.deep, on rock or gravel subsoil.

Timber, scattering cedar and pinon pine 60.00 chs.

Undergrowth, scattering artemisia.

December 16, 1911.

Scott P. Stewart

U.S.Transitman.

GENERAL DESCRIPTION.

The fractional township embraced in this survey may be classed as mountainous land, the greater portion of which is very rough. The soil ranges from sand and gravelly loam in the valleys, to poor and stony, gravelly loam on ridges and slopes.

Cane Spring Canyon cuts through secs.31,32,33,and

34 in a westerly direction, and is dry. Cedar and pinon pine timber are found throughout these sections; also scattering sagebrush and grass. Said sections are fit for grazing only.

Millcreek Canyon cuts through secs.1,2,3,4,and 5 in a westerly direction, and is of box type, and very rough. Millcreek flows in the bottom of this canyon.

A small stream of fresh water, known as North Pack Creek, flows through secs.11 and 12, and joins Pack Creek below; and this creek runs through sec.16.

A proposed dam site of the Spanish Valley Land and Irrigation Company is located near the E.bdy.of sec. 4, in Millcreek Canyon. The object of said company is to divert water from a reservoir through the SE¼ of sec.5. A tunnel through a sandstone spur is proposed at this point of the canal; the water is then to be distributed over the "Poverty Flat" area.

Scott W. Stewart
Eric H. Anderson
U.S.Transitmen.

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Corrections in T.27 S., R 23 E

Chains.

The ¼ sec. cor. bet. secs. 29 and 32 is an iron pipe, 1 in. dia., 10 ins. above ground, firmly set, with brass cap erroneously mkd.

S 29
¼
S 32
1911

from which

A pinon, 7 ins. dia., bears S.54°E., 7 lks. dist., mkd. ¼ S.32 BT

A cedar, 12 ins. dia., bears N.70¾°E., 78 lks. dist., mkd. ¼ S 29 BT.

I destroy all marks of the cor. pertaining to sec. 32.

Thence I run

S.89°57'E., on true line, bet. secs. 29 and 32.

0.08 Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the ground to bed rock, and 8 ins. in a mound of stone, 2 ft. base, for ¼ sec. cor. on the N. bdy. S. 32, with brass cap marked

¼
S 32
1915

from which

A pinon, 12 ins. dia., bears S.70°E., 60 lks. dist., mkd. ¼ S 32 BT.

Dec. 8: It is impracticable to be on a meridian at apparent noon.

The cor. set erroneously for the ¼ sec. cor. bet. secs. 11 and 14, is an iron post, 1 in. dia., 10 ins. above ground, firmly set in a mound of stone, with brass cap mkd.

S 11
¼
S 14
1911

Corrections in T.27 S.,R.23 E

Chains	
	from which
	A pinon, 8 ins. dia., bears N.70°W., 24 lks. dist
	mkd. ¼ S 11 BT
	A cedar, 10 ins. dia., bears S.20°E., 37 lks.
	dist., mkd. ¼ S 14 BT
	I destroy all marks of the cor. that pertain to sec. 11.
	Thence I run
	N.89°54'E. on true line, bet. secs. 11 and 14.
0.31	Set a sandstone, 12 x 8 x 4 ins., 8 ins. in the ground,
	for ¼ sec. cor. on the S. bdy. of sec. 11, mkd. with
	¼ on the N. face, from which
	A pinon, 8 ins. dia., bears N.81°30'W., 55 lks.
	dist., mkd. ¼ S 11 BT
	Note. An iron post was not available for this cor.
	Cor. stands on W. side of top of spur, 5 ft. above the old
	¼ cor.
	December 8, 1915.
	Thos. C. Carthouse
	U. S. Transitman.

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants and final oath of Thos. C. Rathbone, U.S. Transitman, see book "M" T. 26 S., R. 22 E.

of the ..... Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

TRANSITMAN.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~.

I, Eric H. Anderson, U. S. ~~Surveyor,~~ Transitman do solemnly swear that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of the 7 day of Sept., 191 1, I have well, faithfully, and trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, surveyed all those parts or portions of Townships 25 South, Range 22 East and Township 27 South, Ranges 22 and 23 E East

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in books B.C.F.G.I. & J. the foregoing field notes as having been executed by me, and under my direction; and I do furth solemnly swear that all the corners of said survey have been established and perpetuated in strict accor ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Survey General for Utah and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

Eric H. Anderson
~~XXXXXXXXXX~~.
U.S.Transitma

Subscribed by said Eric H. Anderson, and sworn to before me this 21 day of September, 191 4

SEAL

U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

under his special instructions dated , 191 , having bee critically examined, and the necessary corrections and explanations made, the said field notes, and tl surveys they describe, are hereby approved.

U. S. Surveyor General.

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

U. S. Surveyor General.

4—680

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Scott P. Stewart & Eric H. Anderson, U.S. Transitmen ~~U. S. Surveyor,~~ during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of Townships 25 South, Ranges 21 and 22 E.; and Township 27 South, Ranges 22 and 23 East

of the Salt Lake Base and Meridian, in the State of Utah which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Lillman Dalley	Oct. 21, 1911.	Dec. 19, 1911	Lead Chainman
Ralph Hurst	Oct. 21, 1911.	Dec. 19, 1911	Rear Chainman
Orley Stewart	Oct. 22, 1911.	Dec. 18, 1911	Cornerman
Guy Hurst	Oct. 22, 1911.	Dec 18, 1911	Flagman
Levi Jones	Oct. 22, 1911	Dec 18, 1911	Axman
Edgar Hurst	Oct 22, 1911	Dec 19, 1911	Lead Chainman
Isaac Hayes	Oct 22, 1911	Dec. 19, 1911	Rear Chainman
Ezra Stewart	Oct. 22, 1911	Dec 18, 1911	Cornerman
Andrew J B Stewart	Oct 22, 1911	Dec. 18, 1911	Axman.
Vaughan Olsen	Oct. 22, 1911	Dec. 18, 1911	Flagman.

Subscribed and certified to before me on the dates of the final service as shown above.

Scott P. Stewart

~~U. S. Surveyor.~~
U.S. Transitman.

6—2764

TRANSITMAN.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~

I, Scott P. Stewart, U. S. ~~Surveyor~~ Transitman, do solemnly swear that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of the 7 day of September, 1911, I have well, faithfully, and tru in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, surveyed all those parts or portions of Township 25 South, Ranges 21 and 22 East ; and Township 27 South, Ranges 22 23 East

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in books A.D.E.F.G.H.I.& J. the foregoing field notes as having been executed by me, and under my direction; and I do furtl solemnly swear that all the corners of said survey have been established and perpetuated in strict acco ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Survey General for Utah and in the specific manner described in the field notes, and tl the foregoing are the original field notes of such survey.

Scott P. Stewart
U.S.Transitman. ~~U. S. Surveyor~~

Subscribed by said Scott P.Stewart, and sworn to before me this 27 day of April, 1912

SEAL

Thomas Hull
U.S.Surveyor-General for Utah..

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 31, 1916

The foregoing field notes of the survey of the Subdivisional lines of Townshi No.27 South, Range No.23 East of the Salt Lake Base and Meridian Utah

executed by Scott P.Stewart and Eric H.Anderson and Thomas C.Rath- bone under ~~his~~ their special instructions dated September 7, 1911 and supplemental special instructions dated Sept. 9, 1 ~~1912~~, having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

L. C. Thorsen
~~U. S. Surveyor General.~~

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

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U. S. Surveyor General.

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BOOK A-415

K.

U. S. Surveyor General's Office
FEB 25 1913
SALT LAKE CITY, UTAH.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION AND MEANDER LINES

OF

TOWNSHIP NO. 25 SOUTH,

RANGE NO. 22 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

JOHN W. DOUGALL

In the capacity of U. S. Surveyor, under instructions dated Sept. 7, *1911, issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* Sept. 19, *1911, pursuant to authority contained in the Act of Congress dated* ....., *191*...

Survey commenced September 19, *1912*

Survey completed October 22, *1912*

6—161

BOOK A-415

INDEX DIAGRAM.

Township ....., *Range* .....

6	5	4	3	2	1
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31	32	33	34	35	36

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Subdivision of T.25 S., R.22 E.

Chains.	
	Survey commenced Sept.19, 1912, and executed with a K.& E. transit No.20036,with solar attachment. The horizontal 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 latitude and declination arcs.
	The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, Sept.6, 1912.
	Knowing that the instrument is in perfect adjustment from recent observations on Polaris,(recorded in book "C"), Sept,19, 1912, at 8h 54m a.m.l.m.t., I set off 38°35'36" N.on the lat.arc; 1°28'N.on the decl.arc; and determine a meridian with the solar at the W.C.to S.C.for secs.35 and 36 on the Fifth Standard Parallel South of the Salt Lake Base and Meridian, which is an iron post 3 ins.in diam.1 ft.above ground, firmly set, and marked and witnessed as described by the surveyor general 1.25chs.W. of true point for S.C. Thence I run
	N.0° 01'W.bet.secs.35 and 36,
	Over rolling mts.land,W.slope; through scattering cedar and pinion timber.
10.00	Offset 1.25 chs.E.to true line bet.secs.35 and 36.
19.00	Ridge,150 ft.above cor., bears N.80°W.and S.80° E.
32.25	Old road, Moab to Mesa, bears E.and W.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in mound of stone, for ¼ sec.cor., with brass cap marked S 35 ¼ | S 36 1912
	from which
	A pinion tree, 14 ins.diam.bears S.80° E. 98 lks. dist., marked ¼ S 36 B T
	A pinion 8 ins.diam.bears S.62°20'W.70 lks.dist., marked ¼ S 35 B T
41.00	Head of draw,700 ft.below ridge, drains N.40° W.
51.75	Spur, 300 ft.above draw, projects N.60° W.

Subdivision of T.25 S., R.22 E.

Chains.	Thence very abrupt descent, over broken land and small ledges.
61.60	Bottom of "Nigger Bill" Canyon, 500 ft. below spur, drains N.70° W.; thence abrupt broken ascent.
75.00	Point of spur, 550 ft. above bottom of canyon, projects S. 20° W.
77.90	Begin very abrupt descent.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in mound of stone, for cor. of secs. 25, 26, 35, and 36, with brass cap marked

T 25 S | R 22 E
S 26 | S 25
S 35 | S 36
1912 from which

A pinion 6 ins. diam. bears N.55°E. 85 lks. dist. marked T 25 S R 22 E S 25 B T

A cedar 10 ins. diam. bears S.31°E. 87 lks. dist. marked T 25 S R 22 E S 36 B T

A pinion 5 ins. diam. bears S.60°30'W. 36 lks. dist. marked T 25 S R 22 E S 35 B T

A pinion 5 ins. diam. bears N.30° W. 18 lks. dist. marked T 25 S R 22 E S 26 B T

This cor. stands on a shelf of stone about 125 ft. below point of spur.

S 25 chs high rolling mts. land, S. slope; light, poor, sandy loam on sandstone base or subsoil. N. 55 chs. almost solid sandstone. Very broken.

Timber scattering scrubby cedar and pinion.

Mountinous land 80.00 chs.

Sept. 19, 1912: At this cor. I set off 1°25'N. on the decl. arc; and at 11h 54m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°36'

East on a random line bet. secs. 25 and 36,

40.00	Set temp. ¼ sec. cor.
80.24	Intersect E. bdy. of Tp. 30 lks. S. of cor. of secs. 25, 30, 31 and 36, which is an iron post, 3 ins. diam., 1 ft. above mound of stones, firmly set, marked and witnessed

Chains. as described by the surveyor general,

Thence I run

S.89°47' W on a true line bet. secs. 25 and 36.

Over broken stony mts. land through scattering cedar andpinion timber along S slope of spur.

5.50 Point of spur 30 ft . above cor. projects. S 20°W.

24.70 Draw 350 ft. below spur drains S.20° W .

39.00 Spur 375 ft. above draw projects S.20° W.

40.12 Set an iron post ,3 ft.long . 1 in.in dia. ,24 ins . in stone mound for 1/4 sec. cor. ,with brass cap marked

1/4
S 25
S 36
1912

From which

A cedar 8 ins. diam . bears N.57°45' E. 40 lks .dist. ,marked 1/4 S25 B.T.

A cedar 8 ins. diam. bears S45°E. 35 lks. dist., marked 1/4 S 36 B T

52.00 Draw 225 ft. below 1/4 secs. cor. drains S.20° W.

71.00 Spur 209 ft. oabove draw projects S 20° W.

80.24 The cor . of secs. 25,26,35 and 36.

Land very broken and rough practically no soil almost solid sand stone .

Timber scattering cedar and pinion.

Mountainous land 80.24 chs.

Sept. 19,1912.

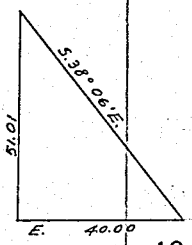
Sept. 25,1912, At 9 h 52 m a.m. l.m.t. I set off 38°36' on the lat. arc. 0° 53' S.on the decl.arc;and determine a meridian with the solar at the cor of secs. 25,26,35 and 36 .

Thence I run

N.0° 01'W. bet. secs. 25 and 26.

Over very broken ledgy mts. land .

Note: It is impossible to chain N. from this cor. on account of percipitiousledges ;therefore I erect a



Chains.

flagon line on top of ledges across canyon . From this flag a flag set at point of temp. 1/4 sec cor. bet secs. 25 and 36 bears S.38° 06' E.

I calculate the distance as follows ;

cotan 38° 0'6' X base or 1.27535 X 40.00 chs.=51.01

40.00 Point for ¼ sec.cor.;cor.not set.

51.01 Set an iron post 3 ft. long ,1 in.in dia. ,24 ins. in the ground for W.C.to 1/4 sec.cor.,with brass cap marked

T 25 S R 22 E
W.C 1/4
S 26 | S 25
1912

raise a mound of stone ,2 ft.base 1 1/2 ft. high , W of cor.,****

52.00 Spur projects S50° W.

59.00 Draw 300 ft. below spur drains S.55° W.

80.00 Set an iron post ,3 ft.long ,2 ins.in diam.24 ins.in ground for cor. of secs. 23,24,25 and 26,with brass cap marked

T 25 S | R 22 E
S 23 | S 24
S 26 | S 25
1912

From which

A cedar 7 ins. diam. bears N.36°30' E. 1.71 chs. dist. marked T 25 S R 22 E S 24 B T

A cedar 8 ins. diam. bears S.79°30' W. 58 lks. dist. marked T 25 S R 22 E S 26 B T

A cedar 6 ins. diam. bears N.33° W. 1.41 chs. dist. marked T 25 S R 22 E S 23 B T

No other trees in limits .

raise a mound of stone 2 ft. base 1 1/2 ft. high W of cor

S.70.00 chs. very broken and nearly solid sand stone

N. 10.00 chs. high S .slope soil gravelly 2 to 6 ins. deep ,coarse texture ,on sand and lime stone base .

Sparse growth of black brush ,

Timber scattering scrubby cedar and pinion.

Subdivision of T 25 S R 22 E

Chains	Mountainous land 80.00 chs.
	N.89° 47 E. on a random line bet. secs.24 and 25.
40.00	Set temp. 1/4 sec. cor.
	Sept. 25/. At this cor . I set off 0°55' S. on the decl. and at 11h52 m l.m.t. observe the sun on the meridian the resulting lat. is 38° 37'N.
80.14	Intersect E. bdy. of Tp. 28 lks. N.of cor. of secs. 19,24 25 and 30,which is an iron post 3 ins. diam. 1 ft. out of stone mound,marked and witnessed as described by the surveyor general.
	Thence I run
	S.89°59'W. on a true line bet. secs. 24 and 25.
	Over broken mts. land through scattering cedar and pinion timber.
22.00	Draw 600 ft. below cor. drains S 40° W.
40.07	Set an iron post ,3 ft. long, 1 in. in dia.,24 ins .. in the ground for 1/4 sec. cor. ,with brass cap marked.
	1/4 S 24 S 25 1912
	From which
	A cedar 10 ins. diam. bears S.87°W. 62 lks. dist . marked 1/4 S 25 B T
	A cedar 10 ins. diam. bears N.20°W. 45 lks.dist. marked 1/4 S 24 B T
46.00	Spur 250 ft. above draw projects S40° W.
68.25	Head of draw 75 ft. deep drains S.40° W.
78.00	Spur 100 ft . above head of draw projects S.45° W.
80.14	The cor. of secs. 23,24,25 and 26.
	High broken mts. land , soil light poor sandy loam coarse with some gravel on lime and sand stone base.
	Timber scattering scrubby cedar and pinion with a scattering growth of black brush .
	Mountainous land 80.14 chains.
	S Sept . 25 / 1912.

Subdivision of T 25 S R 22 E.

Chains	
	Oct 1,1912,
	N.0° 01' W. bet. secs. 23 and 24 .
	Over mts. land, through scattering cedar and pinion.
2.00	Head of draw 18 ft. below cor . drains S10° W.
23.00	Enter smooth sand stone ledges bears E and W.
31.70	Ridge 400 ft. above sec. cor. bears E.and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia. , 24 ins. in the ground for 1/4 sec . cor. ,with brass cap marked S 23 1/4 | S 24 1912
	From which
	A 8 ins. diam. bears S.62° 30' E. 33 lks. di st . marked 1/4 S 24 B T
	A cedar 10 ins. diam. bears S 79°45' W.19 lks, dist. marked 1/4 S 23 B T
46.00	Foot of ledges bears E.and W.
52.00	Draw 400 ft. below ridge, drains W.,
57.00	Low spur projects, W.
61.50	Main draw drains W.
80.00	Set an iron post, 3 ft.long, 2 ins. in dia. 24 ins. in a mound of stone for cor /.of secs. 13,14,23 and 24 with brass cap marked T 25 S | R 22 E S 14 | S 13 S 23 | S 24 1912
	From which
	A pinion 12 ins. diam. bears N.19°E. 28 lks. dist. marked T 25 S R 22 E S 13 B T
	A pinion 12 ins. diam . bears S.14° E. 1.73 .chs.dist. marked T 25 S R 22 E S 24 B T
	A pinion 8 ins. diam . bears S.48° W. 92 lks. dist . marked T 25 S R 22 E S 23 B T
	A pinion 14 ins. diam . bears N.68 °30'W.1.00 chs. dist. marked T 25 S R 22 E S 14 B T
	High broken mts. land ,light poor sandy soil with some gravel on sand and lime stone base
	Timber scattering cedar and pinion.

Subdivision of T 25 S R 22 E .

Chains.	
	Mountainous land 80.00 chains.
	Oct.1,1912, At this cor . 1 set off 3°15' S. on the decl arc and at 11 h 50. m l.m.t.. observe the sun on the meri meridian the resulting lat. is 38°38'
	N.89° 59' E. on a random line bet. secs. 13 and 24.
40.00	Set temp.. 1/4 sec. cor..
80.20	Intersect E.bdy.of Tp. 40 lks. S .of cor of secs. 13,18, 19 and 24. which is an iron post 3 ins. dia. firmly set in a mound of stone ,marked and witnessed as described by the surveyor general..
	Thence 1 run.
	S.89° 42' W. on a true line bet. secs. 13 and 24.
	Over broken mountainous land through scattering cedar and pinion timber .
4.00	Draw. 125 ft. below sec.cor. drains N.50° W.
18.00	Spur 200 ft. above draw projects N.30° W.
26.00	Draw 250 ft.below spur drains N. 20° W.
40.10	Set an iron post , 3 ft.long ,1 in. in dia. ,. 24 ins. in a mound of stonefor 1/4 sec. cor. ,with brass cap marked

1/4
S 13
S 24
1912

From which

A pinion 12 ins.diam. bears N.5° E. 18 lks. dist. marked 1/4 S 13 B T

A cedar 7 ins. diam. bears S40°W . 15 lks. dist. marked 1/4 S 24 B T

Oct. 1,1912, At 2 h 50 m p.m.l.m.t. ,1 set off 38°38' on the lat. arc ; 3°17 ' S on the decl.arc and determine a meridian withthe solar at the 1/4 sec. cor . bet. secs. 13 and 24 .

44.00	Spur 75 ft. above 1/4 sec. cor. projects N. 40° W.
80.20	The cor . of secs. 13,14 ,23 and 24,
	High broken mts. with practically no soil sand stone

chains	
	formation ,
	Timber scattering scrubby cedar and pinion.
	Mountainous land 80.20 chains.
	October.1,1912.

	Oct.7 ,1912 ,At 8 h 48 m a.m.l.m.t. I set off 38°38' on the lat. arc; 5° 30' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13,14,23 and 24.
	Thence I run
	N.0°01' W. ,bet. secs. 13 and 14 ,.
	Ascend over stony broken mts. land through scattering cedar and pinion timber.
12.00	Spur 350 ft. above cor .projects N.85° W. thence across top of spur descend gently .
40.00	Set an ironpost ,3 ft. long ,I in. in dia. ,,24 ins. in stone mound for 1/4 sec. cor. with brass cap marked .
	S 14 1/4 | S 13
	1912
	From which
	A cedar 14 ins. diam. bears N. 76° E. 62 lks. dist. marked 1/4 S 13 B T
	A pinion 8 ins. diam/ bears N.59° =W. 2 .06 chs. dist. marked 1/4 S 14 B T
42.00	Begin abrupt descent bears E . and W.
63.00	Draw 400 ft. below 1/4 sec. cor. drains N. 80° W. 10 00 chains then N.20°.W.
70.70	Spur 275 ft. above draw projects W.
75.00	Head of draw 150 ft.below spur drains W.
80.00	Set an iron post, 2 ins. dia. ,24ins. in stone mound for cor of secs.11,12 ,13 and 14 , with brass cap marked
	T 25 S R 22 E
	S 11 | S 12

	S 14 | S 13
	1912
	From which
	A pinion 12 ins. diam. bears N. 38° E. 1.01 chs.dist.

Subdivision of T.25 S.R.22 E.

Chains.	
	marked T.25 S R 22 E S 12 B T
	A pinion 8 ins. diam. bears S.21°30'E. 55 lks. dist.
	marked T 25 S R 22 E S 13 B T
	A pinion 11 ins. diam. bears S.10°30'W. 62 lks. dist.
	marked T 25 S R 22 E S 14 B T
	A pinion 16 ins. diam. bears N.32°30'W. 1 40 chs.dist.
	marked T 25 S R 22 E S 11 B T
	High stony broken mts. land almost solid sand stone.
	Timber scattering scrubby cedar and pinion.
	N.89°42'E. on a random line bet. secs.12 and 13.
40.00	Set temp. 1/4 sec. cor.
66.60	Top of rim rock bears N.45°W.and S.45°E.
	Note: It is impossible to chain farther E.on this line on account of precipitous ledges therefore
	1 offset as follows
	South 19 58 chs.
	Thence N.89°42'E. on offset line 13 50 chs
	which added to 66 60 chs. makes
80.10	Intersect E.bdy. of Tp. 19 lks. N. of W.C.to secs.7 , 12,13 and 18 ,which is an iron post, 3 ins. dia. firmly set in a mound of stone ,marked and witnessed as described by the surveyor general,
	Thence 1 run
	S.89°50'W. on offset line bet. secs. 12 and 13.
	Descend gently over broken mts. land through scattering cedar and pinion timber.
13.50	1 run N.19 58 chs. to a point on line bet.secs.12 and13
	Thence S.89°50'W. on a true line bet. secs. 12 and 13.
40.05	Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in a mound of stone for 1/4 sec.cor. with brass cap marked
	$\frac{S\ 1/4\ 12}{S\ 1912\ 13}$
	from which
	A cedar 10 ins, dia. bears N 3°W. 60 lks. dist.
	marked 1/4S12B T
	A cedar 6 ins. diam. bears S.67°E. 65 lks. dist.
	marked 1/4 S 13 B T

7 Oct. 7, 1912, At this cor. I set off 5° 34'S. on the decl.arc; and, at 11 h 48 m 1 m t., observe the sun on the meridian the resulting lat. is 38°39'

77.00 Small spur projects N.40°W.

80.10 The cor. of secs.11,12,13 and 14,.

High broken mts.land nearly solid sand stone formation.

Timber scattering cedar and pinion.

N.0°01'W. bet. secs. 11 and 12.

Over broken mts. land through cedar and pinion timber.

5.50 Spur 110 ft. above sec. cor. projects N.80°W.

14.00 Draw 200 ft. below spur drains W.

40.00 Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec.cor.with brass cap marked.

S 11 1/4 | S 12
1912

from which

A pinion 7 ins. diam. bears S.61°25'W.48 lks.dist. marked 1/4 S 11 B T.

A pinion 6 ins. diam. bears S.10°E.63 lks. dist. marked 1/4 S 12 B T.

43.00 Spur 450 ft. above draw projects W.

63.35 Small draw drains N.40°W.

70.00 Spur 150 ft. above draw projects N.80°W.

Thence abrupt descent.

80.00 Set an iron post, 3 ft.long, 2 ins. in dia.24 ins.in a stone mound for cor. of secs. 1,2,11 and 12, with brass cap marked

T 25 S	R 22 E
S 2	S 1
S 11	S 12

1912

from which

A pinion 7 ins. diam. bears N.53°20'E. 1 42 chs.dist. marked T 25 S R 22 E S 1 B T.

A pinion 12 ins. diam. bears S.79°E. 13 lks. dist. marked T 25 S R 22 E S 12 B T.

Subdivision of T.25 S.R.22 E.

Chains.

A pinion 6 ins.diam.bears S.62°30'W.2.90 chs.dist.
marked T 25 S R 22 E S 11 B T

A pinion 10 ins.diam., bears N.55°30'W.1.10 chs.dist.
marked T 25 S R 22 E S 2 B T

High,broken,stony,mts.land,sandstone formation; no soil.

Timber, scrubby cedar and pinion.

Mountainous land 80.00 chs.

October 7, 1912.

October 10, 1912; The sky is overcast and solar observations are impossible.

Records in the surveyor-general's office show that the line bet.secs.1 and 12 is 77.42 chs.in length;therefore I run, for distance only,

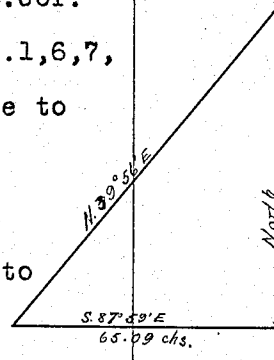
N.89°50'E.on a random line bet.secs.1 and 12,

15.00 Top of perpendicular ledges, 250 ft.above sec.cor.,bearing N.45° W. and S.45° E.

Note: It is impossible to chain further on this line, on account of precipitous ledges. A flag on the Tp.cor. bears N.39°56'E.; and a flag on the cor.of secs.1,6,7, and 12 bears S.87°59'E. I calculate the distance to the E.bdy.of Tp.as follows:

sin 52°05' : sin.39°56' :: 80.00 : X, or

$\frac{.64190 \times 80.00}{.78891}$ = 65.09 chs., which added to 15.00 chs.makes



80.09 Intersect E.bdy.of Tp.2,34 chs.N.of cor.of secs.1,6,7, and 12, heretofore described.

Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.1 and 12, with brass cap marked

T 25 S
S 1 | S 6
C C
S 12 | S 7
R 22 E | R 23 E
1912

from which

Subdivision of T.25 S., R 22 E.

Chains.	
	A lone cedar 8 ins.diam., bears S.42°35'W.1.20 chs. dist., marked T 25 S R 22 E S 12 B T
	No other trees within limits; raise a mound of stone 2 ft. base, 1½ ft.high W.of cor.
	I destroy all marks on cor.of secs.1,6,7, and 12, that pertain to secs.1 and 12. Thence I run S.89°50'W.on a true line bet.secs.1 and 12,
	Over gently rolling land sloping NW.
0.50	Wash, 10 ft.deep, drains N.
27.00	Begin ascent; also enter scattering cedar and pinion, bearing N.45°W. and S.45° E.
30.18	Foot of ledges, bearing N.45°W.and S.45° E. Being impracticable to chain further on this line I
	Set an iron post 3 ft.long, 1 in.in dia., 24 ins.in the ground, for witness cor.to ¼ sec.cor., with brass cap marked T 25 S R 22 E / S 1 / S 12 / 1912 o W C ¼ from which
	A cedar, 12 ins.diam.bears N.57°30'E.2.39 chs. dist., marked W C ¼ S 1 B T
	A cedar 14 ins.diam.bears S.51°E.3.35 chs.dist. marked W C ¼ S 12 B T
	From this witness cor.
	Mathias Martin's house bears N.8° E.
	NW.cor.of corral bears N.2°30'E.
	NW.cor.of orchard bears N.6°30'E.
	NE.cor.of cemetery bears N.9°30'W.
40.045	Point for ¼ sec.cor.; cor.not set.
65.09	Top of rim rock,1100 ft.above witness ¼ sec.cor., bears N.45°W.and S.45°E.
80.09	The cor.of secs.1,2,11 and 12.
	E.27 chs.gently rolling N.slope; soil, rich sandy loam wi some stones, 6 to 17 ins.deep, medium texture, dry, on sand and clay subsoil;good growth of grass,scattering growth of white sage.

Subdivision of T 25 S R 22 E .

Chains.	
	Stage : W.53.09 chs. very broken and ledgy ;practically no soil ,sand stone formation . Timber scattering scrubby cedar and pinion . Mountainous land 53 .09 chs.
	N.0° 01' W. on a random line bet. secs. 1 and 2 .
17.45	Top of rim rock bears N.45°W.and S.45° E. Note : It is impossible to chain farther on this line on account of percipitious ledges .
	In order to get distance to N.bdy. of Tp. 1 proceed as follows A flag on Tp. cor.bears N.53°06' E. and a flag on cor .of secs. 1,2,35 and 36 bears N.0°11'E. Therefore from these courses I get the following angles N.bdy. of sec.1 subtends an angle of 52°55' ,the remaining part of the W.bdy . of sec. 1 subtends an angle of 36°54' .I calculate the distance to N.bdy. as follows : $\frac{\sin 36°54' \times 80.00}{\sin 52°55'}$ or $\frac{.60042 \times 80.}{.79776}$ = 60.21 chs. which added to 17.45 chs. makes
77.66	Intersect N. bdy. of Tp. 19 lks. W.of cor of secs.1,2, 35 and 36 heretofore described . Thence I run S.0° 07'W.on a true line bet. secs. 1 and 2 . Over very stony broken mts. land ascend.
1.90	Telephone line Castleton to Wilcox Farm bears S.60°E. and N.60°W.
6.00	Begin abrupt ascent bears N.60°W. and S.60°E.
28.00	Spur 350 ft .above sec.cor. projects N.20°E.
32.50	Draw 75 ft.below spur drains N.20°E.
37.66	Set an iron post , 3 ft.long,1 in .in dia. ,24 ins. in the ground for 1/4 sec. cor. with brass cap marked S 2 1/4 | S 1 1912 raise a mound of stone 2 ft. base 1 1/2ft.high W.of

Chains. cor:***

60.20 Top of rim rock 13.00 ft. above sec. cor. bears N45°W. and S.45°E.

62.00 Enter scattering cedar and pinion bears N.45°W.and S.45°E

73.50 Head of draw drains W. 325 ft. below rim rock .

77.66 The cor .of secs. 1,2 11 and 12.

This mile is very broken and stony practically washed clean of soil ,sand stone formation ,.

Timber scattering cedar and pinion.

Mountainous land 77 66 chs.

October ,10,1912,

Sept. 20,1912, At 8 h 53m a.m.,l.m.t. ,I set off 38° 36' on the lat.arc; 1° 5' N. on the decl.arc and determine a meridian with the solar at the standard cor.of sec 34 and 35 ,on the S.bdy=.of the Tp.,which is an iron post 3 ins. dia. 1 ft. above ground ,marked and witnessed as described by the surveyor general, I run N.0°01'W. bet.secs. 34 and 35 .

Over rolling mts.land through scattering cedar & pinion.

8.75 Enter smooth sand stone ledges bears E.and W.

20.00 Top of spur 150 ft. above sec.cor. projects W.

36.65 Old road Moab to Mesa bears E.and W.

40.00 Set an iron post,3 ft,long ,1 in.in dia.,24 ins.in the ground for 1/4 sec. cor. ,with brass cap marked

S 34 1/4 | S 35
1912

From which

A pinion 16 ins. in diam. bears S.31°E .3.97 chs. dist. marked 1/4 S 35 B T

A cedar 6 ins. diam. bears S.87°W.1.10 chs. dist. marked 1/4 S 34 B T

51.00 Head of draw 150 ft. below 1/4 sec.cor. drains N.40°W.

56.00 Spur 160ft. above draw projects N.65°W.

60.00 Head of draw 125 ft. below spur drains N.75°W.

Subdivision of T.25 S.R.22 E.

Chains.	
70.00	Leave scattering cedar and pinion bears E.and W.
72.00	Top of spur 75 ft.belowhead of draw projects N.40°W.
80.00	Set an iron post,3ft.long ,2ins. in dia. ,24 ins. in the ground for cor.of secs. 26,27,34 and 35,with brass cap marked

T 25 S	R 22 E
S 27	S 26
S 34	S 35

1912

From which

A cedar 5 ins.diam. bearsN.24°06'E. 3.50 chs.dist. marked T 25 S R 22 E S 26 B T

A cedar 5 ins. diam. bears N. 15°25'W. 5.35 chs. dist. marked T 25 S R 22 E S 27 B T

No other trees in limits ,.

and raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor.

S.50 chs.,rolling mts .with smooth sand stone out-croppings ,:soil light poor coarse sandy loam 1 to 4 ins. de ep on sand stone base ; scattering growth of small black brush : N.30 chs. broken and hilly :very washed and stony sand stone formation drains,NW.

Timber scattering scrubby cedar and pinion .

Mountainous land 80 00 chs.

Sept.20,1912, At this cor . I set off 1° 02'N. on the decl. arc. and at 11 h 53 m l.m.t. observe the sun on the meridian the resulting lat. is 38°36! .

A flag at the cor. of secs.25,26,35 and 36,being plainly visible ,

I run for said cor.

East ,on a random line bet.secs. 26 and 35.

35.00 Top of S.bank of"Nigger Bill" Canyon perpendicular ledges .

Note: It is impossible to chain farther on this line ;therefore I

Set an iron post ,3 ft.long ,1 in. in dia. 24 ins. in

Subdivision of T 25 S.R.22 E.

Chains,

a mound of stone four witness cor.to 1/4 sec. cor . with brass cap marked

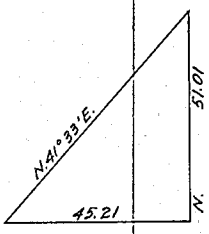
T 25 S R 22 E
S 26
---------o W C 1/4
S 35
1912

From which

A Pinion 6 ins. diam. bears S.85°W.75 lks. dist .marked W.C.1/4 S35 B T

A pinion 6 ins. diam. bears N.74°W. 56 lks. dist. marked W C 1/4 S 26 B T

In order to determine the distance to the cor. of secs. 25,26,35 and 36, I prceed as follows



A flag at the W.C. to 1/4 cor .bet.secs. 25 and 26 bears N.41°33'E. is 51.01 chs .N/ of cor. of secs. 25,26,35 and 36, I calculate the distance as follows .

Cotan.48°27' X base or .88628 X 51.01 =45.21 which added to 35.00 makes

80.21 Intersect N.and S. line at the cor. of secs. 25,26,35 and 36.

Thence I run

West on a true line bet. secs. 26 and 35.

Over very broken ledgy mts. land through scattering cedar and pinion timber, along N side of "Nigger Bill" canyon .

40.10 1/2 Would fall in ledges near the bottom of "Nigger Bill " canyon which drains N.80°W 400ft. deep. Cor.not set.

45.21 The W.C. to 1/4 sec. cor.

50.00 Leave scattering cedar and pinion bears N.80°W.and S.80 ° E.

80.21 The cor of secs. 26,27,34 and 35.

This mile is very broken and ledgy practically no soil sand stone formation

Timber scattering scrubby cedar and pinion.

Mountainous land 80.21 chs.

Sept. 20,1912.

Subdivision of T.25 S R 22 E.

Chains	
	Sept. 26, 1912.
	N. 0°01'W. bet. secs. 26 and 27.
	Over very broken ledgy mts. land. Descend.
7.00	Enter scattering cedar and pinon timber, bears E. and W.
12.50	S.bank of "Nigger Bill" Canyon, bears N.80°W.and S.80°E.
	NOTE: It is impossible to chain farther on this line on account of precipitous ledges; therefore I leave a flag at this point for back sight and proceed to a point on line on N. side of "Nigger Bill" Canyon. From this point a flag at W.C. to ¼ sec. cor. bet. secs. 26 and 35, which is 35.00 chs.E.of cor.of secs.26,27,34 and 35, bears S.31°22'E. I determine the distance to this point as follows:
	Cotan. 31°22' x base or 1.64041 x 35.00 chs.= 57.41 chs.
40.00	Point for ¼ sec. cor. falls in inaccessible canon; cor. not set.
57.41	Set an iron post, 1 in. in diam.,24 ins. in a mound of stone for W C to ¼ sec. cor. with brass cap marked

T 25 S R 22 E
W C ¼
S 27 | S 26
1912

from which

A pinon 4 ins. diam. bears S. 64°30'E., 39 lks. dist. marked W C ¼ S 26 B T.

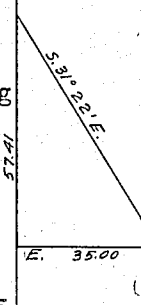
A pinon 12 ins. diam., bears N. 84°W., 31 lks. dist. marked W C ¼ S 27 B T.

75.00	Spur 900 ft. above "Nigger Bill" Canyon projects S.40°W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.,24 ins. in stone mound for cor.of secs. 22,23,26 and 27, with brass cap marked

T 25 S | R 22 E
S 22 | S 23
S 27 | S 26
1912

from which

A pinon 18 ins. diam. bears N. 46°E., 1.55 chs. dist. marked T 25 S R 22 E S 23 B T.



SUBDIVISION OF T. 25 S., R. 22 E.

CHAINS	
	A pinon 12 ins. diam. bears S. 42°E., 29 lks. dist. marked T 25 S R 22 E S 26 B T.
	A pinon, 10 ins. diam. bears S. 80°W., 62 lks. dist. marked T 25 S R 22 E S 27 B T.
	A pinon 14 ins. diam. bears N. 15°W., 3.00 chs. dist. marked T 25 S R 22 E S 22 B T.
	This is a very broken rough mountainous mile, practically washed clean of all soil, sandstone formation.
	Timber, scattering cedar and pinon.
	Mountainous land 80.00 chs.
	Sept. 26, 1912: At this cor. I set off 1°18'S. on the decl. arc. and at 11h 51m l.m.t., observe the sun on the meridian, the resulting lat. is 38°37'.
	East on a random line bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line 2 lks. S. of cor. of secs. 23, 24, 25 and 26.
	Thence I run
	S. 89°59'W. on a true line bet. secs. 23 and 26.
	Over rolling mts. land through scattering cedar and pinon.
3.00	Head of draw, 50 ft. below sec. cor. drains S. 30°W.
10.00	Enter mesa, bears N. 30°E. and S. 30°W.
22.00	Leave mesa, bears N. and S. Descend abruptly.
36.00	Draw 400 ft. below mesa, drains S. 40°W.
40.05	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in stone mound for $\frac{1}{4}$ sec. cor. with brass cap marked $\frac{1}{4}$ S 23 / S 26 1912 from which
	A pinon 7 ins. diam. bears S. 23°W., 1.83 chs. dist. marked $\frac{1}{4}$ S 26 B T.
	A cedar 5 ins. diam. bears N. 47°30'W., 55 lks. dist. marked $\frac{1}{4}$ S 23 B T.

Subdivision of T 25 S R 22 E

Chains.	
48.00	Spur 450 ft. above draw projects S.30°W.
57.00	Head of draw 250 ft. below spur drains S.30°W.
71.50	Spur 325 ft. above head of draw projects S.45°W.
80.10	The cor. of secs. 22,23,26 and 27,
	This cor. is 150 ft. below top of spur.
	E.22 chs. high rolling mesa land S slope ;soil light po poor sandy loam 2 to 4 ins. deep medium texture ,dry on sand and lime stone subsoil or base ;scattering growth of small black brush: W.58.10 chs. very broken and hill washed clear of soil sand stone formation.
	Timber scattering cedar and pinion.
	Mountainous or timbered land 80.10 chs.
	Sept. 26,1912.
	Oct2,1912, At 9 h 49 m a.m.l.m.t. I set off 38°37' on the lat. arc; 3°36'S.on the decl. arc; and determine a maridian with the solar at the cor . of secs. 22,23, 26 and 27 .
	Thence I run
	N.0° 01' W . bet. secs. 22 and 23 .
	Over broken mts. land through scattering cedar and pinion.
20.60	Draw 150 ft. below sec.cor. drains W.
27.50	ridge 125 ft. above draw bears N.80°W and S80°E.
36.00	Draw 325 ft. below ridge drains N.80°W.
39.00	Low spur 100 ft. above draw projects N.75°W.
40.00	Set an iron post,3 ft.long,1 in.in dia. 24 ins. in stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 22 | S 23 1912
	from which
	A cedar 10 ins. diam. bears S.67°E.38 lks dist.marked 1/4 S 23 B T
	A cedar 12 ins. diam. bears N.50°30'W.92lks. dist. Marked 1/4 S 22 B T

Subdivision of T 25 S R 22 E .

Chains.	
57.00	Draw 110 ft. below 1/4 sec. cor. drains W.
80.00	Set an iron post ,3 ft. long,2 ins. in.dia. 24 ins. in stone mound for cor. of secs. 14,15,22 and 23.with brass cap marked

T 25 S	R 22 E
S 15	S 14
S 22	S 23

1912

from which

A pinion 12 ins. diam. bears N.64°E 1.68 chs. dist. marked T 25 S R 22 E S 14 B T

A pinion 4 ins. diam. bears S.75°15'E. 1.70 chs. dist. marked T 25 S R 22 E S 23 B T

A pinion 10 ins. diam . bears N.72°30'W. 1.38 chs. dist. marked T 25 S R 22 E S 15 B T

No other trees in limits.

raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor.

This corn. is 350 ft. above draw.

This mile is broken and hilly ;ridges with light poor sandy loam ,washed on slopes ,stony ;valleys with poor sandy loam with gravel and decomposing sand stone subsoil sand stone .

Timber scattering scrubby cedar and pinion.

Mountainous land 80.00 chs.

Oct. 2 1912 , At this cor . I set off 3°38'S.on the decl arc; and at 11 h 49m l.mt. ,observe the sun on the meridian the resulting lat. is 38°38'.

	N.89°59'E. on a random line bet. secs. 14 and 23 .
40.00	Set temp . 1/4 sec. cor .
80.14	Intersect N.and.S.line,21 lks. S.of cor. of secs. 13,14 23 and 24 .

Thence I run

S.89°50'W. on a true line bet. secs. 14 and 23 .

Over rolling and broken stony mts. land S. slope.

Subdivision of T.25 S.R.22 E.

Chains	
	Through scattering cedar and pinion timber along foot of ridge.
36.50	Draw 200ft. below sec. cor. drains S.60°W.
40.07	Set an iron post, 3 ft.long,1 in.in dia. 24 ins. in stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 14 / S 23 1912
	from which
	A cedar 10 ins.diam. bears S.10°E.14 lks.dist.marked
	1/4 S 23 B T
	No other trees in limits.
	raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
53.00	Point of spur 275 ft. above 1/4 sec. cor. projects S.
58.00	Draw on S.slope 100 ft. below spur drains . S.
76.50	Point of spur on S. slope projects S. 150 ft. above draw
80.00	The cor . of secs. 14,15,22 and 23 .
	E.36. chs. rolling mts. S.slope;soil light poor sandy loam 3 to 4 ins. deep ,coarse texture . on sand stone base : W.44.14 chs. broken and very stony with little sand on sand stone formation .
	Timber scattering scrubby cedar and pinion.
	Mountainous or timbered land 80.00chs.
	Oct. 2,1912.
	Oct. 11,1912 , At 8 h47 m a.m.l.m.t. ,I set off 38°38' on the lat, arc; 7°02'S.on the decl.arc; and determine a meridian with the solar at the cor. of secs. 14,15,22 ad and 23.
	Thence I run
	N.0°01'W. bet, secs. 14 and 15 .
	Over broken stony mts. land through scattering cedar and pinion ascend.
14.00	Spur 100ft. above sec.cor. projects N.80°W.

Subdivision of T.25 S.R.22 E.

Chains.	
31.00	Begin abrupt descent bears E.and W.
34·00	Foot of same thence gentle descent bears E .and W.
40.00	Set an iron post ,3 ft.long ,1 in.in dia. 24 ins. in the ground for1/4 sec. cor. with brass cap marked 1/4 S 15 | S 14 1912 from which A cedar 6 ins.diam. bears N.52°35'E. 2.53 chs. dist. marked 1/4 S 14 B T A cedar 5 ins. diam. bears S54°I5'W. 2.28 chs. dist. marked 1/4 S 15 B T
58·00	Draw 2ooft.below 1/4 sec. cor. drains W.
72·00	Spur 3oo ft.above draw projects W.
80·00	Set an iron post,3 ft.long, 2 ins. in dia. 24 ins. in a stone mound for cor. of secs. I0,11,14 and 15,with brass cap marked T 25 S | R 22 E S I0 | S 11 S 15 | S 14 1912 from which A cedar 12 ins. diam. bears N.22°E. 2.30 chs.dist. marked T 25 S R 22 E S 11 B T A cedar I0 ins. diam. bears S.78°E. 1.77 chs. dist. marked T 25 S R 22 E S 14 B T A cedar 16 ins. diam. bears S.30°30'W. I.62 chs. dist. marked T 25 S R 22 E S 15 B T A pinion 14 ins. diam. bears N.35°15'W. 2.58 chs. dist. marked T 25 S R 22 E S I0 B T High rolling and broken mts. land ; soil sandy loam 2 to 4 ins. deep medium texture ,dry , on sandstone base drains W. Timber scattering scrubby cedar and pinion . Mountainous or timbered land 80.00 chs. Oct. 11, At this cor. I set off 7°05' S.on the decl.arc; and ,at 11 h 47 m l.m.t. observe the sun on the meridian the resulting lat. is 38°39'

Subdivision of T 25 S R 22 E

Chains.	
	N.89°50'E. on a random line bet. secs. 11 and 14 .
40.00	Set temp. 1/4 sec. cor.
80.16	Intersect N.and S. line 30 lks. N.of cor. of secs. 11,12 13 and 14.
	Thence I run
	N.89°57'W. on a true line bet. sec. 11 and 14 §.
	Descend rapidly over stony broken mts.land through scattering cedar and pinion timber.
9.00	Draw 275 ft. below sec. cor. drains N.80°W.
26.00	Spur 225 ft. above draw projects N.75°W. thence descend gently along N.slope.
40.08	Set an iron post,3 ft. long ,1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 11 / S 14 / 1912
	from which
	A cedar 10 ins. diam. bears S.14°E.32 lks. dist .marked 1/4 S.14 B T
	A pinion 8 ins. diam. bears N.29°45'W. 75 lks.dist. marked 1/4 S 11 B T
50.00	Small draw. 75 ft. below 1/4 sec . cor. drains N45°W.
80.16	The cor. of secs.10,11,14 and 15 .
	High rolling and broken mts. land sand stone formation with a thin layer of poor sandy loam in central portion.
	Timber scattering scrubby cedar and pinion.
	Mountainous land 80 16 chs.
	October, 11,1912.
	Oct. 12 ,1912
	N.0°01'W. bet. sec. 10 and 11 .
	Over broken mts. land W.slope through scattering cedar and pinion timber.
26.50	Draw 350ft.below sec.cor. drains N.80°W.
35.50	Point of low spur 75 ft. above draw projects W.

Subdivision of T 25 S R 22 E .

Chains.	
38.00	Small draw drains W.
39.50	Point of spur 80ft. high projects W.
40.00	Set an ironpost;3 ft.long,1 in.in dia. 24 ins. in stone mound for 1/4 sec.cor. with brass cap marked 1/4 S 10 | S 11 1912 from which A pinion 5 ins. diam. bears N.42°E. 20 lks. dist. marked 1/4 S 11 B T A pinion 6 ins. diam . bears S75°W. 35 lks . dist. marked 1/4 S 10 B T
49.50	Draw 150 ft. below 1/4 sec. cor. drains W.
71.50	Spur 325 ft. above draw projects N.80°W.
80.00	Set an iron post,3 ft.long,2 ins.in dia. ,24 ins. in a stone mound for cor. of secs. 2,3,10 and 11 ,with brass cap marked T 25 S | R 22 E S 3 | S 2 S 10 | S 11 1912 from which A pinion 6 ins. diam. bears N. 14°E. 66 lks. dist. marked T 25 S R 22 E S 2 B T A pinion 8 ins. diam. bears S.40°E. 1.75 chs. dist. marked T 25 S R 22 E S 11 B T A pinion 12 ins. diam. bears S29°W. 70 lks. dist. marked T 25 S R 22 E S 10 B T A pinion 16 ins. diam. bears N.41°W. 90 lks. dist. marked T 25 S R 22 E S 3 B T High broken and rolling mts. land sand stone formation covered with a thin layer of poor sandy loam 1 to 3 ins deep ,coarse texture . Timber scattering cedar and pinion. Mountainous land 80 00 chs.
	S.89°57'E. on a random line bet. secs. 2 and 11
40.00	Set temp. 1/4 sec. cor.

Subdivision of T 25 S R 22 E .

Chains.	
79.88	Intersect N.and S. line 7 lks. S.of cor. of secs: 1,2,11 and 12 ..
	Thence I run
	West on a true line bet.secs. 2 and 11 .
	Over very broken mts. land through scattering cedar and pinion timber and broken sand stone boulders.
15.50	Draw 275 ft. below sec. cor. drains N.30°W.
35.00	Spur 175 ft. above draw projects N.40°W.
39.00	Draw 100 ftbelow spur drains N.40°W.
39.94	Set an iron post ,3 ft.long,1 in.in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 2 / S 11 1912
	from which
	A pinion 12 ins. diam. bears S.37°20'E.70 lks. dist. marked 1/4 S 11 B T
	A pinion 6 ins. diam.bears N.30°20'W.25 lks. dist. marked 1/4 S 2 B T
	Oct. 12 ,1912 , At this cor.I set off 7° 28'S.on the decl. arc;and, at 11 h47 m l.m.t. observe the sun on the meridian the resulting lat. is 38° 40" ,or within 1' of the proper latitude.
45.00	Spur 80ft. above 1/4 sec. cor. projects N.10°W.
56.50	Draw 170ft.below spur drains N20°W.
79.88	The cor of secs. 2,3,10 and 11 /.
	This mile is very broken and stony N. slope sandstone formation ,soil coarse sandy loam 2 to 3 ins. deep. Timber scattering cedar and pinion.
	Mountainous land 79.88 chs.
	N.0°01'W.on a random line bet 2 and 3 .
40.00	Set. temp. 1/4 sec. cor.
77.75	Intersect N. bdy.of Tp. 17 lks. W.of cor. of secs. 2,3, 34 and 25 , heretofore described .

Subdivision of T25 S R 22 E .

Chains	
	Oct.12,1912, At 3 h 00m p.m.l.m.t. ,I set off 38°41'on the lat. arc; 7°30'S. on the decl.arc; and determine a meridian with the solar at the cor . of secs. 2,3,34 and and 35 on N bdy. of Tp.
	Thence I run
	S.0°00'6'W. on a true line bet. secs. 2 and 3 .
	Over mesa through scattering cedar and pinion timber and small black brush .
2.00	Leave mesa and black brush bears N.40°E.and S.40°W.
22.75	Draw 250ft. below mesa drains S.40°W.
37.75	Set an iron post,3 ft. long, 1 in.in dia. 24 ins. in a stone mound for 1/4 sec.cor. with brass cap marked
	1/4 S 3 | S 2 1912
	from which
	A cedar 12 ins. diam. bears N.62°E.97 lks.dist. marked 1/4 S 2 B T
	A cedar 8 ins. diam. bears S.87°W 2 00 chs.dist. marked 1/4 S. 3 B T
47.75	Spur I00 ft. above 1/4 sec.cor. projects N.60°W.
71.75	Draw 225 ft. below spur drains N.60°W.
77.75	The cor. of secs. 2,3,I0 and 11 .
	This cor is 110 ft. above draw.
	N.2 chs. high mesa land ,drains S.W.;Soil light poor s sandy loam 2 to 4 ins. deep on sand stone subsoil or base ;scattering growth of small black brush: S.75.75 chs. broken and hilly ; ridges washed clean of soil, valleys stony ,on sandstone base.
	Timber scattering cedar and pinion .
	Mountainous land 77.75 chs.
	Oct.12 ,1912.
	Sept. 21,1912,,At 9h 53 m a.m.l.m.t. I set off 38°36' on the lat.arc; 0° 39' N.on the decl .arc; and determine a meridian with the solar at the standard cor. of secs. 33 and 34 .

Subdivision of T 25 S R .22 E.

Chains.	
	which is an iron post ;3 ins. in dia. 12 ins .above ground ,marked and witnessed as described by the surveyor general , 1 run N.0°02'W. ,bet.secs. 33 and 34.
	Over rolling mts. land through scattering cedar and pinion timber, and numerous sand stone outcroppings.
3.40	Small draw 25 ft. below sec.cor. drains N.40°W.
7.20	Road Moab to Mesa bears N.80°W.and S.80°E.
9.50	Telephone line Moab to Mesa bears E and W.
17.90	Top of sand stone outcropping 75ft above draw bears E.&W
20.50	Old road Moab to Mesa bears E.and W.
21.50	Draw 100 ft deep drains N. 70°W.
36.00	Top sand stone outcropping or spur 110ft.high projects W
40.00	Set an iron post,3 ft.long ,1 in.in dia. 24 ins. in a mo mound of stone ,for 1/4 sec. cor. with brass cap marked

1/4 S 33 | S 34
1912

from which

A cedar 5 ins. diam. bears N.22°E. 86 lks. dist.
marked 1/4 S.34 B T

A cedar 10 ins. diam. bears S.76°W.70 lks. dist.
marked 1/4 S 33 B T

47.00	Draw 100 ft. below 1/4 sec. cor. drains N.60°W.
54.00	West end of sand stone outcropping on ridge 150ft.high projects W
66.00	Draw 350 ft. below sand stone point drains .N.70°W.
80.00	Set an iron post,3 ft.long,2 ins.diam. 24 ins. an a mound of stone for cor. of secs. 27,28,33 and 34,with brass cap marked

T 25 S	R 22 E
S 28	S 27
S 33	S 34

1912

from which

A cedar 7 ins. diam. bears S.17°10'E. 2.75 chs. dist.
marked T 25 S R 22 E S 34 B T

A cedar 8 ins. diam. bears S.75.W.3 00 chs. dist .
marked T 25 S R 22 E S 33 B T

Sudbivision of T.25 S.R.22 E.

Chains.	
	No other trees in limits.
	raise a mound of stone 2 ft.base 1 1/2 ft. high W.of cor.
	This mile is high rolling mts. land with smooth sand stone outcroppings ,practically no soil on sand stone base
	Timber scattering cedar and pinion .
	Mountainous or timbered land 80 00 chs.
	Sept.21: At this cor. I set off 0°37'N.on the decl.arc: and at 11h 53m l.m.t. observe the sun on the meridian the resulting lat. is 38°36'
	East on a random line bet. secs. 27 and 34.
40.00	Set temp. 1/4 sec. cor.
80.26	Intersect N.and S.line 7 lks. N.of cor. of secs. 26,27, 34 and 35.
	Thence 1 run .
	N.89°57'W.on a true line bet.secs. 27 and 34.
	Over broken stony mts. land.
10.50	Spur 110 ft. above sec. cor. projects N.40°W.
33.00	Draw 300 ft. below spur drains. N.40°W.also enter scattering cedar and pinion timber bears N.40°W.and S.40E
40.13	Set an iron post,3 ft.long, 1 in.in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 27 / S 34 1912
	from which
	A cedar 8 ins. diam. bears N.29°E.45 lks.dist. marked 1/4 S 27 B T
	A cedar 6 ins.diam. bears S.7°E. 46 lks. dist. marked L/4 S 34 B T
43.00	Spur 100 ft. above 1/4 sec. cor. projects.N.45°W.
49.00	Head of draw 150 ft. deep drains N.45°W.
64.50	Spur 230ft. above draw projects.N.60°W.
72.60	Draw 300ft.below spur drains N.60°W.
79.40	Spur 200ft. above draw projects. N. 60°W.

Subdivision of T.25 S. R.22 E.

Chains.	
80 26	The cor. of secs. 27,28,33 and 34.
	High broken mountainous land with smooth sandstone outcroppings on western portion, very little sandy soil on sand stone base.
	Timber scattering scrubby cedar and pinion.
	Mountainous or timbered land 80 26 chs.
	Sept.21,1912,
Sept.27:	N.0°02'W. bet. secs. 27 and 28.
	Over broken mountainous land through scattering scrubby cedar and pinion timber,
0.75	Top of sand stone spur 100 ft. above sec.cor. projects. N.60°W.
5.00	Draw 200ft. below spur drains N.50°W.
18.00	Spur 100ft. above draw projects N.50°W.
25.00	Nigger Bill canyon 600 ft. deep drains. N.85°W.
40.00	Set an iron post,3 ft.long,1 in. in dia.24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4 S 28 | S 27
1912

from which

A cedar 6 ins. diam. N.33°E 1.15 chs. dist.
marked 1/4 S 27 B T

A cedar 8 ins. diam. bears S.85°W. 18 lks. dist.
marked 1/4 S 28 B T

46.00	Spur 750 ft. above "Nigger Bill" canyon projects S.40°W.
66.00	Draw 150 ft. below spur drains S.40°W.
80.00	Set an iron post,3 ft.long, 2 ins. dia. 24 ins. in the ground for cor. of secs. 21,22,27 and 28, with brass cap marked

T 25 S | R 22 E
S 21 | S 22
S 28 | S 27
1912

from which

A cedar 12 ins. diam. bears N.38°15'E.2.10 chs.dist.
marked T 25 S R 22 E S 22 B T

Subdivision of T.25 S.R.22 E .

Chains.	
	A pinion 5 ins. diam. bears S.34°E.19 lks. dist. marked T 25 S R 22E S 27 B T
	A cedar 10 ins. diam. bears S.5°30'W. 2.13 chs. dist. marked T 25 S R 22 E S 28 B T
	A cedar 6 ins. diam. bears N.29°W. 44 lks. dist. marked T 25 S R 22 E S 21 B T
	High broken stony mts. land sand stone formation very little sandy soil on sand stone base .
	Timber scattering scrubby cedar and pinion .
	Mountainous land 80 00 chs.
	Sept. 27 , At this cor , I set off 1°42'S. on the decl. arc; and at 11 h 51 m l.m.t. observe the sun on the meridian the resulting lat. is 38°37'
	S.89°57'E.on a random line bet. secs: 22 and 27.
40.00	Set temp 1/4 sec. cor.
80.20	Intersect N.and S. line 5 lks. N. of cor .of secs. 22, 23,26 and 27.
	Sept. 27 , At 2 h00 mp.m.l.m.t. I set off 38°37' on the lat. arc;1°44'S.on the decl.arc; and determine a meridian with the solar at this cor.
	Thence I run.
	N.89°55'W.on a true line bet. secs. 22 and 27.
	Over broken and stony mts . land through scattering cedar and pinion timber.
20.00	Draw 500 ft. below sec.cor. drains S.20°W.
27.00	Spur 200ft. above draw projects.S.40°W.
36.00	Head of draw 150 ft. below spur drains.S.70°W.
40'10	Set an iron post,3 ft. long, 1 in.in dia. 24 ins. in at stone mound for 1/4 sec. cor. with brass cap marked

$$\frac{\text{S} \quad 1/4 \quad 22}{\text{S} \quad 27}$$
1912

from which

A cedar 6 ins. diam. bears S.62°30'W.1.15 chs. dist. marked 1/4 S. 27 B T

Subdivision of T.25 S .R.22 E.

Chains.	
	A cedar 10 ins. diam. bears N.37°W.1.10 chs. dist. marked 1/4 S 22 B T
44.00	Point of spur 75 ft. above 1/4 sec. cor. projects.S.80°W
68.00	Draw 450 ft. below spur drains.S.50°W.
80.20	The cor.of secs.21,22 ,27 and 28 .
	High broken mts. land with light poor sandy soil on ride ridges sand stone formation washed and stony slopes .
	Timber scattering.cedar and pinion .
	Mountainous land 80.20 chs.
	Sept. 27, 1912.
	Oct. 3, 1912 , At 9 h 49 m a.m.l.m.t. I set off 38°37' on the lat.arc; 3°59'S.on the decl. arc. and determine a meridian with the solar at the cor. of secs.21,22,27and 28.
	Thence I run
	N.0°02'W. bet.secs. 21and 22 .
	Over broken mts. land through scattering cedar and pininn timber .
16.00	Spur 200ft. above sec. cor. projects. S.30°W. also leave scattering cedar and pinion timber bears E.and W.
32.00	Head of draw 75 ft. deep. drains W.
39.00	Ridge 500ft. above sec. cor. bears N.80°W and S80°E.
40.00	Set an iron post,3 ft.long,1 in.dia .,24 ins. in a stone mound for 1/4.sec..cor. ,with brass cap marked 1/4 S 21 | S 22 1912 raise a mound of stone 2 ft.base 1 1/2 ft. high W. of cor.
51.00	Draw 250 ft.below 1/4 sec.cor. drains N.80°W.
55.00	Enter scattering scrubby cedar and pinion timber.bears E and W.
80.00	Set an iron post ,3 ft .long ,2 ins. dia. 24 ins. in a stone mound for cor.of secs. 15,16 21 and 22 ,with brass cap marked

Subdivision of T.25 S.R.22 E.

Chains.	
	T 25 S | R 22 E S 16 | S 15 S 21 | S 22 1912
	from which
	A pinion IO ins. diam. bears N.44°30'E.1.15 chs. dist.
	marked T 25 S R 22 E S 15 B T
	A cedar 12 ins. diam. bears S.50°15'E.1.85 chs. dist.
	marked T 25 S R 22 E S 22 B T
	A cedar 11 ins. diam. bears S.82°W. 58 lks. dist.
	marked T 25 S R 22 E S 21 B T
	A pinion IO ins. diam. bears N48°30'W. 1.58 chs. dist.
	merked T 25 S R 22 E S 16 B T
	High broken stony mts. land with thin layer of sandy soil on sand stone base or subsoil .
	Timber scattering cedar and pinion .
	Mountainous land 80 00 chs.
	Oct.3, 1912, At this cor. I set off 4°02'S.on the decl. arc; and at 11h 49 m l.m.t. ,observe the sun on the meridian the resulting lat. is . 38°38'
	S.89°55'E.on a random line bet.secs. 15 and 22.
40.00	Set temp. 1/4 sec.cor.
80.10	Intersect N.and S. 21.lks. N.of cor of secs. 14,15,22 and 23,
	Thence I run
	N.89°46'W.on a true line bet.secs. 15 and 22 .
	Over broken stony mountainous land through scattering cedar and pinion timber.
	Descend along broken S. slope .
12.00	Draw 200 ft.below sec.cor. drains S.10°W.
21.00	Spur 150 ft.above dra w projects S.20°W.
33.00	Draw 300 ft. below spur heads N.20°E. and drains N.70°W
40.05	Set an iron post,3 ft.long 1 in.dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

Subdivision of T.25 S.R.22 E.

Chains.	
	1/4 S 15 S 22 1912
	from which
	A pinion 12 ins. diam. bears north 70 lks. dist. marked 1/4 S. 15 B T
	A cedar 6 ins. diam. bears S.10°W. 35 lks. dist. marked 1/4 S 22 B T
74.00	Spur 250 ft. above 1/4 sec. cor . projects N. 60°W.
80.10	The cor. of secs. 15,16,21 and 22.
	High broken stony mts. land with a thin layer of sandy soil on ridges ,slopes washed and stony,sand stone formation .
	Timber scattering scrubby cedar and pinion .
	Mountainous land 80.10 chs.
	Oct. 3, 1912,
	October 14 , 1912 , At 9 h 46 m,a.m.l.m.t. I set off 38° 32' on the lat. arc; 8°11.S on the decl.arc; and determine a true meridian with the solar at the cor. of secs. 15 ,16 ,21, and 22,.
	Thence I run .
	N.0°02'W. bet.secs. 15 and 16 .
	Over broken stony mountainous land through scattering scrubby cedar and pinion timber.
6.00	Spur 75 ft. above sec. cor. projects N.60°W.
16.50	Draw 400 ft. below spur drains N.60°W.
39.00	Point of spur 300 ft. above draw projects N.60°W.
40.00	Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 16 | S 15 1912
	from which
	A cedar 12 ins. diam. bears N.85°E.14 lks. dist. marked 1/4 S 15 B T
	AA pinion 5 ins. diam .bears S.20°W. 1.20 chs. dist.

Subdivision of T.25 S.R.22.

Chains.	
	marked 1/4 S 16 B T
40.30	Top of rim rock bears N. 30°E.and S.30°W.
	Note: It is impossible to chain N.from here on account of percipitious ledges ;therefore I erect a flag on line at this point and proceed to a point on line below ledges ,from which I measure a base West I0.00chs to a point from which flag on rim rock bears S.30°32'E. I calculate the distance across ledges as follows : Cotan. 30°32' X base or 1.69541 X10.00= 16 95 chs. which added to 40 30 chs. makes
57.25	Foot of ledges 900ft. below 1/4 sec.cor. bears N.30°E. and S.30°W. Also leave scattering timber bears E.and W.
66.50	Road Moab to Cisco bears N.4°E.and S.40°W.
67.57	To left bank of Grand River.
	Set an iron post, 3ft.long ,1 in.in dia. 24 ins. in the ground,for meander cor. of fracl.secs. 15 and 16 ,with brass cap marked

T 25 S R 22 E.
M C
S 16 S 15
1912

raise a mound of stone 2 ft.base 1 1/2 ft. high ~~W~~ of cor.

High broken stony mts .land practically no soil sand stone formation.

Timber scattering scrubby cedar and pinion .

Mountainous land 67 57 chs.

Oct. 14 ,At this cor. I set off 8°12'S on the decl. arc; and, at 11 h 46 m l.m.t. ,observe the sun on the meridian the resulting lat. is 38°39'

West on a true line bet. secs. I0 and 15.

Over broken stony mts.land through scattering cedar and pinion timber.

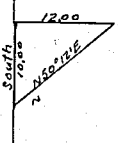
25.00 Leave scattering timber bears N.and S.

Subdivision of T 25 S.R.22 E.

Chains:

26.20 Top of rim rock bears N.and S.

Note: It is impossible to chain farther W.from here on account of percipitious ledges ;therefore I erect a flag on line at this point and proceed to a point on line below ledges ,from which I measure a base S. 10.00chs. to a point from which flag on ledges bears N.50°12'E. ; I calculate the distance to top of ledges as follows : Tan. 50°12' x base or 1.20024 X 10.chs=12.00 chs. which added to 26 20 chs. makes



38.20 Foot of ledges 875 ft. below flag bears N.and S.

40,00 Set an iron post, 3 ft. long , 1 in. in dia. 24 ins. in the ground for 1/4 sec. cor.,with brass cap marked

1/4
S 10
S 15
1912

raise a mound of stone 2 ft.base 1 1/2 ft. high N.of cor

47.00 Foot of abrupt descent bears N.and S.

61,75 Wash 75 ft. deep drains N.60°W.

67.25 Low spur projects N.60°W.

70,10 To left bank of Grand River.

Set an iron post, 3 ft.long,1 in.in dia .24 ins. in the ground for meander cor .of fracl.secs. 10 and 15 , with brass cap marked

T 25 S R 22 E

M C
S 10
S 15
1912

from which

A boulder 10 X 8 X6 ft above ground bears N.89°30'E.301k marked (+) B O S 10

A sand stone boulder 5 X 4 X 3 ft. above ground bears S.5°30'W. 75 lks. dist. marked (+) S15 B O

Very broken mts. land ,ridges with light poor sandy soil on sand stone base slopes broken and very stony , valley or Grand Canyon very stony with light poor sandy soil dry , on gravel and sand stone base .

Subdivision of T.25 S.R.22 E.

Chains.	Oct. 14,1912.
	Oct.15, 1912, At 8 h 46 m a.m.l.m.t. I set off 38°4 0' on the lat. arc; 8°32'S.on the decl. arc; and determine a meridian with the solar at the cor . of secs..2,3,10 and 11 ,
	Thence I run
	West on a true line bet. secs. 3 and 10.
	Over very broken mts. land through scattering cedar and pinion timber.
2.00	Spur 100ft.above sec.cor . projects N.40°W.
12.20	Top of rim rock bears N.20°E. and S.20°W.leave timber.
	Note:It is impossible to chain W. from here on account of percipitious ledges ;therefore I erect a flag on line at this point and procee d to a point on line , from which I measure a base S.8 00 chs. to a point from which flag on ledges bears N.51°21'E. ; I calculate the distance across ledges as follows :
	Tan. 51°21' X base or I.25044.X 8.00.= 10.00 chs which added to 12 20 chs. makes
22.20	Foot of ledges 400 ft .below flag bears N. 20°E.and S. 20°W.
33.00	Draw 300 ft. below foot of ledges drains N.60°W.
40.00	Set an iron post,3 ft.long, 1 in.in dia. 24 ins. a stone mound for 1/4 sec. cor. with brass cap marked 1/4 S 3 S 10 1912
	raise a mound of stone 2 ft.base 1 1/2 ft. high N.of cor.
46.00	Point of spur 200 ft.above draw projects N.40°W.
61.00	Draw 500 ft. below spur drains S.60°W.
80.00	Set an iron post ,3 ft.long, 2 ins. in dia,.24 ins. in the ground for cor. of secs. 3,4,9 and 10 , with brass cap marked T 25 S | R 22 E S 4 | S 3 S 9 | S 10 1912

10.00
South 8.00 North

Subdivision of T.25 S.R.22 E.

Chains	
	from which
	A lone cedar 8 ins. diam. bears N.82°W. 43 lks. dist.
	marked T 25 S R 22 E S 4 B T
	No other trees in limits,
	raise a mound of stone 2 ft.base ,1 1/2 ft.high W.
	of cor.
	High broken stony mts. land with a very thin layer of
	sandy soil on ridges , slopes and valleys washed and
	stony sand stone formation .
	Timber scattering cedar and pinion.
	Mountainous land 80 00 chs.
	S.0°02'E. on a true line bet. secs. 9 and IO
	Over broken stony mts. land ,descend abruptly ,
10.00	Foot of abrupt descent bears E and W. thence gentle
	descent across bottom of Grand Canyon.
13.25	Road Moab to Cisco bears N80°W.and S.80°E.
15.00	To left bank of Grand River.
	Set an iron post, 3 ft.long ,1 in. in dia. 24 ins. in
	the ground for meander cor. of fracl.secs. 9 and IO
	with brass cap marked
	T 25 S R 22 E S 9 S IO M C 1912
	From which
	A lone cottonwood 16 ins. diam. bears N.38°W. 95 lks.
	dist. marked T 25 S R 22 E S 9 M C B T
	An oak 8 ins. diam. bears S.65°15'E. 1.31 chs. dist.
	marked T 25 S R 22 E S IO M C B T
	N.IO chs: very broken and stony almost solid sand stone
	S.5.chs. bottom land , soil ,light poor sandy loam
	7 to IO ins. deep dry, on sand stone subsoil. No timber.
	Mountainous land 15 00 chs.
	Oct.15, At this cor. I set off 8°35' S. on the decl arc
	and at 11 h 46 m l.m.t. ,observe the sun on the meridian

Chains.	the resulting lat. is. 38°40'
	N.0°02'W.,on.a random line bet. secs. 3 and 4 .
	Note ;It is impossible to chain N.from the cor. of secs. 3,4,9 and I0 ,on account of percipitious ledges ;therefore I erect a flag at this cor. and proceed to a point on line on top of ledges , from which point a flag at 1/4 sec.cor . bet. secs. 3 and I0 bears S.65°56'E.; I calculate the distance to top of ledges as follows.
	Cotan. 65°56' X base or .44662 X 40.= 17 86 chs.
17.86	Top of rim rock. I000 ft. above sec.cor.
40.00	Set temp 1/4 sec. cor.
77.50	Intersect N. bdy. of the Tp.2 lks. E.of cor. of secs. 3, 4,33 and 34, heretofore described.
	Thence I run S.0°03'E.
	S.0°03'E.,on a true line bet. secs. 3 and 4.
	Over mesa through scattering cedar and pinion timber.
I0.00	Head of draw 50ft. deep drains S40°W.
34.50	Leave mesa begin abrupt ledgy descent bears. E and W.
37.50	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins.in a stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 4 | S 3 1912
	from which
	A cedar 6 ins. diam. bears N 59°E.77 lks. dist. marked 1/4 S 3 B T
	A cedar 6 ins.diam.bears S47°W. 37 lks. dist. marked 1/4 S 4 B T
58.00	Leave scattering timber bears E and W.
59.64	Top of rim rock bears E and W.
77.50	The cor .of secs. 3,4,9 and I0.
	N.34 50 chs. high mesa S.W.slope ;soil light poor sandy loam ,2 to 4 inches deep ,coarse texture ,dry ,on sand stone subsoil or base thin growth of grass and cactus.

Subdivision of T.25 S.R.22 E.

Chains.	
	S.43. chs. broken ,hilly and ledgy almost solid sand stone.
	Timber scattering cedar and pinion.
	Mountainous or timbered land 77.50 chs.
	Oct.15, 1912.
	Sept. 23 ,1912 , At 9 h 52 m a.m.l.m.t. I set off 38°36' on the lat. arc; 0°06'S. on the decl. arc; and determie a meridian with the solar at the standard cor. of secs. 32 and 33, which is an iron post,3 ins. in.dia. 12 ins. above ground marked and witnessed as described by the surveyor-general.
	Thence I run
	N.0°03'W. bet.secs. 32 and 33 .
	Over nearly level land across"Sand Flat" through scattering cedar and pinion timber.
10.22	Telephone line Moab to Mesa bears E.and W.
11.60	Road Moab to Mesa bears E.and W.
30.00	Head of draw drains N.10°E.
40.00	Set an iron post ,3 ft.long,1 in.in dia. 24 ins. in the ground for 1/4 sec. cor. with brass cap marked 1/4 S32' | S 33 1912 from which A cedar 5 ins. diam. bears S.60°E. 3.20 chs. dist. marked 1/4 S 33 BT A cedar 14 ins. diam. bears N.3°W.I.31 chs. dist. marked 1/4 S 32 B T
44.00	Draw 75 ft. below 1/4 sec. cor. drains W.
45.00	Enter smooth sand stone outcroppings bears E and W.
48.75	Top of smooth sand stone spur projects W.
52.75	Draw II0 ft. below spur drains S.85°W.
80.00	Set an iron post,3 ft.long, 2 ins . dia. 24 ins. in the ground for cor.of secs. 28,29,32 and 33 , with brass cap marked

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Subdivision of T 25 S R 22 E.

Chains.	
	T 25 S R 22 E S 29 | S 28 S 32 | S 33 1912
	from which
	A cedar 10 ins. diam. bears N.56°E.2.44 chs. dist. marked T 25 S R 22 E S 28 B T
	A cedar 8 ins. diam. bears S.64°45'E. 1.60 chs. dist.. marked T 25 S R 22 E S 33 B T
	A pinion 9 ins. diam. bears S.60°45'W.1.16 chs. dist. marked T 25 S R 22 E S 32 B T
	A cedar 6 ins. diam. bears N.56°30'W. 1.65 chs.dist. marked T 25 S R 22 E S 29 B T
	S.30 chs: high rolling mesa , soil light poor sandy loam , 4 to 15 ins. deep,medium texture ,dry,on sand stone subsoil ;very thin growth of sand grass:N.50 chs. broken and hilly ; ridges nearly solid sand stone , washed on slopes , valleys with light poor sandy soil on sand stone subsoil,
	Timber scattering cedar and pinion.
	East on a random line bet. secs. 28 and 33 .
40.00	Set temp 1/4 sec. cor.
	Sept.23 ,At this cor.I set off 0°08'S. on the decl.arc and at 11 h 52 m l.m.t. ,observe the sun on the meridian the resulting lat. is 38°336'
80.12.	Intersect H.and S. line 2 lks. S.of cor. of secs. 27,28 33 and 34.
	Thence I run
	S.89°59'W.on a true line bet. secs. 28 and 33 .
	Over rough stony broken mts. land through scattering cedar and pinion timber.
13.40	Draw 425 ft. below sec. cor. drains N. 50°W.
28.60	Top of sand stone spur 300 ft. above draw projects N. 45°W..
32.00	Enter high rolling mesa land bears N.50°W.and S.50°E.
40.06	Set an iron post ,3 ft.long, 1 in.in dia. 24 ins. in

Subdivision of T 25 S R 22 E .

Chains.	
	the ground for 1/4 sec. cor.,with brass cap marked 1/4 S 28 S 33 1912 from which A cedar 8 ins. diam. bears S.29°30'W. 2.45 chs. dist. marked 1/4 S 33 B T A cedar 8 ins. diam. bears N.47°30'W.1.97 chs. dist. marked 1/4 S 28 B T
80.12	The cor. of secs. 28,29,32 and 33 . E. 32 chs. broken and stony mts. land. almost solid sand stone formation W.48 12 chs. high rolling mesa N.W. slope ,soil light ,poor ,sandy loam , on sand stone sub-soil ,; with very scant growth of sand grass and small black brush. Timber scattering cedar and pinion. Mountainous land 32 chs. Sept. 23, 1912.
	Sept.28, 1912.: N.0°03'W. bet. secs. 28 and 29. Over high rolling mesa through scattering cedar and pinion timber.
20.00	Leave mesa enter broken mts. land bears E.and W.
24.50	Begin very abrupt descent bears E.and W.
38.00	Bottom of"Nigger Bill" canyon 500 ft. below mesa spring branch 4 ft.wide 3 ins. deep runs N.45°W. 20 chs. thence S.60°W.
40.00	Set an iron post, 3 ft. long ,1 in.in dia. 24 ins. in a mound of stone for 1/4 sec. cor. with brass cap marked 1/4 S 29 | S 28 1912 from which A cedar 10 ins. diam. bears S.65°E.22 lks. dist. marked 1/4 S 28 B T A cedar 8 ins. diam. bears S.53°W.30 lks. dist.

Subdivision of T.25 S.R.22 E.

Chains.	
	marked 1/4 S 29 B T
50.50	Point of spur 250 ft. above "Nigger Bill" canyon projects S.40°W.
55.00	Draw 150 ft. below spur drains S.40°W.
69.70	Spur 500 ft. above draw projects S.40°W.
80.00	Set an iron post ,3 ft.long, 2 ins. in dia. 24 ins. in a stone mound for cor. of secs. 20,21 ,28 and 29,with brass cap marked,

T 25 S	R 22 E
S 20	S 21
S 29	S 28

1912

from which

A pinion IO ins. diam. bears N.70°E.1 68 chs. dist.
marked T 25 S R 22 E S 21 B T

A pinion 20 ins. diam. bears S.36°E.1.08 chs. dist.
marked T 25 S R 22 E S 28 B T

A cedar 12 ins. diam. bears S.62°W.1.21 chs. dist.
marked T 25 S R 22 E S 29 B T

A cedar 7 ins. diam. bears N.30°30'W. 1.20 chs. dist.
marked T 25 S R 22 E S 20 B T.

S 20 chs. high rolling mesa ,soil light poor sandy loam ,underlayed with solid sand stone .

N.60.chs. very rough and broken almost solid sand stone formation.

Timber scattering cedar and pinion .

Mountainous or timbered land 80 00 chs.

Sept.28,1912, At this cor. I set off 2° 05'S.on the decl arc;and, at 11 h 51 m l.m.t. observe the sun on the meri mreidian the resulting lat. is 38°37' or within I'of proper lat.

	N.89°59'E.on a random line bet.secs. 21 and 28.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N.and S. line 2 lks. N.of cor. of secs.21,22 27 and 28 .
	Sept.28 ,1912, At 2 h 00 m p.m.l.m.t. ,I set off 2°07' S

Subdivision of T 25 S R 22 E .

Chains.	
	on the decl. arc; 38°37' on the lat. arc; and determine a meridian with the solar at the cor .of secs. 21,22 27 and 28.
	Thence I run,
	West on a true line bet.secs . 21 and 28;.
	Over broken mts. land through scattering cedar and pinion timber,ascend,
10.00	Spur 150 ft. above sec. cor. projects S.30°W.
33.00	S. side of draw heads N30°E. and drains N.70.W.100ft. depp.
37.00	Spur 75 ft. above draw projects.N25°W.
40.02	Set an iron post,3 ft:long, 1 in.in dia. 24 ins. in a stone mound for 1/4 sec.cor. with brass cap marked,

1/4
S | 21
S | 28
1912

	from which
	A cedar 6 ins. diam . bears S51°E.20 lks. dist. marked 1/4 S 28 B T
	A cedar 8 ins. diam. bears N.25°W.1.00 chs. dist. marked 1/4 S.21 B T
41.00	Draw 100 ft.below spur drains S.40°W.
49.00	Spur 225 fT.above draw projects S.40°W.
58.50	Draw 175 ft. below spur drains. S20°W.
69.00	Spur 250 ft. above draw projects S10°W.
80.04	The cor. of secs. 20,21,28 and 29.
	High broken mts. land with light poor sandy soil underlayed with solid sand stone .
	Timber scattering cedar and pinion .
	Mountainous land 80 00 chs.
	Sept ,. 28,1912.

Oct. 5,1912 ,At 10h 00 ma.m.l.m.t., I set off 38°37'on the lat. arc; 4°46'S.on the decl.arc; and determine a meridian with the solar at the cor. of secs. 20,21,28

Chains. [illegible]

[illegible]

[illegible], secs. 20 and 21.

[illegible] land through scattering cedar and pinion [illegible]

[illegible] 10 ft. below sec. cor. Drains [illegible]

[illegible] 2 ft. long, 1 in. in dia. [illegible] ins. in a [illegible] mound for 1/4 sec. cor., with brass cap marked

1/4
[illegible] S 21
[illegible]

[illegible]

A cedar [illegible] ins. diam., bears [illegible] lks. dist.
[illegible] 1/4 S 21 B T

A cedar [illegible] ins. diam., bears [illegible] lks. dist.
[illegible] 1/4 S 20 B T

[illegible] 1/4 sec. cor., projects [illegible]

[illegible] ft. below

[illegible] Also bears scattering timber bears [illegible] and [illegible]

[illegible], it is impossible to chain farther on this line

[illegible] of ledges; therefore I erect a flag on line [illegible] and measure a base [illegible] 10.[illegible] chs. to a [illegible] which flag [illegible] ledge bears [illegible]

[illegible] flag [illegible] bears [illegible]

[illegible] calculate the distance as follows.

[illegible] chs. which [illegible]

[illegible] secs. [illegible] 20 and 21

[illegible]

[illegible]

[illegible]

Subdivision of T.25 S.R.22 E.

Chains.	
	soil 3 to 5 ins. deep, coarse texture . underlayed with sand stone .
	Timber scattering cedar and pinion.
	Mountainous land 80 00 chs.
	Oct.5,1912, At this cor. I set off 4°48'S.on the decl. arc; and at 11 h 48 m l.m.t.,observe the sun on the meridian the resulting lat.is 38°38'
	East. on a random line bet. secs. 16 and 21.
40.00	Set temp. 1/4.sec. cor.
80.18	Intersect N.and S. line 2 lks . N. of cor. of secs. 15, 16, 21 and 22 .
	Thence I run
	N.89°59'W. on a true line bet. secs. 16 and 21 .
	Over broken stony mts. land through scattering cedar and pinion timber.
39.50	Draw 300 ft. below sec. cor . drains S.
40.09	Set an iron post,3 ft.long, 1.in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 16 S 21 1912
	from which
	A cedar 12 ins. diam. bears N.59°30'E.63 lks. dist. marked 1/4 S.16 B T
	A pinion 16 ins. diam. bears S.9°30'W. 1 08chs.dist. marked 1/4 S 21 B T
63.00	Begin very abrupt descent over small ledges bears N.80°W and S.80°E.also leave timber bears N.80°W and S.80°E.
80.18	The cor. of secs. 16,17 20 and 21.
	High broken ledgy mts.land ,almost solid sand stone formation .
	Timber scattering cedar and pinion.
	Mountainous land 80 18 chs.
	Oct. 5, 1912.

Subdivision of T.25 S.R.22 E.

Chains.	
	Oct. 19,1912, At 9 h 00 m a m l.m.t. I set off 38°38 'on the lat. arc; 9°59'S.on thedecl.arc; and determine a meridian with the solar at the cor. of secs. 16,17,20and 21 .
	Thence I run
	N.0°03'W.,bet .secs. 16 and 17.
	Ascend abruptly over broken mts.land.
10.00	Top of abrupt ascent bears N.80°W. and S.80°E.
18.00	Top of spur 375 ft. above sec.cor. projects.West.
20.00	Top of rim rock bears N.45°E and S.45°W.
	Note; It is impossible to chain farther N. on this line on account of percipitious ledges. ; therefore, I erect a flag at this point and proceed to a point on line below ledges ,from which.I measure a base West 4.00 chs. to a point from which flag on ledges bears S.46°51'E.; I calculate the distance to foot of ledges as follows:
	Cotan.46°51' X base or .93742 X 4.00= 3.75 chs which added to 20 00 chs. makes .
23.75	Foot of ledges 400 ft. deep bears N.45°E and S.45°W.
	Thence abrupt descent through large boulders .
25.00	Enter scattering cedar timber bears N.45°E and S.45°W.
33.25	County road Moab to Cisco, bears N.45°E.and S.45°W.
	also leave scattering timber bears E and W.
33.50	To left bank of Grand river.
	Set an iron post, 3 ft.long ,1 in. in dia. 24 ins. in the ground for meander cor. of fracl.secs. 16 and 17,with brass cap marked

T 25 S R 22 E
M C
S 17 | S 16
1912

from which

A cedar 14 ins.diam.bearsS.87°E.1.00ch.dist. marked
T 25 S R 22 E S 16 M C B T

A cedar 12 ins. diam. bears S.13°30'W.43 lks. dist.
marked T 25 S R 22 E S 17 M C B T

Subdivision of T. 25 S. R. 22 E.

Chains. High broken stony mountainous land , nearly solid sand s stone formation .

Timber scattering cedar .

Mountainous land 33.50 chs.

Oct. 19,1912.

Oct. 10, 1912 ,At 9 h 00 m a.m.l.m.t. ,I set off 8°54'S on the decl. arc; 38°40'on the lat.arc; and,determine a meridian with the solar at the cor. of secs. 3,4,9 and 10 .

Thence I run

West on a true line bet. secs. 4 and 9 .

Over very broken stony mts. land ,ascend.

20.00 Foot of ledges bears N85°E.and S.85°W.

Note ; It is impossible to chain farther on this line on account of precipitous ledges ;therefore I erect a flag at this point and measure a base S. 10.00chs. and erect a flag ,I then proceed to a point on line on top of ledges from which flag on S . end of base bears S.70° 59'E. and point on top of ledges bears N.70°59'W. from S. end of base ;I therefore calculate the distance as fol follows Tan . 70°59' X base or 2.90147 X 10.00 = 29 01 chs. which added to 20 00 chs. makes

49.01 Or 9 01 chs. W.of the point for 1/4 sec. cor.(¼Cor.not set).

Top of ledges 800 ft. above sec. cor. bears N.85°E and S. 85°W. also enter scattering cedar and pinion timber . bears N.80°E and S.80°W.

Set an iron post, 3 ft.long, 1 in. in dia. 24 ins.in a stone mound for witness cor. to 1/4 sec. cor. with brass cap marked

T 25 S R 22 E
S 4
B 9 ° 1/4 W C
1912

from which

A cedar 8 ins. diam. bears S.41°30°W. 72 lks. dist.

Subdivision of T 25 S R 22 E.

Chains.	
	marked 1/4 S 9 W C B T
	A cedar 8 ins. diam. bears N.21°E. 39 lks. dist.
	marked 1/4 S 4 W C B T
55.00	Spur 100 ft. above top of ledges projects S.40°W.
79.55	Top of ledges 250 ft. below spur bears N.10°W. and S.10° W.
	Note ; It is impossible to chain farther on this line on account of ledges ; therefore at this point I
	Set an iron post,3 ft.long,2 in.in dia. 24 ins. in a stone mound for witness cor. to secs. 4,5,8 and 9, with brass cap marked
	T 25 S R 22 E W C S 5 S 4 S 8 S 9 1912
	from which
	A pinion 12 ins. diam. bears N.43°E. 83 lks. dist.
	marked T 25 S R 22 E S 4 W C B T
	A pinion 10 ins. diam. bears S.81°E.92 lks. dist.
	marked T 25 S R 22 E S 9 W C B T
	A cedar 11 ins. diam. bears S.16°W.25 lks. dist.
	marked T 25 S R 22 E S 8 W C B T
	A cedar 6 ins. diam. bears N.41°W. 29 lks. dist.
	marked T 25 S R 22 E S 5 W C B T
	High broken stony mts.land almost solid sand stone .
	Timber scattering cedar and pinion .
	Mountainous land 79 55 chs.
80.00	Point for cor.secs.4,5,8,and 9.Cor.not set..
	From W.C.to secs. 4,5,8 and 9
	I run
	S.0°03'E. on offset line of 45 lks. E.of true line bet. secs. 8 and 9
	Over very broken stony mts. land through scattering cedar and pinion timber.
6.00	West 45 lks. to a point on line bet. secs.8 and 9.
26.90	Top of ledges bears E and W. also leave timberbears E and W.

Subdivision of T 25 S R 22 E .

Chains. Note; It is impossible to chain farther on this line on account of percipitious ledges ;therefore I erect a flag on line at this point and proceed to a point on line bew below ledges ,from which I measure a base East 10?00 ch chs. . to a point from which flag on ledges bears N.48°W I calculate the distance as follows ;

Cotan.48°00' X base or .90040 X 10. = 9 00 which added to 26 90 chs. makes

35.90 To point 635 ft. below top of ledges bears E and W.

40.00 Set an iron post ,3 ft. long 1 in. dia. 24 ins. in a so stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 8 | S 9
1912

raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

42.40 County road Moab to Cisco bears E and W.

42.75 The left bank of Grand river.

Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground for meander cor. of fracl.secs. 8 and 9 with brass cap marked

T 25 S | R 22 E
S 8 | S 9
M C
1912

raise a mound of stone 2 ft. base 1 1/2 ft. high N.of cor.

High broken mountainous land solid sand stone .

Timber s cattering cedar and pinion.

Mountainous land 42 75 chs.

Oct. 16, 1912 , At this cor I set off 8°57'S. on the dec decl. arc; and at 11 h 46 m l.m.t. observe the sun on the meridian the resulting lat. is 38°40'

T

From W.C.to secs. 4,5,8 and 9 .

I run

~~Subdivision of T 25 S R 22 E.~~

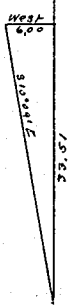
Chains. N.0°03'W. on offset of 45 lks. East of true line bet. sec 4 and 5

Over broken stony mts. land through scattering cedar and pinion timber ascend.

5.00 West to a point on true line bet. secs. 4 and 5.

9.20 Top of ledges bears N.10°E. and S.10°W. leave timber.

Note ; It is impossible to chain farther on this line on account of percipitious ledges ; therefore I erect a flag on line at this point and proceed to a point on line below ledges ,from which I measure a base West 6 00chs. to a point from which flag on top of ledges bears S.10°09'E. (On account of ledges and the Grand river it was impossibl to get a longer base.)



40.00 Point for 1/4 sec.cor.Cor.not set.
I calculate the distance as follows :

Cotan.10°09' X base or 5.58573 X 6.00 = 33 51 which added to 9 20 chs. makes

42.71 Foot of ledges 750 ft. below rim rock bears N10°E and S.10°W.

Set an iron post, 1 in.in dia. 24 ins. in a stone mound for witness cor. to 1/4 sec. cor. with brass cap marked

T 25 S R 22 E
W | C
1/4
S 5 | S 4
1912

raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

47.30 County road Moab to Cisco nears N.10°E and S. 10°W.

49.00 Enter oak brush bears N10°E.and S.10°W.

53.00 leave same bears N.10°E and S.10°W.

55.32 To left bank of Grand River,

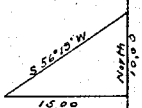
Set an iron post, 3 ft. long ,1 in.in dia. 24 ins in the ground for meander cor. of fracl. secs. 4 and 5 , with brass cap marked

T 25 S R 22 E
M C
S 5 | S 4
1912

Subdivision of T 25 S R 22 E.

Chains.	
	from which
	An oak 6 ins. diam . bears East 1.25 chs. dist.
	marked T 25 S R 22 E S 4 M C B T
	An oak 8 ins. diam. bears S0°40'W.2.04 chs.di st.
	marked T 25 S R 22 E S 5 M C B T
	High broken stony mts. land almost solid sand stone.
	Timber, scattering cedar, pinion and scrubby oak.
	Mountainous land 55 32 chs.
	Oct. 16, 1912.
	Knowing from the course and distance of the S.bdy. of sec. 32 that a sectional correction line is necessary Sept. 24, 1912. I begin at the cor. of secs.28,29,32 and 33 and run
	West on a sectional correction line bet. secs. 29and 32
	Over high rolling mesa through scattering cedar and pinion timber.
4.00	Leave mesa and scattering timber enter smooth sand stone outcroppings bears N.and S.
29.40	Draw 150 ft. below sec. cor. drains N.75°W.
34.60	Top of point of spur 90 ft.above draw projects N45°W.
	Note:It is impossible to chain farther on this line on account of precipitious ledges;therefore at this point I Set an iron post ,3 ft. long , 1 in. in dia. 24 ins. in a stone mound for witness cor. to 1/4 sec. cor. with brass cap marked
	T 25 S R 22 E S 29 / 32 W C 1/4 1912
	raise a mound of stone 2 ft.base 1 1/2 ft. high N.of cor.
40.00	Point for 1/4 sec.cor.falls in canyon;cor.not set.
	Note : In order to determine the distance across the next canyon ; I set a flag on line on top of sand stone spur W. of canyon ,and measure a base North 10.00 chs. to a point from which flag on spur bears S.56°10'W.:I determine the distance across the canyon as follows.

Subdivision of T 25 S R 22 E



Chains. Tan. 56°19' X base or 1.50038 X 10 =15 00 which added to 34 60 makes

49.60 Top of sand stone spur on W. side of canyon projects N. 10 W.

80.00 Falls on a smooth sand stone ledge, therefore at

78.80 Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in the ground for witness cor. to secs. 29, 30, 31 and 32 with brass cap marked

T 25 S R 22 E
W C C
S 30 | S 29
S 31 | S 32
1912

from which

A cedar 24 ins. diam. bears N.33°E. 47 lks. dist.
marked T 25 S R 22 E S 29 W C B T

A cedar 8 ins. diam. bears S.17°E. 55 lks. dist.
marked T 25 S R 22 E S 32 W C B T

A Pinion 16 ins. diam. bears N.70°W. 2.53 chs. dist.
marked T 25 S R 22 E S 30 W C B T

No other trees in limits.

raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

High rolling mesa and broken mts. land nearly solid sand stone formation.

Timber csattering cadar and pinion.

Mts. land or scattering timber 80 00 chs.

Sept. 24, 1912, At this cor. I set off 0° 32' S. on the decl. arc: and at 11 h 52 m l.m.t. observe the sun on the meridian the resulting lat. is 38°36'

From the true point for cor. of secs. 29, 30, 31 and 32.

I run S.0°03'E. on a true line bet. secs. 31 and 32.

Over broken Mts. land through numerous sand stone knolls and washes and scatterind cedar and pinion timber.

7.80 Top of ledges on N. side of box canyon bears N.75°W. and S.75°E.

Subdivision of T 25 S R 22 E.

Chains.	
	Note; I is impossible to chain farther on this line on account of box canyon ; therefore I erect a falg on S.side side of box canyon and measure a base East IO.chs. to a point from which flag on S.side of box canyon bears S.39° 20'W. and from flag on S.side of box canyon flag on East end of base bears N.39°20'E. I calculate the distance as follows
	Cotan. 39°20' X base or 1.22031 X IO = 12 20
	which added to 7 80 makes
20.00	To S. side of bax canyen(which is about 225 ft.deep drains N. 75°W.
40.00	Set an iron post, 3 ft.long, 1 in.india. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 31 | S 32 1912
	from which
	A pinion 9 ins. diam. bears S.6°08'E3 00 chs. dist. marked 1/4 S 32 B T
	A pinion 8 ins. diam. bears S. 67°20'W.1.28 chs. dist. marked 1/4 S 31 B T
	Sept.24,1912, At 2 h 00 m p.m.l.m.t. ,I set off 38°36' on the lat. arc; 0°33'S. on the decl. arc; and determine a meridianwith the solar at this 1/4 sec. cor.
	Thence I run,
	S.0°03'E. bet. secs. 31 and 32
49.65	Sand stone spur 75 ft. above 1/4 sec. cor. projects N.45°W
64.90	Road Moab to Mesa bears N.80°E and S.80°W,
66.65	Same road bears N.IO°W and S.IO°E.
68.00	Enter small sand flat bears E and W.
68.65	Same road bears N.IO°Eand S.IO°W.
73.70	La Sal Telephone line Moab to Mesa bears N.80°E.and S. 80°W.
79.00	Leave sand flat enter solid sand stone formation bears E and W.
81.65	Intersect fifth standard parallel South 22.70 chs. N88°

East 10.00
12.20
N39°20'E

Chains.

46'E. of witness cor. to S.C.for secs. 31 and 32 which is an iron post,3 ins. dia. firmly set in a mound of stone marked and witnessed as described by the surveyor-general . I destroy all marks on this cor. that pertain to secs 31 and 32.

Set an iron post, 3 ft.long, 2 ins. dia.24 ins. in a stone mound for closing cor. of secs. 31 and 32 ,with brass cap marked

T 25 S | R 22 E
S 31 | S 32
S 6 | S 5
C C
1912

from which

A cedar 10 ins?.diam. bears N.66°E.1 61 chs. dist.
marked T 25 S R 22 E S 32 B T

A cedar 10 ins. diam. bears N.4°W.2.40 chs. dist.
marked T 25 S R 22 E S 31 B T

High broken mts. and mesa land . With the exception of a small sand flat near the southern end of this line this mile is of solid sand stone formation .

Timber scattering cedar and pinion .

Mountainous land 68.00 chs.

Sept. 24, 1912.

Oct.17,1912.At 9 h 00 m a.m.l.m.t. ;I set off 38°36'on the lat. arc; 9°16'S.on the decl.arc;and determine a meridian with the solar at the true point for cor.of secs 29,30,31 and 32

Thence I run

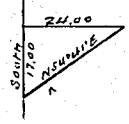
West on a sectional correction line bet.secs. 30 and 31, Over smooth sand stone outcroppings and scattering cedar and pinion timber.

7.95 Top of ledges on E.side of box canyon bears N.60°W&S.60°E

Note ; It is impossible to chain farther on this line on account of ledges of box canyon ; therefore I erect a flag on line at this point and proceed to a point on

Subdivision of T 25 S R 22 E.

Chains.	
	line on West side of box canyon ,from which I measure a base South 17.chs. to a point from which flag on East side of box canyon bears N.54°41'E.;I calculate the distance across box canyon as follows
	Tan. 54°41' X base or 1.41148 X 17.=24 00 which added to 7 95makes
31.95	West side of box canyon bears N.20°W and S.20°E.
40.00	Set an iron post ,3 ft.long, 1 in.in dia. 24 ins.in a sto stone mound for 1/4 sec. cor. with brass cap marked
	1/4 S 30 S 31 1912
	from which
	A pinion 16 ins. diam. bears S.7°45'E. 3 20 chs.dist. marked 1/4 S 31 B T
	A pinion 10 ins. diam. bears N.3°15 'W. 1 90 chs. dist marked 1/4 S 30 B T
60.00	Old wood road bears N.40°E. and S.40°W.
80.60	Old wood road bears N 50°W and S.50°E.
82.00	Begin abrupt ascent bears N35°E and S35°W.
87.00	Top of solid sand stone spur projects N35°E.100ft.high.
104.03	Intersect W.bdy. of Tp.2.07 chs.N.of cross (+)on rocks for true point for cor. of secs. 25,30,31 and 36 or 2.32 chs. N. of witness cor. to secs. 25,30,31 and 36, which is an iron post 3 ins. dia. firmly set in a mound of stone and marked and witnessed as described by the surveyor general, I destroy all marks that pertain to secs 30 and 31
	Note; This point falls on a smooth sand stone ledge where a post for sec. cor. cannot be set ,therefore I measure 2.42 chs. N. or at 4.74chs. N. of W.C.to secs. 25 and 36 Set an iron post,3 ft.long, 2 ins. in dia. 24 ins. in a stone mound for witness cor. to closing cor.of secs. 30 and 31 ,with brass cap marked
	T 25 S S 25 CC S30 W C S 31 S 36 R 21 E R 22 E 1912



Chains

from which

A cedar 5 ins. diam. bears N.44°E. 68 lks. dist.

marked T 25 S R 22 E S 30 W C B T .

No other trees in limits.

raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor.

High broken stony mts. land almost solid sand stone formation .

Timber scattering cedar and pinion.

Mountainous land I04.03 chs.

Oct. 17,1912, At this cor. I set of 9°19' S. on the decl. arc;and, 11h 45 m l.m.t. , observe the sun on the meridian the resulting lat. is 38°36'

Oct. 17,1912.

Sept.30; 1912:

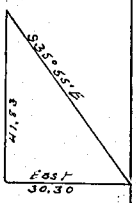
From true point for cor. of secs. 29,30,31 and 32 , I run

N.0°03'W. bet. secs. 29 and 30 .

Over broken mts.land through scattering cedar and pinion timber and smooth sand stone outcroppings .

14.50 S.side of "Nigger Bill " canyon bears N.80°E.and S.80°W

Note ; It is impossible to chain farther N. on this line on account of percipitious ledges ; It also impossible to measure a base E or W. from this point ; therefore I return to true point for sec.cor. and measure a base E. 30 30 chs. where I erect a flag, I now proceed to a point on line N. of canyon from which flag on E.end of base bears S.35°55'E.,I calculate the distance across canyon as follows



Cotan. 35°55' X base or 1.38060 X 30.30 =41.83

40.00 Point for 1/4 sec.cor.; cor.not set.

41.83 N. side of "Nigger Bill canyon" bears S.80°W. and N.80°E

"Nigger Bill" canyon is about 500ft. deep.

Set an iron post ,3 ft.long, 1 in. in diam. 24 ins. in a stone mound for witness cor.to 1/4 sec. cor. with brass cap marked

Subdivision of T 25 S R 22 E.

Chains.	
	T 25 S R 22 E 1/4 W C S 30 S 29 1912
	from which
	A cedar 16 ins. diam. bears N.20°W. 20 lks. dist.
	marked 1/4 S 30 W C B T
	No other trees in limits.
	Raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor
44.00	Draw 75 ft. below witness 1/4 sec. cor. drains W.
48.00	Sand stone spur 100 ft. above draw projects.W.
52.40	Draw 90 ft. below spur drains S 75°W.
59.00	Sand stone spur 85 ft. above draw projects. S.75°W.
80.00	Set an iron post,3 ft.long,2 ins. in dia. 24 ins.in a stone mound for cor. of secs. 19,20,29 and 30 ,with brass cap marked
	T 25 S | R 22 E S 19 | S 20 S 30 | S 29 1912
	from which
	A cedar 5 ins. diam. bears N.21°E. 97 lks. dist.
	marked T 25 S R 22 E S 20 B T
	A cedar 10 ins. diam. bears S.49°30'E.1.90 chs. dist.
	marked T 25 S R 22 E S 29 B T
	A pinion 10 ins. diam. bears S.10°W. 93 lks. dist.
	marked T 25 S R 22 E S 30 B T
	A cedar 10 ins. diam. bears N39°W. 25 lks. dist.
	marked T 25 S R 22 E S 19 B T
	High broken ledgy mts. land . very little sandy soil underlayed with solid sand stone.
	Timber scattering cedar and pinion.
	Mountainous land 80.00 chs.
	Sept.30,1912, At this cor. I set off 2°52' S.on the decl arc; and, at 11 h 50 m l.m.t. observe the sun on the mer meridian the resulting lat. is 38 °37'

East on a random line bet. secs. 20 and 29.

Subdivision of T 25 S R 22 E.

Chains.	
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N.and S. line 5 lks. N. of cor. of secs. 20,21 28 and 29
	Thence I run
	N.89°58'W. on a true line bet. secs. 20 and 29.
	Over rolling mts. land through scattering cedar and pinion timber and numerous slick sand stone outcroppings
1.00	Draw 20 ft. below sec. cor. drains S.45°W.
3.70	Sand stone spur 75 ft. above draw projects.S.30°W.
14.00	Draw I00 ft. below spur drains SI0°W
20.00	Sand stone spur 90 ft. above draw projects S.
24.00	Draw 80 ft. below spur drains. S.
32.00	Sand stone spur II0 ft. high projects S.
40.03	Set an iron post , 3 ft. long, 1 in. in dia. 24 ins. in b the ground for 1/4 sec. cor. with brass cap marked

1/4
S 20
S 29
1912

from which

A cedar 7 ins. diam. bears S.9°W.34 lks. dist. marked 1/4 S 29 B T

A cedar 6 ins. diam. bears N.23°W.53 lks. dist. marked 1/4 S20 B T

41.00	Draw 25 ft. below 1/4 sec. cor. drains S.
49.00	Sand stone spur I00 ft. high projects.S.
55.00	Draw 85 ft. below spur drains S 35°E.
61.00	Sand Stone spur 125 ft. above draw projects S.45°E.
80.06	The cor. of secs. 19,20,29 and 30 .
	High stony mts. land ,thin layer of light poor sandy soil 2 to 4 ins /deep underlayed with solid sand stone.
	Timber scattering cedar and pinion.
	Mountainous land 80 06 chs.

Sept.30,1912.

Subdivision of T 25 S R 22 E.

Chains. Oct.17, 1912 ,At 2 h 00 m p.m.l.m.t. ,I set off 38°37' on the lat. arc; 9°21'S.on the decl.arc; and determine a meridian with the solar at the cor. of secs. 19,2o,29 and 30 .

Thence I run

West on a true line bet. secs. 19 and 30 .

Over broken mts. land through scattering cedar and pinion timber.

3.00 Head of draw drains S.10°E.leave timber bears N.and S.

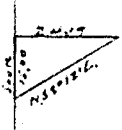
25.00 Solid sand stone spur 125 ft. above draw projects S.40°W.

40.00 Set an iron post,3.ft.long ,1 in.in diam.24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 19
S 30
1912 .

raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.

48.00 Top of ledges on E. side of "Nigger Bill" canyonbears N.75°W. and S.75°E.



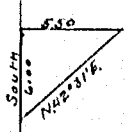
Note ; It is impossible to chain farther W. on this line on account of percipitious ledges ; therefore I erect a flag at this point on line and proceed to a point on line on W.side of "Nigger Bill" canyon,from which I measure a base South 15.00 chs. to a point from which flag on E. side of "Nigger Bill" canyon bears N. 58°12'E.; I calculate the distance across canyon as follows

Tan. 58°12' X base or 1.61283 X 15. = 24.19 which added to 48.00 chs. makes

72.19 West side of "Nigger Bill" canyon bears N.80°W and S.80E

73.00 Top of rim rock on E.side of Grand river canyon bears N. 50°E .and S.50°W.

Note; It is impossible to chain farther W. on this line therefore I erect a flag on line at this point and proceed to a point on line near bottom of Grand river canyon , from which I measure a base South 6.00 chs. to a point



Chains.	
	from which flag on top of rim rock bears N.42°31'E. I calculate the distance to bottom of canyon as follows Tan. 42°31' X base or .91687 X 6.00= 5.50 which added to 73 00 chs. makes
78.50	To bottom of Grand river canyon 700ft. below rim rock
79.00	County road Moab to Cisco bears N.50°E and S.50°W.
79.25	To left bank of Grand River.
	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in a stone mound for meander cor. of fracl. secs. 19 and 30 with brass cap marked

T 25 S R 22 E

M C S 19

S 30

1912

from which

A lone cedar 6 ins. diam. bears N. 72°20'E. 3.26 chs. dist.

marked T 25 S R 22 E S19 M C B T

A lone oak 7 ins. diam. bears. S.18°E. 1.84 chs. dist.

marked T 25 S R 22 E S 30 M C B T

High broken stony mts. land, almost no soil, nearly sold solid sand stone formation.

Timber scattering cedars and pinion with a stunted scattering fringe of oak along Grand River.

Mountainous land 79 25.chs.

Oct.17,1912.

Oct.18,1912, At 9 h 30 m a.m.l.m.t., I set off 38°37' on the lat. arc; 9°38'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20 29 and 30.

Thence I run

N.0°03'W. bet. secs. 19 and 20.

Over broken mts. land through scattering cedar and pinin timber. ascend.

7.70	Top of smooth sand stone spur 75 ft. above sec. cor. projects West.

Subdivision of T 25 S R 22 E .

Chains.	
12.25	Draw 100 ft. below spur drains N.70°W
16.00	Sand stone spur 90 ft. above draw projects W.
24.00	Draw 140 ft. below spur drains S.45°W.
40.00	Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked 1/4 S 19 | S 20 1912 from which A pinion 10 ins. diam. bears S.78°40'E.94 lks. dist. marked 1/4 S20 B T A pinion 8 ins. diam. bears S 37°45'W.1.16 chs. dist. marked 1/4 S 19 B T
50.84	Top of ledges 125 ft. above 1/4 sec.cor. bears N.50°E. and S.50°W. Note ; It is impossible to chain N.on this line on account of precipitious ledges ; therefore I erect a flag on line at this point and proceed to a point on line below ledges ,from which I measure a base West 5.00 chs. to a point from which flag on top of ledges bears S.27° 26'E.and the flag at West end of base bears N.27°26'W from the flag on top of ledges ,; I calculate the distance across the ledges as follows ; Cotan.27°26X base.or I.92645 X 5.00 = 9.63 which added to 50 84 chs.. makes.
60.47	Foot of ledges 350 ft. high bears N.50°E.and S.50°W.
60.50	Cow trail bears N.50°E.and S.50°W.
64.05	Top of ledges bears N.50°E.and S.50°W.
	Note ; It is impossible to chain N.on this line on account of percipitious ledges ;therefore I erect a flag on line at this point and proceed to a point on line on left bank of Grand River ,from which I measure a base S.57°30'W. 5.00 chs. to a point, at which the angle bet. flag on ledges and the flag on river bank measures 38°00';from the flag on ledges the base line subtends an angle of 84°27'; I calculate the distance across ledges as follows

Subdivision of T 25 S R 22 E.

Chains. $\frac{\sin.38° \times 5.00}{\sin.\ 84°27'}$ or $\frac{.61566 \times 5.00}{.99531}$ = 3.09 chs.

which added to 64 05 chs makes

67.14 To left bank of Grand river 325 ft. below flag on ledges Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in the ground for meander cor. of fracl. secs. 19 and 20 with brass cap marked

T 25 S R 22 E
M C
S 19 S 20
1912

raise a mound of stone 2 ft. base.1 1/2 ft. high S. of cor.

Note ; County road Moab to Cisco is under high water mark at this point.

High broken mts. land , almost solid sand stone formation

Timber scattering cedar and pinion.

Mountainous land 67 14 chs.

Sky partly overcast lat. observation impossible.

Oct. 18.1912.

Oct.19,1912/ ,From the cor. of secs. 16,17,20 and 21.

I run

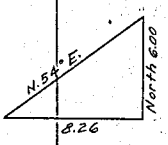
West on a true line bet. secs. 17 and 20 .

Over stony broken mts. land..

12.00 Bottom of box canyon 220 ft. below sec.cor. drains N.80°W

16.00 Foot of ledges. bears N.80°W.and S.80°E.

Note ; It is impossible to chain farther W.on this line on account of percipitious ledges , therefore I erect a flag on line at this point and measure a base North 6.00 chs. where I erect a flag , I now proceed to a point on line on top of ledges from which flag on North end of base bears N.54°E. andfrom flag at North end of base point on top of ledges bears S.54°W. I calculate the distance across ledges as follows



Tan. 54° X base or 1.37638 X 6.00 = 8.26 which added

Subdivision of T.25 S.R.22 E.

Chains.	
	to 16.00 chs. makes .
24·26	Top of ledges 300 ft. high bears N.80°W.and.S.80°E.
27·00	Cow trail bears N.75°W.and.S.75°E.
34.70	Top of point of spur projects N.80°W.
35·00	Enter scattering cedar.bears N45°E. and S. 45°W.
40·00	Set an iron post, 3 ft. long, 1 in. in diam. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 17
S 20
1912

from which

A cedar 5 ins. diam. bears N.81°E.34 lks. dist.marked 1/4 S 17 B T

A cedar 6 ins. diam.,bears S.62 W.46 lks. dist. marked 1/4 S 20 B T

44·00	Co w trail bears N. 60°E.and S.60°W.
50·00	Leave scattering cedar timber bears N.60°E.and S.60°W.
51.53	Top of ledges bears N. 60°E.and S.60°W.

Note ; It is impossible to chain West on this line on account of percipitious ledges ,therefore I erect a flag on line at this point and proceed to a point on line on left bank of Grand.River.,from which I measure a base S.57°W.6.60 chs. to a point ,at which the angle bet. flag on ledgas and the point on river bank measures 19°36' from the flag on ledges the base line subtends an angle of 13°24' ; I calculate the distance across the ledges as follows

$$\frac{\sin.19°36' \times 6.60}{\sin 13°24'} = \text{or } \frac{.33545 \times 6.60}{.23175} = 9.55$$

which added to 51.53 makes .

61·08	To left bank of Grand River 500 ft. below top of ledges. set an iron post, 3 ft, long, 1 in. in dia. 24 ins. in t the ground for meander cor. of fracl. secs. 17 and 20 with brass cap marked

T 25 S R 22 E
M C
S 17
S 20
1912

raise a mound of stone 2 ft. base 1.1/2 ft. high E/of cor.

High broken stony mts. land almost solid sand stone formation .

Timber scattering cedar .

Mountainous land 61 08 chs.

Note : County road Moab to Cisco is under high water mark at this point .

Oct. 19,1912,At this meander cor. 1 set off 10°03'S.on the decl. arc;and at 11 h 45 m l.m.t. ,observe the sun on the meridian the resulting lat.is 38°38'

Oct. 16,1912,

From the W.C. to secs. 4,5,8 and 9

I run.

West on a true line bet. secs. 5 and 8.

Over broken mts. land .

Note ; It is impossible to chain West from this point on this line on account of percipitious ledges,therefore I erect a flag at this W.C. and proceed to a point in road near the bottom of Grand river canyon ,from which I measure a base S13°E. 9.14 chs. to a point ,at which the angle bet.flag at W.C. and point in road mearures 82°27' ;from the W.C. ,the base line subtends an angle of 20°33'; I calculate the distance across the ledges as follows $\frac{\sin. 82°27' \times 9.14}{\sin. 20°33'}$ or $\frac{.99133 \times 9.14}{.35102} = 25.81$ and 25.81 less 45 lks. makes

25.36 County road Moab to Cisco bears N.and S.

25.53 To left bank of Grand River 450 ft. below W.C. to secs. 4,5,8 and 9 .

Set an iron post,3 ft.long, 1 in.in dia. 24 ins. in the ground for meander cor. of fracl. secs. 5 and 8,with brass cap marked

T 25 S R 22 E
M C
S 5
S 8
1912

raise a mound of stone 2 ft. base, 1½ ft. high, E. of cor.

High broken mts.land, nearly solid sandstone formation.

No timber.

Mountainous land 25.53 chs.

October 16, 1912.

Oct.17:

Meanders of the Left Bank of Grand River up Stream.

I commence at the meander cor. of fracl.secs.25 and 30, on the W.bdy. of the Tp., which is an iron post, 3 ins. in diam., firmly set, and marked and witnessed as described by the Surveyor General.

Thence I run with meanders in sec.30.

Through scrubby oak brush and willows.

N. 80°00'E. 14.30 chs. At 8.00 chs. County road Moab to Cisco bears N.75°E. and S.75° W. 11.30 mouth of Sheep Creek 20 lks.wide drains N.40°W. 12.00 County Road Moab to Cisco bears N.50°W. and S.50°W. At end of course leave scrubby oak brush and willows.

N.61°30'E. 12.10 chs. Sloping bank, 20 ft. high. At 8.00 chs. County Road Moab to Cisco bears N.70°E. and S.70°W. To the meander cor.of fracl.secs. 19 and 30.

Land, rolling river bottom.

Soil, sandy, 3rd rate.

No timber.

Land covered with scrubby oaks and willows 14.30 chs.

Oct.17, 1912.

Thence in sec.19.

Oct. 18, 1912: I set off 38°37' on the lat. arc; 9°42' S. on the decl.arc; and at 2 h. 00 m., p.m.l.m.t. determine a meridian with the solar at the meander cor. of fracl.secs. 19 and 30.

N. 48°30'E. 16.80 chs. Bank 25 ft. high. At 15.20 chs., mouth of Higger Bill Creek 50 lks.wide, drains N.80°W. At 15.50 chs. enter sand bar bears S. 10° E.

N. 36°30'E. 13.00 chs.	At 10.00 chs. leave sand bar bears N.50°E. and S.50°W.thence along sandy beach.
N.40°00'E. 10.90 chs.	Along sandy beach.
N. 65°30'E. 10.23 chs.	At 8.50 chs. leave sandy beach bears N. 45°E. and S.45°W. At 8.75 bank 10 ft. high. At 8.90 chs. County road bears N.50°E. and S.50°W.
N.50°30'E. 37.80 chs.	Follow along county road. At 14.70 bank 40 ft. high. At end of course, leave county road, bears N. 65°E.
N.55°30'E. 9.00 chs.	Bank 10 ft. high.
N. 57°30'E.7.20 chs.	Bank 12 ft. high, At 6.00 chs. County road bears N.40°E. and S.40°W. To the meander cor.of fracl.secs.19 and 20.

Land, river bottom and bottom of canyon.

Soil, light,poor,sandy loam, and stony banks. 3rd rate.

No timber.

Thence in sec.20.

N.54°30'E. 16.25 chs.	At 4.75 chs. County road bears N. 60 E. and S. 60° W.
N.57°00'E. 6.60 chs.	At 0.25 chs. County road bears N.50°E. and S.50°W. Bank 15 ft. high. To meander cor. of fracl.secs. 17 and 20.

Land,river bottom and side of canyon.

Soil, very stony with gravel, 3rd rate. No timber.

Oct. 18, 1912.

Oct. 19, 1912:

Thence in sec.17.

N. 57°00' E. 27.09 chs.	At 14.00 chs. County road bears N.60°E. and S.60°W.
N.73°00'E. 15.10 chs.	Bank 14 ft. high. At 3.00 chs. County road bears N. 65°E. and S.65°W. At 12.00 chs. wash 18 ft.deep from box canyon drains N.75°W.
N.59°00'E. 28.00 chs.	At 20.20 chs. County road bears N.65°E. and S.65°W. To meander cor. of fracl.secs.16 and 17.

Land, river and canyon bottom.

Soil, light poor sandy loam with gravel and boulders.

No timber.

Meanders, T 25 S R 22 E.

Thence in sec. 16.

N.59°00'E. 5.75 chs. Bank 25 ft. high. AT 4.65 chs. County road bears N.50°E.and S.50°W

N.74°00'E. 51.00 chs. At 19.20 chs. County road bears N.80°E.and S80°W.
At 47.00 chs. leave bank enter sandy beach.

N.43°00E. 7.20 chs.

N.61°30'E. 24.00 chs. At 4.00 chs. small wash from draw drains N.80°W.
At 11.70 chs. leave beach to bank 14 ft. high bears N.55°E.and S.55°W
At 18.40 chs. County road bears N.55°E.and S55°W.
At 21.00 chs. County road bears N.65°E. and S.65 °W.
To meander cor. of fracl. secs. 15 and 16.

Land , river bottom ,
Soil,light poor sandy loam with gravel and stones .

No timber.

Thence in sec. 15,.

N.39°30'E. 16.05 chs. At 2.00 chs. enter dense willows bears N.50°E.and S.50°W.
At 12.00 chs. leave same bears N.35°E and S.35°W.
15.00 chs. County road bearsN35°E and and S.35°W.
To meander cor. of fracl. secs. 10 and 15.

Land ,river bottom.

Soil ,light poor sandy loam with gravel and stones.

Dense underbrush 10.00 chs.

Oct. 19, 1912.

Oct.21,1912.

Thence in sec. 10.

At 8 h 45 m a.m.l.m.t.l set off 38°39' on the lat. arc; 10°42'S.on the decl .arc; and determine a meridian with the solar at the maander cor.of fracl. secs. 10 and 15.

Thence 1 run with meanders in sec. 10.

N.12°45'E. 8.08chs.

N.28°00'E.12.00 chs. At 6.00 chs. enter dense growth of willows bears N.30°E.and S.30°W.

N.19°00'E.11.34 chs.

N. 4°30'E.15.00 chs.

N.39°30'W. 14.00 chs.

N.58°30'W.. 6.70 chs.

N.32°30'W. 12.00 chs. At 5.00 chs. leave dense growth of willows bears N.60°W.and. S.60°E. To the meander cor. of fracl. secs. 9 and 10.

Land, river bottom.

Soil , very stony with gravel 4 th. rate.

Dense underbrush 58.04 chs.

Thence in sec. 9.

Oct. 21 ,1912. At the meander cor. of fracl.secs. 9 and 10 ,I set off 10°46'S.on the decl.arc; and at 11 h 45 m l m.t. observe the sun on the meridian the resulting lat. is 38°39' or within 1' of theproper lat.

N.71°00'W. 10.69 chs. Bank 6 ft. high.

S.67°30'W. 13.95 chs.

S.71°00'W. 17.35 chs.

S.51°00'W. 11.00 chs.

S.59°30'W. 26.00 chs. End of course falls on stony beah beach.

West 9.58 chs. At 8.00 chs. bank 18 ft.high. To the meander cor. of fracl .secs. 8 and 9 .

Land, river bottom.

Soil , light poor sandy loam with some gravel and large boulders.

No timber.

Oct. 21, 1912.

Oct. 22 ,1912.
Thence in sec.8.

At the meander cor. of fracl. secs. 8 and 9 ,I set off 11°07' S.on the decl.arc;and 11 h 45 m l.m.t. observe th the sun on the meridian the resulting lat. is . 38°39'

S.85°00'W. 1.50 chs. Bank 20 ft. hig h. At end of coure course . County road bears N.63°W.a and N.63°E.

N.63°W. 14.14 chs. Along County road . At 13.00 chs. leave County road bears N.50°W.and S.50°E.

N.66°00'W. 8.20 chs. At 4.50 chs. County road bears N. N.50°W.and S.50°E.

Meanders, T 25 S R 22 E

	At 6.20 chs.County road bears N .40° W and S.40°E.
N.23°00'W.4.50 chs.	At 1.00 ch.County road bears N.40W and S.40°E. At 4.25 chs. County road bears N.15°W.and S.15°E.
N.8°00W.26 83 chs.	At 1.00 ch.enter County road bears N.8°W.and S.15°E. At 3.00 chs. leave County road bears N.10°W. and S.10°E. At 9 00 chs. County road bears N. and South To the meander cor. of fracl. secs. 5 and 8.

Land,bottom of canyon.

Soil, a mixture of clay and gravel forming a very hard concrete ,with a good sprinkle of large boulders.

No timber.

Thence in sec. 5.

N.32°00'E. 9 30 chs.	At 1 50 chsenter County road bears N32°E and South . At 8.75 chs. leave County road bear N.15°E and S.32°E.
N.13°30'E. 15 00 chs.	At 1 00 ch. enter County road bear N.15°E and S.15°W. At 3 00 chs. leave county road bear N.15°E and S.15°W.
N.32°30'E.24 00 chs.	Along sandy and stony beach
N.18°30'E. 13 30 chs.	To meander cor. of fracl. secs. 4 and 5.

Land ,bottom of canyon.

Soil, very gravelly with large boulders 4 th. rate.

No timber.

Thence in sec. 4.

N.7°30'E. 7 30 chs.	Along sandy and stony beach.
N.12°30'E. 15 24 chs.	To meander cor. of fracl. Tps. 24 and 25 S R 22 E .

Land, bottom of canyon.

Soil, very gravelly and stony 4 th. rate.

No timber.

Oct. 22, 1912.

BOOK A-415

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Latitudes, departures, and closing errors.

Line designated	True bearing	Distance Chs.	Latitudes North Chs.	Latitudes South Chs.	Departures East Chs.	Departures West Chs.
South bdys. of secs. 33, 34 35 and 36	West	320 00				320.00
S.bdy. of sec. 32	S88°46'W.	79.90		1.72		79.88
Part of S.bdy. of sec. 31	S.88°46'W.	23.72		51		23 72
Part of S.bdy. of sec. 31	West	80 00				80 00
West bdy. sec. 31	North.	82 07	82 07			
N.bdy. of sec. 31	East	1o4 03			104 03	
W. bdy. sec. 29	N.0°03'W.	80 00	80 00			07
N.bdy. sec. 29	S.89°58'E.	80 06		05	80 06	
W.bdy. sec. 21.	N.0°03'W.	80 00	80 00			07
N.bdy. sec. 21.	S.89°59'E.	80 18		02	80 18	
N.bdy. sec. 22.	S.89°46'E.	80 10		33	80 10	
W.bdy. sec. 14.	N.0°0I'W.	80 00	80 00			02
W.bdy. sec. 11.	N.0°0I'W.	80 00	80 00			02
S.bdy. sec. 3.	West.	80 00				80 00
W.bdy. sec. 3.	N0°03'W.	77 50	77 50			07
N/bdy. of secs. I, 2 and 3.	East	240 00			240 00	
E.bdy. of Tp.	South	477 42		477 42		
Convergency						34
			479.57	480.05	584.71	583.85
				479 57	583 85	
	Error in lat. and dep.			48	86	

General Description.

This township is very rough and mountainous, and with the exception of part of secs. 1 and 12 none of the township can be cultivated. The soil in part of secs. 1 and 12 is rich sandy loam capable of producing abundant crops of wheat, oats, corn, water melons and squash by the aid of irrigation. There is very little water in this township other than Grand River.

A great portion of the township is covered with a scrubby growth of cedar and pinion timber.

A great portion of the township is of solid sand stone.

There is one settler in sec. 1. named Matthias Martin whose improvements concists of a dwelling house, granaries, corrals, fences, orchards and cultivated land, and the approximate value is $ 4,000 00

John W. Dougall
U.S. Surveyor.

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For Certificate of Assistants see book "E" T.26 S.R 21 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

BOOK A-415

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of U.S.Surveyor see book "N" T.26 S., R.21 E.

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 12, 1914.

The foregoing field notes of the survey of the Subdivisional and meander lines of Township No. 25 South, Range No. 22 East, of the Salt Lake Base and Meridian, Utah,

executed by John W. Dougall

under ~~his~~ special instructions dated September 7, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

C. C. Thoresen
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

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4—670

BOOK A-415
L.

U. S. Surveyor General's Office
MAY 24 1913
SALT LAKE CITY, UTAH

W.Z.B

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY

OF

TOWNSHIP NO. 26 SOUTH

RANGE NO. 22 EAST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

JOHN W. DOUGALL

In the capacity of U. S. Surveyor, under instructions dated Sept. 7 *, 191*1. *issued by the United States Surveyor General to govern surveys included in Group No.* 15 *, which were approved by the Commissioner of the General Land Office,* September 19 *, 191*1*., pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced October 23, *, 191*2

Survey completed October 29, *, 191*2.

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BOOK A-415

INDEX DIAGRAM.

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30	29	28	27	26	25
31	32	33	34	35	36

~~West Boundary of T 26 S.R.22 E.~~

Survey commenced Oct.23,1912 and executed with a Keuffel and Esser transit No.20036,with solar attachment.
Knowing my instrument is in perfect adjustment from recent observations on Polaris,(See book "C" this survey), at 9 h44 m a.m.l.m.t. I set off 38°30'N.on the lat. arc; 11°26'S.on the decl. arc; and determine a meridian with the solar at the Witness Corner to Tps. 26 and 27 S Rs. 21 and 22 E., heretofore described.
Thence I run
North on a random line ,along the W.bdy. of T.26 S.R.22 E setting temp. 1/4 sec. and sec. cors. at intervals of 40 00 chs. ; and ,at 331.85 chs.to a point 35.37 chs. W. of cor. of secs. 7,12 ,13 and 18.

Oct. 25,1912.

Oct.26,1912,At 8 h 14 m a.m.l.m.t. ,I set off 38°34' on the lat. arc; 12°27'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7,12,13 and 18 , which is a sand stone greatly decayed and marks nearly obliterated , I destroy all traces of old cor. and re-establish it at same point as follows
Set an iron post ,3 ft. long, 3 ins. in dia. 24 ins. in the ground for cor. of secs. 7,12, 13 and 18 ,with brass cap marked

T 26 S.
R 21 E | R 22 E
S 12 | S 7
S 13 | S 18
1912

raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
Thence I run
South on a true line on W . bdy. of Tp. bet. secs.13 and 18.
Over very broken stony mts. land ascend,

4 00 Cow trail bears N.10°E.and S.10°W.
22 10 Begin very abrupt ascent bears E.and W.
26 35 Cow trail bears N.20°W.and S.20°E.
30 00 Enter scattering cedar timber bears E.and W.

West Boundary of T.26 S.R.22 E.

35 85 Top of abrupt ascent 1,000 ft. above sec.cor. bears E. and W.

42 00 Leave scattering cedar timber bears E.and W.

43 25 Enter small valley bears E and W.

51 00 Leave same ascend bears E.and W.

51 85 Set an iron post, 3 ft.long, 1 in.in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 13 | S 18
1912

and raise a mound of stone 2 ft. base 1 1/2 ft. high W of cor.
Note: This cor. refers to sec. 13 only.

53 10 Foot of ledges bears N.80°W.and S.80°E.

Note ; It is impossible to chain or extend this line farther S. therefore

To pass the ledges 1 offset as follows:

West ,34.36 chs.

South, 27.65 chs. At 10.00 chs. on this course enter scattering cedar and pinion timber bears E.and W.

East, 25.54 chs .

South,11.10 chs.

East ,8.82 chs. to the point for the cor.of secs. 13,18,19 and 24

For corrective notes see page 67 of subdivision of T.26 S.R. 22 E.

91.85 Set an iron post,3 ft.long ,3 ins. in. dia. 24 ins. in a stone mound for cor. of secs. 13,18,19 and 24, with brass cap marked

T 26 S
R 21 E | R 22 E
S 13 | S 18
S 24 | S 19
1912

from which

A cedar 8 ins. diam. bearsN.64°E. 12 lks. dist.
marked T 26 S R 22 E S 18 B T

A pinion 8 ins. diam. bears S.9°E. 25 lks. dist.
marked T 26 S R 22 E S 19 B T

A pinion 12 ins. diam. bears S.53°30'W. 74 lks. dist.
marked T 26 S R 21 E S24 B T

A pinion 8 ins. diam. bears N.46°W. 43 lks. dist.
marked T 26 S R 21 E S 13 B T

High broken stony mts. land ,almost solid sand stone practically no soil .

West Boundary of T .26 S.R.22 E.

Timber scattering cedar and pinion.

Oct.26,1912 ,The sky being partly over cast observation for lat. was impossible.

South bet. secs. 19 and 24 .

Over very broken mts. land through scattering cedar and pinion timber. ascend .

4 50 Spur 125 ft. above sec. cor. projects N.70°W.

12 00 Draw 400 ft. below spur drains N.70°W.

24 50 Spur 280 ft. above draw projectsN.80°W.

30 25 Draw 325 ft. below spur drains N.85°W.

40 00 Falls on sand stone slope where it is impossible to set 1/4 sec. cor. therefore at

44 30 Set an iron post, 3 ft. long ,1 in. in dia. 24 ins. in a stone mo und for witness cor. to 1/4 sec. cor. with brass cap marked

T 26 S
R 21 E R22 E
1/4 W | C
S 24 | S 19
1912

from which

A cedar 12 ins. diam. bears N.17°E. 42 lks. dist. marked W.C.1/4 S 19 B T

A pinion 16 ins. diam. bears N.81°W.77 lks. dist. marked W C 1/4 S 24 B T

Oct. 26,1912

Oct. 28, 1912,At 9 h 00 M a.m.l.m.t., I set off 38°33'N. on the lat. arc; 13°08 S. on thee decl. arc; and, determine a meridian with the solar at the witness cor. to 1/4 sec. cor. bet. secs. 19 and 24.

Thence I run

South bet. secs. 19 and 24

44 50 Spur 25 ft. above W.C.to 1/4 sec. cor. projects W.

53 00 Draw 290 ft. below spur drains N.75°W.

64 00 Spur 400 ft. above draw projects N.80° W.

70 00 Draw 375 ft. below spur drains N.80°W.

75 25 Spur 250 ft. above draw projects N80°W.

80 00 Set an iron post, 3 ft.long, 3 ins. in dia. 24 ins. in a

West Boundary of T 26 S R 22 E

stone mound for cor. of secs. 19 24, 25 and 30 ,with brass cap marked

T 26 S
R21 E | R 22 E
S 24 | S 19
S 25 | S 30
1912

from which

A cedar 6 ins. diam. bears N. .85°E.75 lks dist.
marked T 26 S R 22 E S 19 B T

A pinion 8 ins. diam. bears S.66°E.1.58 chs. dist.
marked T 26 S R 22 E S 30 B T

A cedar 9 ins. diam. bears S.71°W.1.21 chs. dist.
marked T 26 S R 21 E S 25 B T

A cedar 6 ins. diam. bears N.83°W. 95 lks. dist.
marked T 26 S R 21 E S 24 B T

High broken stony mts. land ,with draws having light poor sandy soil 1 to 3 ins. deep on solid sand stone spurs and slopes nearly solid sand stone ,
Timber scattering scrubby cedar and pinion.

South bet. secs. 25 and 30.

Over broken stony mts. land through scattering cedar and pinion timber.

.50 Draw 12 ft. below sec.cor: drains N.80°W.

5 80 Spur 280 ft. above draw projects N.80°W.

19 85 Draw 375 ft below spur drains S.80°W.

29 75 Spur 175 ft. above draw projects W.

37 00 Draw 225 ft. below spur drains N.85°W.

40 00 Set an iron post ,3 ft.long, 1 in. in dia. 24 ins. in a mound of stone for 1/4 sec. cor. with brass cap marked,

1/4 |
S 25 | S 30
1912

from which

A cedar 8 ins. diam. bears S.64°E. 17 lks. dist.
marked 1/4 S 30 BT

A cedar I0 ins. diam Bears S.25°W. 43 lks. dist.
marked 1/4 S.25 B T

Oct.28 ,.1912, At this 1/4 sec. cor. 1 set off 13°11'S.on the decl. arc; and at 11 h 44 m a.m. l.m.t. observe the sun on the meridian the resulting lat. is 38°32'

69 00 Spur 475 ft. above 1/4 sec. cor. projectsN.85°W.

78 00 Draw 400 ft. below spur drains N.80°W.

80 00 Set an iron post, 3 ft.long, 3 ins. dia. ,24 ins. in a sto stone mound for cor. of secs. 25,30,31 and 36,with brass cap marked

T 26 S
R 21 E | R 22 E
S 25 | S 30
S 36 | S 31
1912.

from which

A cedar IO ins. diam. bears N.76°E. 12 lks. dist. marked T 26 S R 22 E S30 B T

A cedar 15 ins. diam. bears S.15°30'E.1.75 chs. dist. marked T 26 S R 22 E S 31 B T

A cedar IO ins. diam. bears S.34°W. 43 lks. dist. marked T 26 S R 21 ES 36 B T

A pinion 6 ins. diam. bears N.54°30'W. 1.74 chs. dist. marked T 26 S R 21 E S 25 B T

High broken stony mts. land ,draws having a thin layer of poor sandy soil from 1 to 3 ins. deep on sand stone base . spurs and slopes are nearly solid sand stone formation. Timber sacttering cedar and pinion.

Oct. 28, 1912.

Oct.29,1912, At 9 h 44 m a.m.l.m.t., I set off 38°31 'on the lat. arc; 13°29'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25,30,31 and 36,

Thence I run

South bet. secs. 31 and 36

Over broken stony mts. land through scattering cedar and pinion timber ascend.

6 00 Sand stone spur 425 ft. above sec. cor. projects N.75°W.

16 00 Draw 2oo ft. below spur drains N.80°W.

28 00 Spur 225 ft. above draw projects N.80°W.

West Boundary of T.26 S .R.22 E.

40.00 Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4 |
S 36 | S 31
1912

from which

A cedar 6 ins. diam. bea rs S.2°W. 31 lks. dist.

marked 1/4 S 36 B T

No other trees in limits.

and raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor.

This cor. is 200 ft. below spur.

Oct. 29, 1912, At this cor .1 set off 13°31'S.,on the decl arc;.and, at.11 h.44 m l.m.t. ,observe the sun on the meridian the resulting lat is 38°31'

48 00 Draw 150 ft. below 1/4 sec. cor. drains. N.80°W.

75 00 Spur 450 ft. above draw projects N.80°W.

80 00. Intersect S.bdy. of Tp.73 lks. E.of W.C.to 1/4 sec. cor. bet. secs. 6 and 31 ,which is an iron post. 1 in. dia. set in a mound of stones and marked and witnessed as described by the surveyor general

Note ; The true point for cor. of Tps. 26 S.Rs. 21 and 22 E . falls on slick.sand stone slope where it impossible to set same therefore I measure 29 lks. W. of true point for cor. and

Set an iron post, 3 ft.long 3 ins. dia. 24 ins. in a stone mound for witness cor. to Tp. 26 S Rs. 21 and 22 E . with brass cap marked

T 26 S
W C
R21 E R22 E
S 36 S 31

R 21 E | R 22 E
S 1 S 6

1912

from which

A cedar 6 ins. diam. bears N.69°E.1.35 chs. dist.

marked W.C.T 26 S R 22 E S 31 B T

A pinion 14 ins. diam. bears N.30°W. 1.27 chs. dist.

marked W C T 26 S R 21 E S 36 B T

I destroy all marks on 1/4 sec. cor. that pertain to sec.

West Boundary of T.26 S.R.22 E.

31.

High broken stony mts.land ,draws having a thin layer of poor sandy soil from 1 to 3 ins. deep. on sand stone base Spurs and slopes are nearly solid sand stone.

Timber scattering cedar and pinion.

Oct. 29,1912.

John W. Dougall
U. S. Surveyor.

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BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For Certificate of Assistants see book "N" T.26 S., R.21 E.

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—276A

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of U.S.Surveyor see book "N" T.26 S., R.21 E.

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....
U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 31, 1916.

The foregoing field notes of the survey of West Boundary of Township No.26 South, Range No. 22 East of the Salt Lake Base and Meridian, Utah,

executed by John W.Dougall

under ~~his~~ special instructions dated September 7, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

C. C. Thoreson
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

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Filed May 24, 1913.
March 4, 1916.

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BOOK A-415

II

FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARY OF SECTION 32

AND

RETRACEMENT, RESURVEY AND SURVEY OF THE SUBDIVISION

OF

TOWNSHIP 26 SOUTH, RANGE 22 EAST

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

JOHN E. BOUGALL

AND

THOMAS C. RATHBONE

In the capacity of U. S. Surveyor and U. S. Transitman, *under instructions dated* Sept. 7, *191*1, and supplemental special instructions dated Sept. 9, 1915, *issued by the United States Surveyor General to govern surveys included in Group No.* 15, *which were approved by the Commissioner of the General Land Office,* September 19, *191*1, and Sept. 18, 1915, respectively, *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced Oct. 31, *191*2

Survey completed Dec. 11, *191*5

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Retracement

Subdivision of T 26 S.R.22 E.

Survey commenced October 31 ,1912 ,and executed with a K.and E. transit ,No.20036 ,with a solar attachment . For full description of instrument see 'Book"A." Knowing my instrument is in perfect adjustment from recent observations on Polaris, I omit test at this time. At 9 h 00 m a.m. l.m.t.,I set off 38°31' on the lat. arc; 14°07'S.on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25,26,35 and 36, which is a sandstone 12 X IO X 5 ins. above ground loosely set and marks nearly obliterated ,I destroy all traces of the old cor. and reestablish it at same point as follows :

Set an iron post , 3 ft. long, 2 ins. in dia. 24 ins. in the ground for cor. of secs. 25 , 26,35 and 36,with brass cap marked

T 26 S | R 22 E
S 26 | S 25
S 35 | S 36
1912

and raise a mound of stone 2 ft. base,1 1/2 ft. high, W . of cor.

Thence I run

East on retracement line bet. secs. 25 and 36. .

40.25 Fall IO lks. S.of old 1/4 sec. cor., which is a sandstone IO X IO X 4 ins. above ground, loosely set but plainly marked, I destroy all traces of old 1/4 sec. cor. and re-establish it at same point as follows:

Set an iron post , 3 ft. long,1 in. in dia.,24 ins.in a stone mound,for 1/4 sec. cor.,with brass cap marked

1/4
S 25
S 36
1912

from which

A cedar 6 ins.diam.bears S.7°E.39 lks.dist. marked 1/4 S 36 B T

A cedar 12 ins. diam. bears N.55°W. 1.63 chs. dist marked 1/4 S 25 B T .

Therefore the course of this line is N.89°51'E. 40.25 chs.

Moved to cor.

Subdivision of T.26 S.R.22 E.

	Thence 1 run
	East on a random line bet. secs.25 and 36.
40 05	Intersect E.bdy. of Tp. 13 lks. S .of cor. of secs. 25, 30,31 and 36 ,which is a granite stone IO X IO X 8ins. above ground, firmly set ,marked and witnessed as described by the surveyor general.
	Thence 1 run
	S.89°49'W. on a true line bet. secs.25 and 36.
	Over broken, stony, mts. land along S . slope, through scattering cedar and pinion timber; descend.
17 25	Draw 350 ft. below sec. cor . drains S.
19 75	Small spur 80 ft. above draw projects S.
21 00	Draw 75 ft. below spur drains S.
25 00	Enter S. end of small bench 150 ft. above draw bears N. and S.; thence descend gently across bench.
35 00	Wash 12 ft. deep drains S.
40 05	The 1/4 sec. cor. bet. secs. 25 and 36
	E. 25 00 chs. broken and hilly; practically no soil; sandstone formation. W.15 05 chs. bench land, S.slope ,soil light, poor sandy loam ,coarse texture ,dry, on sandstone base .
	Timber scattering cedar and pinon.

	Oct. 31,1912; At the cor.of secs. 25,26,35 and 36, before described, I set off 14°IO'S.on the decl .arc; and at 11 h 44 m/a.m./l.m.t. observe the sun on the meridian; the resulting lat. is 38°31'.
	Thence 1 run
	N.0°OI'W.on retracement line bet. secs. 25 and 26.
40 16	Intersect old 1/4 sec. cor., which is a sandstone IO X 4 X IO ins. above ground, loosely set and marks partly obliterated. , I destroy all trace of old 1/4 sec. cor. and re-establish it at same point as follows;
	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, for 1/4 sec. cor., with brass cap marked,

Retracement

Subdivision of T.26 S.R.22 E.

1/4
S 26 | S 25
1912

from which

A pinon 12 ins. diam. bears S. 72°30'E. 71 lks. dist. marked 1/4 S 25 B T

A pinon 7 ins. diam. bears S.9°W.32 lks. dist. marked 1/4 S 26 B T

Thence 1 run

N.0°0I'W.bet. secs. 25 and 26 .

Over rolling bench land, through scattering cedar and pinion timber; ascend gently.

IO 00 Leave scattering cedar and pinion timber, bears N.45°W. and S. 45°E.

30 00 Spur, 150 ft. above 1/4 sec. cor., projects N.40°W.

40 00 Set an iron post, 3 ft.long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 23,24,25 and 26, with brass cap marked

T 26 S | R 22 E
S 23 | S 24
S 26 | S 25
1912

from which

A lone cedar 14 ins. diam. bears S.63°37'E.3.47 chs. dist. marked T 26 S R 22 E S 25 B T

No other trees in limits.

Dig pits ,18 X 18 X 12ins. in each scc. ,5 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W.of cor.

High bench land S.W.slope ;soil light sandy loam 5 to 12 ins. deep ,medium texture, dry on sandstone base .

Timber scattering cedar and pinon.

N.89°51'E.on a random line bet. secs. 24 and 25.

40 00 Set temp. 1/4 sec. cor.

80 12 Intersect E.bdy. of Tp. 21 lks. N. of cor. of secs. 19, 24 ,25 and 30 , which is a cross(+)on a sandstone ledge marked and witnessed as described by the surveyor general .

	Thence I run
	West on a true line bet. secs. 24 and 25.
	Over broken stony mts. land; ascend abruptly.
1 25	Top of abrupt ascent, 75 ft. above sec. cor., bears N.20°W. and S.20°E.; thence gentle ascent.
21 00	Rocky spur, 150 ft. above sec. cor., projects N.40°W.
26 00	Foot of rocky spur; enter bench land, bears N.20°W. and S.20°E.
40 06	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for 1/4 sec. cor., with brass cap marked 1/4 S 24 S 25 1912 from which A lone cedar 6 ins. diam. bears N.86°45'W. 6.26 chs. dist. marked 1/4 S 24 B T. No other trees in limits. Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
57 00	Small sand stone ledge 12 ft. high, bears N.40°W and S.40°E
58 00	Head of draw, 50 ft. deep, drains N.40°W.
62 75	Spur, 60 ft. above draw, projects N.40°W.
78 00	Wash, 10 ft. deep, drains N.40°W.
80 12	The cor. of secs. 23, 24, 25 and 26. Land rolling and bench; soil light poor sandy loam, 3 to 10 ins. deep, medium texture, dry, on sandstone base. No timber. Oct. 31, 1912.

	Nov. 1, 1912; Sky is overcast and solar observations are impossible. From cor. of secs. 23, 24, 25 and 26. I run N.0°01'W. bet. secs. 23 and 24. Over rolling bench land
3 00	Wash, 6 ft. deep, drains N.40°W.

Subdivision of T 26 S.R.22 E.

21 00	Enter scattering cedar and pinon timber, bears N.40°W. and S.40°E.
22 00	Point of spur, 50 ft.high, projects N.40°W.
30 00	Leave scattering cedar and pinon timber, bears N.40°W. and S.40°E.
40 00	Set an iron post ,3 ft. long ,1 in. in dia., 24 ins. in the ground, for 1/4 sec. cor., with brass cap marked 1/4 S 23 | S 24 1912 dig pits 18 X 18 X 12 ins., N.and S.of post ,3 ft.dist., and raise a mound of earth 3 1/2 ft.base 1 1/2 ft. high, W.of cor.
54 90	Enter scattering cedar and pinion timber, bears E.and W.
56 65	Top of ledges, S.bank of Mill Creek Canyon, bears N.30°W. and S.30°E. Note; It is impossilbe to chain farther on this line on account of ledges ; therefore I erect a flag at this point. To pass the ledges I offset as follows ; West 20.00 chs. North 0°0I'W.23.35chs. East 20 00 chs. to true point for cor. of secs. 13,14,23 and 24.
80 00	Set an iron post, 3 ft. long,2 ins.in dia., 24 ins. in a stone mound, for cor. of secs. 13,14,23 and 24, with brass cap marked T 26 S R 22 E S 14 | S 13 S 23 | S 24 1912 from which A pinion 14 ins. diam. bears S.72°W.3.65 chs. dist. marked T 26 S R 22 E S 23 B T A pinion 14 ins. diam. bears N.39°35'W.4.43 chs. dist. marked T 26 S R 22 E S 14 B T No other trees in limits. and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. S. 56.65 chs. high rolling bench land; soil light poor sandy loam 5 to 12 ins. deep ,coarse texture ,dry ,on

sandstone base. N. 23.35 chs. very broken and almost solid sandstone.

Timber scattering cedar and pinion .

Nov.1,1912.

Nov.2,1912.

From the cor. of secs. 13,14,23 and 24 .

East on a random line bet. secs. 13 and 24.

40 00 Set temp. 1/4 sec. cor.

80 16 Intersect E.bdy. of Tp.40 lks. N. of the cor. of secs. 13,18, 19 and 24 ,which is a sandstone. 16 X 12 X 4 ins.above ground,plainly marked and firmly set. Bearing tree dead. 1 mark trees as follows:

A pinon 16 ins. diam. bears N.72°45'E.1.12 chs. dist.
marked T 26 S R 23 E.S 18 B T

A pinon 12 ins. diam. bears S.24°E.2.07 chs. dist.
marked T 26 S R 23 E S 19 B T

A pinon 6 ins. diam. bears S.61°W. 58 lks. dist.
marked T 26 S R 22 E S 24 B T

A pinon 14 ins. diam . bears N.14°W.3.00 chs. dist.
marked T 26 S R 22 E S 13 B T

Thence 1 run

N.89°43'W. on a true line bet . secs. 13 and 24 .

Over broken,stony mts. land,through scattering cedar and pinon timber.

9 00 Draw, 125 ft. below sec. cor.,drains S. 20°W.

10 00 Enter small smooth sandstone outcroppings,bears N.and S

36 50 Spur, 250 ft. above draw,projects S.40°E.

40 08 Set an iron post,3 ft. long, 1 in. in dia.,24 ins. in a stone mound,for 1/4 sec . cor.,with brass cap marked ,

1/4
S 13
S 24
1912

from which

A pinon 12 ins. diam. bears S.11°E. 53 lks. dist.
marked 1/4 S 24 B T

A pinon 7 ins. diam. bears N.34°W.70 lks. dist.

Subdivision of T.26 S.R.22 E.

marked 1/4 S13 B T

45 00 Head of draw drains S.40°E.; leave sandstone outcroppings

54 00 Leave scattering cedar and pinon timber bears N.40°W. and S.40°E.

56 00 Ridge, 400 ft. above draw, bears N.40°W.and S.40°E. Thence across top of ridge.

62 00 Leave ridge; descend abruptly, also enter scattering cedar and pinion timber, bears N.40°W.and S40°E.

71 00 Enter smooth sandstone ledges, bears N35°W.and S.35°E.

80 16 The cor. of secs. 13, 14, 23 and 24.

High, broken, stony mts. land; soil, poor sandy loam, underlaid with sandstone.

Timber saattering cedar and pinion.

Nov. 2, 1912:

The sky is overcast and solar observations impossible.

N.0°01'W. bet. secs. 13 and 14.

Over broken, stony, mts land, through scattering cedar and pinon timber.

Note: It is impossible to chain N. from this cor. on account of precipitous ledges; therefore I proceed to a point on line N. of top of ledges, and having previously set a flag 20 00 chs. W. of sec. cor.

From point above ledges, flag bears S.36°56'W. I determine the distance across ledges as follows:

S36°56'W 20.00

Cotan. 36°56' X base or 1.33026 X 20 00 = 26 61 chs.

26 61 Top of ridge, 600 ft. above sec. cor., bears N.45°W.and S.45°E.

40 00 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound for 1/4 sec.cor., with brass cap marked,

1/4 S14 | S 13
1912

from which

A pinion 24 ins. diam. bears N. 84°E.54 lks. dist. marked 1/4 S 13 B T

A pinion 6 ins. diam. bears S.17°W.85 lks. dist. marked 1/4 S I4 B T

44 30 Begin very abrupt descent, bears E and W.

46 50 Foot of very abrupt descent, bears E.and W.; thence gentle descent.

55 70 Draw, 700 ft. below top of ridge, drainsW.

58 40 Spur, 150 ft. above draw, projects W.

Note: It is impossible to chain farther N. on this line on account of precipitous ledges ;therefore I erect a flag on line at this point and measure a base W.15 00 chs. I now proceed to a point on line N.of canyon from which the flag on W. end of base bears S. 39°39'W. I calculate the distance across canyon as follows:

Cotan. 39°39' X base or 1.20665 X 15.00 = 18.10 chs., which added to 58.40 chs. makes

76 50 Top of ridge on N. side of canyon bears N.60°E.and S60°W.

80 00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a stone mound, for cor. of secs. 11,12 13 and 14, with brass cap marked

T 26 S	R 22 E
S 11	S 12
S 14	S 13

1912

from which

A pinon 12 ins. diam. bears N.32°30'E 65 lks. dist. marked T 26 S R 22 E S 12 B T

A pinon 16 ins. diam. bears S.47°30'E.95 lks. dist. marked T 26 S R 22 E S 13 B T

A pinon 20 ins. diam. bears S. 62°W.42 lks. dist. marked T 26 S R 22 E S 14 B T

A cedar 16 ind. diam. bears N.40°30'W. 1.72 chs. dist. marked T 26 S R 22 E S 11 B T

High, broken, stony mts. land with light poor sandy soil , underlaid with sandstone.

Timber, scattering cedar and pinon.

Nov.2,1912.

Nov.4,1912,At 8 h 44 m a.m.l.m.t. ,I set off 38°34' on the lat. arc;15°23'S.on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11,12, 13 and 14 .

Thence I run

Subdivision of T.26 S.R.22 E.

Chains	
	S.89°43'E. on a random line bet. secs. 12 and 13.
40 00	Set temp. 1/4 sec. cor.
79 96	Intersect E.bdy. of Tp. 43 lks. S. of cor. of secs. 7, 12, 13 and 18, which is sandstone 10 X 10 X 6 ins. above ground, marked and witnessed as described by the surveyor general; from which I mark a tree as follows:
	A pinon 14 ins. diam. bears N.48°W. 80 lks. dist.
	marked T 26 S R 22 E S 12 B T
	Thence I run
	S.89°59'W. on a true line bet. secs. 12 and 13.
	Over rolling mts. land, through scattering cedar and pinon timber; ascend.
14 00	Top of ascent, 125 ft. above sec. cor.; thence descend.
18 40	Head of small draw drains S10°W.
39 98	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for 1/4 sec. cor., with brass cap marked
	1/4 S 12 S 13 1912
	from which
	A pinon 16 ins. diam. bears N.10°W. 1.25 chs.dist.
	marked 1/4 S 12 B T
	A pinon 14 ins. diam. bears S.75°E. 1.00 ch. dist.
	marked 1/4 S 13 B T
52 00	Spur, 150 ft. above 1/4 sec. cor., projects S.25°W.
73 50	Draw, 200 ft. below spur, drains S .
79 96	The cor. of secs. 11, 12, 13 and 14.
	High, rolling, mts. land, light poor sandy soil, 2 to 10 ins. deep, underlaid with sandstone.
	Timber, scattering cedar and pinon.
	Nov. 4, 1912; At this cor. I set.off 15°26'S.on the decl. arc; and, at 11h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°34'

	N.0°01'W. bet. secs. 11 and 12.
	Over rolling mts. land through scattering cedar and pinon timber.

Subdivision of T.26 S.R.22 E.

7 00	Top of smooth sandstone outcropping, 50 ft. high bears N. 80°W. and S.80°E.
22 00	Top of sandstone outcropping, 70 ft. high, bears N.60°W. and S.60°E.
36 00	Head of draw, 75 ft. deep, drains N.60°W.
37 50	Top of smooth sandstone outcropping, 100 ft. high, bears N.65°W. and S.65 °E.
40 00	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground for 1/4 sec. cor. with brass cap marked ,

1/4
S 11 | S 12
1912

from which

A pinon 6 ins. diam. bears S.55°E. 54 lks. dist. marked 1/4 12 B T

A pinon 14 ins. diam. bears N.41°W. 21 lks. dist. marked 1/4 S 11 B T

41 00	Draw, 20 ft. below 1/4 sec. cor., drains N.65°W.
43 25	Top of smooth sandstone spur projects N.60°W. 75 ft. above draw.
44 40	Perpendicular sandstone ledge, 110 ft high, bears E and W.
57 00	Bottom of North Fork of Mill Creek Canyon, 400 ft. below spur, creek 20 lks. wide 1 ft. deep threads N.75.E. and runs N. to
67 00	Thence S.80°W.
80 00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a stone mound, for cor. of secs. 1,2,11 and 12 , with brass cap marked

T 26 S R.22 E
S 2 | S 1
S 11 | S 12
1912

from which

A pinon 8 ins. diam. bears N.80°E. 1.63 chs. dist. marked T 26 S R 22 E S 1 B T

A cedar 8 ins. diam. bears S.46°E. 50 lks. dist. marked T 26 S R 22 E S 12 B T

A cedar 7 ins. diam. bears S.61°W. 90 lks. dist. marked T 26 S R 22 E S 11 B T

A pinon 10 ins. diam. bears N.52°W. 1.68 chs. dist. marked T 26 S R 22 E S 2 B T

Subdivision of T.26 S.R.22 E.

This cor is 200 ft. above bottom of canyon.

High rolling and broken mts. land , with light,poor sandy soil,3 to 11 ins. deep ,underlaid with sandstone timber,scattering cedar and pinon..

Nov. 4, 1912.

Nov.5,1912 , At 9 h 30 m a.m.l.m.t. , I set off 38°35' on the lat. arc, 15°42'S.onthe decl.arc,and determine a meridian with the solar at the cor. of secs. 1,2,11 and 12 .

Thence I run

N.[illegible]E. on a random line bet. secs. 1 and 12.

40 00 Set temp. 1/4 sec. cor.

00 01 Intersect E.bdy. of Tp. 14 lks. S.of cor. of secs. 1,6,7 and 12 ,which is a cross (x) on a sandstone ledge.

I perpetuate the cor. as follows.

Set an iron post,3 ft.long.,[illegible] ins. in dia. [illegible] ins. in a mound of stone over x for cor. of secs. 1,6,7,and 12 with brass cap marked ,

T 26 S
R 22 E R 23 E
S 1 S 6
S 12 S 7
1912

from which

A cedar 6 ins. diam. bears N. 40°E.1.[illegible] chs. dist.

Marked T 26 S R 23 E S 6 S 7

No other trees in limits.
And raise a mound of stone 2 ft.base 2 ft.high [illegible].of cor.

Thence I run

N.[illegible]W. on a true line bet. secs.1 and 12 .

Over broken mts. land,through scattering cedar and pinon timber,ascend abruptly,

0 00 Top of abrupt ascent, 200 ft.above sec. cor.,bears N.20°W and S.20°E.; thence gentle descent.

27 00 Begin abrupt descent, bears N.and S.

32 00 Mouth of fan-shaped draw, 175 ft. deep,drains S.

36 00 Top of ledges, 100 ft. high,bears N.and S.;thence across S. end of mesa.

40 01 Set an iron post, 3 ft.long, 1 in. in dia.,24 ins. in a

stone mound, for 1/4 sec. cor., with brass cap marked

1/4
S 1
S 12
1912

from which

A cedar 6 ins. diam. bears S.65°E.74 lks. dist.

marked 1/4 S. 12 B T

A cedar 6 ins. diam. bears N. 55°W. 92 lks. dist.

Marked 1/4 S 1 B T

68 00 Leave mesa; abrupt descent bears N. and S.

72 00 Mouth of draw, 110 ft. below mesa, drains S.10°W.

80 02 The cor. of secs. 1,2,11 and 12.

High mesa and rolling and broken mts land, with light, poor sandy soil 4 to 6 ins. deep, underlaid with sandstone.

Timber, scattering cedar and pinon.

Nov. 5,1912, At this cor. I set off 15°44°S. S. on the decl. arc; and, at 11h 44m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38°35'.

N.0°01'W. on a true line bet. secs. 1 and 2 /

Over broken, stony mts. land, through scattering cedar and pinon timber, ascend.

4 00 Spur, 250 ft. above sec. cor., projects S. 35°E.

26 00 Draw, 75 ft. deep, drains S. 15 °E.

39 75 Ridge of slick sandstone, bears E. and W.

40 00 Falls on smooth sandstone outcropping; therefore at

40 70 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for witness cor. to 1/4 sec. cor., with brass cap marked

T 26 S R 22 E
1/4 W C
S 2 S 1
1912

from which

A cedar 12 ins. diam. bears S.28°E. 90 lks. dist.

marked W C 1/4 S 1 B T

A cedar 10 ins. diam. bears S.10°W. 25 lks. dist.

marked W C 1/4 S 2 B T

Subdivision of T .26 S.R.22 E.

Thence descend gently ,

62 00 Draw, 100 ft. deep, drains S. 80°W.

72 50. Road, Moab to Mesa, bears E.and W.

77 70 La Sal telephone line, Moab to Mesa, bears N.80°E.and S. 80°W.

91 55 Intersect Fifth Standard Parallel South 14.30 chs. E. of S.C.of secs. 34 and 35, before described.

Set an iron post, 3 ft.long, 2 ins. in dia., 24 ins. in a mound of earth and stone, for closing cor. of secs. 1 and 2 ,with brass cap marked

T 26 S R 22 E
S 34 | C C S 35
S 2 | S 1
1912

from which

A cedar 8 ins. diam. bears S.48°40'E. 3.32 chs. dist. marked T 26 S R 22 E S 1 B T

A cedar 6 ins. diam. bears S. 79°30'W. 1.76 chs. dist marked T 26 S R 22 E S 2 B T

High, rolling and broken mts land, with light, poor sandy soil 2 to 9 ins. deep , medium texture , dry , underlaid with sandstone.

Timber, scattering cedar and pinon.

Nov. 5,1912.

Nov.21, 1912: At 9 h 00 m a.m.l.m.t., I set off 38°30'on the lat .arc; 19°55'S.on the decl arc;and determine a meridian with the solar at the cor. of secs. 2,3 34 and 35, on the S.bdy of the Tp., which is an iron post, 3 ins. diam., firmly set, and marked and witnessed as described by the surveyor general.

Thence I run

N.0°0I'W. bet. secs. 34 and 35.

Over broken, stony, mts. land, through scattering cedar and pinon timber; descend.

13 00 Wood road, bears N. 50°W.and S.50°E.

17 00 Mouth of draw, 200 ft. below sec. cor., drains N.50°W.

21 00 Leave scattering cedar and pinon timber, bears N45°W

and S.45°E.

28 00 Point of spur, 75 ft. above mouth of draw, projects N.45°W.

32 00 Foot of descent; enter valley land and sandy soil.

40 11 Fall 9 lks. E. of old 1/4 sec. cor., which is a sandstone 8 x 6 X 6 ins. above ground, plainly marked but loosly set. I destroy all traces of old cor. and reestablish it at same point as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for 1/4 sec. cor., with brass cap marked

1/4
S 34 | S 35
1912

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Therefore the course of this line is N.0°09'W. 40.11 chs.

S.32 00 chs. broken and hilly; soil very stony on sandstone base. N. 8.11 chs. valley land, N. slope; soil good, brown, sandy loam, 10 to 20 ins. deep, medium texture, moist, on clay subsoil.

Timber, scattering cedar and pinon.

Moved to cor.

Thence N.0°01'W. on retracement line bet. secs. 34 and 35

40 00 Fall 7 lks. E. of cor. of secs. 26, 27 34 and 35, which is a sandstone 9 X 7 X 5 ins. above ground, plainly marked but not witnessed. I destroy all traces of old cor. and reestablish it at same point as follows:

Set an iron post, 3ft. long, 1 in. in dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, with brass cap marked

T 26 S | R 22 E
S 27 | S 26
S 34 | S 35
1912

and raise a mound of stone, 2 ft. base 1 1/2 ft. high, W. of cor.

Therefore the course of this line is N.0°07'W. 40.00 chs.

Nov. 21, 1912.

Nov. 1, 1912, From the cor. of secs. 23, 24, 25 and 26, I run

Subdivision of T.26 S .R.22 E.

West on a random line bet. secs. 23 and 26.

40 12 Fall 8 lks. S. of old 1/4 sec. cor., which is a sandstone 10 X 4 X 8 ins. above ground ,greatly crumbled and marks nearly obliterated., I destroy all traces of old cor. and re-establish it at same point as follows: Set an iron post,3ft.long, 1 in. in dia., 24 ins. in the ground, for 1/4 sec. cor ., with brass cap marked

1/4
S 23
S 26
1912

from which

A cedar 12 ins. in diam. bears N. 43°30'E.69 lks. dist. marked 1/4 S 23 B T

A cedar 6 ins. diam. bears S74°30'E 1.04 chs. dist. marked 1/4 S 26 B T

Thence I run

S.89°53'E. on a true line bet. secs. 23 and 26.

Over level valley land, through scattering cedar and pinon timber.

.50 Leave valley,begin abrupt ascent over sandstone ledges, bearing N.20°W and S.20°E.

7 25 Top of abrupt ascent, bears N.20°W.and S.20°E., 500 ft. above 1/4 sec. cor.; thence gentle ascent across bench.

20 00 Leave scattering cedar and pinon timber, bears N.20°W. and S.20°E.

34 30 Point of low spur projects N. 40°W.

40 12 The cor .of secs. 23,24 25 and 26.

W.7.25 chs. very broken and almost of solid sandstone formation . E. 32.87 chs. gently rolling bench land , with light, poor, sandy soil ,medium texture , dry , - underlaid with sandstone.

Timber, scattering cedar and pinon.

Nov. 1, 1912.

Nov 6,1912. From the cor. of secs. 13,14,23 and 24, I run N.89°53'W. on a random line bet. secs. 14 and 23 .

40 00 Set temp .1/4 sec. cor.

Subdivision of T.26 S.R.22 E.

80 20	Intersect N.and S. line 7 lks. S. of cor. of secs. 14,15,22 and 23 , which is a sandstone 14,X 14 X 6 ins. above ground , firmly set ina mound of stone and marked and witnessed as described by the surveyor general.
	Thence 1 run.
	S.89°50'E. on a true line bet. secs. 14 and 23.
	Over stony, rolling and hilly land, S.W.slope, ascend gently.
8 10	S.side of small knoll, 75 ft. above sec. cor.
15 00	Small draw , drains S. 40°W.
27 25	Begin abrupt ascent, bears N.and S.
37 00	Enter scattering cedar and pinon timber, bears N.and S.
40 10	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, for 1/4 sec. cor., with brass cap marked 1/4 S 14 S 23 1912 from which A pinon 8 ins. diam. bears S. 61°30'W. 1.10 chs. dist. marked 1/4 S 23 B T A pinion 6 ins. diam. bears N.55°W. 55 lks. dist. marked 1/4 S 14 B T
42 00	Leave scattering timber bears N.and S.
48 50	Spur, 450 ft. high, projects N.40°W.
70 25	Bottom of Mill Creek Canyon, creek 20 lks. wide 10 ins. deep, runs N. 40°W.; canyon is 625 ft. below spur.
71 00	Wood road bears N.40°W. and S.40°E.
76 00	Foot of abrupt ascent ; enter scattering cedar and pinon timber, bears N. 40°W. and S.40°E.
80 20	The cor. of secs. 13,14,23 and 24 .
	High, rolling, hilly and mts. land, with very little sandy soil, underlaid with sandstone.
	Timber, scattering cedar and pinon.
	Nov. 6,1912, ; At this cor. I set. off 16°02'S. on the decl. arc; and, at 11h 44m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38°33'

Retracement

Subdivision of T 26 S.R.22 E.

Nov. 6, 1912, At 2 h 10 m p.m.l.m.t., I set off 38°33' on the lat. arc; 16°03'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 14,15,22 and 23.

Thence I run

N.0°01'W. on retracement line bet. secs. 14 and 15 .

40 00 Intersect old 1/4 sec. cor. which is a cross (+) on a very soft sandstone outcropping. I destroy all traces of old 1/4 sec. cor. and reestablish it at same point as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, for 1/4 sec. cor., with brass cap marked

1/4
S 15 | S 14
1912

from which

A cedar 10 ins. diam. bears N.65°E. 1.35 chs. dist. marked 1/4 S 14 B T

A pinion 8 ins. diam. bears N. 76°W. 24 lks. dist. marked 1/4 S 15 B T

From this 1/4 sec. cor.

I run.

N.0°01'W. bet. secs. 14 and 15.

Over broken, mts. land, through scattering cedar and pinon timber; ascend gently.

14 60 Mail trail, Moab to Mesa, bears N.40°W. and S.40°E.

15 60 Spur 75 ft. above 1/4 sec. cor., projects N. 40°W.

23 50 Draw 150 ft. below spur, drains N.40°W.

30 00 Enter smooth sandstone outcroppings, bearing N.40°W. and S .40°E., and begin abrupt ascent; leave timber bearing E. and W.

38 66 Top of smooth sandstone ledge, 200 ft. above draw, bears N.20°W. and S.20°E.

Note; It is impossible to chain farther N. on this line on account of precipitous ledges and Mill Creek Canyon. Therefore at this point I

Set an iron post ,3 ft. long, 2 ins. in dia. 24 ins. in a stone mound, for witness cor. to secs. 10,11, 14 and 15,

with brass cap marked

T 26 S R 22 E
W C
S 10 | S 11
S 15 | S 14
1912

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

High, rolling and broken, stony, mts. land, with some poor sandy soil, underlaid with sandstone.

Timber scattering cedar and pinion.

Nov. 6, 1912.

Nov. 7, 1912. At 9 h 05 m a.m.l.m.t., I set off 38°34' on the lat. arc; 16°17'S. on the decl. arc; and determine a meridian with the solar at the witness cor. to secs. 10, 11, 14 and 15.

Note: On account of precipitous ledges and Mill Creek Canyon it is impossible to run a line E. or to chain N. from this cor.; therefore, I set a flag on line N. of Mill Creek Canyon and measure a base west 20.00 chs. to a point from which flag on N. side of canyon bears N. 39°21'E. and from the flag N. of canyon the west end of base bears S. 39°21'W. I determine the distance across the canyon as follows :

Cotan. 39°21' . X base or 1.21959 X 20.00 =24.39 chs.

which point is 24.39 chs -1.34 chs=23.05 chs. N. of true point for cor. of secs. 10, 11, 14 and 15, from which point I run

S. 89°50'E. on a random line bet. secs. 11 and 14.

On offset of 23.05 chs. N.

S89°50'E. 26.84 chs.

South 23.05 chs to line bet. secs. 11 and 14,

40 00 Set temp. 1/4 sec. cor.

80 24 Intersect N. and S. line at the cor. of secs. 11, 12, 13 and 14.

Thence I run

N. 89°50'W. on a true line bet. secs. 11 and 14.

Over rolling and broken mts. land, through scattering

Subdivision of T.26 S.R.22 E.

	cedar and pinon timber.
11 00	Smooth sandstone outcropping 35 ft.high, bears N.45°W. and S.45°E.
15 00	Draw, 100 ft. deep, drains S.45°E.
34 00	Spur, 90 ft. above draw, projects S.45°E.
34 10	A.M.Stocks' cabin bears S. 18°30'W., 45.10 chs. dist.
35 50	Draw, 75 ft. deep drains S. 45°E.
40 12	Falls on slick sandstone outcropping; impossible to set 1/4 sec. cor., therefore mark a cross (+) and at
45 75	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, for witness cor. to 1/4 sec. cor., with brass cap marked.

T 26 S R 22 E
S 11 / S 14 — W C 1/4
1912

from which

A pinon 18 ins. diam. bears S.80°E. 42 lks.dist. marked W.C. 1/4 S14 B T

A cedar 24 ins. diam. bears N.10°W. 16 lks. dist. marked W C 1/4 S 11 B T

53 40	Sandstone outcropping 150 ft. high bears N.45°W.and S 45° E.

Note: Cannot chain farther on this line on account of Mill Creek Canyon and ledges; therefore
1 run N. 23.05 chs. thence
N.89°50'W. 26.84 chs. to flag already set 23.05 chs. N. of true point for cor. of secs. 10,11,14 and 15.
Land, broken and rolling mts.; practically no. soil, with numerous sand stone outcroppings and from surface indications this line is underlaid with solid sandstone
Timber, scattering cedar and pinon.

Nov. 7, 1912:
Sky is partly overcast and solar observations are impossible.

From a point already set 23.05 chs. N.of cor. of secs. 10,11,14 and 15,
I run, (counting distance from true corner point)

N.0°01'W. bet. secs. 10 and 11 .

Over broken, mts. land ,through scattering cedar and pinon timber.

40 00 Set an iron post , 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, for 1/4 sec. cor., with brass cap marked.

1/4
S 10 | S 11
1912

from which

A pinon 6 ins. diam. bears N. 79°E.25 lks.dist. marked 1/4 S 11 B T

A pinon 10 ins. diam. bears S.62 W. 1.32 chs. dist marked 1/4 S 10 B T

43 00 Ridge 1,000 ft. above Mill Creek Canyon bears N.70°W. and S.70°E.

52 80 Draw, 325 ft. below ridge, drains N. 50°E.

58 20 Sandstone spur, 175 ft. above draw, projects S.85°E.

65 50 Draw, 150 ft. below spur, drains S. 60°E.

77 00 Sandstone spur, 100 ft. above draw, projects S.70°E.

79 25 Top of perpendicular cliffs, bears N.70°W. and S.70°E.

Note: It is impossible to chain farther on this line on account of ledges ; therefore, at this point I Set an iron post ,3 ft.long, 2 ins. in dia., 24 ins. in a stone mound, for witness cor to secs. 2,3,10 and 11, with brass cap marked

T 26 S R 22 E
W C
S 3 | S 2
S 10 | S 11
1912

from which

A pinon 10 ins. diam. bears S.46°E.38 lks. dist. marked W C T 26 S R 22 E S S 11 B T

A pinon 10 ins. diam. bears S.80°30'W. 1.48 chs. dist. marked W C T 26 S R 22 E S 10 B T

No other trees in limits.

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, very broken and almost solid sandstone.

Timber, scattering cedar and pinon.

Subdivision of T. 26 S.R.22 E.

Nov. 7, 1912.

Nov. 8,1912.

From witness cor. to secs. 2,3,10 and 11 , which is 75 lks. S. of true point for same , I run

S.89°50'E. on a random line on an offset of 75 lks. S. bet. secs. 2 and 11.

40 00 Set temp . 1/4 sec.cor.

80 20 Intersect N.and S.line 90 lks. S.of cor. of secs. 1,2, 11 and 12.

Falling 90 lks. less 75 lks.offset S.is 15 lks. South of the corner of secs.1,2,11,and 12

Thence I run

N.89°56'W. on a true line bet. secs. 2 and 11.

Over broken,stony,mts. land,through scattering cedar and pinion timber;ascend

5 00 Top of ledges,100 ft. above sec. cor.,bears N.80°E.and S .80°W.

11 90 Spur,50 ft. above top of ledge,projects S.

36 00 Draw,125 ft. below spur,drains S.

40 10 Set an iron post , 3 ft.long ,1 in. in dia.,24 ins. in a stone mound,for 1/4 sec. cor.,with brass cap marked

1/4
S 2
S 11
1912

from which

A cedar 8 ins. diam. bears S.66°W.28 lks. dist. marked 1/4 S 11 B T .

A pinon 10 ins. diam. bears N.38°W.1.54 chs. dist. marked 1/4 S 2 B T

Nov. 8,1912;At this cor. I set off 16°37'S. on the decl. arc ;and, at 11 h 44 m a.m./l.m.t. observe the sun on the meridian;the resulting lat. is. 38°35 '

63 00 Top of spur,110 ft. above 1/4 sec. cor.,projects S.

69 50 Bottom of North Fork of Mill Creek Canyon 250 ft. below spur,creek 10 lks. wide,8 ins. deep,runs N.10°W. about 15.00 chs.;thence West.

Subdivision of T.26 S.R.22 E.

71 00 On account of W.C.to secs. 2,3,10,and 11 being 75 lks. S.of true point, I now offset 75 lks. S.

80 20 The witness cor. to secs. 2,3, 10 and 11.

Land, broken and mts., almost solid sandstone formation.

Timber, scattering cedar and pinon.

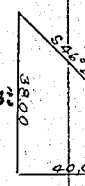
Nov. 8, 1912 ,At 2 h 25 m p.m.l.m.t. ,I set off 38°35'on the lat. arc; 16°39'S.on the decl. arc; and determine a meridian with the solar at the witness cor. to secs. 2,3, 10 and 11,which is 75 lks. S.of true point for cor.

Thence I run,

N.0°01'W.on a true line bet. secs. 2 and 3.

Over broken, stony, ledgy, mts. land, through scattering cedar and pinon timber.

Note ; On account of precipitous ledges it is impossible to chain N. from this cor. ; therefore I erect a flag at this cor. and proceed to a point on line N. of canyon, from which point a flag already set 40.00 chs. E. of the witness cor.to secs. 2,3,10 and 11 bears S. 46°28'E.



I calculate the distance across the canyon as follows:

Cotan. 46°28'X base or .95007X 40 00 =38 00 chs. less 75 lks., which makes

37 25 N .side of North Fork of Mill Creek Canyon bears E.and W.

40 00 Falls on smooth sandstone ledge where it impossible to set cor.

41 84 Set an iron post, 3 ft.long, 1 in. in dia., 24 ins. in the ground,for witness cor. to 1/4 sec. cor.,with brass cap marked

T 26 S R 22 E
1/4 W.C.
S 3 S 2
1912

from which

A pinion 10 ins. diam. bears East,5 lks. dist. marked W.C. 1/4 S.2 B T

A pinion 8 ins. diam. bears N.85°W. 30 lks. dist. marked W C 1/4 S 3 B T

59 15 Sandstone ridge, 250 ft. above 1/4 sec. cor., bears N.80°W and S. 80°E.

Subdivision of T.26 S.R.22 E.

76 50 Draw, 130 ft. below ridge, drains N. 75 W.

85 00 Road, Moab to Mesa, bears N.50°W. and S.50°E.

87 00 Top of sandstone outcropping, 60 ft above road, bears N. 50°W. and S.50°E.

91 65 Intersect Fifth Standard Parallel South 14.18 chs. E. of the St. Cor. of secs. 33 and 34, heretofore described.

Set an iron post, 3 ft. lnng, 2 ins. in dia., 24 ins. in a stone mound, for closing cor. of secs. 2 and 3, with brass cap marked

T 25 S R22 E
S 33 | S 34
C C
S 3 | S 2
1912

from which

A pinon 12 ins. diam. bears S 50°30'E. 1.13 chs. dist.
marked T 26 S R 22 E S 2 B T

A pinon 8 ins. diam. bears S.58°W. 53 lks. dist.
marked T 26 S R 22 E S 3 B T

Land broken and mountainous, with numerous sandstone outcroppings. S.60.00 chs. almost solid sandstone; N. 31 65 chs. with a thin layer of sand on sandstone. Timber, scattering cedar and pinon.

Nov. 8, 1912.

Nov. 20, 1912, Sky is over cast and solar obs. impossible

Note; It is impossible to chain N. from W.C. to secs. 3,4,33 and 34 on account of precipitous ledges; therefore I proceed to W.C. to 1/4 sec. cor. bet. secs. 3 and 34 on S. bdy. of Tp., which is 2.15 chs. W. of true point for same, from which I run

West on S. bdy. of Tp. 9.63 chs.

Thence N.0°02'W. 10.80 chs.

Thence West 28.22 chs. to a point on line bet. secs 33 and 34.

Thence I run

N.0°02'W. bet. secs. 33 and 34.

Over very rough, broken, stony, mts. land, through scattering cedar and pinon timber; ascend.

Subdivision of T 26 S.R.22 E.

	Counting distance from true point for cor. of secs. 3,4, 33 and 34.
13 00	Sand stone spur 300 ft.above true point for cor. of secs. 3,4,33 and 34, projects W.
23 00	Draw, 125 ft. below spur, drains W.
27 70	Spur 100 ft. above draw projects S.80°W.
29 50	Draw 90 ft. below spur, drains S.80°W.
35 70	Dome on spur 200 ft. above draw, projects S.80°W.
40 00	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, for 1/4 sec. cor., with brass cap marked,

1/4 | S 33 | S 34
1912

from which

A cedar 10 ins. diam. bears East 30 lks. dist. marked 1/4 S 34 B T

A pinion 12 ins. diam. bears S.80°W. 52 lks. dist. marked 1/4 S 33 B T

44 50	Draw 150 ft. below dome drains W.
47 50	Spur 110 ft. above draw, projects W.
52 50	Head of draw 75 ft. below spur, drains W.
56 50	Top of rim rock 135 ft. above head of draw, bears N.40°W. and S.40°E.

Note ; It is impossible to chain farther on this line on account of precipitous ledges ; therefore I erect a flag on line at this point and proceed to a point on line below ledges ,from which I measure a base East 12 00 chs. to a point from which flag on top of ledges bears S.39° 10'W.; I calculate the distance across the ledges as follows :

Cotan. 39°10'X base or 1.22758 X12 00 =14 73 chs. which added to 56.50 chs. makes

71 23	Foot of ledges 500 ft. high bears N.40°W.and S.40°E. Thence very abrupt descent.
80 00	Set an iron post, 3 ft. long, 2 ins. in diam. 24 ins. in a stone mound, for cor. of secs. 27,28,33 and 34, with brass cap marked,

SUBDIVISION OF T.26 S., R.22 E.

Chains.

T 26 S | R 22 E
S 28 | S 27
S 33 | S 34
1912

from which

A pinon 5 ins. diam., bears N.35° E. 18 lks. dist. marked T 26 S R 22 E S 27 B T

A pinon 12 ins. diam., bears S.49° 30'E. 1.82 chs. dist., marked T 26 S R 22 E S 34 B T

A pinon 6 ins. diam., bears N.46° W.40 lks. dist. marked T 26 S R 22 E S 28 B T

No other trees in limits. Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Land, very broken and mountainous; practically no soil; almost solid sandstone.

Timber, scattering cedar and pinon. Nov. 20, 1912.

Nov. 21, 1912:

East on a random line bet. secs. 27 and 34,

40.03 Fall 5 lks. S. of ¼ sec. cor., which is a sandstone 20 x 10 x 6 ins. above ground, plainly marked, but loosely set in a mound of stone, and not witnessed. I destroy all traces of old cor., and re-establish it at same point as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, with brass cap marked

¼
S 27
S 34
1912

from which

A pinon, 6 ins. diam., bears S.30° E., 39 lks. dist., marked ¼ S 34 B T

A cedar, 5 ins. diam., bears N.78° E. 89 lks. dist. marked ¼ S 27 B T

Thence I run

S.89° 56'W. on a true line bet. secs. 27 and 34,

Over stony, broken, mts. land; through scattering cedar

SUBDIVISION OF T.26 S., R.22 E.

Chains.	
	and pinon timber.
2.00	Point of spur, 50 ft. above ¼ sec. cor., projects N.50° W.
6.00	Draw, 150 ft. below spur, drains N.40° W.
13.00	Point of spur, 100 ft. above draw, projects N.45° W.
19.00	Mouth of draw, 110 ft. below spur, drains N. Thence begin very abrupt ascent.
40.03	The cor. of secs. 27, 28, 33, and 34. Land, broken and mountainous. Soil, light, poor, sandy loam, on sandtone subsoil. Timber, scattering cedar and pinon. Nov. 21, 1912: At this cor. I set off 19° 57' S. on the decl. arc; and at 11h 46m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 38° 31'
	N.0° 02' W. on a random line bet. secs. 27 and 28,
40.00	Set temp. ¼ sec. cor.
80.48	Intersect the cor. of secs. 21, 22, 27, and 28, which is a sandstone 6 x 10 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. Thence I run
	S.0° 02' E. on a true line bet. secs. 27 and 28,
	Over gently rolling valley land; ascend gently.
4.00	Leave valley; enter foothills bear N.45° W., and S.45° E.
12.50	Enter scattering cedar and pinon timber, bears E. and W.
32.00	Spur, 350 ft. above valley, projects N.60° E.
40.24	Position for ¼ sec. cor. W. bdy. sec. 27.
40.48	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in a stone mound for ¼ sec. cor., with brass cap marked ¼ S 28 | S 27 1912 from which A pinon, 7 ins. diam., bears S.72° E. 2.50 chs. dist., marked ¼ S 27 B T A pinon 6 ins. diam., bears S.52° 30' W. 2.10 chs. dist., marked ¼ S 28 B T This corner shall hereafter refer to sec. 28 only.
47.50	Draw, 275 ft. below ¼ sec. cor., drains N.60° E.
54.00	East side of remains of old brush corral.
55.00	Begin very abrupt ascent.

Subdivision of T.26 S.R.22 E.

80 48 The cor. of secs. 27,28,33 and 34.

N.4 00 chs. valley land; soil light sandy loam ,5 to IO ins. deep on sandy subsoil. S. 76 48 chs. broken and hilly almost solid sand stone .

Timber scattering cedar and pinion.

Nov. 21,1912.

J Nov.9,1912, At 8h 44 m a.m .l.m.t. I set off 38° 34' on the lat. arc.; 16°52'S.on the decl. arc; and determine a meridian with the solar at the cor. of secs 9,IO,15 and 16, which is a sand stone IO X IO X 4 ins. above ground firmly set but not witnessed, and plainly marked.

I mark trees as follows

A cedar 14 ins. diam. bears N39°E. 1 25 chs. dist. marked T.26 S.R.22 E.S. IO BT.

A cedar IO ins. diam. bears S.16°30'E.1 89 chs. dist marked T 26 S R 22 E S15 B T

A cedar 7 ins. diam. bearsS.79°W. 97 lks. dist. marked T 26 S R 22 E S16 B T

A cedar 6 ins. diam. bearsN.79°40'W. 1 39 chs. dist. Marked T 26S R 22 E S 9 B T

Thence I run

S.89°54'E. on retracement line bet. secs. IO and 15 .

40 20 Intersect remains of old 1/4 sec. cor. which is a sand stone badly crumbled and marks nearly obliterated. I destroy all traces of old cor. and re-establish it at same point as follows:

Set an iron post, 3 ft. long ,1 in. in dia. 24 ins. in the ground for 1/4 sec. cor. with brass cap marked

1/4
S IO
S 15
1912

from which

A cedar IO ins. diam. bears N.14°E.3.80 chs. dist. marked 1/4 S IO B T

No other trees in limits

Dig pits 18 X 18X 12 ins., E.and W. of post ,3 ft.

Subdivision of T.26 S.R .22 E.

dist. ;and raise a mound of earth 3 1/2 ft. base ,1 1/2 ft. high N. of cor.

Therefore the course of this line is as reported and distance is40.20 chs.

From the 1/4 sec. cor. bet. secs. IO and 15, I run S.89°54'E. on a random line bet? secs. IO and 15.

35 00 Base of ledges impossible to chain over; therefore I offset as follows '

South 1.34 chs. thence S.89°54'E. 5.22 chs. to

40 22 Intersect N.and S.line 9 lks. N. of witness cor. to secs. IO,11,14 and 15, which is 1.34 chs. S.0°01'E. of true point for same.

Thence I run

N.89°46W. on offset line bet. secs. IO and 15.

Over broken sand stone ledges descend.

5 00 Leave ledges enter rolling mts. land, bears N.40°W.and S.40°E.; also enter scattering cedar timber, bears N.and S.

7 70 Draw 250 ft. below W.C., drains N.40°W.

20 00 Top of spur 275 ft. above draw projects N.40°W.

21 00 Offset 1.34 chs. N. onto true line bet. secs. IO and 15.

28 80 Mail trail Moab to Mesa bears N.70°W. and S.70°E.

40 22 The 1/4 sec. cor. bet. secs. IO and 15.

E.5.00 chs. solid sand stone, W.35.22 chs. rolling mts., soil light sandy loam IO to 20 ins. deep, medium texture, moist , underlaidd with sand stone.

Timber scattering cedar.

Nov. 9,1912. At this cor. I set off 16°55'S. on the decl arc; and at 11 h 44m a.m. l.m.t. observe the sun on the merid meridian the resulting lat. is 38°34'

N.0°02'W. bet . secs. 9 and IO .

Over rolling mts. land stony, through scattering cedar timber, ascend gently,

22 20 Mail trail Moab to Mesa, Utah. bears N80°W. and S.80°E.

26 80 Spur 20 ft. above sec. cor. projects N55°W.

Subdivision of T.26 S.R.22 E.

40 00 Set an iron post, 3 ft.long, 1 in. in dia., 24 ins . in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 9 | S IO
1912

from which

A cedar IO ins. diam. bears N.50°E.74 lks. dist. marked 1/4 SIO B T

A cedar 6 ins. diam. bears N.40°20'W.1.78 chs. dist. marked 1/4 S9 B T

43 00 Top of bank of S.side of Mill Creek Canyon bears N.60°W. and S.60°E.

Note ; It is impossible to chain farther on this line on account of precipitous ledges ; therefore at this point I erect a flag and measure a base 18.00 chs. West. I now proceed to a point on line N. of canyon from which the flag on West end of base bears S. 48°00'W. I determine the distance across the canyon as follows ;

Cotan. 48°00' X base or .90040 X 18 00 = 16 21 chs.

which added to 43 00 chs. makes

59 21 Top of ledges N. of and 625 ft. above canyon bears N. 60°W. and S.60°E.; also enter scattering pinion among cedar.

68 85 Top of ridge 75 ft. above ledges bears N.60°W.and S.60°E.

80 00 Set an iron post,3ft. long 2ins. in dia. 24 ins. in a stone mound for cor. of secs.3,4,9 and IO , marked on brasscap,

T 26 S | R 22 E
S 4 | S 3
S9 | S IO
1912

from which

A pinon 8 ins. diam. bears N.68°E.1 20 chs. dist. marked T 26 S R 22 E S3 B T

A cedar 12 ins.diam. bears S.2°30'E. 93 lks. dist. marked T26 S R 22 E SIO B T

A cedar 20 ins. diam. bears S.42°W. 60 lks. dist. marked T26 S R 22 E S 9 B T

A pinon 6ins. diam. bears N.81°W. 82 lks. dist. marked T 26 S R 22 E S4 B T

S.43 00 chs. rolling mts. land, with light poor sandy soil,

S.48°00'W.
18.00

underlaid with sand stone . N.37 00 chs. almost solid sand stone .

Timber scattering cedar and pinion.

Nov. 9, 1912.

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Nov.11,1912,

On account of heavy rain storm field work impracticable.

Nov.12,1912,At 8 h44m a.m.l.m.t.,I set off 38°35' on the lat. arc; 17°42'S.on the decl. arc; and determine a meridianwith the solar at the cor. of secs. 3,4,9 and IO.

Thence I run

S.89°54'E.on a random line bet.secs.3 and IO.

40 00 Set temp. 1/4 sec. cor.

75 00 Note; It is impossible to chain farther on this line on account of precipitous ledges ; therefore I offset 75 lks. S. Thence

S.89°54'E.5 40 chs. which added to 75 00 chs. makes

80 40 Intersect N.and S. line 21 lks. N. of witness cor. to secs. 2,3,IO and 11 .

Thence I run

N.89°45'W. on an offset of 75 lks. S.of true line bet. secs. 3 and IO .

Over broken mts. land and numerous smooth sand stone outcroppings through scattering cedar aned pinion timber

5 40 Top of spur 100 ft. above W.C. projects S.45°E.

Thence I offset N. 75 lks. on to true line bet.secs. 3 and IO. Thence.

N.89°45'W. on true line bet. secs. 3 and IO.

21 00 Draw 75 ft. deep drains S. 40°E.

39 00 Sand stone spur 175 ft. above draw projects N.25°W.

40 20 Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked ,

1/4
S 3
S IO
1912

from which

Subdivision of T.26 S.R.22 E.

A pinon 16 ins. diam. bears N.80°E. 78 lks. dist.
marked 1/4 S.3 B T

A cedar 12 ins. diam. bears S.75°E. 1 45 chs. dist.
marked 1/4 S IO B T

42 00 Draw 75 ft. below 1/4 sec. cor. drains N. 45°W.

59 00 Spur 85 ft. above draw projects N. IO°w.

68 00 Draw 60 ft. below spur drains N. IO°W.

80 40 The cor. of secs. 3,4,9 and IO.

Land mountainous and almost solid sand stone .

Practically no soil.

Timber scattering cedar and pinion.

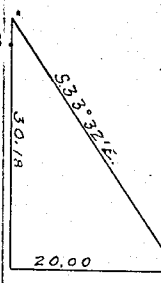
Nov. 12 , 1912, At this cor. I set off 17°45'S. on the decl. arc; and at 11 h 44 m a.m./p.m. l.m.t. observe the sun on the meridian, the resulting lat?. is 38°35'.

N.0°02'W. on a true line bet. secs.3 and 4 .

Over broken stony mts. land through scattering cedar and pinion timber.

8 00 Top of perpendicular ledges on S.side of N.Fork of Mill Creek Canyon bears E and W.

Note : It is impossible to chain farther on this line on account of ledges and canyon. In order to determine the distance acrossthe canyon I measure a base East 20.00 chs. I now proceed to a point on line N. of canyon from which flag on East end of base bears S.33°32'E.; I calculate the distance across the canyon as follows:



Cotan. 33°32 'X base or 1.50893 X 20 00 = 30 18 chs.
which added to 8.00 chs. makes

38 18 North edge of canyon bears E and W.

40 00 Set an iron post ,3 ft.long, 1 in. in dia., 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked ,

1/4 | S 4 | S 3
1912

For corrective notes see page 64 of this book.

from which

A pinon 5 ins. diam. bears N.23°E.14 lks. dist.
marked 1/4 S 3B T

A pinon IO ins. diam. bears West69 lks. dist.

marked 1/4 S 4 B T

53 50 Ridge 650 ft. above canyon bears E and W.

91 19 Intersect Fifth Standard Parallel S. 14.25 chs. E. of standard cor. of secs. 32 and 33, heretofore described.

Set an iron post, 3 ft. long ,2 ins. in dia. 24 ins in a stone mound for closing cor. of secs. 3 and 4 with bra brass cap marked,

T 25 S | R 22 E
S 32 | S 33
CC
S 4 | S 3
1912

from which

A cedar 10 ins. diam. bears S37°E. 1 86 chs. dist.

marked T 26 S R 22 E S 3 B T

A pinon 12 ins. diam. bears S.72°10'W.1 24 chs. dist.

marked T 26 S R 22 E S 4 B T

Land broken and mountainous almost solid sandstone.

Practically no soil.

Timber scattering cedar and pinion.

Nov. 12 ,1912.

Nov. 16, 1912, From the cor. of secs. 17 and 20 , which is a sand stone 10 X 6 X 6 ins. above ground;marks nearly obliterated, I destroy all traces of the old cor. and re-establish it at samepoint as follows ,

Set an iron post, 3 ft. long ,2 ins. in dia. 24 ins in the ground for cor. of secs. 17 and 20 with brass cap marked

T 26 S | R 22 E
S 16
S 17
S 20
S 21
1912

Raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor.

Thence 1 run

S.0°03'E. on retracement line on E. bdy. of sec. 20.

10 58 Intersect closing cor. of secs. 16 and 21 which is a sand stone8X 8 X 6 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

Retracement

Subdivision of T.26 S.R.22 E.

40 07 Intersect 1/4 sec. cor., which is a sand stone 8 X 6 X 4 ins. above ground firmly set ,and marked and witnessed as described by the surveyor general.

80 00 Find no trace of cor. of secs. 20 and 29.

91 07 Intersect the remains of the old closing cor. of secs. 21 and 28., I destroy all traces of old cor. and re-establish it at same point as follows :

Set an iron post. 3 ft. long ,2 ins. in dia. 24 ins. in the ground for cor. of secs. 20,21,28 and 29, with brass cap marked

T 26 S	R 22 E
S 20	S 21
S 29	S 28

1912

from which

A cedar 12 ins. in diam. bears N.19°E. 6.73 chs. dist. marked T 26 S R 22 E S 21 B T

A cedar IO ins. diam. bears S.2°E. 8 lks. dist. marked T 26 S R 22 E S 28 B T

A cedar 6 ins. diam. bears S.8°W. 2 06 chs. dist. marked T 26 S R 22 E S 29 B T

A cedar 4 ins. diam. bears N.20°W.1.00 chs. dist. marked T 26 S R 22 E S 20 B T

Therefore the course of this line is as reported.

From the cor. of secs .20 21 ,28 and 29, I run South on a random line bet.secs . 28 and 29 ,and 32 &33, setting 1/4 sec. and sec.cors .at intervals of 40 00 chs.

Note: It is impossible to chain S. from here on account of precipitous ledges ; therefore I measure a base East 39 40 chs. and proceed to a point on line on top of ledges from which the flag on East end of base bears N. 37°08'E. ; I calculate the distance as follows:

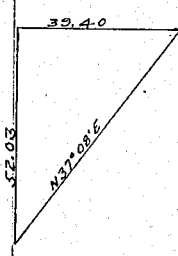
Cotan. 37°08' X base or I.32064 X 39 40 = 52 03 chs.

52 03 Top of rim rock 1300 ft. above sec.cor. bears N.45°W and S.45°E.

Set temp. witness cor. to 1/4 sec. cor.

80 00 Set temp . cor. of secs. 28,29,32 and 33 .

Nov. 16,1912.



Subdivision of T.26 S.R.22 E.

Nov. 18, 1912 From temp. cor. of secs. 28,29,32 and 33 .

1 run

South on a random line bet. secs. 3 2 and 33 .

39 50 Note: On account of precipitous ledges it is impossible to chain farther S. on this line; therefore I

Set temp. witness cor. to 1/4 sec. cor.

In order to pass ledges, I measure an offset West of temp. 1/4 sec. cor. as follows:

West 3.30 chs. Thence

South on offset line. 10.22 chs.

Note; Cannot chain farther on this line on account of precipitous ledges; therefore I erect a flag at this point and proceed to a point on line on South side of canyon, from which I measure a base N. 58°19'W. 13.52 chs. (on account of ledges it is impossible to get a longer base).

to a point from which flag on N. side of canyon bears N. 35°16'E. therefore the angle from the West end of base measures 86°25' and the base subtends an angle of 35°16'; the angles taken in the order of their measurement are, respectively 58°19', 86°25' and 35°16' and the distance across canyon or bet. flags is

$$\frac{\text{Sin } 86°25'}{\text{Sin } 35°16'} \times 1352 \text{ or } \frac{.99804}{.57738} \times 1352 = 23.37 \text{ chs.}$$

Thence S. 7 62 chs., which with all distances on random added makes 160 71 chs. Intersect N. bdy. of T.27 S. R. 22 E. 5 lks. W. of W.C. to 1/4 sec. cor. on N. bdy. of sec. 4, which is an iron post, 1 ft. above stone md. and marked and witnessed as described by the surveyor general

Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in a stone mound for witness cor. to closing cor. of secs. 32 and 33, with brass cap marked

T 26 S R 22 E
W | C
S 32 | 33
CC
S 4
1912

from which

Subdivision of T.26 S. R.22 E.

A pinon: 8 ins: diam. bears N.55°W. 53 lks. dist.

marked W C T 26 S R 2 2 E S 32 B T

No other trees in limits .

Raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor

Nov. 18, 1912, At this cor 1 set off 19°16'S. on the decl. arc; and at 11h 45 m/a.m./l.m.t. observe the sun on the meridian; the resulting lat. is 38°30'

Thence 1 run

North on an offset line of 3.30 chs. West of true line bet. secs. 32 and 33 .

Over very broken mts. land through saattering cedar and pinion timber ascend.

7 60 Top of sand stone spur 150 ft. above W.C., projects N.60°W

30 87 North side of canyon (canyon 400 ft. deep drainsN.60°W)

40 00 The point for 1/4 sec. cor. falls on sand stone ledge.

41 21 Measure 3.30chs. E. onto true line bet. secs. 32 and 33

Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound for witness cor. to 1/4 sec. cor. with brass cap marked

T 26 S R 22 E
1/4 W C
S 32 | S 33
1912

from which

A cedar 6 ins. diam. bears .N.9°50'W.75 lks. dist.

marked W C 1/4 S 32 B T

No other trees in limits.

Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

46 70 Point of sand stone spur projects W.

50 40 Sand stone ledge 100 ft. high bears E. and W.

60 50 Draw 250 ft. below spur drains W.

75 00 Point of spur 300 ft. above draw projects S. 80°W.

80 00 Set an iron post, 3 ft. long, 2 ins. diam. 24 ins. in a stone mound forcor. of secs. 28,29,32 and 33 withbrass cap marked

T 26 S | R 22 E
S 29 | S 28
S 32 | S 33
1912

from which

Subdivision of T .26 S.R.22 E.

A cedar 8 ins. diam. bears N.12°E. 1.07 chs. dist.

marked T 26 S R 22 E S 28 B T

A pinion 8 ins. diam. bears S.35°E.39 lks. dist.

marked T 26 S R 22 E S 33 B T

A pinion 6 ins. diam. bears S.54°W. 28 lks. dist. marked

T 26 S R 22 E S 32 B T

A pinion 9 ins. diam. bears N. 4°W. 46 lks. dist.

marked T 26 S R 22 E S 29 B T

Land mountainous and very broken

Almost no soil;nearly solid sand stone formation .

Timber scattering cedar and pinon..

Nov. 18, 1912.

Nov.19,1912. AT 8 h55 m a.m.l.m.t. ,I set off 38°31'on the lat. arc; 19°27'S.on the decl. arc; and determine a meridian with the solar at the cor .of secs. 28,29 ,32 and 33 .

East on a random line bet. secs. 28 and 33 ,

22 36 Note: Cannot chain farther on this line on account of precipitous ledges ; therefore I erect a flag at this point and proceed to a point on line below ledges ,from which I measure a baseSouth 8.00 chs. to a point from which flag on ledges bears N. 62°21'W.; I calculate the distance across ledges as follows:

Tan. 62°21' X base or 1.90876 X 8 00.= 15 27 chs. which added to 22.36 makes

37 63 Foot of ledges, bears N.45°W.and S.45°E.

39 41 Intersect N.and S. line 10 lks. S. of cor. of secs. 27, 28, 33 and 34 .

Thence I run S.89°51'W. on a true line bet. secs. 28 33

Over very broken, mts. land, through scattering cedar and pinon timber;ascend abruptly,

1 [illegible] Foot of ledges 75 ft. above sec. cor. bears N.45°W.and S.45°E.

17 [illegible] Top of ledges (rim rock) 650 ft. above sec. cor. bears 45°W. and S.45°E.

SUBDIVISION OF T.26 S., R.22 E.

Chains.	
39.41	The cor. of secs. 28, 29, 32, and 33. This cor. is 425 ft. below rim rock.
	Land, mountainous and very broken. Practically solid sandstone.
	Timber, scattering cedar and pinon.
	North bet. secs. 28 and 29,
	Over broken mts. land; through scattering cedar and pinon timber; along steep W. slope.
12.70	Head of draw, 100 ft. below sec. cor., drains S. 60° W.
24.25	Top of spur, 325 ft. above draw, projects N. 45° W.
28.68	Top of rim rock, 75 ft. below top of spur, bears N. 45° W. and S. 45° E.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in a stone mound, for witness cor. to ¼ sec. cor., with brass cap marked
	T 26 S | R 22 E ¼ W | C S 29 | S 28 1912
	from which
	A cedar, 10 ins. diam., bears S. 39° E. 66 lks. dist. marked W C ¼ S 28 B T
	A pinon 10 ins. diam., bears N. 68° W. 92 lks. dist. marked W C ¼ S 29 B T
39.85	Position for ¼ sec. cor. E. bdy. sec. 29. Impossible to set cor.
40.00	Position for ¼ sec. cor. on W. bdy. sec. 28. Impossible to set cor.
	Nov. 19, 1912: At this corner I set off 19° 30' S. on the decl. arc; and at 11h 45m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 38° 31', or within 1' of the proper lat.
80.71	The cor. of secs. 20, 21, 28, and 29.
	Land, broken and mts.; almost solid sandstone formation.
	Timber, scattering cedar and pinon.

RETRACEMENT

SUBDIVISION OF T.26 S., R.22 E.

Chains.	
	East on retracement line bet. secs. 21 and 28,
39.40	Intersect N. and S. line 10 lks. N. of cor. of secs. 21, 22, 27, and 28, which is a sandstone 10x8x7 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. Therefore the course of this line is S. 89° 51'E. and distance is 39.40 chs. Nov. 19, 1912.
	Nov. 13, 1912: From the closing cor. of secs. 9 and 16, which is a sandstone 10x6x3 ins. loosely set in a mound of stone and marks nearly obliterated, I destroy all traces of the old cor., and re-establish it at same point as follows:
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in a stone mound for closing cor. of secs. 9 and 16, with brass cap marked
	T 26 S R 22 E S 8 | S 9 CC S 16 S 17 1912
	Raise a mound of stone 2 ft. base, 1½ ft. high E. of cor.
	East on retracement line bet. secs. 9 and 16,
39.37	Intersect N. and S. line 7 lks. S. of cor. of secs. 9, 10, 15, and 16. Therefore the course of this line is N. 89°54'E. and the distance is 39.37 chs.
	From the closing cor. of secs. 9 and 16, I run
	N. 0° 03'W. bet. secs. 8 and 9,
	Over stony, rolling, mts. land; ascend.
10.50	Intersect cor. of secs. 8 and 17, which is a sandstone 25x 10x6 ins. in a mound of stone loosely set and dimly marked. I destroy all trace of old cor., and re-establish it at same point as follows:
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a stone mound for cor. of secs. 8 and 17, with brass cap mkd.
	T 26 S R 22 E S 8 | S 9 S 17 S 16 1912

Subdivision of T.26 S.R.22 E.

Raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor
This cor. is located on W.slope of rocky knoll, 100 ft.
above C.C.of secs. 9 and 16 .

14 60 Wood road bears N.40°E. and S.40°W.

16 60 Small draw 75 ft. below sec. cor. drains S50°W.

20 00 Mail trail Moab to Mesa bears N.40°E.and S.40°W.

31 00 Enter scattering cedar timber bears E.and W.

40 00 Set an iron post, 3 ft. long , 1 in. in dia. 24 ins in the ground for 1/4 sec. cor. with brass cap marked

1/4 |
S 8 | S 9
1912

For corrective note see page 65 of this book.

from which

A cedar 7 ins. diam. bears N.19°30'E. 6.20 chs. dist
marked 1/4 S 9 B T

A cedar 12 ins. diam. bearsN11°10'W. 3 70 chs. dist.
marked 1/4 S 8 B T

Nov. 13, 1912, At this cor. I set off 18° 01'S. on the decl. arc; and at 11 h 44 m a.m./l.m.t. observe the sun on the meridian the resulting lat. is 38°34'

60 00 Spur 150 ft. above 1/4 sec. cor., projects N.75°W.

65 10 Top of ledges on S.side of Mill Creek Canyon, bears N.75W. and S.75°E.; also leave scat.. cedar timber, bears E.and W.
Note: It is impossible to chain farther on this line on account of ledges. In order to determine the distance across the canyon, I set a flag on line on N. side of canyon and measure a base West 8 00 chs. to a point from which flag N. of canyon bears N. 35°20'E.and from the flag N. of canyon West end of base bears S.35°20'W. I determine the distance across the canyon as follows:

Cotan 35°20' X base or 1.41061 X 8 00 = 11.28 chs.
which added to 65.10 chs.makes

76 38 Smooth sand stone ledges on N. side of Mill Creek Canyon
8 bear N80°W. and S.80°E.

80 00 Set an iron post, 3 ft.long ,2 ins. in dia. 24 ins. in a stone mound for cor. of secs. 4,5,8 and 9 , with brass cap marked

T 26 S.	R 22 E
S 5	S 4
S 8	S 9

1912

Raise a mound of stone, 2 ft.base, 1 1/2 ft. high, W. of cor.

S. 60 00 chs. rolling mountainous land South slope; soil light poor sandy loam, 2 to 5 ins. deep, coarse texture, dry, on sand stone base. N.20 00 chs. broken and ledgy; almost solid sand stone formation

Timber scattering cedar.

Nov. 13/,1912.

Nov. 14,1912,

N.89°54'E. on a random line bet. secs. 4 and 9.

39.30 Intersect N.and S. line 3 lks. S. of cor. of secs. 3,4,9 and 10.

Thence I run

S.89°52'W. on a true line bet. secs. 4 and 9.

Over broken mts. land, through scattering cedar and pinon timber; descend.

3 00 Leave scattering cedar and pinion timber, bears N.45°E and S.45°W.

7 00 Sand stone dome 75 ft. high.

23 50 Crevice in rocks drains N.50°W.

27 00 Point of sand stone spur, 75 ft. above crevice projects N.50°W.

39 30 The cor. of secs. 4,5,8 and 9.

Land mountainous,

Almost solid sand stone formation.

Timber, scattering cedar and pinon.

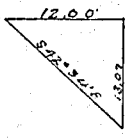
N.0°03'W. on a true line bet. secs. 4 and 5.

1 50 Top of point of spur, 90 ft. above sec.cor., projects. N75°W

Nov. 14, 1912, At this point I set off 18°16'S.on the decl. arc; and at 11 h 44 m a.m./p.m. t, observe the sun on the meridian the resulting lat. is 38°35'

Note: It is impossible to chain farther N. on this line

on account of precipitous ledges and North Fork of Mill Creek Canyon (Which is a box canyon.) ; therefore I erect a flag at this point and proceed to a point on line on N. edge of canyon, from which I measure a base West 12 00 chs to a point fro m which flag South of canyon bears S.42° 34'E.; I calculate the distance across the canyon as follows



Cotan. 42°34' X base or 1.08876 X 12 00 = 13 07 chs. which added to 1 50 chs. makes

14 57 North side of North Fork of Mill Creek Canyon, enter slick sand stone outcroppings; bears E. and W.

23 90 Ridge 750 ft. above bottom of canyon, bears N.80°W. and S.80°E.

25 00 Enter scattering pinon timber, bears E and W.

40 00 Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

For corrective notes see page 63 of this book.

1/4
S 5 | S 4.
1912

from which

A pinon 12 ins. diam. bears S.34 °E. 20 lks. dist. marked 1/4 S 4 B T

A pinon 16 ins. diam. bears N.3°45'W. 2 23 chs. dist marked 1/4 S 5 B T

68 00 Draw 250 ft. below ridge drains N10°W.

70 00 Leave sand stone outcroppings; enter sand flat bears N.20° E and S. 20°W. also scattering timber bears E. and W.

90 26 Intersect Fifth Standard Parallel South 15.07 chs. N.88°46'E of 1/4 sec. cor. on S. bdy. of sec. 32, which is an iron post , 1 in. in dia. 12 ins. above ground firmly set , and marked and witnessed as described by the surveyor general.

Set an iron post, 3 ft. long ,2 ins. in dia., 24 ins. in the ground for closing cor .of secs. 4 and 5 , with brass cap marked

For corrective notes see page 6 of this book.

T 25 S R 22 E
S 32 | S 33
C C
S 5 | S 4
1912

South Boundary of sec. 32.
~~Subdivision~~ of T.26 S .R.22 E.

from which

A lone cedar tree 6 ins. diam. bears S.78°38'E.1 54 chs.
dist. marked T 26 S R 22 E S 4 B T

No other trees in limits.

Dig pits 24 X 18 X 12 ins. crosswise on each line ,E.and W
3 ft. and S.of post 7 ft.dist.; and raise a mound of
earth,4 ft. base 2 ft. high S. of cor.

S. 70 00 chs. broken and mts. almost solid sand stone

N. 20 26 chs. sand flat soil sandy loam ,medium texture,
4 to 12 ins. deep,dry,on sand stone base .

Timber scattering pinon.

Nov. 14, 1912.

Nov 22, 1912, :At IO h 05 m a m l m t , l set off 38°30'
on the lat. arc; 20°09 S.on the decl. arc; and determine
a meridian with the solar at the witness cor. to C C of
secs . 32 and 33, on S. bdy. of Tp.

Thence l run

West on a true line on S.bdy. of sec. 32.

Counting distance from true point for C.C.of secs. 32
and 33 .

39.97 Intersect W.C.to secs. 4 and 5 , which is an iron post,
3 ins. in dia. 12 ins. above stone mound and marked and
witnessed as described by the surveyor general.

71 72 Intersect W.C. to 1/4 sec. cor. on N. bdy. of sec.5,which
is an iron post, 1 in. in dia. 12 ins. above stone mound,
marked and witnessed as described by the surveyor general

78 75 Foot of smooth sand stone outcropping bears N35°W.and
S 35°E.

80 00 Note : The true point for cor. of secs .31 and 32 would
fall on ledges; : therefore at

78 75 Set an iron post, 3 ft. long, 3 ins. in dia. 24 ins. in a
stone mound for witness cor. to secs. 31 and 32 , with b
brass cap marked

T 26 S R 22 E
W C
S 31 | S 32
S 6 | S 5
1912

from which

A pinon 12 ins. diam. bears N.37°E.1 37 chs. dist.
marked W.C.T 26 S R 22 E S 32 B T

A cedar 12 ins. diam. bears N.70°W.1 10 chs. dist.
marked W C T 26 S R 22 E S 31 B T

Sky is partly overcast and solar observations impossible.

From W.C.to secs. 31 and 32 on S. bdy. of Tp.
1 run

N.0°03'W.on an offset of 1.25 chs. E. of true line bet. secs. 31 and 32

Ascend over rough stony broken mts.land through scattering cedar and pinion timber.

13 00 West 1.25 chs. to a point on line bet. secs.31 and 32

32 70 Top of sand stone spur 400 ft. above witness cor. projects N.75°W.

40 00 Point for 1/4 sec. cor. falls on sand stone ledges.

40 75 Draw 375 ft. below spur drains N. 75°W.

41 15 Set an iron post, 3 ft. long , 1 in. in dia. 24 ins. in a stone mound for witness cor. to 1/4 sec. cor. with brass cap marked

T 26 S R 22 E
1/4 W C
S 31 | S 32
1912

from which

A pinon 6 ins. diam. bears S.65°30'E. 36 lks. dist.
marked W.C. 1/4 S 32 B T

A cedar 6 ins. diam. bears N.82 °W. 45 lks. dist.
marked W C 1/4 S 31 B T

Nov. 22 1912

Nov. 23 ,1912

44 00 Spur, 110 ft. above 1/4 sec. cor. projects. N.80°W.

51 70 Draw, 250 ft. below spur drains N80°W.

53 00 Point of spur 90 ft. above draw projects W.

55 30 Draw, 100 ft. below point of spur drains S80°W.

80 00 Set an iron post , 3 ft. long, 2 ins. in dia. 24 ins. in a stone mound for cor. of secs. 29,30,31 and 32, with brass cap marked

T 26 S	R 22 E
S 30	S 29
S 31	S 32

1912

from which

A cedar 8 ins. diam. bears N.65°15'E. 1 54 chs. dist.

marked T 26 S R 22 E S 29 B T

A pinion 9 ins. diam. bears S.33°30'E. 2 30 chs. dist.

marked T 26 S R 22 E S 32 B T

A pinion 7 ins. diam. bears S.46°W. 18 lks. dist.

marked T 26 S R 22 E S 31 B T

A cedar 8 ins. diam. bears N.37°W. 81 lks. dist.

marked T 26 S R 22 E S 30 B T

Land broken and mountainous,

Soil very thin layer of poor sandy loam underlaid with sand stone .

Timber scattering cedar and pinon.

East on a random line bet. secs. 29 and 32 ,

40 00 Set temp. 1/4 sec. cor.

80 02 Intersect N.and S. line 2 lks .N. of cor. of secs. 28,29 32 and 33.

Nov. 23 , 1912 ; At this cor. I set off 20° 23' S. on the decl. arc: and at 11 h 46 m/a.m. m t , observe the sun on the meridian ; the resulting lat is 38°31'

Thence I run

N. 89°59'W. on a true line bet. secs . 29 and 32.

Over broken mts. land through scattering cedar and pinion timber.

IO 00 Draw 225 ft. below sec. cor. drains S. 60°W.

Thence along broken S. slope .

40 ol Set an iron post, 3 ft. long, 1 in.in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 29
S 32
1912

from which

A cedar 12 ins. diam. bears S.53°W. 50 lks. dist.

marked 1/4 S 32 B T

A cedar 8 ins. diam. bears N.30°W. 1.55 chs. dist.

marked 1/4 S 29 B T

45 00 Point of spur, IIO ft. above 1/4 sec. cor. projects S. 60°W.

67 00 Draw, 375 ft. below point of spur, drains S. 25°W.

80 02 The cor. of secs. 29,30,31 and 32.

Land mountainous.

Soil a very thin layer of light sand underlaid with sandstone.

Timber scattering cedar .

Nov. 23, 1912.

Nov. 25, 1912 , At IO h 00m a m l m t , I set off 38°31 ' on the lat. arc; 20°45'S. on the decl .arc; and determine a meridian with the solar at the cor. of secs. 29,30,31 and 32 ,

Thence I run

West on a random line bet. secs. 30 and 31.

40 00 Set temp. 1/4 sec. cor.

79.70 Intersect W. bdy. of Tp. 14 lks. S.of cor. of secs. 25,30 31 and 36 , heretofore described.

Nov .25, 1912 , At this cor. I set off 20°47'S. on the decl. arc; and ,at 11 h 47 m a.m. I m t , observe the sun on the meridian ; the resulting lat. is 38°31 '

Thence I run

S.89°54'E. on a true line bet. secs. 30 and 31.

Over broken stony mts. land through scattering cedar and pinon timber.

18 40 Small box canyon , 75 ft. below sec. cor., drains N75°W.

26 60 Top of ledges 400 ft. above box canyon bears N.75 °W. and S.75°E. thence ascend gently ,

39 70 Set an iron post, 3 ft.long, 1 in. in dia. ,24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 30
S 31
1912

from which

A pinon 13 ins. diam. bears S.28°42'E. 48 lks. dist.

marked 1/4 S 31 B T

A pinon 12 ins. diam. bears N.9°30'W.79 lks. dist.
marked 1/4 S 30 B T

43 70 Spur 75 ft. aboveledges projects N. 75°W.

47 70 Draw 100 ft. below spur drains N. 70°W.

73 70 Main spur 150 ft. above draw projects S 50°W

79 70 The cor. of secs. 29/30,31 and 32 .

This cor.is 300 ft. below spur.

Land mountainous.

Soil sandy underlaid with solid sand stone .

Timber scattering cedar and pinon.

Nov. 25, 1912.

Nov. 26,1912. At 9 h 45 m a m l m t , I set off 20°57'S. on the decl.arc: 38°31' on the lat. arc; and determine a meridian with the solar at the cor. of secs. 29,30,31 and 32 .

Thence I run

N.0°03'W. ,bet. secs. 29 and 30 .

Over very broken mts. land through scattering cedar and pinon timber.

7 00 Begin abrupt ascent bears E and W.

14 00 Top of spur 350 ft. above sec. cor. projects S.80°W.

14 90 Note: It is impossible to chain farther N. on this line on account of precipitous ledges and a small box canyon; therefore I erect a flag N. of canyon and measure a base East 6.98 chs. to a point from which flag N.of canyon bears N.27°08'Wand from flag East end of base bears S. 27°08'E.; I calculate the distance across the canyon as follows:

Cotan. 27°08' X base or 1.95137X 6.98 chs. = 13.62 chs. which added to 14.90 chs. makes

28 52 Top of spur on N. side of canyon projects S.80°W.

34 50 Ledges 75 ft. high bears E.and W.

38 50 Draw 275 ft. below spur drains S.80°W.

40 00 Set an iron post, 3 ft. long ,1 in. in dia. 24 ins .in a stone mound for 1/4 sec. cor. with brass cap marked

1/4 S 30 | S 29
1912

from which

A pinon 6ins. diam. bears N.5°E.67 lks. dist.

marked 1/4 S 29 B T

A cedar 8 ins. diam. bears S.26°W. 25 lks. dist.

marked 1/4 S 30 B T

Nov. 26,1912; At this cor. I set off 20°58'S. on the decl arc; and, at 11 h47 m/a.m. m t , observe the sun on the meridian ; the resulting lat. is 38°32'

41 40 Spur 100 ft. above 1/4 sec. cor. projects.W.

44 80 Draw 110 ft. below spur drains. W.

51 75 Spur 325 ft. above draw projects W.

65 50 Draw 275 ft. below spur drains S.75°W.

70 00 Spur 200 ft. above draw Projects S80°W.

76 00 Draw 150 ft. below spur drains S80°W.

80 00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a stone mound for cor. of secs. 19,20 ,29 and 30 ,with brass cap marked

T 26 S | R 22 E
S 19 | S 20
S 30 | S 29
1912

from which

A cedar 6 ins. diam. bears N.36°E. 1 lk. dist.

marked T 26 S R 22 E S 20 B T

A pinon 8 ins. diam. bears S.21°E. 38 lks. dist.

marked T 26 S R 22 E S 29 B T

A pinon 9 ins. diam. bears S.9°W.1.31 chs. dist.

marked T 26 S R 22 E S 30 B T

No other trees in limits.

Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Land mountainous.

Soil a very thin layer of sand underlaid with solid sand stone .

Timber scattering cedar and pinion.

Nov. 26, 1912,

Subdivision of T.26S.R.22 E.

Nov. | Nov. 27, 1912 , At 9 h 00 m a m l m t , I set off 38°32' on the lat. arc; 21°07'S. on the decl. arc; and ,determine a meridian with the solar at the cor.of secs . 19,20,29 and 30

Thence I run

S.89°59'E. on a random line bet. secs. 20 and 29.

40 00 | Set temp. 1/4 sec. cor.

43 06 | To top of rim rock bears N.45°W. and S.45°E.

Note; It is impossible to chain farther on this line on account of ledges ;therefore I erect a flag on line at this point and proceed to a point on line below ledges which is also on the N.and S. line bet. secs 28 and 29 . from which I measure a base North 23.00 chs. to a point from which flag on top of rim rock bears S.57°54'W. I calculate the distance across the ledges as follows:

Tan .57°54' X base or 1.59414 X 23.00 = 36.66 chs.

which added to 43.06 makes

79 72 | Intersect N.and S. line I.OI chs. S. of cor. of secs. 2o,21 ,28 and 29, here-to-fore described.

Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in a stone mound for closing cor. of secs. 20 and 29 with b brass cap marked

T 26 S R 22 E
S21
S 20 | C C
S 29
S 28
1912

from which

A cedar 6 ins. diam. bears S.17°W.1.06 chs. dist. marked T 26 S R 22 E S 29 B T

A cedar 4 ins. diam. bears N.44°3 0'W. 1.27 chs. dist. marked T 26 S R 22 E S 20 B T

I destroy all marks on cor. of secs. 2021,28 and 29 that pertain to secs . 20 and 29.

Thence I run.

N.89°59'W., on a true line bet. secs. 20 and 29.

Over broken mts. land through scattering cedar and pinon timber.

Subdivision of T.26 S.R.22 E.

36 66	Top of rim rock 1300 ft. above sec. cor. bears N.45°W. and S.45°E.
39 86	Set an iron post, 3 ft. long, 1 in.in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked 1/4 S 20 S 29 1912 from which A pinon 7 ins. in diam. bears N.67°30'E.33 lks.dist. marked 1/4 S 20 B T A pinon 6 ins. dam. bears S.62°E. 23 lks. dist. marked 1/4 S 29 B T
4375	Head of draw 75 ft. below rim rock, drains S.75°W.
47 75	Top of small butte 50 ft. high.
48 75	Leave butte; thence descend along N. side of draw.
62 25	Foot of ledges 150 ft. high. bears N.89°E.and S.80°W.
64 70	Top of point of spur, projects S.75°W.
67 75	Top of ledges 125 ft. high bears N.40°E. and S.40°W.
73 25	Small draw drains S.40°W.
79. 72	The cor. of secs. 19,20,29 and 30 . Land mountainous and broken. Soil a very thin layer of sand underlaid with sandstone. Timber scattering cedar and pinon.. Nov. 27, 1912, At this cor. I set off 21°09'S. on the decl. arc; and ,at 11 h 48 m/a.m. m t , observe the sun on the meridian;the resulting lat. is 38°32'
	N. 89°54'W. on a random line bet. secs. 19 and 30 .
40 00	Set temp. 1/4 sec. cor.
79 54	Intersect W.bdy. of the Tp. 12 lks. S. of cor. of secs. 19,24,25 and 30 , heretofore described. Thence I run S.89°49'E. an a true line bet. secs. 19 and 30 . Ascend over rough broken stony mts. land, through scattering cedar and pinon timber.
7 30	Top of ledges 175 ft. above sec. cor. bears N.80°E.and S. 80°W.

Subdivision of T.26 S.R.22 E.

Thence along top of broken spur projects S85°W.

39 54 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 19
S 30
1912

from which

A pinon 6 ins. diam. bears S.25°30'W. 50 lks. dist. marked 1/4 S 30 B T

A pinon 16 ins. diam. bears N.83°40'W.2.80 chs. dist marked 1/4 S 19 B T

42 50 Head of draw drains N. 75°W.

50 50 Top of ledges, 110 ft. high bears N. 70°E.and S.70°W.; also leave spur.

56 00 Head of draw 160 ft. below top of ledges, drains S.60°W.

77 00 Top of small spur, projects S.20°W.

79 54 The cor. of secs. 19,20,29 and 30.

Land , mountainous.

Soil , practically none; almost solid sand stone.

Timber scattering cedar and pinion.

Nov. 27, 1912.

Nov. 28, 1912, From the cor. of secs. 19,20,29 and 30 . I run

N.0°03'W. on a random line bet. secs. 19 and 20.

40 00 Set temp. 1/4 sec. cor.

42 60 Top of rim rock bears N.45°W.and S.45°E.

Note : It is impossible to chain farther on this line on account of precipitous ledges ; therefore I erect a flag on line at this point and proceed to a point on line below ledges ,from which I measure a base East 40.00 chs to a point from which flag on rim rock bears S.38°52'W.; ; I calculate the distance across the ledges as follows: Cotan.38°52' X base or 1.24079 X 40.00 = 49.63chs. which added to 42.60 chs. makes

92 23 Set temp. cor.for secs. 17,18,19 and 20. From this temp. cor. I run

Subdivision of T.26 S.R.22 E.

S.89°59'E. on a random line bet. secs. 17 and 20 , and at 39.72 chs. fall 53 lks., N. of the 1/4 sec. cor., which is a sand stone 14 X 10 X 8 ins. loosely set in a stone mound. I destroy all traces of old cor. and re-establish it at same point as follows:

Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground for 1/4 sec. cor. with brass cap marked

1/4
S 17
S 20
1912

and raise a mound of stone 2 ft. base 1 1/ 2 ft. high. N. of cor.

Nov. 28, 1912: At this cor. I set. off 21°20'S on the decl. arc; and at 11 h 48 m l. m. t , observe the sun on the meridian; the resulting lat. is. 38°33'.

My falling being out of limit, I abandon random line and beginning at the 1/4 sec. cor. bet. secs. 17 and 20 I run N.89°59'W. on a true line bet. secs. 17 and 20

Over gently rolling land along foot of mountains.

1 20 Draw, 25 ft . below 1/4 sec. cor. drains N. 10°W.
36 00 Enter scattering cedar and pinon timber, bears N.45°W.S45E
39 72 Intersect N. and S. line 53 lks. S. of temp. cor. of secs 17,18,19 and 20 ,previously set, I destroy all trace of temp. cor., and at this point of intersection

Set an iron post, 3 ft. long , 2 ins. dia. 24 ins. in a stone mound for the cor. of secs. 17,18,19 and 20 , with brass cap marked

T 26 S R 22 E
S 18 | S 17
S 19 | S 20
1912

from which

A cedar 7 ins. diam. bears N.43°30'E. 1.07 chs. dist. marked T 26 S R 22 E S 17 B T

A cedar 8 ins. diam. bears S.80°30'E. 49 lks. dist. marked T 26 S R 22 E S 20 B T

No other trees in limits

Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Subdivision of T.26 S R. 22 E.

Land rolling stony foot hills.

Soil, sandy and stony ,

Timber , scattering cedar and pinon.

Nov. 28, 1912, At 2 h 00 m p m l m t , 1 set off 38°33' on the lat. arc; 21°20'S. on the decl. arc; and determine a meridian with the solar at the permanent cor. of secs. 17,18,19 and 20 .

Thence 1 run.

S.0°03'E. on a true line bet. secs. 19 and 20 .

Ascend abruptly over stony mts. land through scattering cedar and pinon timber.

49 10 Top of rim rock 1250 ft. above sec. cor. bears N.45°W. and S.45°E.

51 70 Set an iron post, 3 ft. long, 1 in. in dia. 24 ins .in the ground for 1/4 sec. cor. with brass cap marked.

1/4
S 19 | S 20
1912

cor-
ctive
tes see
ges 65
of this
ok.

from which

A pinon 10 ins. diam. bears N.31°E. 43 lks. dist.
marked 1/4 S 20 B T

A pinon 10 ins. diam. bears N.76°30'W. 86 lks. dist.
marked 1/4 S 19 B T

61 25 Ledges 150 ft. high bear N.65°E. and S.65°W.

69 25 Draw 325 ft. below 1/4 sec. cor. drains S.55°W.

74 75 Spur 125 ft. above draw projects S.70°W.

86 50 Draw 200 ft. below spur drains S. 75°W.

88 75 Spur 150 ft. above draw projects S.80°W.

91 70 The cor. of secs. 19,20, 29 and 30 .

Land broken and mts.

Soil, practically none; almost solid sand stone .

Timber ,scattering cedar and pinon.

Nov. 28, 1912.

Nov.29,1912. At 8 h 48 m a m l m t , 1 set off 38°33' on the lat. arc; 21°28'S.on the decl. arc: and determine a

meridian with the solar at the cor. of secs. 17,18,19 and 20.

Thence I run

N.89°49'W. on a true line bet. secs. 18 and 19.

Ascend abruptly over mts. land, through scattering cedar and pinon timber.

28 00 Top of abrupt ascent, thence gentle ascent, bears N.60°W. and S.60°E.

31 00 Enter small valley, bears N.65°W. and S65°E.

40 00 Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 18
S 19
1912

from which

A cedar 6 ins. diam. bears N.60°E.49 lks. dist.
marked 1/4 S 18 B T

A cedar IO ins. diam. bears S. 61°E. 86 lks. dist.
marked 1/4 S 19 B T

48 50 Base of ledges bears N.45°W. and S. 45°E.

Note: It is impossible to chain farther on this line on account of precipitous ledges.

To pass the ledges I offset as follows :

South 11.85 chs.

N.89°49'W. 30 91 chs., over very broken mts. land.

79 41 Intersect W. bdy. of Tp. at the cor. of secs. 13,18,19 and 24, here-to-fore described, and 11.85 chs.S.of the point for C.C.of secs.18 and 19.

Land ,mountainous ,.

Soil , practically none ;, almost solid sand stone .

Timber ,scattering cedar and pinon.

Nov. 29, 1912, At this cor. I set off 21°30'S. on the decl.arc; and ,at 11 h 48 m a.m./I m t , observe the sun on the meridian the resulting lat. is 38°33'

For correction notes see page of this book.

For correction notes see page 67 of this book.

From the cor. of secs. 17,18,19 and 20.

I run

N.0°03'W. on a random line bet. secs. 17 and 18.

39 58 Fall 4 lks. E. of a stone mound which appears to be remains of old 1/4 sec. cor.

79 58 Fall 7 lks E. of remains of cor. of secs. 7,8,17 and 18 which is a sand stone 7 X 6 X 5 ins. loosely set in a mound of stone and marks nearly obliterated. I destroy all traces of the old cor. and re-establish it at same point as follows

Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in the ground for cor. of secs. 7,8,17 and 18, with brass cap marked

T 26 S | R 22 E
S 7 | S 8
S 18 | S 17
1912

and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Thence 1 run

S. 0°06'E. on a re-survey line bet.secs. 17 and 18.

Over gently rolling land.

3 50 Wash 15 ft. deep, spring branch in bottom, drains N.4°W

38 00 Wash 50 ft. deep, 2 00 chs. wide, drains N.30°E.

40 00 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 18 | S 17
1912

and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Continue on true line.

58 30 Sand stone spur 250 ft. above 1/4 sec. cor. projects N. 45°W, also enter scattering cedar and pinon. N.45°W.

61 00 Head of draw drains N.45°W.

79 58 The cor. of secs. 17,18,19 and 20.

N.20 chs. gently rolling bench land. N. slope;

soil sandy, 5 to 20 ins. deep, medium texture, moist, on clay subsoil, with a very sparce growth of grass.

S. 59 58 chs. hilly; ridges nearly solid sand stone, washed on slopes, valleys with light sandy soil on sandstone base.

Timber scattering cedar and pinon.

Nov29,1912.

Retracement

Subdivision of T.26 S. R. 22 E.

Nov.15,1912; From the cor. of secs. 7,8,17 and 18.

I run .

North on retracement line bet. secs. 7 and 8 . .

39 80. Fall 35 lks. W. of old 1/4 sec. cor. which is a granite 9 X 7 X 5 ins. above ground, loosely set and not witnessed., I destroy all traces of old cor.. and re-establish it at same point as follows:

Set an iron post, 3 ft. long ,1 in. in dia., 24 ins. in the ground for 1/4 sec. cor. with brass cap marked

1/4
S 7 | S 8
1912.

and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor.

Therefore the course of this line is N.0°30'E.39.80 chs.

Moved to cor.

Thence I run

North on retracement line bet. secs. 7 and 8.

39 07 Fall 26 lks. W.of cor. of secs. 5,6,7,and 8 , which is a mark on a very soft sand stone 2 X 4 X 6 ft. above ground and poorly marked. , I destroy all traces of old cor. and re- establish it at same point as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a stone mound for cor,. of secs. 5,6,7 and 8 with brass cap marked

T 26 S R 22 E
S 6 | S 5
S 7 | S 8
1912

and raise a mound of stone 2 ft. base 1 1/2 ft. high , W. of cor.

Therefore the course of this line is N.0°22'E. 39.07 chs.

Nov. 15, 1912, At this cor. I set off 18°32'S. on the decl. arc; and ,at 11 h 45 m/a.m. m t , observe the sun on the meridian the resulting lat. is 38°35'

Nov. 15, 1912, At 2 h 10 m p m l m t , I set off 38°35' on the lat. arc; 18°33'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4,5,8,

and 9.

Thence I run

S.89°15'W. on a true line bet. secs . 5 and 8 .

Descend abruptly over broken sand stone formation.

4 00 Mill Creek Canyon 150 ft. below sec. cor., creek 15 lks. wide 1 ft. deep runs. N. 1.00 ch. to junction of North Fork of Mill Creek thence N. 85°W.

IO 50. Spur 200 ft. above canyon, projects. N.IO°W.

26 00 Mill Creek Canyon 300 ft. below spur creek 30 lks. wide 1 ft. deep runs. S.80°W.

r cor- ctive tes and ge 62 is book.

40 00 Set an iron post, 3 ft. long , 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 5
S 8
1912

and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.

48 80 Spur 250 ft. above 1/4sec. cor. projects S.25°W.

51 00 Draw IOO ft. deep drains S.

56 00 Spur 110 ft. above draw projects S.

57 50 Draw 125 ft. below spur drains S.20°E.

71 00 Spur 350 ft. above draw projects S.25°E.

r cor- ctive notes page -2 of is book.

79 47 Intersect E.bdy. of sec. 7, 9.36 chs. S.0°22'W. of cor. of secs. 5,6,7 and 8,

Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in a stone mound for clos ing cor. of secs. 5 and 8 ,with brass cap marked

T 26 S R 22 E
S 6
C. C
S 5
S 8
S 7
1912

and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor.

I destroy all marks on cor. of secs. 5,6,7 and 8 that pertain to secs. 5 and 8.

Land , mountainous,

Soil, almost solid sand stone .

No timber. Nov. 15, 1912.

Resurvey

Subdivision of T.26 S., R.22 E.

Chains.	
	Dec.6, 1912: From the cor.of secs.7,8,17, and 18 I run West, on retracement line, bet.secs.7 and 18,
40.00	After careful search find no trace of old ¼ sec.cor.
79.29	Intersect W.bdy.of Tp.35 lks.S.of cor.of secs.7,12,13, and 18, heretofore described.
	Thence I run
	S.89° 45'E.on resurvey line bet.secs.7 and 18,
	Over broken and rolling land; along foothills.
9.30	Draw, 75 ft.below sec.cor., drains N.25° E.
13.90	Spur, 150 ft.above draw, projects N.10° E.
16.00	Draw, 125 ft.below spur, drains N.
28.25	Spur, 110 ft.above draw, projects N.
35.80	Wash, 125 ft.below spur, drains N.10° W.
39.64½	Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in the ground, for ¼ sec.cor., with brass cap marked ¼ S 7 S 18 1912 and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
56.25	Low spur, projects N.
59.00	Wash, spring branch, 1 lk.wide, runs N.
78.70	Wash, 15 ft.deep, 25 lks.wide, spring branch 1 lk.wide, runs N.5° W.
79.29	The cor.of secs.7,8,17, and 18.
	Land, rolling and mountainous.
	Soil, sandy and stony.
	No timber.

	Dec.6, 1912: At the cor.of secs.6 and 7 I set off 22° 30'S.on the decl.arc; and at 11h 51m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 35'. Thence I run
	North on retracement line bet.secs.5 and 6,
40.00	After diligent search find no trace of old ¼ sec.cor.

Resurvey

Subdivision of T.26 S., R.22 E.

Chains.	
80.05	Intersect Fifth Standard Parallel South 59 lks.W.of cross (X) which marks the true point for standard cor.of secs.31 and 32.
	Thence I run.
	S.0° 25'W.on resurvey line bet.secs.5 and 6,
	Over smooth sandstone outcroppings and spurs.
8.50	Ridge, 100 ft.above cor., bears N.85° W. and S.85° E.
12.60	Old wood road, bears E.and W.
20.10	Road, Moab to Mesa, bears E.and W.
23.35	Leave smooth sandstone outcroppings, bearing E.and W.
37.50	Head of draw, 350 ft.below ridge, drains S.30° E.
40.02½	Set an iron post, 3 ft.long, 1 in.in dia., 24 ins.in a stone mound for ¼ sec.cor., with brass cap marked S ¼ 6 | S 5 1912 and raise a mound of stone, 2 ft.base, 1½ ft.high W. of cor.
	This cor.will hereafter refer to sec.6 only.
48.46	Position for ¼ sec.cor.on W.bdy.sec.5.
61.35	Spur, 125 ft.above head of draw, projects S.25° E.
73.25	Head of draw, 100 ft.below spur, drains S.40° E.
80.05	The cor.of secs.6 and 7.

Land mountainous.
Soil, on N.23.35 chs.almost solid sandstone; balance sandy, very poor.

No timber.

Dec.6, 1912.

BOUNDARIES OF T. 26 S., R. 22 E.

Latitudes, Departures and Closing Errors.

Lines Designated			True Bearing	Dist. Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
S.bdy.	sec.	25	S.89°49'W.	40.05		.13		40.05
"	"	25	S.89°51'W.	40.25		.11		40.25
W.bdy.	"	25	N.0°01'W.	80.16	80.16			.02
"	"	24	N.0°01'W.	80.00	80.00			.02
S.bdy.	"	14	N.89°50'W.	80.20	.23			80.20
W.bdy.	"	14	N.0°01'W.	80.00	80.00			.02
S.bdy.	"	10	N.89°46'W.	40.22	.16			40.22
"	"	10	N.89°54'W.	40.20	.07			40.20
"	"	9	S.89°54'W.	39.37		.07		39.37
W.bdy.	"	9	N.0°03'W.	80.00	80.00			.07
S.bdy.	"	5	West	79.41				79.41
W.bdy.	"	5	N.0°22'E.	8.41	8.41		.05	
"	"	5	N.0°25'E.	80.05	80.05		.58	
N.bdy.	"	5	N.88°46'E.	78.69	1.70		78.67	
"	"	4	N.88°46'E.	24.93	.54		24.92	
"	"	4	East	14.25			14.25	
N.bdy. secs. 1, 2 and 3			East	240.00			240.00	
E.bdy. secs. 1, 12, 13, 24 and 25			South	411.40		411.40		
Convergency							.20	
Totals					411.32	411.71 411.32	358.67	359.83 358.67
Error in lat. and dep.						.39		1.16

BOUNDARIES OF T. 26 S., R. 22 E.

Lines Designated	True Bearing	Dist. Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
S.bdy.secs. 31, 32, 33 and 34	West	279.28				279.28
W.bdy.secs. 18, 19, 30 and 31	North	331.85	331.85			
N.bdy. sec. 18	S.89°45'E.	79.29		.35	79.29	
E.bdy. " 18	S.0°06'E.	79.58		79.58	.14	
N.bdy. " 20	S.89°59'E.	39.72		.01	39.72	
" " 20	N.89°15'E.	40.00	.52		40.00	
E.bdy. " 20	S.0°03'E.	91.07		91.07	.08	
N.bdy. " 28	S.89°51'E.	39.40		.10	39.40	
E.bdy. " 28	S.0°02'E.	80.48		80.48	.05	
N.bdy. " 34	N.89°56'E.	40.03	.05		40.03	
" " 34	East	40.00			40.00	
E.bdy. " 34	S.0°07'E.	40.00		40.00	.08	
" " 34	S.0°09'E.	40.11		40.11	.10	
Convergency					.15	
Totals			332.42 331.70	331.70	279.04	279.28 279.04
Error in lat. and dep.			.72			.24

GENERAL DESCRIPTION

This fractional township is very rough and mountainous. There is very little soil, being nearly solid sandstone formation, with a scattering growth of cedar and pinon timber. The township is poorly watered.

There is one settler near the center of sec. 14.

There is no indication of mineral in this fractional township.

John W. Dougall
U. S. Surveyor.

Corrections in Subdivisions of T. 26 S., R.22 E.

Chains	
	Survey commenced December 10, 1915, and executed with a young and son's transit, No. 7192, equipped with a Smith solar attachment.
	For description and test of instrument, see book of subdivisions of T.29 S.,R.24 E. From recent test on Polaris meridian, I am assured that the instrument is now in satisfactory adjustmant.
	Five chain steel tapes and clinometers were used in measuring all distances.
	Instruments were approved for use on this survey by the Ass't. Supervisor of Surveys for Utah.
	Dec. 10: At 8^h30^ma.m.,l.a.t,, I set off 38°35' on the lat. arc; 22°49' S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4, 5, 8 and 9, which is an iron post, 2 ins. dia., 12 ins. above ground, firmly set, with brass cap mkd.

T 26 S | R 22 E
S 5 | S 4
S 8 | S 9
1912

	witnessed by a mound of stone, 2 ft. base, 1½ ft. high., W. of the cor.
	Thence I run
	Test, on random line, bet. secs. 5 and 8
40.00	Set temp. ¼ sec. cor.
79.41	Intersect the E. bdy. of sec. 7, at 8.41 chs. S.0°22'W. of the cor. of secs. 6 and 7, which is an iron post, 2 ins. dia., 12 ins. above ground, firmly set, with brass cap marked

See page 56.

T 26 S | R 22 E
S 6
S 7
1912

	witnessed by a mound of stone, 2 ft. base, 1½ ft. high, W. of the cor.

Corrections in subdivisions of T.26 S.,R.22 E.

	Chains	
page		At the intersection, set an iron post, 3 ft. long, 2 ins. dia., 26 ins. in the ground. for closing cor. of secs. 5 and 8, with brass cap marked
		T 26 S | R 22 E S 6 | S 7 | C S 5 C S 8 1915
		and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of the cor.
		The erroneously set closing cor. of secs. 5 and 8 bears S.0°22'W., 0.95 lks. dist. I remove all traces of the cor.
		Thence, from the C.C.,
		East on true line, bet. secs. 5 and 8.
	39.45	The erroneously set ¼ sec. cor. for secs. 5 and 8 bears S., 42 lks. dist. I destroy all traces of the cor.
	40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked
page 56		S 5 ¼ S 8 1915
		and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor.
	79.41	The cor. of secs. 4, 5, 8 and 9.
		From the cor. of secs. 4, 5, 8 and 9,
		I run
		N.0°03'W., retracing, bet. secs. 4 and 5
	1.50	Set a flag for triangulation, impassable sandstone ledges ahead. Thence proceed to point on line on top of ledges.
see page 41		and measure a base S.89°57'W., 14.00 chs., to a point,

Corrections of Subdivisions in T.26 S.,R.22 E.

Chains

from which the first signal bears S.45°28'E.; I calculate the dist. across as follows:

base X cotan 45°25' or 14.00 X .98556 = 13.80 chs.

which added to 1.50 chs. makes

15.30 To triangulation point.

40.03 Intersect the ¼ sec. cor., which is an iron post, 1"in. dia., 12 ins. above ground, firmly set, with brass cap mkd. See page 41

S 5 ¼	S 4
1912	

from which

A pinon, 11 ins. dia., bears S.25°E.,20 lks. dist., mkd. ¼ S 4 BT

A pinon, 18 ins. dia., bears N.3½°W., 2.23 chs. dist., mkd. ¼ S 5 BT

90.37 Intersect the Closing cor. of secs. 4 and 5, which is an iron post, 2 ins. dia., 12 ins. above ground, firmly set, with brass cap marked See page 41.

T 25 S	R 22 E
S 32	S 33
CC	
S 5	S 4
1912	

Dec. 10: At this point, I set off 23°52'S. on the decl. arc, and at apparent noon observe the sun on the meridian; the resulting lat. is 38°36'.

The true course of this mile is therefore N.0°03'W., and the dist. 90.37 chs.

From the closing cor. of secs. 3 and 4, on the 5th. St. Par. S., which is an iron post, 2 ins. dia., 12 ins. above ground, with brass cap marked

T 25 S	R 22 E
S 32	S 33
CC	
S 4	S 3
1912,	

Chains

witnessed by

A cedar, 10 ins. dia., bearing S.35°E., 1.83 chs. dist., mkd. T.26 S R 22 E S 3 BT

A pinon, 15 ins. dia., bearing S.72°W., 1.25 chs. dist. mkd. T 26 S R 22 E S 4 BT

I run,

S.0°02'E., retracing for dist. only, bet. secs. 3 and 4.

51.04 The $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. dia., 12 ins. above ground, firmly set, with brass cap marked

page 31

$$\begin{array}{c|c} \frac{1}{4} & \\ S\ 4 & S\ 3 \\ \hline 1912 & \end{array}$$

from which

A pinon, 6 ins. dia., bears N.25°E., 15 lks. dist., mkd. $\frac{1}{4}$ S 3 BT

A pinon, 12 ins. dia., bears West, 70 lks. dist., mkd. $\frac{1}{4}$ S 4 BT.

The true dist. therefore 51.04.chs.

The above retracements of the Bdrs. of sec. 4 are sufficient to locate and correct the error of misclosure.

The cor. erroneously set for the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 9, which is an iron post, 1 in. dia., 10 ins. above ground, firmly set, with brass cap marked

$$\begin{array}{c|c} \frac{1}{4} & \\ S\ 8 & S\ 9 \\ \hline 1912 & \end{array}$$

witnessed by

A cedar 7 ins. dia., bearing N.19½°E., 6.20 chs. dist

ge 39 dist., mkd. $\frac{1}{4}$ S 9 BT

and another cedar NW. for sec. 8.

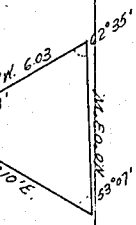
I destroy all marks of the cor. that pertain to sec. 8, and destroy marks on the B.T. for sec. 8.

Thence I run

Corrections in Subdivisions
T. 26 S., R. 22 E.

Chains		
	N.0°03'W., bet. secs. 8 and 9.	
10.50	Point 40.00 chs. N.0°03'W. of the cor. of secs. 8 and 17.	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. on E. bdy. sec. 8, with brass cap marked	See page 39.
	¼ | S 8 | 1915	
	from which	
	A cedar, 8 ins. dia., bears S.48°W., 41 lks. dist., mkd. ¼ S 8 B T	
	December 10, 1915.	
	Dec. 11: At the ¼ sec. cor. erroneously set for the ¼ sec. cor. bet. secs. 19 and 20, which is an iron post, 1 in. dia., 12 ins. above ground, firmly set, with brass cap mkd.	See page 52.
	¼ S 19 | S 20 1912	
	witnessed by	
	A pinon, 10 ins. dia., bearing N.76½°W., 86 lks. dist., mkd. ¼ S 19 B T	
	and another pinon mkd. for sec. 20.	
	I destroy all marks of the cor. pertaining to sec. 20, including the marks on the B.T. marked for sec. 20.	
	Dec. 11: At 9h 0m a.m., l.m.t., I set off 38°32½' on the lat. arc, 22°55'S. on the decl. arc, and determine a meridian with the solar.	
	Thence I run	
	N.0°03'W., bet. secs. 19 and 20.	
2.50	The cor. of secs. 17, 18, 19 and 20, an iron post, is visible, and bears N.0°03'W.	
	Impossible to chain farther on account of rim rock ledges; therefore I set a signal at this point, thence	

Chains



proceed to point on line on shelf of ledge, from which point, I measure a base, 6.03 chs., S.62°32'W., to a point from which the signal on top of ledge bears S.53°10'E. I calculate the dist. as follows:

$$\text{dist.} = \frac{\sin 64°18' \times \text{base}}{\sin 53°07'}$$

log sin 64°18'	=	9.954762 -10
log 6.03	=	0.780317
colog sin 53°07'	=	0.096986
log dist.	=	0.832065

dist. = 6.79 chs. which, added to 2.50 chs., makes

9.29 To triangulation point.

11.70 On account of bare sandstone ledges it is impossible to set the ¼ sec. cor. at this point.

17.88 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in a crevice in sandstone ledge, packed in by stones, for witness cor. to the ¼ sec. cor. on W. bdy. sec. 20, with brass cap mkd.

ee
ge 52

T 26 S | R 22 E
¼ W.C.
S 20
1915

and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of the cor.

The W.C.¼ sec. cor. is therefore 6.18 chs. N.0°03'W. of the true cor. point, and the true cor. point is 40.00 chs. S.0°03'E. of the cor. of secs. 17, 18, 19 and 20.

Dec. 11: It is impracticable to be on a meridian at apparent noon.

From the ¼ sec. cor. bet. secs. 18 and 19, which is an iron post, 1 in. dia., 12 ins. above ground, firmly

Chains	
	set, and mkd. and witnessed as heretofore described by J.W.Dougall, U.S.Surveyor,
	I run
	N.89°49'W., bet. secs. 18 and 19.
8.50	No iron post being available, I set a sandstone, 12 x 9 x 7 ins., 8 ins. in the ground for witness point to the closing cor. of secs. 18 and 19, marked WP on N. face, and raise a mound of stone, 2 ft. basem 1½ ft. high, E. of the cor.
	Cor. stands at base of sandstone ledges, bearing NW. and SE.

See pa 53.

I destroy all marks of the cor. of secs. 13, 18, 19 and 24 on the W. bdy. of Tp., heretofore described by J.W. Dougall, U.S.Surveyor, that pertain to secs. 18 and 19, and along side the cor., I set a sandstone, 14 x 8 x 4 ins., 10 ins. in a mound of stone, for witness cor. to the closing cor. of secs. 18 and 19, marked CC on E., with 3 grooves on the N. and 3 grooves on the S. face, and WC. on the NE. face,

from which

A cedar, 8 ins. dia., bears N.64°E., 12 lks. dist., mkd. W C T 26 S R 22 E S 19 BT

A pinon, 8 ins. dia., bears S.9°E., 25 lks. dist., mkd. W C T 26 S R 22 E S 19 BT.

An iron post was not available for this cor.

See not W.bdy. T.26 S R.22 E page 2

December 11, 1915.

Thos. C. Kathbone
U. S. Transitman.

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BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants for surveys executed by John W. Dougall, U.S.Surveyor, see book "N" T.26 S., R.21 E.

of the ..... Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

For final oath of John W. Dougall, U.S. Surveyor, see book [illegible] T. 26 S., R. 21 E.

..... of the .....

..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed 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 U. S. 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.

.....

U. S. Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 191

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of .....

.....

.....

.....

.....

.....

.....

executed by .....

under his special instructions dated ....., 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

6—2761

4—680

BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Thos. C. Rathbone., U. S. ~~Surveyor~~ Transitman, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of the retracement of the 5th. St. Par. S. through R.22 E. on S. side sec. 31, and corrections in the E. bdy. T.25 S.,R.22 E.; S. bdy. and subs. of T.27 S., R.23 E.; N. bdy. of T.27 S., R.22 E., and in subdivisions of T.26 S., R.22 E.,

of the Salt Lake Base and Meridian, in the State of Utah which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Barnum B Packard	Dec. 8, 1915	Dec. 12, 1915	H. Chainman
Walter C Bailey	Dec. 8, 1915	Dec. 12, 1915	R. Chainman
Tim Jones	Dec. 8, 1915	Dec. 12, 1915	Flagman
Glenn Harris	Dec. 8, 1915	Dec. 12, 1915	Axeman
Reuben Lockett	Dec. 8, 1915	Dec. 12, 1915,	Cornerman

Subscribed and certified to before me on the dates of the final service as shown above.

Thos C Rathbone

U. S. ~~Surveyor.~~ Transitman

6—2761

FINAL OATH OF UNITED STATES ~~SURVEYOR~~ Transitman.

I, Thomas C. Rathbone, Transitman, U. S. ~~Surveyor~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah, bearing date of the 9th. day of September, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement of the 5th. St. Par. S., through R.22 E., on S. side sec. 31, and the corrections in the E. bdy. of T.25 S.,R.22 E.; the S. bdy. and subs. of T.27 S.,R.23 E.; the N. bdy. of T.27 S.,R.22 E.; and in the subs. of T.26 S.,R.22 E., of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed 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 U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thos. C. Rathbone
U. S. ~~Surveyor~~ Transitman

Subscribed by said Thos. C. Rathbone and sworn to before me this 4th day of March, 1916

SEAL

M. O. Thoresen
U.S.Surveyor General for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 31, 1916

The foregoing field notes of the survey of the south boundary of section 32, and the retracement, resurvey, and survey of the subdivisional lines of Township No. 26 South, Range No. 22 East of the Salt Lake Base and Meridian, Utah,

executed by John W. Dougall and Thomas C. Rathbone under his special instructions dated Sept. 7, 1911 and supplemental special instructions dated Sept. 9, 1915, 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys, and surveys they describe, are hereby approved.

M. O. Thoresen
U. S. Surveyor General.

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

6—2761

U. S. Surveyor General.

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BOOK A-415

N.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision

of Part of

Township No. 26 South Range No. 21 East

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

EXECUTED BY

John W. Dougall

In the capacity of U. S. Surveyor, under instructions dated Sept. 7 *1911*

issued by the United States Surveyor General to govern surveys included in

Group No. 15 *which were approved by the Commissioner of the General Land*

Office, September 19 *1911, pursuant to authority contained in the Act of*

Congress dated *191*

Survey commenced Dec. 6, 1912 *19xx*

Survey completed Dec. 7, 1912 *19xx*

BOOK A-415

INDEX DIAGRAM.

Township No.26 South, *Range* No.21 East.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6—151

Subdivision of part of T.26 S.R.21 E.

Chains. Survey commenced Dec. 6, 1912 , and executed with a K.and E.transit No.20036,with a solar attachment .
For full description of instrument see "Book C. "
Knowing my instrument is in perfect adjustment from previous and recent checks on meridian established from observations on Polaris,(See book "C" this survey), Dec.6,1912, At 2 h 21 m p m l m t , I set off 38°35'on the lat.arc; 22 °.31' S. on the decl. arc. and , determine a meridian with the solar at the cor. of secs. 1,6,7 and 12 which is a sand stone 8 x 7 X 6 ins. above ground loosly set and dimly marked , I destroy all tracesof old cor. and re-establish it at same point as follows
Set an iron post, 3 ft. long 3 ins.in dia. 24 ins. in the ground for cor. of secs.1,6,7 and 12,with brass cap marked.

T 26 S.
R 21 E | R 22 E
S 1 | S 6
S 12 | S 7
1912

and raise a mound of stone 2 ft.base 1 1/2 ft.high W. of cor.
Thence I run .
West on retracement line bet. secs. 1 and 12 .
40.00 Intersect 1/4 sec. cor. which is a sand stone IO X 7 X 4 ins. above ground marked and witnessed as desribed by the surveyor general .
80.00 Intersect remains of old cor. of secs. 1,2,11 and 12 which is a sand stone greatly crumbled in a mound of stone I destroy all traces of old cor. and re-establish it at sae same point as follows
Set an iron post, 3 ft. long , 2 in. in dia.24 ins. in a stone mound for cor. of secs. 1,2,11and 12. with brass cap marked

T 26 S. | R 22 E
S 2 | S 1
S 11 | S 12
1912

and rasie a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Subdivision of part of T.26 S.R.21 E.

Chains.	
	South on retracement line bet. secs. 7 and 12
40.00	After careful search find no trace of 1/4 sec. cor.
79.26	Intersect cor. of secs. 7,12,13 and 18 , here-to-fore described therefore the course of this line is South.
	Thence I run
	North on resurvey line bet. secs. 7 and 12,
	Descend over stony land in foot hills.
10.35	Mouth of draw 120. ft. below sec. cor. drains N.20°E.
11.85	Wire fence bears N.60°E.and S.60°W.
13.00	Leave foot hills descend gently along N. slope. bears N.50°W.and S.50°E.
28.25	Road Moab to J.A.Huffs bears N.10°W.and S.10°E.
28.85	Irrigation ditch bears N.45°W.and S.45°E.
29.25	Telephone line Moab to J.A.Huffs bears N.20°W.and S.20°E
38.25	N.W.corner of alfalfa field .
39.00	Pole fence bears East and West 50 lks. thence North, also S.side of lane from the E. and turns N.
	Set an iron post ,3 ft. long, 1 in. in dia. 24 ins. in the ground for witness cor. to 1/4 sec. cor. with brass cap marked

T 26 S
R 21 E | R 22 E
W | C
1/4
S 12 | S 7
1912

raise a mound of stone 2 ft. base 1 1/2 ft. high W.of cor

From this, W.C. N.E.Cor. of J.A.Huffs Stack Yard bears S.54°30°W.3.38 chs. dist.

39.63	Falls in lane ;point for 1/4 sec.cor.; cor.not set.
	Thence along lane which bears N.0°30'E.
57.25	Pack Creek stream 15 lks. wide 7 ins. deep runs N.60°W.
79.26	The cor. of secs. 1,6,7 and 12. on W.side of lane.
	S.38.25 chs. hilly and stony with large boulders.
	N.41 01 chs. gentle N.W.slope ,good rich sandy loam 3 to 12 ft. deep
	No timber.

Dec.6,1912.

Subdivision of part of T.26 S.R.21 E.

Chains.

Dec. 7, 1912, From the cor. of secs .7,12,13 and 18 on E. bdy. of the Tp. here-to-fore described .

I run

West on a true line bet. secs . 12 and 13 .

Ascend abruptly over broken stony mts. land .

31.00 Top of rim. rock 600 ft. above sec.cor. bears N.50°W. and S.50°E. also enter scattering cedar and pinion timber

40.00 Set an iron post, 3 ft.long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 12
S 13
1912

from which

A pinion 16 ins. diam. bears N.32°E. 31 lks. dist.
marked 1/4 S.12, B T

A pinion 10 ins. diam. bears S.20°E. 85 lks. dist.
marked 1/4 S 13 B T

65.00 Head of draw 300 ft. below 1/4 sec. cor. drains S. 60°W.

69.00 Base of ledges nearly perpendicular bears N.60°E.and S.60 60°W.

Note ; It is impossible to chain farther on this line on account of ledges in order to pass ledges 1 offset as follows .

South 11.00 chs.

Thence West 11.00 chs. to a point on line 11.00 chs. S. of true point for cor. of secs. 11,12,13 and 14

80.00 Set an iron post, 3 ft.long,2 ins. in dia. 24 ins. in a stone mound for witness cor. to secs. 11,12 ,13 and 14 , with brass cap marked

T 26 S R 21 E
W C
S 11 | S 12
S 14 | S 13
1912

from which

A cedar 7 ins. diam. bears N.54°E.38 lks. dist.
Marked W C T 26 S R 21 E S 12 B T

A cedar 6 ins. diam. bears S.70°E.44 lks. dist.
marked W C T 26 S R 21 E S 13 B T

A cedar

Chains. A cedar 7 ins. diam. bears S.3°W.1.21 chs. dist.

marked W.C T 26 S R 21 E S 14 B T

A cedar 6 ins. diam. bears N.51°W.91 lks. dist. marked

W C T 26 S R 2L E S 11 B T

Land ,mountainous.

Soil, very little sandy soil, almost solid sand stone.

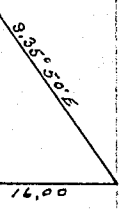
Timber scattering cedar and pinion.

Dec. 7, 1912, At IO h 00 m a m l m t , I set off 38°34' on the lat. arc; 22°37'S. on the decl. arc; and determine a meridian with the solar at the witness cor. to secs. 11,12, 13 and 14, .

Thence I run

N.0°0I'W. on a random line bet. secs. 11 and 12.

Note : On account of a small Box Canyon and ledges it is impossible to chain N.from this cor. therefore I set a flag on line on smooth sand stone ledges N. of Box Canyon and measure a base East 16.00 chs. , and from the flag on ledges the East end of base bears S.35°50'E.I determine the distance across the canyon as follows .



cotan. 35°50' X base or 1.38484X 16 00 =22 16 chs

22.16 Top of smooth sand stone spur projects S.55°W.

40.00 Set temp.1/4 sec. cor.

90 40 Intersect E and W. line 2 lks. E.of cor. of secs. 1,2,11 12. here-to fore described.

Thence I run

S.0°02'E. on a true line bet. secs. 11 and 12.

Ascend over stony broken mts. land.

26 00 Top of rim rock 500 ft. above sec cor. bears N.45°W. and S.45°E.also enter scattering cedar and pinion timber

31 00 Head of draw 50 ft. below rim rock drains S85°W.

40 00 Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in a stone mound for 1/4 sec. cor. with brass cap marked

1/4
S 11 | S12
1912

from which

Subdivision of part of T.26 S.R.21 E.

Chains.	
	Apinion 6 ins. diam. bears N.52°E. 85 lks. dist. marked 1/4 S. 12 B T
	A pinion 6 ins. diam. bears N.79°W. 1.59 chs. dist. marked 1/4 S 11 B T
	Dec. 7, 1912, At this cor. 1 set off 22°37'S.on the decl arc; and at 11 h 52 m 1 m t , observe the sun on the meri dian the resulting lat. is 38°34'
45.50	Spur 110 ft. above 1/4 sec. cor. projects W.
56.00	Head of draw 75 ft. below spur drains S.45°W.
68.25	Sand stone spur 85 ft. above head of draw projects.S.45°W.
79.40	Point for cor.secs.11,12,13, and 14. Cor not set.
90.40	The witness cor. to secs. 11,12,13 and 14.
	Land , very broken and mountainous.
	Soil, almost solid sand stone .
	Timber scattering cedar and pinion.

	From the cor. of secs. 1,2,11 and 12 ,here-to- fore described ,1 run
	North on retracement line bet. secs. 1 and 2 ,
	Descend over stony foot hills.
20 00	Leave foot hills,enter valley bears N.45°W.and S.45°E.
20 80	Old road bears N.45°W. and S.45°E.
29 50	Wire fence bears N.50°W.and S.50°E.
38 88	Fall 2 lks.E.of 1/4 sec. cor. which is an iron post 1 in in dia. 12 ins. above ground firmly set. and marked on brass cap

1/4
S 2 | S 1
1912

with pits N.and S. and a mound of earth W.of cor.

Wire fence bears E.and W.

Therefore the course and distance of this line is N.0°2'W 38.88 chs.

Moved to cor.

Thence 1 run

North on retracement line bet. secs. 1 and 2

Subdivision of part of T.26 S.R.21 E.

Chains.	
	Over valley land drains N .W.
5.15	South bank of Mill Creek Wash 10 ft. high bears N.50°W.
8.00	Mill Creek 35 lks. wide 1 ft. deep runs N. 60°W.
10.15	Northbank of Mill Creek 12 ft. high bears N.60°W. and S S.60°E.
15.00	Enter south end of lane which extends N.S Thence along lane .
40.72	Intersect fifth standard parallel S. 2 lks. E. of S.C. of secs .35 and 36 , which is an iron post, 3 ins. dia. 5 ins. above ground firmly set. and marked and witnessed as described by the surveyor general, Therefore the course and distance of this line is N.0°02' W 40.72 chs.

Dec. 7,1912.

Latitudes ,departures and closing errors.

Line designated	True bearing	Distance chs.	Latitudes N chs.	Latitudes S chs.	Departures. E chs.	Departures. W chs.
S.bdy. sec.12	West	80.00				80 00
W.bdy.sec. 12						
90 40 less 11 00 chswhich makes	N.0°02'W.	79.40	79.40			.04
W.bdy.sec.1	N.0°02'W	79.60	79.60			.05
5th.Standard Parallel S.	N.89°55'E.	80.02	.11		80.02	
E.bdy. of secs. 1 and 12.	South	159.26		159.26.		
Convergency					.03	
Totals.			159.11	159.26	80.05	80.09
				159.11		80.05
Error in lat.				.15	Errorin dep	.04

General description.

This fractional township is very rough and mountainous and so rough that I deem it impracticable to survey. There is a very small portion of the S.E.1/4 and a small portion of the N.W. 1/4 togather with most of the N.E.1/4 of sec. 12 that will never be cultivated .

Jefferson A. Huff has a stack yard in the N.E.1/4 of the S.E.1/4 of sec. 12 , estimated value of $50.00

General description.

There is a good supply of water from Pack Creek for irrigation on the N.E.1/4 of sec. 12 . but at the present time there is a very scant supply for any other part of this sec.

There is no surface indications of mineral in this sec

There is a scattering growth of scrubby cedar and pinion timber in the S.W.1/4 of this sec.

John W. Dougall
U.S.Surveyor.

Blank

Page

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BOOK A-415

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, John W. Dougall, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of

Townships No. 25 South Range No. 22 E.

Townships No. 26 South Ranges No., 21 and 22 East.

of the Salt Lake Base and Meridian, in the State of Utah.

which are represented in the foregoing field notes as having been executed 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 executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Glenn Allan.	Sept.11,1912	Sept. 24,1912	Chainman
William B Clark	Sept.11,1912	Sept.24,1912	Chainman
Bissee Harrison	Sept,11,1912	Sept.24,1912	Axman
Glen Mason	Sept.11,1912	Dec.10,1912	Flagman
Lee Elmer	Sept.28,1912	Nov. 28,1912	Chainman
Joseph Rainbow	Sept.28,1912	Oct.15,1912	Axman
Delbert Petersen	Oct. 16,1912	Nov.28,1912	Axman
Bissell Harrison	Sept.25,1912	Dec.10,1912	Chainman

Subscribed and certified to before me on the dates of the final service as shown above.

John W. Dougall
U. S. Surveyor.

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FINAL OATH OF UNITED STATES SURVEYOR.

I, John W. Dougall, U. S. Surveyor, do solemnly swear that, in pursuance of ~~special~~ assignment instructions received from the U. S. Surveyor General for Utah. bearing date of the 31 day of August, 1912 and special instructions dated Sept. 7, 1911, ~~191~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Township No. 25 South Range No. 22 East Townships No. 26 South Ranges No. 21 and 22 East.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes in books C.K.L.M.& N. as having been executed 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 U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John W. Dougall
U. S. Surveyor.

Subscribed by said John W. Dougall, and sworn to before me this 12 day of February, 1914

SEAL

Thomas Hull
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 12, 1914.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 26 South, Range No. 21 East of the Salt Lake Base and Meridian, Utah,

executed by John W. Dougall under ~~XX~~ special instructions dated Sept. 7, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

G. C. Thoresen
U. S. Surveyor General.

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

U. S. Surveyor General.

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