Volume

#

R0372

BOOK A-372

INDEX DIAGRAM.

Township 12 S., *Range* 18 E.

	24	25	26	27		
28	6	5	4	3	2	1
29	7	8	9	10	11	12
30	18	17	16	15	14	13
31	19	20	21	22	23	24
	30	29	28	27	26	25
	31	32	33	34	35	36

6—151

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

In the capacity of U. S. Surveyor....., under instructions dated ..... *, 191....*

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

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

Office, ..., *191....., pursuant to authority contained in the Act of*

Congress dated ....., *191....*

Survey commenced ....., *191....*

Survey completed ....., *191....*

BOOK A-372

INDEX DIAGRAM.

Township 11 S., *Range* 17 E.

6	110	5	93	4	80	3	67	2	55	1	
109		108		92		79		66		54	
7	107	8	90	9	77	10	65	11	53	12	
106		105		89		76		64		52	
18	104	17	88	16	75	15	63	14	51	13	
103		102		87		74		61		50	
19	101	20	86	21	73	22	60	23	48	24	
100		99		85		71		59		47	
30	98	29	83	28	70	27	58	26	46	25	
97		96		82		69		57		45	
31	94	32	81	33	68	34	56	35	44	36	

6—151

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

In the capacity of U. S. Surveyor...., under instructions dated....., 191...,

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

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

Office, ..., 191...., pursuant to authority contained in the Act of

Congress dated ....., 191....

Survey commenced ....., 191....

Survey completed ....., 191....

BOOK A-372

INDEX DIAGRAM.

Township 11 S. *Range* 18 E.

6	132	5	144	4	160	3	165	2	169	1	
131		143		159		164		166		169	
7	130	8	142	9	158	10	163	11	167	12	
129		141		156		161		163			
18	128	17	140	16	157	15	162	14		13	
127		139		155							
19	126	20	137	21		22		23		24	
125		136		149		154					
30	124	29	135	28	148	27	152	26		25	
123		134		147		150		152			
31	122	32	133	33	145	34	151	35		36	

Meanders 170-177

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

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

Survey commenced ....., *191*....

Survey completed ..... *191*....

BOOK A-372

INDEX DIAGRAM.

Township 12 S., *Range* 18 E.

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

191 194 197 193 192 195 198 200 196 199

Meanders 201-2-3

6—151

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

In the capacity of U. S. Surveyor ..., under instructions dated ..... *, 191...,*

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

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

Office, ... *, 191..., pursuant to authority contained in the Act of*

Congress dated ..... *, 191...*

Survey commenced ..... *, 191...*

Survey completed ..... *, 191...*

BOOK A-372

INDEX DIAGRAM.

Township 12 S., *Range* 17 E.

216 6	267 5	257 4	249 3	240 2	232 1
269	268	258	250	241	233
217 7	270 8	259 9	251 10	242 11	234 12
272	271	260	252	243	235
218 18	273 17	261 16	253 15	244 14	236 13
275	276	262	253	245	237
219 19	277 20	264 21	255 22	247 23	238 24
279	278	265	256	248	239
30	29	28	27	26	25
31	32	33	34	35	36

6—151

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

In the capacity of U. S. Surveyor....., under instructions dated....., 191....,

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

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

Office,....., 191...., pursuant to authority contained in the Act of

Congress dated....., 191....

Survey commenced....., 191....

Survey completed ..... 191....

BOOK A-372

INDEX DIAGRAM.

Township 12 S., *Range* 16 E.

6	358	5	340	4	327	3	314	2	305	1	
357		355		339		325		313		304	
7	354	8	337	9	324	10	311	11	302	12	
353		352		336		323		310		301	
18	351	17	335	16	322	15	308	14	300	13	
350		348		333		321		307		299	
19	347	20	332	21	319	22	306	23	298	24	
346		345		331		319		297		295	
30	344	29	330	28	317	27	293	26		25	
343		342		329		316					
31	341	32	328	33	315	34	292	35		36	

6—151

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

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

Survey commenced ....., *191*....

Survey completed ....., *191*....

BOOK A-372

INDEX DIAGRAM.

Township 12 S., Range 15 E.

6	446	5	426	4	413	3	399	2	385	1
~~445~~		~~444~~		~~425~~		~~411~~		~~397~~		~~383~~
7	443	8	424	9	410	10	396	11	382	12
~~441~~		~~440~~		~~423~~		~~409~~		~~395~~		~~380~~
18	439	17	421	16	407	15	393	14	379	13
~~438~~		~~437~~		~~420~~		~~406~~		~~392~~		~~378~~
19	435	20	419	21	405	22	391	23	376	24
~~434~~		~~433~~		~~418~~		~~404~~		~~390~~		~~375~~
30	431	29	417	28	403	27	388	26	374	25
~~430~~		~~429~~		~~416~~		~~402~~		~~387~~		~~373~~
31	428	32	414	33	401	34	386	35	372	36

6—151

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

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

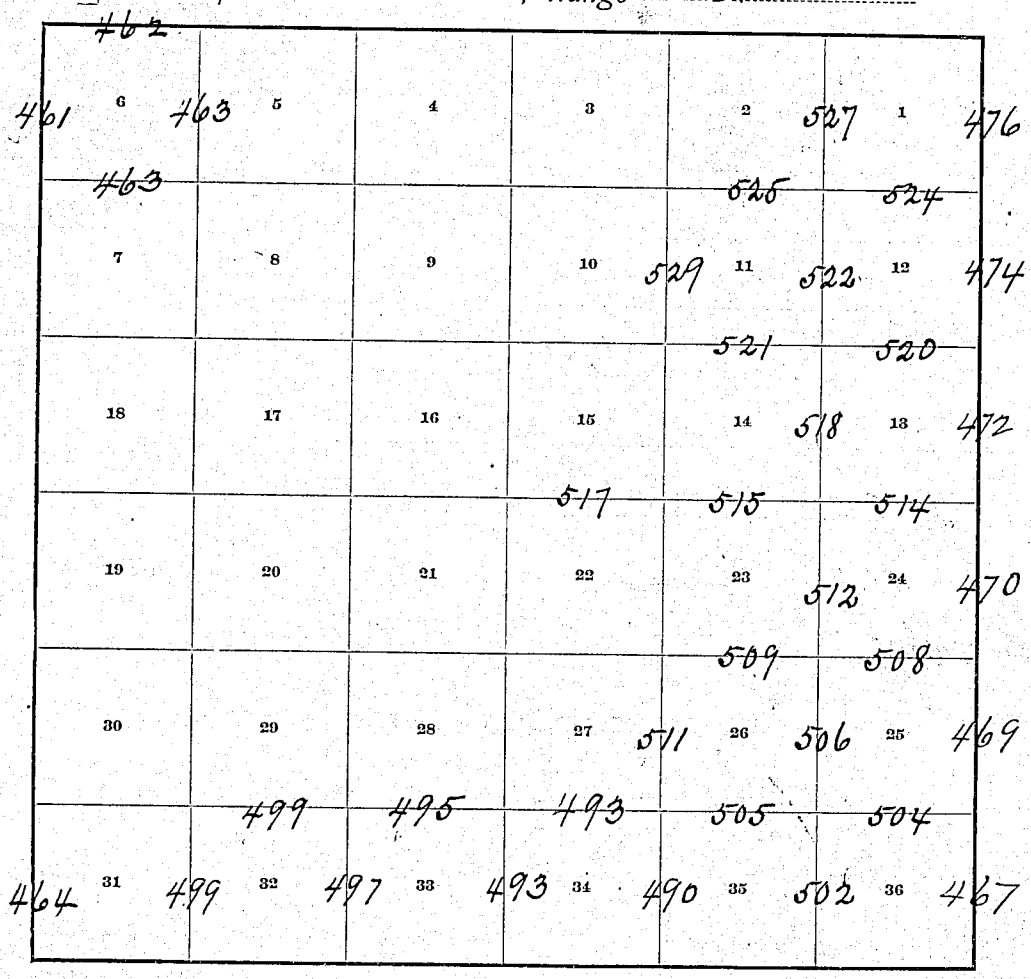
Survey commenced ....., *191*....

Survey completed ....., *191*....

BOOK A-372

INDEX DIAGRAM.

Township 14 S., Range 8 E.



6—157

FIELD NOTES

OF THE SURVEY OF THE

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

.....

.....

.....

In the capacity of U. S. Surveyor...., under instructions dated ..... *, 191....,*

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

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

Office, ... *, 191...., pursuant to authority contained in the Act of*

Congress dated ..... *, 191....*

Survey commenced ..... *, 191....*

Survey completed ..... *, 191....*

BOOK A-372

INDEX DIAGRAM.

Township 15 S. , *Range* 9 E.

541	543	544	545		
562 6	577 5	571 4	567 3	557 2	1
576	572	570	566		
561 7	574 8	568 9	564 10	558 11	12
561	560	560	559		
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

FIELD NOTES

OF THE SURVEY OF THE

Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

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

Survey commenced ....., *191*....

Survey completed ....., *191*....

Boy G.N.

H.J.B.
M.S.B.

19

4—679.

" R "

BOOK A-372

FILED
DEC 15 1910

M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

NORTH and WEST BOUNDARIES

of

TOWNSHIP NO.12 SOUTH, RANGE NO.18 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D.Heist and Walter A.Stumm, *United States Deputy Surveyor,*s

der ~~his~~ their Contract No. 312, *dated* March 27, *1909*

rvey commenced November 22, *1909*

rvey completed November 25, *1909*

6—151

north 33269
west 35962
71231

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

John Albert Haigh,	Chainman
Earl V.Woolley,	"
Ray Lee,	Moundman
Heber J.Stowell,	Axman
Homer A.Shelley,	Flagman

For preliminary affidavits see book "I" T. 12 S., R. 15 E.

C—151

his survey was approved 11/21/1911 and has been
approved effective 3/3/1981, file 9650.12(UO-401).
so noted.

lm 4/14/81

BOOK A-372

INDEX DIAGRAM.

Township 12 South, , *Range* 18 East,

2	3	4	5		
6 6	5	4	3	2	1
7 7	8	9	10	11	12
8 18	17	16	15	14	13
9 19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of .....

..... *Chainman.*

..... *Chainman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of .....

..... *Moundman.*

..... *Moundman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of .....

..... *Axman.*

..... *Axman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

..... *Flagman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

NORTH BOUNDARY OF T.12 S.,R.18 E.

CHAINS

Survey commenced November 22,1909.and executed with the instrument described in book "A",of this survey.
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 Tps.11 and 12 S.,Rs.17 and 18 E.,heretofore described in approximate latitude 39°49'N., longitude 109°59'W.,I set off 39°49'N.on lat.arc,20°05' S.on decl.arc,and at 3h.46m.,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 22,1909

November 23: At 3h.16m.,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 peg,driven in the ground,5 chs.N.of my station.
At 7h.30m.,a.m.,I lay off the azimuth of Polaris,1°32' to the east,and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.1 in.east of the mark determined by the solar.
At 7h.46m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc, 20°14'S.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.2 ins.east of the meridian established by the Polaris observation.
The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'05" west and 0'10" east of the meridian established by the Polaris observation; therefore,I conclude that the adjustments of the instrument are satisfactory.

NORTH BOUNDARY OF T.12 S.,R.18 E.

CHAINS	
	The magnetic bearing of the true meridian,at 8h.30m.,a. m.,is N.16°10'W.,the angle thus determined gives the mag.decl.16°10'E.
	From the Tp.cor.already described,I run East,bet.secs.6 and 31.
	Over level land on top of Horse Bench, through sparse undergrowth.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground marked on brass cap,¼ S 31 on N.half,and S 6 on S.half, dig pits,18x18x12 ins.,E.and W.of post,3 ft.dist.,and raise a mound of earth,3½ ft.base,1½ ft.high,N.of cor.
63.20	Begin abrupt descent over sandstone ledges,bearing N. and S.
72.00	Hollow,50 ft.deep,course NE.
	Abrupt ascent.
76.60	Spur,projects NE.
	Abrupt descent.
79.40	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.5-6-31 and 32,marked on brass cap
	T 11 S S 31 in NW.,
	R 18 E S 32 in NE.,
	R 18 E S 5 in SE.,and
	T 12 S S 6 in SW.quadrant, and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,level and mountainous.
	Soil,sandy loam,2nd.rate on 63.20 chs.
	balance, rocky,3rd.and 4th.rate.
	No timber ; undergrowth,sage brush and bunch grass.
	Mountainous land on 16.80 chs.

NORTH BOUNDARY OF T.12 S.,R.18 E.

CHAINS	
	East, bet.secs.5 and 32.
	Ascend abruptly over rocky and mountainous land.
7.50	Top of abrupt ascent,bears NE.and SW.
	Over level land on Horse Bench,through sparse undergrowth.
24.00	Begin abrupt descent over sandstone ledges,bearing NW. and SE.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked ¼ S 32 on N.half,and S 5 on S.half,and raise a mound of stone,2 ft.base,1½ ft. high,N.of cor.
	Pits impracticable.
50.60	Hollow,200 ft.below top of Horse Bench,course N.
	Abrupt ascent.
59.50	Ridge,bears N.and S.
	Descend.
79.00	Begin abrupt descent over sandstone ledges,bearing NW.and SW.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.4-5-32 and 33,marked on brass cap,T 11 S S 32 in NW.,
	R 18 E S 33 in NE.,
	R 18 E S 4 in SE.,and
	T 12 S S 5 in SW.quadrant, and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 63.50 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 63.50 chs.
	November 23: At this cor.I set off 20°19'S.on decl.arc,

NORTH BOUNDARY OF T.12 S.,R.18 E.

CHAINS	
	and at 11h.46m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°49'N.
	East,bet.secs.4 and 33.
	Descend abruptly over rocky and mountainous land.
3.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
12.00	Top of abrupt ascent,bears NE.and SW.
	Ascend.
18.00	Spur,projects NE.
	Descend.
24.00	Hollow,150 ft.deep,course NE.
	Ascend.
35.00	Spur,projects NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 33 on N. half and S 4 on S.half, and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
41.00	Hollow,100 ft.deep,course N.
	Ascend.
43.50	Spur,projects N.
	Descend.
46.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
53.50	Top of abrupt ascent,bears N.and S.
	Ascend.
58.35	Spur,projects N.
	Descend.
73.00	Hollow,100 ft.deep,course N.
	Ascend.
78.50	Ridge,bears NE.and SW.
	Abrupt descent.

NORTH BOUNDARY OF T.12 S.,R.18 E.

CHAINS	
	Abrupt descent.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.3-4-33 and 34, marked on brass cap,T 11 S S 33 in NW.,
	R 18 E S 34 in NE.,
	R 18 E S 3 in SE.,and
	T 12 S S 4 in SW.quadrant, and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	East, bet.secs.3 and 34.
	Descend over rocky and mountainous land.
1.50	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
7.00	Foot of ledges,800 ft.below sec.cor.,bearing NE.and SW. Enter level bottom land and cultivated land belonging to Preston Nutter,bearing NE.and 8 chs.SW.
23.00	Leave cultivated land,bears NE.and 2 chs.SW.
25.00	Enter dense willows.
32.69	To right bank of Green River.
	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for meander cor.of fracl.secs.3 and 34, marked on brass cap T 11 S R 18 E on N.half,
	T 12 S R 18 E on S.half,
	S 34 S 3 on W.half and M C on E.half,dig a pit, 36x36x12 ins.,8 ft.W.of post, and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 7.00 chs. balance, loam,1st.rate.

NORTH BOUNDARY OF T.12 S.,R.18 E.

CHAINS

No timber.

Undergrowth, willows.

Mountainous land on 7.00 chs.

November 23: 1909

WEST BOUNDARY OF T. 12 S. R. 18 E.

November 24: At 7h.47m.,a.m.,l.m.t.,I set off 39°49'N. on lat.arc,20°26'S.on decl.arc,and determine a meridian with the solar at the cor.of Tps.11 and 12 S., Rs.17 and 18 E.,heretofore described

Thence I run

South,bet.secs.1 and 6.

Gradual ascent over rolling land,on top of Horse Bench through sparse undergrowth.

19.62 A distance equal to the length of the north end of the line bet.secs.1 and 6 on the east bdy.of T.12 S.,R.15 E. Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 1 on W. half and S 6 on 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.

51.17 Begin abrupt descent over sandstone ledges,bearing E.and W.

57.50 Hollow,200 ft.deep,course SW.

Abrupt ascent.

59.62 Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.1-6-7 and 12.marked on brass cap

T 12 S on N.half,

R 17 E S 1 in NW.,

R 18 E S 6 in NE.,

S 7 in SE.and S 12 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

WEST BOUNDARY OF T.12 S.,R.18 E.

CHAINS	
	Pits impracticable.
	Land,rolling and mountainous.
	Soil,sandy loam,2nd.rate on 51.17 chs.
	balance,rocky,3rd.and 4th.rate.
	No timber
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 8.45 chs.
	South,bet.secs.7 and 12.
	Abrupt ascent over broken sandstone ledges,along steep west slope.
8.00	Rocky spur,projects SW.
	Abrupt descent over solid sandstone.
40.00	Falls on the solid sandstone.
	I cut a cross (X),at exact point for ¼ sec.cor.,marked ¼ on W.side of cross,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	There is no point within 10.00 chs.where this cor. could be witnessed by an iron post, in any direction.
42.00	Hollow,800 ft.below last named spur, course E.
	Abrupt ascent over solid sandstone.
54.00	Rocky spur,projects NE.
	Abrupt descent.
69.00	Hollow,500 ft.deep,course NE.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,3 ins.dia.,in mound of stone, for cor.of secs.7-12-13 and 18,makred on brass cap
	T 12 S on N.half,
	R 17 E S 12 in NW.,
	R 18 E S 7 in NE.,
	S 18 in SE.,and
	S 13 in SW.quadrant, and raise a mound of stone,2 ft.

WEST BOUNDARY OF T.12 S.,R.18 E.

CHAINS	
	base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post in the ground.
	Land,mountainous.
	Soil,sandstone ledges,4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	November 24: At this cor.I set off 20°31'S.,on decl.arc and at 11h.47m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°47'N.
	South bet.secs.13 and 18.
	Abrupt ascent over solid shale ledges.
6.00	Sandstone ridge,bears NE.and SW.
	Abrupt descent over solid ledges.
19.00	Hollow,400 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
35.00	Top of perpendicular sandstone ledge,100 ft.high,bears NE.and SW.
	Leave sandstone ledges.
	Over level sandy land,through scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 13 on W. half and S 18 on E.half, from which
	A cedar,6 ins.diam.,bears N.79°W.,42 lks.dist. marked ¼ S 13 BT.
	A cedar,5 ins.diam.,bears N.83°E.,39 lks.dist. marked ¼ S 18 BT.
71.70	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
74.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
76.00	Spur,projects NE.

WEST BOUNDARY OF T.12 S.,R.18 E.

CHAINS	
	Abrupt descent. Leave timber.
79.00	Top of perpendicular sandstone ledge,100 ft.high,bears NE.and SW.
80.00	At foot of ledge, set an iron post,3 ft.long,3 ins.dia. 24 ins.in the ground,for cor.of secs.13-18-19 and 24, marked on brass cap
	T 12 S on N.half,
	R 17 E S 13 in NW.,
	R 18 E S 18 in NE.,
	S 19 in SE.,and
	S 24 in SW.quadrant, and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous,and level.
	Soil,rocky,3rd.and 4th.rate, sandy,3rd.rate.
	Timber, cedar and pinon.
	Mountainous land on 43.30 chs.
	November 24, 1909

	November 25: At 7h.47m.,a.m.,l.m.t.,I set off 39°46'N. on lat.arc,20°38'S.on decl.arc,and determine a meridian with the solar at the cor.of secs.13-18-19 and 24.
	Thence I run
	South,bet.secs.19 and 24.
	Descend abruptly along steep,rocky east slope over mountainous land.
13.00	Head of hollow,course E.
	Abrupt ascent.
24.00	Ridge,bears NW.and SE.
	Abrupt descent along steep west slope.
34.98	Top of shale ledges, 300 ft.high,bear E.and W.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,marked on brass cap T 12 S R 18 E W C ¼ on N.half,

WEST BOUNDARY OF T.12 S.,R.18 E.

CHAINS

S 24 on W.half and S 19 on E.half, and raise a mound of stone,2 ft.base,1½ ft.high, W.of cor.

Pits impracticable.

At this point is the beginning of the breaks which form Desolation Canyon of Green River, the river being about 20.00 chs.east of this point and about 1000 ft. lower. Point for triangulation.

40.00 Falls on inaccessible ledges.

As I cannot chain or offset to continue south I have to resort to a triangulation with a base shorter than the regulations allow on account of the precipitous country east and west of this line.

To determine the distance across a series of impassable gorges ,I set a flag on an accessible point south, then measure a base,7.00 chs.East,to a point from which the flag bears S.16°03'W.; from the flag the east end of the base bears N.16°03'E.,therefore the dist.is cotangent 16°03' X base, or 3.4759X7.00 = 24.33 chs. making the whole dist. from the witness cor.to the ¼ sec.cor., 34.98 + 24.33 makes

59.31 On S.edge of a gorge,500 ft.deep, and about 4.00 chs. wide.

Ascend along steep west slope over solid sandstone.

71.20 Sandstone spur,projects SW.

Abrupt descent over sandstone ledges.

80.00 Point for cor.falls on a solid sandstone ledge, 8x4x3 ft.,projecting from the solid ledge.

I cut a cross,(X),at exact point for cor.of secs. 19-24-25 and 30, with 2 grooves on S.and 4 grooves on N.side of cross and raise a mound of stone, 2 ft. base,1½ ft.high,W.of cor.

Pits impracticable.

Note:

There is no point on line within 10.00 chs., or within a radius of 5.00 chs.where an iron post

WEST BOUNDARY OF T.12 S.,R.18 E.

CHAINS

can be set.

Land,mountainous.

Soil,shale and sandstone ledges,4th.rate.

No timber.

Mountainous land on 80.00 chs.

The cor.of secs.19-24-25 and 30,is set on the steep north slope on the solid sandstone ledges,forming the north portal of Rock House Canyon where it meets Desolation Canyon of Green River.

The line from this point south crosses the gorge of Rock House Canyon,about 15.00 chs.west of Green River and if continued south would intersect the river at about 60.00 chs.distant.

As the perpendicular ledges along Rock House Canyon and Green River are nearly 1000 ft.high, and it is impossible to continue south by chaining,offsets or triangulation ,I abandon the survey of the west boundary of T.12 S.,R.18 E.at this cor.

November 25, 1909

For table of latitudes and departures see Subdivisions of T.12 S.,R.18 E.

For General Description see Subdivisions of T.12 S., R.18 E.

Harvey H. Hunt
U.S. Deputy Surveyor

Blank

Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D.Heist, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the E.bdy.of T.12 S.R.15 E.;S.& E.bdys.of T.11 S.Rs.16 & 17 E.,and the N.& W.bdys.of T.12 S.R.18 E.,S.L.B.& M.,in the state of Utah showing the respective capacities in which they acted:

John Albert Haigh, Chainman.
Earl V.Woolley, Chainman.
Ray Lee, Moundman.
Moundman.
Heber J.Stowell, Axman.
Axman.
Homer A.Shelley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D.Heist, United States Deputy Surveyor, in surveying all those parts or portions of the E.bdy.of T.12 S.,R.15 E.,the S.& E.bdys.of T.11 S.,Rs.16 and 17 E.and the N.& W.bdys.of T.12 S.,R.18 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

John Albert Haigh, Chainman.
Earl V. Woolley, Chainman.
Ray Lee, Moundman.
Moundman.
Heber J. Stowell, Axman.
Axman.
Homer A. Shelley, Flagman.

Subscribed and sworn to before me this 25th. day of November, 1909

SEAL

Harvey D. Heist
U.S.Deputy Surveyor

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of the 27th. day of March, 190 9, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the E.bdy. of T.12 S., R.15 E., the S.& E.bdys. of T.11 S., Rs.16 and 17 E., and the N. and W.bdys. of T.12 S., R.18 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes in books I., O.Q.& R. as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Harvey D. Heist
United States Deputy Surveyor.

Subscribed by said Harvey D. Heist, and sworn to before me this 22 day of Dec, 1910

Jerrold R. Sutcher Clerk
U.S. Dist Court Dist
Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 21, 1911~~190~~

The foregoing field notes of the survey of the North and West Boundaries of Township No. 12 South, Range No. 18 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Walter A. Stumm under their contract No. 312, dated March 27, 190 9, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

United States Surveyor General.

6—151

Blank

Page

Blank

Page

4—679.

"D"

FILED
DEC 12 1910
a49.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO. 11 SOUTH, RANGE NO. 17 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Walter A. Stumm, *United States Deputy Surveyors,*

under ~~his~~ their *Contract No.* 312, *dated* March 27, 1909

Survey commenced March 15, 1910

Survey completed March 30, 1910

6—151

59-66-26 Township 1-40-12

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Lionel Babcock,	Chainman
Jack Barker,	"
Floyd Hume,	Moundman
Will Carlisle,	"
Will Light,	Axman
George Walkup,	Flagman

6—151

BOOK A-372

INDEX DIAGRAM.

Township 11 South, , *Range* 17 East,

6	68 5	51 4	38 3	25 2	13 1
67	66	50	37	24	12
7	65 8	48 9	35 10	23 11	11 12
64	63	47	34	22	10
18	62 17	46 16	33 15	21 14	9 13
61	60	45	32	19	8
19	59 20	44 21	31 22	18 23	6 24
58	57	43	29	17	5
30	56 29	41 28	28 27	16 26	4 25
55	54	40	27	15	3
31	52 32	39 33	26 34	14 35	2 36

Meanders Page

6—161

BOOK A-372

PRELIMINARY OATHS OF ASSISTANTS.

WE, Lionel Babcock and Jack Barker, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivisions of T.11 S., Rs.17 and 18 E., T.12 S., Rs.17 and 18 E. S.L.B.& M., in the state of Utah.

Lionel Babcock, *Chainman.*

Jack Barker, *Chainman.*

Subscribed and sworn to before me this 15th. day of March, 1910

SEAL

Fanny D. First
U.S. Deputy Surveyor

WE, Floyd Hume and Will Carlisle, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Subdivisions of T.11 S., Rs.17 & 18 E., and T.12 S., Rs.17 & 18 E. S.L.B.& M., in the state of Utah

Floyd Hume, *Moundman.*

Will Carlisle, *Moundman.*

Subscribed and sworn to before me this 15th. day of March, 1910

SEAL

Fanny D. First
U.S. Deputy Surveyor

~~WE,~~ I, Will Light, ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given ~~us,~~ me to the best of ~~our~~ my skill and ability, in the survey of the Subdivisions of T.11 S., Rs.17 & 18 E., and T.12 S., Rs.17 & 18 E. S.L.B.& M., in the state of Utah

Will Light, *Axman.*

, *Axman.*

Subscribed and sworn to before me this 15th. day of March, 1910

SEAL

Fanny D. First
U.S. Deputy Surveyor

I, George Walkup, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivisions of T.11 S., Rs.17 & 18 E. and T.12 S., Rs.17 & 18 S.L.B.& M., in the state of Utah

George Walkup, *Flagman.*

Subscribed and sworn to before me this 15th. day of March, 1910

SEAL

Fanny D. First
U.S. Deputy Surveyor

6—151

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS

Survey commenced,March 15,1910,and executed with the instrument described in book "A",of this survey.

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.1-2-35 and 36,heretofore described on the S.bdy.of the Tp.,in approximate latitude 39°49'N., longitude 110°00'W.,I set off 39°49'N.on lat.arc,2°09'S. on decl.arc,and at 4h.09m.,p.m.,l.m.t., determine a meridian with the solar and mark a point thereof,on a stone,firmly set in the ground,5 chs.N.of the cor.

At 7h.52m.,p.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 peg driven in the ground,5 chs.N.of my station.

March 15,1910

March 16: At 7h.30m.,a.m.,I lay off the azimuth of Polaris,1°32'to the east,and mark the meridian thus determined by cutting a small groove in the stone set last evening on which the meridian falls 0.2 ins.east of the mark determined by the solar.

At 8h.09m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc, 1°53'S.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.2 ins east of the meridian established by the Polaris observation.

The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'11" west and east of the meridian established by the Polaris

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	observations; thereofre,I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h.30m., a.m.is N.16°10'W.,the angle thus determined gives the mag.decl.16°10'E.
	From the sec.cor.already described,I run N.0°01'W.,bet.secs.35 and 36.
	Gradual descent on Horse Bench,through sparse undergrowth.
3.00	Begin abrupt descent over sandstone ledges,bearing E. and W.
5.25	Head of hollow,course NE.
	Ascend.
12.00	Ridge,bears NE.and SW.
	Abrupt descent.
37.00	Hollow,250 ft.below Horse Bench,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 35 on W. half and S 36 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
49.75	Spur,projects NE.
	Descend abruptly over sandstone ledges.
69.00	Enter bottom of Nine Mile Canyon,500 ft.deep,course E.
	Enter dense undergrowth.
72.00	Minnie Maud Creek,30 lks.wide,12 ins.deep,course E.
73.15	Same creek, 30 lks.wide,12 ins.deep,course SW.
75.00	Same creek,30 lks.wide,12 ins.deep,course E.
78.00	Leave canyon,begin abrupt ascent over sandstone ledges, bearing E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	ground,for cor.of secs.25-26-35 and 36,marked on brass cap T 11 S S 26 in NW., R 17 E S 25 in NE., S 36 in SE.and S 35 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,rolling, mountainous, and bottom land.
	Soil,sandy loam, 2nd.rate,on 3.00 chs.
	rich loam,1st.rate on 9.00 chs.
	balance,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth, greasewood,sage brush and bunch grass.
	Mountainous land on 68.00 chs.
	East,on a random line,bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
80.02	Intersect E.bdy.of Tp.,5 lks.N.of the cor.of secs. 25-30-31 and 36,heretofore described.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.25 and 36.
	Descend over rocky and mountainous land,along steep north slope.
16.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.
19.40	Spur,projects N.
	Abrupt descent over sandstone ledges,bearing NE.and SW.
23.00	Enter bottom of Nine Mile Canyon,500 ft.deep,course NE.
	Over level land,through dense undergrowth.
33.50	Minnie Maud Creek,30 lks.wide,15 ins.deep,course N.
35.70	Leave bottom of canyon,begin abrupt ascent over sandstone ledges,bearing NE.and SW.
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 25 on N. half and S 36 on S.half,and raise a mound of stone,

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS

2 ft.base,1½ ft.high,N.of cor.

Pits impracticable.

44.50 Sandstone spur,projects SE.

Abrupt descent.

56.50 Hollow,300 ft.deep,course SE.

Abrupt ascent.

66.00 Sandstone spur,projects SE.

Abrupt descent along steep south slope.

80.02 The cor.of secs.25-26-35 and 36.

Land,mountainous and bottom land.

Soil,rocky,3rd.and 4th.rate on 67.30 chs.

balance,loam,1st.rate.

No timber.

Undergrowth, greasewood and sage brush.

Mountainous land on 67.30 chs.

March 16: At this cor.I set off 1°50'S.on decl.arc,and at 12h.09m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°50'N.

N.0°01'W.,bet.secs.25 and 26.

Abrupt ascent over sandstone ledges.

9.50 Spur,projects SE.

Descend.

29.00 Hollow,100 ft.deep,course SE.

Ascend abruptly.

34.00 Begin ascent over solid shale ledges,bearing NE.and SW.

40.00 Falls on the solid ledge,impossible to set.

45.75 Begin abrupt ascent over sandstone ledges,bearing E.and W.

46.20 Top of perpendicular sandstone ledge,bears E.and W., 125 ft.high.

Ascend.

46.59 Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	T 11 S R 17 E on N.half, S 26 on W.,and S 25 on E.half and W C ¼ on S. half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
	Begin gradual descent over mesa,through sparse undergrowth.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.23-24-25 and 26,marked on brass cap T 11 S S 23 in NW.,
	R 17 E S 24 in NE.,
	S 25 in SE.and S 26 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate on 46.59 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 46.59 chs.
	S.89°58'E.,on a random line,bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
79.92	Intersect E.bdy.of Tp.,7 lks.S.of the cor.of secs. 19-24-25 and 30,heretofore described.
	Thence I run
	S.89°59'W.,on a true line,
	Bet.secs.24 and 25.
	Descend abruptly over rocky and mountainous land.
9.25	Hollow,200 ft.deep,course SE.
	Abrupt ascent over ledges.
13.00	Top of perpendicular sandstone ledge,50 ft.high,bears N.and S.
	Over rocky land on level mesa.
39.96	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 24 on N. half and S 25 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
47.25	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
51.00	Hollow,150 ft.deep,course S.
	Abrupt ascent over ledges.
56.00	Top of perpendicular sandstone ledge,100 ft.high,bears NE.and SW.
	Over level mesa.
60.25	Road from Green River to Gate Canyon,bears NE.and SW.
	Begin ascent.
68.60	Rocky spur,projects S.
	Descent.
77.75	Same road,bears NW.and SE.
	Foot of descent,bears NW.and SE.
	Over level mesa.
79.92	The cor.of secs.23-24-25 and 26.
	Land,level and mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 31.75 chs.
	March 16, 1910.

March 17: At 8h.09m.,a.m.,l.m.t.,I set off 39°50'N.on lat.arc,1°30'S.on decl.arc, and determine a meridian with the solar at the cor.of secs.23-24-25 and 26.

Thence I run

N.0°01'W.,bet.secs.23 and 24.

	Gradual descent over rocky land.
2.05	Road from Green River to Gate Canyon,bears NW.and SE.
4.75	Begin abrupt ascent,bears NW.and SE.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
16.00	Ridge,bears NW.and SE.
	Abrupt descent.
21.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
39.20	Spur,projects NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 23 on W. half and S 24 on E.half,and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
50.00	Hollow,100 ft.deep,course NE.
	Ascend.
56.20	Spur,projects NE.
	Descend.
73.00	Hollow,100 ft.deep,course NE.
	Ascend.
77.00	Spur,projects NE.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.13-14-23 and 24,marked on brass cap T 11 S S 14 in NW.,
	R 17 E S 13 in NE.,
	S 24 in SE.and S 23 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,rolling and mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 75.25 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	N.89°59'E.,on a random line,bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp.,7 lks.N.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.13 and 24.
	Descend over rocky and mountainous land.
6.00	Hollow,75 ft.deep,course S.
	Ascend.
24.90	Spur,projects S.
	Descend over shale ledges.
40.00	Set a sandstone,20x14x5 ins.in mound of stone and,earth for ¼ sec.cor.,marked ¼ on N.face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set an iron post within 5 chs.of this point. The stone could not be set in the ground for the same reasons.
43.00	Hollow,75 ft.deep,course SE.
	Ascend.
45.75	Spur,projects SE.
	Abrupt descent.
51.00	Bottom of Sand Wash Hollow,300 ft.deep,course SE.
	Abrupt ascent.
78.00	Spur,projects NE.
	Descend.
80.00	The cor.of secs.13-14 -23 and 24.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber. Mountainous land on 80.00 chs.
	March 17: At this cor.I set off 1°27'S.on decl.arc,and at 12h.09m.,p.m.,l.m.t.,observe the sun on the meridian

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	the resulting lat.is 39°51'N.
	N.0°01'W.,bet.secs.13 and 14.
	Descend over rocky and mountainous land.
14.00	Bottom of Sand Wash Hollow,300 ft.deep,course SE.
	Abrupt ascent.
29.00	Begin abrupt ascent over shale ledges,bearing NW.and SE.
40.00	Falls on the smooth surface of the solid ledge,impossible to set.
51.15	Falls on a sandstone boulder,40x28x14 ins.above ground, I cut a cross (X),at exact point for witness cor.to ¼ sec.cor.,marked W C ¼ on W.face of boulder,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natur al obstacles it is impossible to set an iron post as a witness cor.to this ¼ sec.cor.
	Abrupt ascent over sandstone ledges.
53.25	Top of divide between Nine Mile Canyon and the Uintah Basin,bears NW.and SE.
	This divide is 700 ft.above the cor.of secs.13-14-23 and 24.
	Descend through sparse undergrowth.
80.00	Hollow,100 ft.deep,course NE.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.11-12-13 and 14,marked on brass cap T 11 S S 11 in NW.,
	R 17 E S 12 in NE.,
	S 13 in SE.and S 14 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky, 3rd.and 4th.rate on 53.25 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 80.00 chs.
	S.89°58'E.,on a random line,bet.secs.12 and 13.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.98	Intersect E.bdy.of Tp.,7 lks.S.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°59'W.,on a true line,bet.secs.12 and 13
	Ascend over mountainous land,along north slope,through scattering undergrowth.
21.00	Ridge,bears N.and S.
	Descend.
31.50	Hollow,25 ft.deep,course N.
	Ascend.
35.00	Spur,projects NE.
	Descend.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 12 on N. half and S 13 on S.half and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
45.00	Hollow,35 ft.deep,course N.
	Ascend.
47.50	Spur,projects N.
	Descend.
79.98	The cor.of secs.11-12-13 and 14.
	Land,mountainous.
	Soil,sandy loam,2nd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 79.98 chs.

March 17,1910

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	March 18: At 8h.08m.,a.m.,l.m.t.,I set off 39°52'N.on lat.arc,1°06'S.on decl.arc,and determine a meridian with the solar at the cor.of secs.11-12-13 and 14.
	Thence I run
	N.0°01'W.,bet.secs.11 and 12.
	Ascend over mountainous land,through sparse undergrowth.
4.75	Spur,projects NE.
	Ascend.
18.75	Hollow,75 ft.deep,course NE.
	Ascend.
27.00	Spur,projects NE.
	Descend.
36.00	Hollow,50 ft.deep,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on W. half and S 12 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
48.00	Ridge,bears NE.and SW.
	Descend.
61.00	Hollow,75 ft.deep,course NE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.1-2-11 and 12,marked on brass cap,T 11 S S 2 in NW.,
	R 17 E S 1 in NE.,
	S 12 in SE.,and S 11 in SW.quadrant, and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber. Undergrowth,sage brush and bunch grass.
	Mountainous land on 8 0.00 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	N.89°59'E.,on a random line,bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
80.02	Intersect E.bdy.of Tp.,7 lks.N.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.1 and 12.
	Descend over rocky and mountainous land.
6.00	Hollow,75 ft.deep,course N.
	Ascend.
16.00	Spur,projects NE.
	Descend.
21.00	Hollow,50 ft.deep,course NE.
	Ascend.
26.00	Spur,projects NE.
	Descend.
31.00	Hollow,50 ft.deep,course NE.
	Ascend.
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 1 on N. half and S 12 on S.half,dig pits,18x18x12 ins.,E.and W. of post,3 ft.dist.,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
50.00	Ridge,bears NE.and SW.
	Descend.
61.00	Hollow,75 ft.deep,course NE.
	Ascend.
80.02	The cor.of secs.1-2-11 and 12.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 80.02 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	March 18: At this cor.I set off 1°03'S.on decl.arc,and at 12h.08m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°53'N.
	N.0°01'W., on a true line,
	Bet.secs.1 and 2.
	Ascend over rocky and mountainous land.
0.75	Spur,projects NE.
	Descend.
11.00	Hollow,50 ft.deep,course NE.
	Ascend.
26.00	Spur,projects NE.
	Descend.
34.00	Hollow,75 ft.deep,course NE.
	Ascend.
40.00	Top of ridge,bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 2 on W. half and S 1 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
	Desce nd'
44.00	Hollow,50 ft.deep,course NE.
	Ascend.
56.80	Ridge,bears NE.and SW.
	Descend.
79.70	Hollow,75 ft.deep,course NE.
	Ascend.
79.79	Intersect 2nd.stan.par.south,24.05 chs.west of the stan. cor.of secs.35 and 36,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.1 and 2,marked on brass cap,T 10 S R 17 E S 35 S 36 CC on N.half,and S 1 S 2 on S.half,and raise a mound of stone,2 ft.base,

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.79 chs.
	March 18,1910.
	March 19: At 8h.08m.,a.m.,l.m.t.,I set off 39°49'N.,on lat.arc,0°42'S.on decl.arc,and determine a meridian with the solar at the cor.of secs.2-3-34 and 35,heretofore described on the S.bdy.of the Tp.,
	Thence I run
	N.0°01'W.,bet.secs.34 and 35.
	Abrupt descent over rocky and mountainous land.
30.25	Hollow,200 ft.below sec.cor.,course W.
	Abrupt ascent.
34.75	Spur,projects W.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 34 on W. half and S 35 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
42.00	Hollow,100 ft.deep,course NW.
	Abrupt ascent.
49.45	Spur,projects N.
	Abrupt descent.
55.45	Begin abrupt descent over sandstone ledges,bearing E.and W.
59.00	Enter bottom of Nine Mile Canyon,500 ft.deep,course E.
	Enter dense undergrowth
70.50	Minnie Maud Creek,30 lks.wide,15 ins.deep,course SE.
72.00	Leave bottom of canyon,begin abrupt ascent over broken

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	sandstone ledges,bearing E.and W.
79.25	Top of abrupt ascent,bears E.and W.
	Leave sandstone ledges.
	Begin gradual descent over rolling mesa.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.26-27-34 and 35,marked on brass cap,T 11 S S 27 in NW.,
	R 17 E S 26 in NE.,
	S 35 in SE.and S 34 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous,bottom land and rolling.
	Soil,rocky,3rd.and 4th.rate on 67.00 chs.
	balance,bottom land,1st.rate.
	No timber.
	Undergrowth,sage brush and greasewood.
	Mountainous land on 66.25 chs.
	East,on a random line,bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,5 lks.N.of the cor.of secs. 25-26-35 and 36.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.26 and 35.
	Abrupt descent over rocky and mountainous land,along steep south slope.
4.25	Enter bottom of Nine Mile Canyon, 500 ft.deep,course from W.to SE.
	Ascend in bottom of canyon,through dense undergrowth.
11.00	Minnie Maud Creek,30 lks.wide,12 ins.deep,course SE.
28.00	Enter scattering cottonwood timber.
30.25	Same creek,30 lks.wide,12 ins.deep,course NE.
39.00	Leave timber.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 26 on N. half and S 35 on S.half,from which
	A cottonwood,40 ins.diam.,bears N.80°E.,118 lks. dist.,marked ¼ S 26 BT.
	A cottonwood,12 ins.diam.,bears S.63°E.,185 lks.dist.,marked ¼ S 35 BT.
43.00	Leave canyon, begin ascent over rocky south slope,bears NE.and SW.
48.20	Spur,projects S.
	Descend,over rocky south slope.
50.00	Enter mouth of rocky hollow,course from N.
53.00	Leave mouth of rocky hollow,begin abrupt ascent over sandstone ledges,bearing NE.and SW.
72.00	Top of abrupt ascent,bears NE.and SW.
	Over level mesa.
80.02	The cor.of secs.26-27-34 and 35.
	Land,mountainous,bottom land and level.
	Soil,rocky,3rd.and 4th.rate on 41.27 chs.
	balance,bottom land,1st.and 2nd.rate.
	Timber, cottonwood.
	Undergrowth,greasewood and sage brush.
	Mountainous land on 33.27 chs.
	March 19: At this cor.I set off 0°39'S.on decl.arc,and at 12h.08m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°50'N.

N.0°01'W.,bet.secs.26 and 27

	Gradual descent over rolling mesa,through sparse undergrowth.
12.00	Head of hollow,course SE.
	Ascend.
29.00	Begin abrupt ascent over shale ledges,bearing E.and W.
38.50	Top of perpendicular sandstone ledges,150 ft.high,bear

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	NE.and SW.
38.65	Top of abrupt ascent,bears NE.and SW.
	Begin gradual descent over rolling mesa.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on W. half and S 26 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.22-23-26 and 27,marked on brass cap T 11 S S 22 in NW., R 17 E S 23 in NE., S 26 in SE.,and S 27 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate.on 9.65 chs. balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 9.65 chs.
	S.89°58'E.,on a random line,bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,7 lks.S.of the 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 level mesa.
5.25	Begin abrupt descent over sandstone ledges,bearing N.and S.
9.75	Hollow,150 ft.deep,course S.
	Abrupt ascent over sandstone ledges.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
14.00	Top of abrupt ascent,bears NE.and SW.
	Leave sandstone ledges, over level mesa.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 23 on N. half and S 26 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
41.00	Begin abrupt descent over sandstone ledges,bearing N. and S.
45.60	Hollow,150 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
50.50	Top of abrupt ascent,bears N.and S.
	Leave sandstone ledges, over level mesa.
79.98	The cor.of secs.22-23-26 and 27.
	Land,level and mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 17.25 chs.

N.0°01'W.,bet.secs.22 and 23.

	Gradual ascent over rocky land.
3.10	Road from Green River to Gate Canyon,bears E.and W.
11.00	Begin abrupt ascent over shale ledges,bearing E.and W.
26,30	Ridge,bears E.and W.
	Abrupt descent.
29.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
31.00	Spur,projects NE.
	Abrupt descent.
35.85	Hollow,150 ft.deep,course E.
	Abrupt ascent over shale ledges.
40.00	Falls on the solid ledge,impossible to set.
40.15	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,marked on brass

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	cap T 11 S R 17 E on N.half,
	S 22 on W.half,S 23 on E.half,and W C ¼ on S.half,
	and raise a mound of stone,2 ft.base,1½ ft.high,W.of
	cor.
	Pits impracticable.
41.60	Ridge,bears NE.and SW.
	Abrupt descent.
68.50	Hollow,150 ft.deep,course NE.
	Ascend.
78.00	Spur,projects NE.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the
	ground,for cor.of secs.14-15-22 and 23,marked on brass
	cap,T 11 S S 15 in NW.,
	R 17 E S 14 in NE.,
	S 23 in SE.and S 22 in SW.quadrant, and raise a mound
	of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	March 19,1910.
	March 20: At 8h.08m.,a.m.,l.m.t.,I set off 39°51'N.on
	lat.arc,0°19'S.on decl.arc,and determine a meridian
	with the solar, at the cor.of secs.14-15-22 and 23.
	Thence I run
	N.89°58'E.,on a random line,bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
79.94	Intersect N.and S.line,12 lks.N.of the cor.of secs.
	13-14-23 and 24.
	Thence I run
	N.89°56'W.,on a true line,

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Bet.secs.14 and 23.
	Descend over rocky and mountainous land.
3.00	Hollow,100 ft.deep,course N.
	Abrupt ascent.
7.00	Spur,projects N.
	Abrupt descent.
12.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
22.10	Spur,projects N.
	Abrupt descent.
25.20	Hollow,100 ft.deep,course N.
	Abrupt ascent.
29.00	Spur,projects N.
	Descend.
34.15	Hollow,100 ft.deep,course NE.
	Ascend.
39.97	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 14 on N.half and S 23 on S.half,and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
43.00	Spur,projects NE.
	Descend.
69.00	Hollow,75 ft.deep,course NE.
	Ascend.
79.94	The cor.of secs.14-15-22 and 23.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.94 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	N.0°01'W.,bet.secs.14 and 15.
	Descend over mountainous land.
7.00	Hollow,100 ft.deep,course NE.
	Ascend.
10.00	Spur,projects NE.
	Descend.
12.50	Hollow,100 ft.deep,course NE.
	Ascend.
15.25	Spur,projects NE.
	Descend.
23.00	Hollow,100 ft.deep,course NE.
	Ascend.
24.00	Spur,projects E.
	Descend.
31.50	Bottom of Sand Wash hollow,300 ft.deep,course SE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 15 on W. half and S 14 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
42.50	Begin abrupt ascent over shale ledges,bearing NW.and SE.
62.00	Ridge,400 ft.above the ¼ sec.cor.,bears NW.and SE.
	Abrupt descent.
74.00	Hollow,200 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.10-11-14 and 15,marked on brass cap,T 11 S S 10 in NW., R 17 E S 11 in NE., S 14 in SE.and S 15 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	[illegible] to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	S.89°56'E.,on a random line,bet.secs.11 and 14.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,3 lks.S.of the cor.of secs. 11-12-13 and 14.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.11 and 14.
	Ascend over rocky and mountainous land.
18.00	Ridge,bears NW.and SE.
	Descend.
39.00	Hollow,75 ft.deep,course N.
	Ascend.
39.98	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on N. half and S 14 on S.half,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
43.40	Spur,projects N.
	Descend.
60.00	Hollow,50 ft.deep,course NE.
	Ascend.
69.00	Divide between Nine Mile Canyon and the Uintah Basin, bears NW.and SE.
	Descend along steep south slope over sandstone ledges.
79.96	The cor.of secs.10-11-14 and 15.
	Land,mountainous.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 79.96 chs.
	March 20: At this cor.I set off 0°15'S.on decl.arc,and at 12h.08m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°52'N.
	N.0°01'W.,bet.secs.10 and 11.
	Ascend over rocky and mountainous land.
1.00	Divide between Nine Mile Canyon and the Uintah Basin, bears E.and W.
	Descend.
40.00	Bottom of hollow,75 ft.deep,course NE.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on W.half and S 11 on 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.
	Ascend.
43.00	Ridge,bears NE.and SW.
	Descend.
61.00	Hollow,75 ft.deep,course NE.
	Ascend.
66.00	Ridge,bears NE.and SW.
	Descend.
80.00	Hollow,75 ft.deep,course NE.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.2-3-10 and 11,marked on brass cap T 11 S S 3 in NW.,
	R 17 E S 2 in NE.,
	S 11 in SE.,and S 10 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 80.00 chs.
	S.89°57'E.,on a random line,bet.secs.2 and 11.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.92	Intersect N.and S.line,3 lks.S.of the cor.of secs. 1-2-11 and 12.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.2 and 11.
	Ascend over rocky and mountainous land.
12.00	Ridge,bears NE.and SW..
	Descend...
30.00	Hollow,50 ft.deep,course NE..
	Ascend.
39.96	Set an iron post,3 ft.long,1 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,and raise a mound of stone, 2 ft.base,1$\frac{1}{2}$ ft.high,N.of cor..
	Pits impracticable.
	This cor.is set on top of ridge,bears NE.and SW.
	Descend.
49.00	Hollow,30 ft.deep,course NE.
	Ascend.
55.00	Ridge,bears NE.
	Descend..
65.00	Hollow,50 ft.deep,course NE.
	Ascend.
77.00	Ridge,bears NE.
	Descend.
79.92	The cor.of secs.2-3-10 and 11.
	Land,mountainous.
	Soil,rocky,3rd.rate.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	No timber.
	Mountainous land on 79.92 chs.
	N.0°01'W.,on a true line,
	Bet.secs.2 and 3.
	Ascend over rocky and mountainous land.
5.00	Spur,projects E.
	Descend.
7.50	Hollow,50 ft.deep,course E.
	Ascend.
13.45	Spur,projects E.
	Descend.
18.25	Hollow,50 ft.deep,course E.
	Ascend.
23.55	Ridge,bears E.and W.
	Descend.
36.00	Hollow,75 ft.deep,course E.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on W. half and S 2 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
43.35	Ridge,bears E.and W.
	Descend.
47.00	Hollow,50 ft.deep,course E.
	Ascend.
51.00	Ridge,bears NE.and SW.
	Descend.
58.75	Hollow,75 ft.deep,course NE.
	Ascend.
73.70	Ridge,bears NE.and SW.
	Descend.
79.71	Intersect 2nd.stan.parallel south,23.98 chs.west of the

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	stan.cor.of secs.35 and 36,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.2 and 3,marked on brass cap T 10 S R 17 E S 35 S 36 CC on N.half,and S 2 S 3 on S.half, and raise a mound of stone,2 ft.base 1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.71 chs.
	March 20, 1910
	March 21: At 8h.07m.,a.m.,l.m.t.,I set off 39°49'N.,on lat.arc,0°05'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34, heretofore described on the S.bdy.of the Tp.
	Thence I run
	N.0°02'W.,bet.secs.33 and 34.
	Ascend abruptly over rocky and mountainous land,along steep east slope.
9.70	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 33 on W. half and S 34 on E.half,and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
45.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
51.50	Sandstone spur,projects NE.
	Abrupt descent over sandstone ledges.
59.75	Enter bottom of Nine Mile Canyon,550 ft.deep,course E.
	Enter dense undergrowth.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
68.10	Minnie Maud Creek;30 lks.wide,12 ins.deep,course E.
69.50	Begin abrupt ascent over sandstone ledges,bearing E.and W. Leave bottom of canyon.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.27-28-33 and 34,marked on brass cap,T 11 S S28 in NW., R 17 E S 27 in NE., S 34 in SE.and S 33 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor. Pits impracticable.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous and bottom land.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth, greasewood and sage brush.
	Mountainous land on 70.25 chs.
	East,on a random line,bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line,7 lks.N.of the cor.of secs. 26-27-34 and 35.
	Thence I run N.89°57'W.,on a true line, Bet.secs.27 and 34.
	Over level mesa and rocky land.
3.00	Begin abrupt descent over sandstone ledges,bearing N.and S.
4.50	Hollow,100 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
7.00	Top of abrupt ascent,bears N.and S.
	Over level mesa.
16.00	Begin abrupt descent over sandstone ledges.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
24.00	Hollow,300 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
30.50	Sandstone spur,projects S.
	Abrupt descent.
33.75	Hollow,100 ft.deep,course S.
	Abrupt ascent.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on N. half and S 34 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
44.00	Spur,projects S.
	Abrupt descent.
59.00	Hollow,300 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
67.00	Sandstone spur,projects SE.
	Abrupt descent along steep south slope,over broken sandstone ledges.
80.08	The cor.of secs.27-28-33 and 34.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.08 chs.
	March 21: At this cor.I set off 0°08'N.on decl.arc,and at 12h.07m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°50'N.

N.0°02'W.,bet.secs.27 and 28.

	Abrupt ascent over broken sandstone ledge.
14.50	Ridge,bears NW.and SE.
	Descend along steep east slope.
26.50	Hollow,150 ft.deep,course SE.
	Abrupt ascent along steep east slope over shale ledges.
40.00	Falls on the shale ledges,impossible to set.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
53.00	Top of perpendicular sandstone ledges,100 ft.high, bearing NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,in mound of earth and stone,for witness cor.to ¼ sec.cor.,marked on brass cap,T 11 S R 17 E.on N.half, S 28 on W.half,S.27 on E. half, and.WC¼ on S.half, and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set this post over 15 ins.in the ground.
	Ascend.
53.50	Leave sandstone ledges,bearing NE.and SW.
	Begin gradual descent over rolling mesa.
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,marked on brass cap,T 11 S S 21 in NW.,
	R 17 E S 22 in NE.,
	S 27 in SE.and S 28 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate on 53.50 chs. balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 53.50 chs.
	S.89°57'E.,on a random line,bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,7 lks.N.of the cor.of secs. 22-23-26 and 27.
	Thence I run N.89°54'W.,on a true line,

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Bet.secs.22 and 27.
	Over rocky land,on level mesa.
2.90	Begin abrupt descent over sandstone ledges,bearing N. and S..
8.70	Hollow,100 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
18.70	Spur,projects S.
	Descend.
21.00	Head of hollow,course S.
	Ascend.
27.90	Road from Green River to Gate Canyon,bears NE.and SW.
32.00	Spur,projects S.
	Descend.
34.75	Same road,bears NW.and SE.
38.90	Head of hollow,course SW.
	Abrupt ascent.
39.70	Same road,bears NE.and SW.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 22 on N. half and S 27 on S.half,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
47.40	Spur,projects S.
	Descend.
56.00	Same road,bears NW.and SE.
58.25	Hollow,100 ft.deep,course SW.
	Ascend.
62.00	Same road,bears NE.and SW.
64.00	Spur,projects S.
	Descend.
65.00	Same road,bears NW.and SE.
70.00	Begin abrupt descent over sandstone ledges,bearing N.and S.
71.50	Hollow,100 ft.deep,course S.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Abrupt ascent over sandstoneledges.
73.00	Top of abrupt ascent ,bears N.and S.
	Leave sandstone ledges, over level rocky mesa.
80.10	The cor.of secs.21-22-27 and 28.
	Land,level and mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 70.20 chs.
	March 21, 1910.
	March 22: At 8h.07m.,a.m.,l.m.t.,I set off 39°59'N.on lat.arc,0°29'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.21-22-27 and 28.
	Thence I run
	N.0°02'W.,bet.secs.21 and 22.
	Gradual ascent over rocky mesa.
2.25	Road from Green River to Gate Canyon,bears E.and W.
5.25	Begin abrupt ascent over shale ledges,bearing E.and W.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 21 on W. half and S 22 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
40.60	Top of ridge,bears N.60°W.,and S.60°E., 960 ft.above the sec.cor.
	Leave ledges, begin descent over sparse undergrowth.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.15-16-21 and 22,marked on brass cap T 11 S S 16 in NW.,
	R 17 E S 15 in NE.,
	S 22 in SE.and S 21 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Pits impracticable.
	Land,mountainous,and rolling.
	Soil,rocky,3rd.and 4th.rate on 40.60 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass. Mountainous land on 74.75 chs.
	March 22: At this cor.I set off 0°32'N.on decl.arc,and at 12h.07m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°51'N.
	S.89°54'E.,on a random line,bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,5 lks.S.of the cor,of secs. 14-15-22 and 23.
	Thence I run
	N.89°56'W.,on a true line,
	Bet.secs.15 and 22.
	Ascend abruptly over rocky and mountainous land.
26.00	Ridge,bears NE.and SW.
	Abrupt descent.
34.50	Hollow,300 ft.deep,course NE.
	Abrupt ascent over shale ledges.
40.06	Falls on the steep side of the shale ledges,impossible to set.
43.84	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,marked on brass cap T 11 S R 17 E S 15 on N.half, S 22 on S.half and WC ¼ on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
57.35	Ridge,800 ft.above the sec.cor.,bears N.and S.
	Abrupt descent.
66.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
71.00	Spur,projects N.
	Abrupt descent.
75.25	Hollow,150 ft.deep,course N.
	Abrupt ascent.
78.00	Spur,projects N.
	Abrupt descent.
80.12	The cor.of secs.15-16-21 and 22.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.12 chs.
	N.0°02'W.,bet.secs.15 and 16.
	Abrupt descent over rocky and mountainous land.
2.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
7.90	Spur,projects NE.
	Abrupt descent.
12.25	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
17.50	Ridge,bears NE.and SW.
	Abrupt descent.
29.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼S16 on W. half and S.15 on E.half,and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
40.75	Spur,projects E.
	Descend.
43.00	Hollow,75 ft.deep,course E.
	Ascend.
44.90	Spur,projects E.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Abrupt descent.
57.00	Bottom of Sand Wash hollow,400 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
73.00	Rocky spur,projects SE.
	Abrupt descent.
75.50	Hollow,200 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.9-10-15 and 16,marked on brass cap T 11 S S 9 in NW., R 17 E S 10 in NE., S 15 in SE.and S 16 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	March 22, 1910

	March 23: At 8h.07m.,a.m.,l.m.t.,I set off 39°52'N.on lat.arc,0°52'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.9-10-15 and 16.
	Thence I run
	S.89°56'E.,on a random line,bet.secs.10 and 15.
40.00	Set temporary ¼ sec.cor.
80.10	Intersect N.and S.line, 3 lks.S.of the cor.of secs., 10-11-14 and 15.
	Thence I run
	N.89°57'W.,on a true line,bet.secs.10 and 15.
	Abrupt ascent,along steep south slope over sandstone

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	ledges.
18.25	Ridge,bears NW.and SE.
	Descend.
28.00	Hollow,100 ft.deep,course S.
	Abrupt ascent.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on N. half,S 15 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
43.00	Spur,projects SE.
	Abrupt descent.
56.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
62.00	Rocky spur,projects SE.
	Abrupt descent.
73.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
75.50	Spur,projects S.
	Descend along steep south slope.
80.10	The cor.of secs.9-10-15 and 16.
	Land,mountainous Soil,rocky,3rd.and 4th.rate. No timber. Mountainous land on 80.10 chs.

N.0°02'W.,bet.secs.9 and 10

	Ascend abruptly over rocky and mountainous land,over sandstone ledges.
15.50	Top of divide between Nine Mile Canyon and the Uintah Basin,bears NW.and SE.
	Abrupt descent over broken land.
24.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
26.00	Spur,projects E.
	Abrupt descent.
29.30	Hollow,150 ft.deep,course E.
	Abrupt ascent.
36.50	Ridge,bears E.and W.
	Abrupt descent.
39.10	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on W. half and S 10 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
42.50	Ridge,bears NE.and SW.
	Descend over broken land.
79.50	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.3-4-9 and 10,marked on brass cap
	T 11 S S 4 in NW.,
	R 17 E S 3 in NE.,
	S 10 in SE.and S 9 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs,
	March 23: At this cor.I set off 0°56'N.,on decl.arc, and at 12h.07m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°53'N.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	S.89°57'E.,on a random line,bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,5 lks.S.of the cor.of secs. 2-3-10 and 11.
	Thence I run
	N.89°59'W.,on a true line,
	Bet.secs.3 and 10.
	Ascend over rocky and mountainous land.
14.50	Ridge,bears NE.and SW.
	Ascend.
40.03	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap ¼ S 3 on N. half and S 10 on S.half,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
40.25	Hollow,75 ft.deep,course NE.
	Ascend.
52.00	Ridge,bears NE.and SW.
	Descend.
69.00	Hollow,75 ft.deep,course N.
	Ascend.
77.00	Spur,projects N.
	Descend.
79.75	Hollow,50 ft.deep,course NE.
	Ascend.
80.06	The cor.of secs.3-4-9 and 10.
	Land, mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 80.06 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	N.0°02'W.,on a true line,
	Bet.secs.3 and 4.
	Ascend over rocky and mountainous land.
6.00	Spur,projects NE.
	Descend.
20.25	Hollow,100 ft.deep,course E.
	Ascend.
35.20	Ridge,bears E.and W.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on W. half,and S 3 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
47.00	Hollow,75 ft.deep,course NE.
	Ascend.
51.00	Spur,projects E.
	Descend.
58.00	Hollow,100 ft.deep,course E.
	Ascend.
66.00	Ridge,bears E.and W.
	Descend.
71.00	Hollow,100 ft.deep,course E.
	Ascend.
75.50	Ridge,bears NE.and SW.
	Descend.
79.68	Intersect 2nd.stan.par.south,24.00 chs.west of the stan. cor.of secs.33 and 34,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.3 and 4,marked on brass cap T 10 S R 17 E S 33 S 34 CC on N.half,and S 3 S 4 on S.half,and raise a mound of stone,2 ft.base, 1½ ft.high,S.of cor.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.68 chs.
	March 23,1910.
	March 24: At 8h.07m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc,1°16'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.4-5-32 and 33, heretofore described on the S.bdy.of the Tp.
	Thence I run
	N.0°03'W.,bet.secs.32 and 33.
	Abrupt descent over rocky and mountainous land.
6.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
12.00	Top of abrupt ascent,bears NE.and SW.
	Gradual descent over rocky land.
26.00	Begin abrupt descent over sandstone ledges,bearing NE.a and SW.
36.90	Enter bottom of Nine Mile Canyon, 600 ft.deep,course NE.
37.00	Enter cultivated land,bears SW.,5.00 chs.dist.and NE.,4.00 chs.dist.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 32 on W.half and S 33 on E.half,from which
	A cottonwood,12 ins.diam.,bears N.54°W.,246 lks. dist.,marked ¼ S 32 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
42.75	Leave cultivated land,bears SW.1.00 chs.and NE.6.00 chs.dist.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Enter dense undergrowth.
49.00	Minnie Maud Creek,30 lks.wide,12 ins.deep,course NE.
51.00	Leave bottom of canyon,bears NE.and SW.
	Begin abrupt ascent over sandstone ledges,along steep east slope.
79.60	Top of abrupt ascent,800 ft.above bottom of canyon, bears NE.and SW.
	Over level rocky land.
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,marked on brass cap,T 11 S S 29 in NW.,
	R 17 E S 28 in NE.,
	S 33 in SE.and S 32 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and bottom land.
	Soil,rocky,3rd.and 4th.rate on 65.90 chs.
	balance,loam,1st.rate.
	No timber.
	Undergrowth, sage brush and greasewood brush.
	Mountainous land on 65.90 chs.
	From the ¼ sec.cor.bet.secs.32 and 33, a log cabin, 12x20 ft., bears N.73°W., 7.50 chs.dist.
	This cabin belongs to William A.Miles,who also cultivates the land described in secs.32 and 33.
	East,on a random line,bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,9 lks.N.of the cor.of secs. 27-28-33 and 34.
	Thence I run
	N.89°56'W.,on a true line,
	Bet.secs.28 and 33.
	Abrupt descent along steep south slope over sandstone ledges.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
5.75	Hollow,400 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
10.25	Sandstone spur,projects S.
	Abrupt descent.
37.50	Hollow,300 ft.deep,course S.
	Abrupt ascent.
40.05	Set an iron post,3 ft.long,1 in.dia, 26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 28 on N. and S 33 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
44.75	Sandstone spur,projects SE.
	Abrupt descent along steep south slope over sandstone ledges.
68.00	Hollow,400 ft.deep,course S.
	Abrupt ascent over sandstone ledges,bearing N.and S.
79.50	Top of abrupt ascent,bears N.and S.
	Gradual ascent.
80.10	The cor.of secs.28-29-32 and 33.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.10 chs.
	March 24: At this cor.I set off 1°19'N.on decl.arc,and at 12h.07m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°50'N.

N.0°03'W.,bet.secs.28 and 29.

	Over level rocky mesa.
5.50	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
8.75	Hollow,150 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.

SUBDIVVISIONS OF T.11 S.,R.17 E.

CHAINS	
10.00	Top of abrupt ascent,bears E.and W.
	Ascend.
16.00	Rocky spur,projects SE.
	Abrupt descent.
32.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
40.00	Falls on the steep slope of the solid sandstone, impossible to set.
42.75	Top of perpendicular sandstone ledge,150 ft.high, bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for witness cor.to ¼ sec.cor.,marked on brass cap,T 11 S R 17 E on N.half,
	S 29 on W.half, S.28 on E.half, and WC¼ on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Ascend.
43.00	Top of ascent,begin gradual descent over mesa, through sparse undergrowth.
60.35	Begin abrupt descent along steep west slope over broken sandstone ledges.
76.00	Head of hollow,course SW.
	Abrupt ascent over sandstone ledges.
79.50	Top of abrupt ascent bears E.and W.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.20-21-28 and 29,marked on brass cap T 11 S S 20 in NW.,
	R 17 E S 21 in NE.,
	S 28 in SE.and S 29 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	S.89°56'E.,on a random line,bet.secs.21 and 28.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.04	Intersect N.and S.line,12 lks.S.of the cor.of secs. 21-22-27 and 28.
	Thence I run
	S.89°59'W.,on a true line,
	Bet.secs.21 and 28.
	Over level rocky land.
4.95	Begin abrupt descent over sandstone ledges,bearing N.and S.
8.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
11.00	Top of abrupt ascent,bears N.and S.
	Leave sandstone ledges,over level mesa, through sparse undergrowth.
40.02	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 21 on N. half and S 28 on S.half,and raise a mound of stone,2 ft.base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
40.25	Begin abrupt descent over sandstone ledges,bearing N.and S.
45.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
52.25	Top of abrupt ascent,bears N.and S.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Over level mesa.
80.04	The cor.of secs.20-21-28 and 29.
	Land,level and mountainous.
	Soil,rocky,3rd.and 4th.rate,on 23.00 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 18.05 chs.
	March 24, 1910.

	March 25: At 8h.07m.,a.m.,l.m.t.,I set off 39°50'N., on lat.arc, 1°40'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.20-21-28 and 29.
	Thence I run
	N.0°03'W.,bet.secs.20 and 21.
	Gradual ascent through sparse undergrowth.
5.00	Begin gradual descent.
25.40	Hollow,75 ft.deep,course W.
	Ascend.
32.35	Road from GreenRiver to Gate Canyon,bears NW.and SE.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on W.half,and S 21 on E.half,and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
58.00	Begin abrupt ascent over mountainous land,bears NW. and SE.
75.00	Spur,projects SW.
	Descend.
78.00	Hollow,100 ft.deep,course SW.
	Abrupt ascent over shale ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.16-17-20 and 21,marked on brass

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	cap T 11 S S 17 in NW.,
	R 17 E S 16 in NE.,
	R 21 in SE.,and S 20 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,rolling and mountainous.
	Soil,rocky,3rd.and 4th.rate on 22.00 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	N.89°59'E.,on a random line,bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,6 lks.S.of the cor.of secs. 15-16-21 and 22.
	Thence I run
	S.89°56'W.,on a true line,
	Bet.secs.16 and 21.
	Abrupt descent over rocky and mountainous land,through sparse undergrowth.
1.50	Hollow,100 ft.deep,course NE.
	Ascend.
12.00	Ridge,bears NE.and SW.
	Abrupt descent.
25.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
31.70	Ridge,bears NE.and SW.
	Abrupt descent.
39.00	Hollow,100 ft.deep,course NE.
	Ascend.
40.03	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground for ¼ sec.cor.,marked on brass cap,¼ S 16 on N.half, S 21 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.

BOOK A-372

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Pits impracticable.
51.00	Ridge,bears NW.and SE.
	Abrupt descent over shale ledges.
76.00	Hollow,600 ft.below top of ridge,course SW.
	Abrupt ascent over shale ledges along steep south slope.
80.06	The cor.of secs.16-17-20 and 21.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 80.06 chs.
	March 25: At this cor.I set off 1°43'N.on decl.arc,and at 12h.07m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°51'N.

N.0°03'W.,bet.secs.16 and 17.

	Ascend abruptly over shale ledges.
14.00	Ridge,600 ft.above the sec.cor.,bears NW.and SE.
	Descend.
18.50	Head of hollow,course E.
	Ascend.
25.25	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on W. half and S 16 on E.half,and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
64.50	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
75.60	Spur,projects SE.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.8-9-16 and 17,marked on brass

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	cap,T 11 S S 8 in NW.,
	R 17 E S 9 in NE.,
	S 16 in SE.and S 17 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	N.89°56'E.,on a random line,bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,21 lks.N.of the cor.of secs. 9-10-15 and 16.
	Thence I run
	N.89°55'W.,on a true line,
	Bet.secs.9 and 16.
	Abrupt descent along steep south slope,over broken sandstone ledges.
5.50	Hollow,100 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
19.80	Ridge,bears NW.and SE.
	Abrupt descent.
35.25	Sand Wash hollow,300 ft.deep,course SE.
	Abrupt ascent.
38.50	Spur,projects N.
	Abrupt descent.
40.02	Set an iron post,3 ft.long,1 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,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
40.25	Sand Wash hollow,250 ft.deep,course NE.
	Abrupt ascent.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
48.30	Spur,projects S.
	Abrupt descent.
51.80	Sand Wash hollow, 250 ft.deep,course SE.
	Abrupt ascent.
59.45	Spur,projects N.
	Abrupt descent.
63.00	Sand Wash,hollow,.250 ft.deep,course NE.
	Abrupt ascent.
66.00	Spur,projects S.
	Descend.
68.00	Hollow,75.ft.deep,course S.
	Ascend.
72.00	Spur,projects.S.
	Abrupt descent.
76.00	Sand Wash hollow,200 ft.deep,course SE.
	Abrupt ascent.
80.04	The cor.of secs.8-9-16 and.17.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.04 chs.
	March 25, 1910

March 26: At 8h.06m.,a.m.,l.m.t.,I set off 39°52'N.on lat.arc,2°03'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.8-9-16 and 17. Thence I run

N.0°03'W.,bet.secs.8 and 9.

	Abrupt descent over rocky and mountainous land.
3.50	Hollow,150 ft.deep,course E.
	Abrupt ascent.
7.00	Spur,projects E.
	Abrupt descent.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
9.75	Sand Wash hollow,200 ft.deep,course SE.
	Abrupt ascent.
13.00	Spur,projects SW.
	Abrupt descent.
16.00	Bend in Sand Wash hollow,200 ft.deep,course from NW. to SW.
	Abrupt ascent.
29.15	Top of abrupt ascent,bears NW.and SE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 8 on W. half and S 9 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
45.00	Divide between Nine Mile Canyon and Uintah Basin,bears NW.and SE. Descend.
67.00	Hollow,100 ft.deep,course NE.
	Ascend.
74.00	Spur,projects NE.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.4-5-8.and 9,marked on brass cap T 11 S S 5 in NW., R 17 E S 4 in NE., S 9 in SE.and S 8 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	S.89°55'E.,on a random line,bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,7 lks.S.of the cor.of secs. 3-4-9 and 10.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.4 and 9.
	Ascend over rocky and mountainous land.
4.00	Ridge,bears NE.and SW.
	Descend.
19.00	Hollow,100 ft.deep,course NE.
	Ascend.
30.50	Spur,projects NE.
	Descend.
34.00	Hollow,50 ft.deep,course NE.
	Ascend.
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on N. half and S 9 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
55.00	Spur,projects NE.
	Descend.
58.00	Hollow,50 ft.deep,course NE.
	Ascend.
69.20	Spur,projects NE.
	Descend.
77.50	Hollow,75 ft.deep,course N.
	Ascend.
80.02	The cor.of secs.4-5-8 and 9.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Mountainous land on 80.02 chs.
	March 26: At this cor.I set off 2°06'N.on decl.arc,and at 12h.06m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°53'N.
	N.0°03'W.,on a true line,
	Bet.secs.4 and 5.
	Descend over rocky and mountainous land.
4.50	Hollow,150 ft.deep,course E.
	Ascend.
9.50	Spur,projects E.
	Descend.
12.00	Hollow,50 ft.deep,course E.
	Ascend.
19.25	Spur,projects SE.
	Descend.
23.00	Hollow,100 ft.deep,course E.
	Ascend.
31.20	Ridge,bears NW.and SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 5 on W. half and S 4 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
51.00	Hollow,150 ft.deep,course NW.
	Abrupt ascent.
59.00	Ridge,bears NW.and SE.
	Abrupt descent.
70.50	Hollow,100 ft.deep,course NW.
	Ascend.
75.50	Spur,projects NW.
	Descend.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
79.60	Intersect 2nd.stan.parallel south,24.01 chs.west of the stan.cor.of secs.32 and 33.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.4 and 5,marked on brass cap T 10 S S 32 S 33 CC on N.half, and S 4 S 5 on S.half,and raise a mound of stone,2 ft.base, 1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.60 chs.
	March 26, 1910

	March 27: At 8h.06m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc,2°27'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-31 and 32,heretofore described on the S.bdy.of the Tp..
	Thence I run
	N.0°03'W.,bet.secs.31 and 32.
	Descend over rocky and mountainous land.
19.62	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
	From this point the rock house of Mrs.W.A.Miles,bears N.61°30'W.
40.00	In bottom of hollow,600 ft.below sec.cor.,course NE.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 31 on W. half and S 32 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Ascend.
41.00	Spur,projects NE.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Abrupt descent.
41.75	Minnie Maud Creek,25 lks.wide,18 ins.deep,in bottom of Nine Mile Canyon,600 ft.deep,course E.
	Over bottom land,through dense undergrowth.
43.00	Enter cultivated land,bears E.and W.
44.25	Leave cultivated land,bearing NW.and SE.
	This land is cultivated by Mrs.W.A.Miles.
46.50	Canyon road,bears E.and W.
48.25	Leave bottom of canyon,begin abrupt ascent over sandstone ledges,bearing E.and W.
53.00	Top of abrupt ascent,bears E.and W.
	Leave sandstone ledges, over level rocky land.
70.60	Begin abrupt descent over sandstone ledges,bearing E. and W.
72.50	Hollow,75 ft.deep,course E.
	Abrupt ascent.
77.70	Spur,projects E.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.29-30-31 and 32,marked on brass cap,T 11 S S 30 in NW.,
	R 17 E S 29 in NE.,
	S 32 in SE.and S 31 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post,over 12 ins.in the ground
	Land,mountainous,level and bottom land.
	Soil,rocky,3rd.and 4th.rate on 73.50 chs.
	balance,bottom land,1st.rate.
	No timber.
	Undergrowth, greasewood and sage brush.
	Mountainous land on 73.50 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	East,on a random line,bet.secs.29 and 32.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect N.and S.line,19 lks.N.of the cor.of secs. 28-29-32 and 33.
	Thence I run
	N.89°52'W.,on a true line,
	Bet.secs.29 and 32.
	Ascend over rocky and mountainous land.
5.25	Spur,projects S.
	Descend.
9.00	Begin abrupt descent over sandstone ledges,bearing N. and S.
18.75	Bottom of Bull Hollow,500 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
40.05	Spur,projects S.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 29 on N. half and S 32 on S.half,and raise a mound of stone,2 ft base,1$\frac{1}{2}$ ft. high,N.of cor.
	Pits impracticable.
	Abrupt descent.
54.50	Hollow,250 ft.deep,course SE.
	Abrupt as cent.
67.75	Spur,projects S.
	Abrupt descent.
76.50	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
80.10	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.10 chs.
	March 27: At this cor.I set off 2°30'N.on decl.arc,and at 12h. 06m., p. m., l. m. t.,

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	observe the sun on the meridian,the resulting lat.is 39°50'N.
	West,on a random line,bet.secs.30 and 31.
40.00	Set temp.¼ sec.cor.
77.52	Intersect W.bdy.of Tp.,12 lks.N.of the cor.of secs. 25-30-31 and 36,heretofore described.
	Thence I run
	N.89°55'E.,on a true line,
	Bet.secs.30 and 31.
	Abrupt ascent over sandstone ledges.
3.00	Top of abrupt ascent,bears NW.and SE.
	Over level rocky land.
22.00	Begin abrupt descent over sandstone ledges,bearing N.and S.
26.00	Mack's Canyon,300 ft.deep,course S.
	Abrupt ascent.
37.52	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 30 on N.half and S 31 on S.half,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 15 ins.in the ground.
44.50	Ridge,bears N.and S.
	Abrupt descent.
77.52	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 77.52 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	N.0°03'W.,bet.secs.29 and 30.
	Descend over rocky and mountainous land.
0.60	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
31.00	Top of perpendicular ledge,100 ft.high,bears NE.and SW.
	Begin gradual descent over rolling mesa,through sparse undergrowth.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 30 on W. half and S 29 on E.half,and raise a mound of stone,2 ft base,1½ ft.high,W.of cor.
	Pits impracticable.
55.00	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
57.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
58.25	Top of abrupt ascent,bears E.and W.
	Gradual descent.
63.80	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
77.25	Hollow,300 ft.deep,course SE.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.19-20-29 and 30,marked on brass cap,T 11 S S 19 in NW.,
	R 17 E S 20 in NE.,
	S 29 in SE.and S 30 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft. high,W.of cor.
	Pits impracticable.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate on 56.00 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Mountainous land on 80.00 chs.
	March 27, 1910
	March 28: At 8h.05m.,a.m.,l.m.t.,I set off 39°50'N.on lat.arc, 2°50'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.19-20-29 and 30.
	Thence I run
	S.89°52'E.,on a random line,bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line,12 lks.S.of the cor.of secs. 20-21-28 and 29.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.20 and 29.
	Over level mesa,through sparse undergrowth.
18.00	Begin abrupt descent over sandstone ledges,bearing N. and S.
24.90	Hollow,400 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
33.25	Top of abrupt ascent,bears N.and S.
	Leave ledges, over level mesa.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on N. half and S 29 on S.half,dig pits,18x18x12 ins.,E.and W. of post,3 ft.dist.,and raise a mound of earth,3½ ft. base,1½ ft.high,N.of cor.
57.90	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
64.00	Bottom of Bull hollow,400 ft.deep,course SE.
	Ascend.
73.00	Spur,projects SE.
	Descend along south slope.
80.08	The cor.of secs.19-20-29 and 30.
	Land,level and mountainous.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS

Soil,rocky,3rd.and 4th.rate on 42.73 chs.

balance,sandy loam,2nd.rate.

No timber.

Undergrowth, sage brush and bunch grass.

Mountainous land on 42.73 chs.

S.89°55'W.,on a random line,bet.secs.19 and 30.

40.00 Set temp.¼ sec.cor.

77.43 Intersect W.bdy.of Tp.,9 lks.S.of the cor.of secs. 19-24-25 and 30,heretofore described.

Thence I run

N.89°59'E.,on a true line,

Bet.secs.19 and 30.

Over rolling mesa,through sparse undergrowth.

37.43 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on N. half and S 30 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.

Pits impracticable.

66,00 Begin abrupt descent over sandstone ledges,bearing NW.and SE.

76.00 Hollow,300 ft.deep,course SE.

Ascend.

77.43 The cor.of secs.19-20-29 and 30.

Land,rolling and mountainous.

Soil,sandy loam,2nd.rate on 66.00 chs.

balance,rocky,3rd.and 4th.rate.

No timber.

Undergrowth,sage brush and bunch grass.

Mountainous land on 77.43 chs.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	N.0°03'W.,bet.secs.19 and 20.
	Abrupt ascent over rocky and mountainous land.
7.50	Rocky spur,projects SE.
	Abrupt descent.
19.00	Hollow,300 ft.deep,course SE.
	Abrupt ascent.
23.00	Rocky spur,projects SE.
	Abrupt descent.
29.00	Bull Hollow,300 ft.deep,course SE.
	Abrupt ascent.
35.00	Top of abrupt ascent bears NW.and SE.
	Leave rocky land, begin gradual ascent through sparse undergrowth.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on W. half and S 20 on E.half,and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
55.35	Road from Green River to Gate Canyon,bears E.and W.
67.48	Spur,projects E.
	Descend along east slope.
79.25	Hollow,50 ft.deep,course E.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.17-18-19 and 20,marked on brass cap T 11 S S 18 in NW.,
	R 17 E S 17 in NE.,
	S 20 in SE.and S 19 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate on 57.52 chs.
	balance, sandy loam, 2nd.rate.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	No timber.
	Mountainous land on 57.52 chs.
	March 28: At this cor.I set off 2°53'N.on decl.arc,and at 12h.05m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°51'N.
	S.89°57'E.,on a random line,bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,12 lks.N.of the cor.of secs. 16-17-20 and 21.
	Thence I run
	N.89°52'W.,on a true line,
	Bet.secs.17 and 20.
	Ascend along steep south slope over shale ledges.
0.50	Spur,projects S.
	Abrupt descent.
1.25	Hollow,100 ft.deep,course S.
	Abrupt ascent.
3.75	Spur,projects S.
	Abrupt descent.
6.50	Hollow,100 ft.deep,course S.
	Abrupt ascent.
10.25	Spur,projects S.
	Abrupt descent.
27.00	Hollow,100 ft.deep,course S.
	Abrupt ascent.
34.00	Spur,projects S.
	Abrupt descent.
36.50	Hollow,75 ft.deep,course S.
	Abrupt ascent.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on N. half and S 20 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Pits impracticable.
41.50	Spur,projects S.
	Abrupt descent.
48.00	Hollow,100 ft.deep,course S.
	Ascend.
72.00	Spur,projects S.
	Descend.
79.00	Hollow,100 ft.deep,course S.
	Ascend.
80.10	The cor.of secs.17-18-19 and 20.
	Land,mountainous.
	S oil, rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.10 chs.
	S.89°59'W.,on a random line,bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
77.30	Intersect W.bdy.of Tp.,16 lks.S.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°54'E.,on a true line,
	Bet.secs.18 and 19.
	Ascend over rocky and mountainous land.
2.00	Spur,projects SE.
	Descend.
4.75	Hollow,100 ft.deep,course SE.
	Ascend.
13.00	Spur,projects SE.
	Descend.
37.36	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 18 on N. half and S.19 on S.half, and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Pits impracticable.
42.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
49.00	Spur,projects S.
	Descend.
55.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
69.00	Ridge,bears NE.and SW.
	Abrupt descent.
77.36	The cor.of secs.17-18-19 and 20.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 77.36 chs.
	March 28, 1910
	March 29: At 8h.05m.,a.m.,l.m.t.,I set off 39°51'N.,on lat.arc,3°13'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.17-18-19 and 20. Thence I run
	N.0°03'W.,bet.secs.17 and 18.
	Ascend abruptly over rocky and mountainous land.
27.30	Ridge,bears NE.and SW.
	Abrupt descent.
33.00	Hollow,100 ft.deep,course SW.
	Abrupt ascent.
34.95	Spur,projects SW.
	Abrupt descent.
40.00	Hollow,150 ft.deep,course SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ s ec.cor.,marked on brass cap,¼ S 18 on W. half and S 17 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Abrupt ascent.
43.00	Spur,projects SW.
	Abrupt descent.
46.00	Hollow,150 ft.deep,course SW.
	Abrupt ascent over shale ledges.
65.60	Top of abrupt ascent and shale ledges, 875 ft.above the sec.cor.,bear NW.and SE.
	Ascend.
71.90	Ridge,bears NW.and SE.
	Descend.
79.00	Hollow,75 ft.deep,course E.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.7-8-17 and 18,marked on brass cap,T 11 S S 7 in NW., R 17 E S 8 in NE., S 17 in SE.and S 18 in SW.quadrant, 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.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate on 65.60 chs. balance, sandy loam, 2nd.rate.
	No timber.
	Mountainous land on 80.00 chs.
	March 29: At this cor.I set off 3°17'N.on decl.arc,and at 12h.05m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°52'N.
	S.89°52'E.,on a random line,bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.14	Intersect N.and S.line,14 lks.S.of the cor.of secs. 8-9-16 and 17.
	Thence I run N.89°58'W.,on a true line,

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
	Bet.secs.8 and 17.
	Ascend over rocky and mountainous land,along north slope,through sparse undergrowth.
40.07	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 8 on N. half and S 17 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
63.00	Spur,projects NE.
	Descend.
72.00	Hollow,75 ft.deep,course NE.
	Ascend.
80.14	The cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 80.14 chs.
	N.89°54'W.,on a random line,bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
77.31	Intersect W.bdy.of Tp.,5 lks.S.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°52'E.,on a true line,
	Bet.secs.7 and 18.
	Ascend along north slope over mountainous land,through scattering and sparse undergrowth.
37.31	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 7 on N. half and S 18 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
42.00	Divide between Nine Mile Canyon and the Uintah Basin, bears NE.and SW.
	Abrupt descent over sandstone ledges,along steep south slope.
54.00	Hollow,200 ft.below top of ridge,course SE.
	Abrupt ascent.
62.00	Ridge,bears NW.and SE.
	Descend.
77.31	The cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate on 20.00 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Mountainous land on 77.31 chs.
	March 29, 1910.
	March 30: At 8h.05m.,a.m.,l.m.t.,I set off 39°52', on lat.arc,3°37'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.7-8-17 and 18,
	Thence I run
	N.0°03'W.,bet.secs.7 and 8.
	Ascend over mountainous land,through sparse undergrowth.
3.00	Spur,projects E.
	Descend.
15.00	Hollow,75 ft.deep,course E.
	Ascend.
36.00	Ridge,bears E.and W.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 7 on W. half and S 8 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
45.00	Hollow,75 ft.deep,course E.
	Ascend.
63.55	Divide between Nine Mile Canyon and the Uintah Basin, bears NE.and SW.
	Abrupt descent.
66.00	Head of hollow,course NW.
	Abrupt ascent.
70.00	Spur,projects W.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.5-6-7 and 8,marked on brass cap
	T 11 S S 6 in NW.,
	R 17 E S 5 in NE.,
	S 8 in SE.and S 7 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 80.00 chs.
	S.89°58'E.,on a random line,bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,12 lks.S.of the cor.of secs. 4-5-8 and 9.
	Thence I run
	S.89°57'W.,on a true line,
	Bet.secs.5 and 8.
	Abrupt ascent over rocky land,through sparse undergrowth.
12.50	Spur,projects N.
	Descend.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
21.00	Hollow,100 ft.deep,course NE.
	Ascend.
40.06	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 5 on N. half and S 8 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
47.50	Ridge,bears NE.and SW.
	Abrupt descent.
80.12	The cor.of secs.5-6-7 and 8.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 80.12 chs.
	March 30: At this cor.I set off 3°40'N.,on decl.arc, and at 12h.05m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°53'N.
	N.89°52'W.,on a random line,bet.secs.6 and 7.
40.00	Set temp.¼ sec.cor.
77.28	Intersect W.bdy.of Tp.,7 lks.S.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	S.89°49'E.,on a true line,
	Bet.secs.6 and 7.
	Descend over rocky and mountainous land,through sparse undergrowth.
37.28	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 6 on N. half, S 7 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS	
41.25	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
49.00	Spur,projects N.
	Descend.
64.00	Hollow,100 ft.deep,course N.
	Ascend.
77.28	The cor.of secs.5-6-7 and 8.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 77.28 chs.
	N.0°03'W.,on a true line,
	Bet.secs.5 and 6.
	Descend over rocky and mountainous land,through sparse undergrowth.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 6 on W. half,S 5 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
46.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
69.00	Spur,projects E.
	Descend.
71.50	Hollow,100 ft.deep,course E.
	Abrupt ascent.
77.00	Ridge,bears E.and W.
	Abrupt descent.
79.56	Intersect 2nd.stan.Par.South, 24.08 chs.west of the stan.cor.of secs.31 and 32,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the

SUBDIVISIONS OF T.11 S.,R.17 E.

CHAINS

ground,for closing cor.of secs.5 and 6,marked on brass cap,T 10 S R 17 E S 31 S 32 CC on N.half,and S 5 S 6 on S.half,and raise a mound of stone,2 ft.base, 1½ ft.high,S.of cor.

Pits impracticable.

Land,mountainous.

Soil,rocky,3rd.rate.

No timber.

Undergrowth, sage brush and bunch grass.

Mountainous land on 79.56 chs.

March 30, 1910

G E N E R A L D E S C R I P T I O N .

This township is located on the north and south slopes of the ridge dividing the Uintah Basin and Nine Mile Canyon,which runs through the northern half of the township in an easterly and westerly direction.

On the northern slope of this ridge,the country is mountainous, the soil is a sandy loam and is covered with a sparse growth of sage brush and bunch grass making it an excellent summer range for stock.

This above mentioned ridge is 2000 feet higher in elevation than the bottom of Nine Mile Canyon which runs through the southern portion of the township in an easterly direction, and the land drops abruptly from the top of the ridge, over shale ledges ,a drop of about 900 ft.in the first ½ mile, thence over a mesa with a gradual slope to the north for nearly a mile to another drop of about 500 ft. to a mesa with a gradual slope to the north,averaging about ½ mile in width, from this mesa, the drop is about 600 ft.to the bottom of Nine Mile Canyon.

The same condition exists on the south side of the

GENERAL DESCRIPTION OF T.11 S.,R.17 E.

canyon, the rise being about 600 ft.to the first rim of a mesa, and about 500 ft.to the second mesa. These mesas all slope to the north and are generally a sandy loam of no great depth and support a sparse growth of sage brush and bunch grass.

On both sides of the canyon the mesas are cut by many deep gorges through the solid sandstone ,all of which drain into the canyon with the exception of Sand Wash hollow,which leaves the township near the middle of the east boundary and drains into Green River.

The only timber in the township is a scattering growth of cottonwoods in the bottom of Nine Mile Canyon.

The only water in the township is in Minnie Maud Creek which runs in the bottom of Nine Mile Canyon, this is a stream of pure water and is used to irrigate lands in secs.31 and 32.

The only agricultural land in this township is in the bottom of Nine Mile Canyon, the soil is a rich loam, and is capable of producing abundant crops with irrigation.

There are two settlers in this township, viz:

William A.Miles,in the N.½ of secs.32 and 33,

Acres of land under cultivation,6

Value of improvements, $600.00

Mrs.W.A.Miles, in sec.31.

Acres of land under cultivation 75

Value of improvements $3000.00

Edwin C.Lee, Desert Entry No.5092, dated Oct.11,1906 is now owned by Mrs.W.A.Miles.

There are no indications of mineral or coal found in this township.

Harry C. Flint
U.S.Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

_____

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "W", *Chainman.*

T. 12 S., R. 17 E., *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____

_____

_____ of the _____

_____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

Subscribed and sworn to before me this _____ day of _____, 190

SEAL

_____

_____

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of deputy see book "W" T. 12 S., R. 17 E.

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

..... meridian, in the ..... of ....., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....

United States Deputy Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 190

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 21, 1911 190X

The foregoing field notes of the survey of the Subdivisional lines of Township No. 11 South, Range No. 17 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Walter A. Sturm under his contract No. 312, dated March 27, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

United States Surveyor General.

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

.....

United States Surveyor General.

4-101

Blank

Page

Blank

Page

L.S.B.
M.S.B.

117

4—679.

"J"

BOOK A-372

FILED
DEC 15 1910

FIELD NOTES

M.S.B.

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO.11 SOUTH, RANGE NO.18 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D.Heist,and Walter A.Stumm, *United States Deputy Surveyor,s*

Under ~~his~~ their Contract No. 312, *dated* March 27, *1909*

Survey commenced March 31, *1910*

Survey completed April 15, *1910*

6—151

40-05-44 Closing 1-16-36

16-68-31 Meanders

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Lionel Babcock,	Chainman
Jack Barker,	"
Floyd Hume,	Moundman
Will Carlisle,	"
Will Light,	Axman
George Walkup,	Flagman

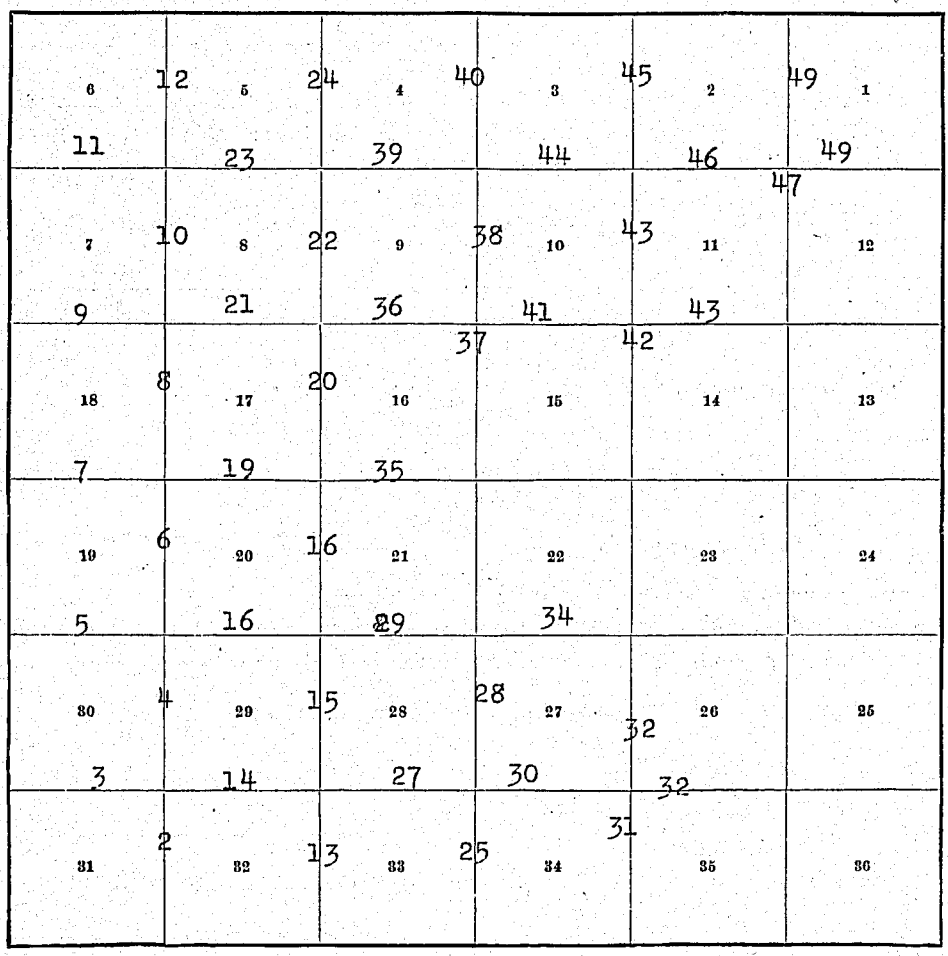
For preliminary affidavits see book "S" T. 11 S., R. 17 E.

C—161

BOOK A-372

INDEX DIAGRAM.

Township 11 South, , *Range* 18 East,



*Meanders Page*s ~~50,51,~~52,53,54,55,56,57 and 58.

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

.....

..... *Chainman.*

..... *Chainman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

.....

..... *Moundman.*

..... *Moundman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

.....

..... *Axman.*

..... *Axman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

..... *Flagman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

SUBDIVISIONS OF. T.11 S.,R.18 E.

CHAINS

Survey commenced,March 31, 1910, and executed with the instrument described in book "A",of this survey.

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.5-6-31 and 32,heretofore described on the S.bdy.of the Tp.,in approximate latitude,39°49'N. longitude 109°58'W.,I set off 39°49'N.,on lat.arc,4°08' N.on decl.arc,and at 4h.04m.,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.

At 6h.53m.,p'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 peg, driven in the ground,5 chs.N.of my station.

March 31, 1910

April 1: At 7h.30m.,a.m.,I lay off the azimuth of Polaris,1°32'to the east, and mark the meridian thus determined by cutting a small groove in the stone set last evening,on which the meridian falls 0.2 ins.east of the mark determined by the solar.

At 8h.04m.,a.m.,l.m.t.,I set off 39°49'N.,on lat.arc, 4°23'N.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.2 ins.east 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" west and east of the meridian established by the Polaris observations;therefore,I conclude that the adjustments

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h.30m. a.m.is N.16°10'W.,the angle thus determined gives the mag.decl. 16°10'E.
	From the sec.cor.already described,I run N.0°01'E.,bet.secs.31 and 32.
	Descend over rocky and mountainous land.
1.50	Hollow,100 ft.deep,course NE.
	Ascend.
10.00	Spur,projects NE.
	Descend.
19.65	Hollow,75 ft.deep,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 31 on W. half ,S 32 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
52.40	Ridge,bears NE.and SW.
	Abrupt descent over sandstone ledges.
76.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.29-30-31 and 32,marked on brass cap T 11 S S 30 in NW., R 18 E S 29 in NE., S 32 in SE.and S 31 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	West,on a random line,bet.secs.30 and 31.
40.00	Set temp.¼ sec.cor.
80.04	Intersect W.bdy.of Tp.,3 lks.S.of the cor.of secs. 25-30-31 and 36,heretofore described.
	Thence I run
	S.89°59'E.,on a true line,
	Bet.secs.30 and 31.
	Descend abruptly over rocky and mountainous land,
12.50	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
26.00	Spur,projects N.
	Abrupt descent.
39.00	Hollow,125 ft.deep,course NE.
	Ascend.
40.02	On spur,projects N.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 30 on N. half ,S 31 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
	Abrupt descent.
41.25	Hollow,125 ft.deep,course NW.
	Abrupt ascent.
50.00	Spur,projects N.
	Abrupt descent.
64.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
77.00	Ridge,bears NE.and SW.
	Abrupt descent over sandstone ledges.
80.04	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.04 chs.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	April 1: At this cor.I set off 4°26'N.on decl.arc,and at 12h.04m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°50'N.
	N.0°01'E.,bet.secs.29 and 30.
	Ascend abruptly over sandstone ledges.
3.50	Sandstone spur,projects NE.
	Descend abruptly over sandstone ledges.
11.00	Enter bottom of Nine Mile Canyon, 500 ft.deep,course E.
	Enter dense undergrowth.
14.75	Minnie Maud Creek,20 lks.wide,24 ins.deep,course E.
19.00	Leave bottom of canyon,begin abrupt ascent over sandstone ledges.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 30 on W. half,S 29 on E.half, and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
51.10	Top of perpendicular sandstone ledge,100 ft.high, bears NW.and SE.
	Leave sandstone ledges, begin gradual descent over rolling mesa,through sparse undergrowth.
52.75	Road from Green River to Gate Canyon,bears NW.and SE.
74.00	Begin abrupt descent over broken sandstone ledges, bearing E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.19-20-29 and 30,marked on brass cap,T 11 S S 19 in NW.,
	R 18 E S 20 in NE.,
	S 29 in SE.and S 30 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	set this post over 12 ins.in the ground.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate. on 57.10 chs.
	balance,sandy loam, 2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 57.10 chs.
	N.89°59'W.,on a random line,bet.secs.19 and 30.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,9 lks.N.of the cor.of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	N.89°57'E.,on a true line,
	Bet.secs.19 and 30.
	Abrupt ascent over shale ledges.
7.38	To of perpendicular sandstone ledges,100 ft.high, bears NW.and SE.
	Over level mesa,through sparse undergrowth.
7.80	Road from Green River to Gate Canyon,bears NW.and SE.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap, ¼ S 19 on N. half,S 30 on S.half, and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
45.70	Begin abrupt descent over sandstone ledges,bearing NW. and SE.
49.75	Head of hollow,course N.
	Abrupt ascent over sandstone ledges.
54.00	Top of abrupt ascent,bears NE.and SW.
	Leave sandstone ledges, over level mesa.
74.56	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
79.98	The cor.of secs.19-20-29 and 30,in hollow,50 ft.deep,

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	course N.
	Land,mountainous and level.
	Soil,rocky, 4th.rate on 22.50 chs.
	April 1,1910.

	April 2: At 8h.04m.,a.m.,l.m.t.,I set off 39°50'N.on lat. arc,4°46'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.19-20-29 and 30.
	Thence I run
	N.0°01'E.,bet.secs.19 and 20.
	Descend abruptly over rocky and mountainous land.
6.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
14.00	Spur,projects NE.
	Abrupt descent.
28.00	Bottom of Sand Wash hollow,300 ft.deep,course E.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on W. half,S 20 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
40.75	Spur,projects SE.
	Abrupt descent.
44.00	Hollow,75 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
50.26	Top of perpendicular sandstone ledges,75 ft.high, bearing NW.and SE.
	Ascend over rocky and mountainous land.
61.20	Spur,projects SE.
	Descend.
71.00	Hollow,75 ft.deep,course E.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	ground,for cor.of secs.17-18-19 and 20,marked on brass cap,T 11 S S 18 in NW., R 18 E S 17 in NE., S 20 in SE.and S 19 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	S.89°57'W.,on a random line,bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
79.96	Intersect W.bdy.of Tp.,1/31ks.S.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°57'E.,on a true line,
	Bet.secs.18 and 19.
	Ascend over rocky land,along south slope over mountainous land.
39.98	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 18 on N. half,S 19 on S.half,and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
	Pits impracticable.
46.25	Ridge,bears NW.and SE.
	Descent along south slope.
79.96	The cor.of secs.17-18-19 and 20.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.96 chs.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	N.0°00'E.,bet.secs.17 and 18.
	Ascend over rocky and mountainous land, through sparse undergrowth.
22.15	Spur, projects SE.
	Abrupt descent.
35.00	Hollow, 100 ft.deep, course SE.
	Abrupt ascent.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for ¼ sec.cor., marked on brass cap, ¼ S 18 on W. half and S 17 on E.half, and raise a mound of stone, 2 ft.base, 1½ ft.high, W.of cor.
	Pits impracticable.
51.00	Ridge, bears E.and W.
	Abrupt descent over sandstone ledges.
63.00	Hollow, 150 ft.deep, course NE.
	Abrupt ascent over sandstone ledges.
67.00	Sandstone spur, projects NE.
	Abrupt descent.
70.00	Hollow, 200 ft.deep, course NE.
	Abrupt ascent along steep east slope over sandstone ledges.
75.00	Sandstone spur, projects NE.
	Descend along steep east slope over solid sandstone.
80.00	Point for cor.falls on the solid sandstone, impossible to set. I witness this cor. at a point 3.90 chs., north .of this point on top of a sandstone point projecting east, I set an iron post, 3 ft.long, 2 ins.dia., in mound of stone and earth, for witness cor. of secs.7-8-17 and 18, marked on brass cap T.11 S S 7 in NW., R 18 E S 8 in NE., S 17 in SE. and S 18 in SW.quadrant, with WC on S.half, and raise a mound of stone, 2 ft.base, 1½ ft.high, W.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth, sage brush and shad scale.
	Mountainous land on 80.00 chs.
	April 2:.At this cor.I set off 4°50'N.on decl.arc,and at 12h.04m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°52'N.
	N.89°57'W.,on a random line,bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
79.90	Intersect.W.bdy.of Tp.,5 lks.N.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°59'E.,on a true line,
	Bet.secs.7 and 18.
	Ascend over mountainous land,along north slope,through sparse undergrowth.
14.00	Spur,projects NE.
	Descend.
39.95	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 7 on N. half and S 18 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
40.60	Hollow,50 ft.deep,course NE.
	Ascend.
57.50	Ridge,bears NE.and SW.
	Abrupt descent.
76.00	Begin abrupt descent over sandstone ledges,bearing N. and S.
79.90	To point for cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	No timber.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 79.90 chs.

	From the point for the cor.of secs.7-8-17 and 18, I run N.0°01'E.,bet.secs.7 and 8.
	Descend along steep east slope over solid sandstone ledges.
3.90	The witness cor.to cor.of secs.7-8-17 and 18,heretofore described.
4.25	Hollow,200 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
15.00	Ridge,bears NE.and SW.
	Leave sandstone ledges, descend,through sparse undergrowth.
38.00	Hollow,50 ft.deep,course NW.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 7 on W. half and S.8 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
40.70	Spur,projects NW.
	Descend.
53.00	Same hollow,75 ft.deep,course NE.
	Ascend.
58.50	Ridge,bears NE.and SW.
	Descend.
74.00	Hollow,75 ft.deep,course NE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.5-6-7 and 8,marked on brass cap T 11 S S 6 in NW.,

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	R 18 E S 5 in NE.;
	S 8 in SE.and S 7 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 80.00 chs.
	April 2, 1910.
	April 3: At 8h.04m.,a.m.,l.m.t.,I set off 39°53'N.on lat.arc,5°09'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-7 and 8.
	Thence I run
	N.89°59'W.,on a random line,bet.secs.6 and 7.
40.00	Set temp.¼ sec.cor.
79.98	Intersect W.bdy.of Tp.,5 lks.S.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	S.89°57'E.,on a true line,
	Bet.secs.6 and 7.
	Ascend over rocky and mountainous land.
1.00	Ridge,bears NW.and SE.
	Descend.
8.75	Hollow,75 ft.deep,course N.
	Ascend.
18.00	Ridge,bears NE.and SW.
	Descend.
31.00	Hollow,75 ft.deep,course NE.
	Ascend.
36.50	Spur,projects N.
	Descend.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 6 on N. half,S 7 on S.half,and raise a mound of stone,2 ft.base 1½ ft.high,N.of cor.
	Pits impracticable.
42.00	Hollow,50 ft.deep,course N.
	Ascend.
47.00	Ridge,bears N.and S.
	Descend.
55.00	Hollow,50 ft.deep,course N.
	Abrupt ascent .
71.00	Ridge,bears NE. and SW.
	Descend.
79.98	The cor.of secs.5-6-7 and 8.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.98 chs.
	N.0°01'E.,on a true line,
	Bet.secs.5 and 6.
	Ascend over rocky land.
13.65	Ridge,bears NE.and SW.
	Ascend.
38.00	Head of hollow,course NW.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 6 on W. half,and S 5 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
41.00	Spur,projects SW.
	Descend.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
52.00	Hollow,75 ft.deep,course NE.
	Ascend.
63.75	Ridge,bears NE.and SW.
	Descend.
78.00	Hollow,75 ft.deep,course NE. Ascend.
79.97	Intersect 2nd.Stan.Par.South,23.99 chs.west of the stan.cor.of secs.31 and 32,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground for closing cor.of secs.5 and 6,marked on brass cap,T 10 S R 18 E S 31 S 32 CC on N.half,and S 5 S 6 on S.half,and raise a mound of stone,2 ft.base, 1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.97 chs.
	April 3: At this cor.I set off 5°13'N.on decl.arc,and at 12h.04m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°54'N.
	April 4: At 8h.03m.,a.m.,l.m.t.,I set off 39°49'N.on lat. arc,5°32'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.4-5-32 and 33,heretofore described.,on S.bdy.of Tp.
	Thence I run
	N.0°01'E.,bet.secs.32 and 33.
	Ascend over rocky and mountainous land,along steep east slope.
9.00	Top of abrupt ascent,bears NE.and SW.
	Over level rocky land.
16.50	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
29.75	Enter bottom of Nine Mile Canyon,400 ft.deep,course E.
	Enter dense undergrowth.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
35.75	Minnie Maud Creek,20 lks.wide,18 ins.deep,course E.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 32 on W. half,S 33 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
43.50	Leave bottom of canyon,.begin abrupt ascent over sandstone ledges,bearing NW.and SE.
59.50	Rocky spur, 400 ft.above the canyon,projects SW.
	Descend along steep,rocky west slope.
79.00	Hollow,150 ft.deep,course SW.
	Abrupt ascent.
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,marked on brass cap T 11 S S 29 in NW.,
	R 18 E S 28 in NE.,
	S 33 in SE.and S 32 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and bottom land.
	Soil,rocky,3rd.and 4th.rate on 66.25 chs.
	balance, loam,1st.rate.
	No timber.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land on 72.50 chs.
	April 4: At this cor.I set off 5°36'N.on decl.arc,and at 12h.03m,,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°50'N.
	West, on a random line,bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line,3 lks.S.of the cor.of secs. 29-30-31 and 32.
	Thence I run

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	S.89°59'E.,on a true line,
	Bet.secs.29 and 32.
	Abrupt descent over sandstone ledges.
1.25	Hollow,150 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
5.00	Spur,projects NE.
	Abrupt descent.
33.00	Enter bottom of Nine Mile Canyon,400 ft.deep,course SE.
	Enter dense undergrowth.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 29 on N. half,S 32 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
51.25	Minnie Maud Creek,25 lks.wide,15 ins.deep,course SE.
61.00	Leave bottom of canyon,begin abrupt ascent over sandstone ledges,bearing NW.and SE.
67.80	Rocky spur,400 ft.above the canyon,projects S.
	Descend.
80.08	The cor.of secs.28-29-32 and.33.
	Land,mountainous and bottom land.
	Soil,rocky,3rd.and 4th.rate on 52.00 chs.
	balance, bottom land, 1st.rate.
	No timber.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land on 52.08 chs.
	N.0°01'E.,bet.secs.28 and 29.
	Ascend abruptly over sandstone ledges.
21.60	Ridge,bears NW.and SE.
	Abrupt descent.
32.00	Foot of abrupt descent,bears NW.and SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	ground,for ½ sec.cor.,marked on brass cap,¼ S 29 on W. half,S 28 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
49.00	Hollow,100 ft.deep,course E.
	Abrupt ascent.
58.00	Road from Green River to Gate Canyon,bears NW.and SE.
64.35	Ridge,bears E.and W.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.20-21-28 and 29,marked on brass cap,T 11 S S 20 in NW.,
	R 18 E S 21 in NE.,
	S 28 in SE.and S 29 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	April 4, 1910

April 5: At 8h.03m.,a.m.,l.m.t.,I set off 39°50'N.on lat. arc, 5°55'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.20-21-28 and 29.

Thence I run

N.89°59'W.,on a random line,bet.secs.20 and 29.

40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,3 lks.S.of the cor.of secs. 19-20-29 and 30.

Thence I run

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	S.89°58'E.,on a true line,
	Bet.secs.20 and 29.
	Abrupt ascent over broken sandstone ledges.
6.00	Top of abrupt ascent bears NE.and SW.
	Over level rocky land.
11.10	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
32.50	Hollow,200 ft.below top of ledges,course NE.
	Abrupt ascent.
38.00	Spur,projects NE. Abrupt descent.
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground for ¼ sec.cor.,marked ¼S20 on N.half,S29 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
49.00	Hollow,100 ft.deep,course NE. Abrupt ascent.
52.00	Spur,projects NE. Abrupt descent.
57.50	Hollow,100 ft.deep,course NE. Abrupt ascent.
70.70	Spur,projects N. Abrupt descent.
75.50	Hollow,100 ft.deep,course N. Abrupt ascent.
79.00	Spur,projects N. Descend.
80.02	The cor.of secs.20-21-28 and 29.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 74.92 chs.
	N.0°01'E.,bet.secs.20 and 21.
	Descend abruptly over sandstone ledges.
4.50	Foot of ledges,150 ft.high,bearing NW.and SE.
	Over level bottom land,through dense undergrowth.
24.00	Enter scattering timber.
26.00	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.to fracl.secs.20 and 21,marked on brass cap,T 11 S R 18 E on N.half,and S 20 S 2I MC on S.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	half, from which
	A cottonwood,10 ins.diam.,bears N.41°E.,9½ lks. dist.,marked T 11 S R 18 E S 21 MC BT.
	A cottonwood,8 ins.diam.,bears N.30°W.,9 lks. dist.,marked T 11 S R 18 E S 20 M C BT
	To pass a bend of Green River,I offset west,12.00 chs. thence N.0°01'E.
40.00	On offset line,counting from the sec.cor. Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,marked on brass cap T 11 S R 18 E WC¼ on N.half, S 20 on W. and S 21 on E. half, and raise a mound of stone,2 ft.base,1½ ft.high, W.of cor.
	Pits impracticable.
53.83	Counting from the sec.cor,on offset line,offset east 12.00 chs.
	Right bank of Green River on N.side of bend.
	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for meander cor.to fracl.secs.20 and 21, marked on brass cap, T 11 S R 18 E on S.half, and S 20 S 21 MC on N.half, from which
	A cottonwood, 14 ins.diam.,bears N.39°W.,30 lks. dist.,marked T 11 S R 18 E S 20 MC BT.
	A cottonwood, 8 ins.diam., bears S.33°E.,89 lks. dist.,marked T 11 S R 18 E S 21 MC BT.
	Over bottom land, through scattering timber.
55.00	Leave timber.
61.00	Leave bottom land.
	Abrupt ascent over sandstone ledges, bearing NE.and SW.
80.00	Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground,for cor.of secs.16-17-20 and 21,marked on brass

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	cap T 11 S S 17 in NW.,
	R 18 E S 16 in NE.,
	S 21 in SE.,and S 20 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and bottom land.
	Soil,rocky,3rd.and 4th.rate on 23.50 chs.
	bottom land,2nd.rate on 28.67 chs.
	Timber, cottonwood.
	Mountainous land on 28.67 chs.
	April 5: At this cor.I set off 5°58'N.on decl.arc,and at 12h.03m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°51'N.
	N.89°58'W.,on a random line,bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,3 lks.S.of the cor.of secs. 17-18-19 and 20.
	Thence I run
	S.89°57'E.,on a true line,
	Bet.secs.17 and 20.
	Descend over rocky and mountainous land.
18.00	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
26.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
37.50	Top of abrupt ascent,bears NW.and SE.
	Over level rocky land.
40.02	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on N. half,S 20 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
57.10	Leave level land,bears NE.and SW.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Begin abrupt descent over sandstone ledges.
59.00	Head of hollow,course SE.
	Ascend.
63.30	Spur,projects SE.
	Abrupt descent.
80.04	The cor.of secs.16-17-20 and 21.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 60.40 chs.
	N.0°01'E.,bet.secs.16 and 17.
	Ascend over rocky and mountainous land.
14.80	Spur,projects SE.
	Abrupt descent.
25.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
34.80	Ridge,bears NW.and SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on W. half,S 16 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
48.00	Hollow,100 ft.deep,course SE.
	Ascend.
65.00	Begin abrupt ascent over ledges,bearing NE.and SW.
79.00	Top of perpendicular sandstone ledges,100 ft.high, bearing E.and W.
	Top of square topped knoll, 600 ft.above the surrounding country,on top of a ridge,bearing NE.and SW.
	Gradual ascent on knoll.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.8-9-16 and 17,marked on brass cap

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	T 11 S S 8 in NW.,
	R 18 E S 9 in NE.,
	S 16 in SE.,and S 17 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	April 5, 1910
	April 6: At 8h.03m.,a.m.,l.m.t.,I set off 39°52'N.on lat.arc,6°18'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.8-9-16 and 17.
	Thence I run
	N.89°57'W.,on a random line,bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
79.88	Intersect N.and S.line,3 lks.S.of point for cor.of secs. 7-8-17 and 18 ,witnessed 3.90 chs.N.
	Thence I run
	S.89°56'E.,on a true line,
	Bet.secs.8 and 17.
	Descend abruptly over sandstone ledges.
3.00	Hollow,300 ft.deep,course NE.
	Abrupt ascent over sandstone ledges,along steep N.slope.
31.00	Rocky spur,projects.N.
	Abrupt descent along steep N.slope.
39.94	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 8 on N. half,S 17 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
42.00	Hollow,200 ft.deep,course N.
	Abrupt ascent along steep N.slope.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
66.00	Rocky spur,projects N.
	Abrupt descent along steep N.slope.
72.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.
79.00	Top of perpendicular sandstone ledges,100 ft.high, bears N.and S.
	Gradual ascent on top of high knoll, on ridge,bearing NE.and SW.
79.88	The cor.of secs.8-9-16 and 17.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 79.88 chs.
	N.0°01'E.,bet.secs.8 and 9.
	Gradual descent on top of knoll.
0.75	Begin abrupt descent over sandstone ledges,bearing E. and W.
27.00	Hollow,500 ft.below sec.cor.,course NE.
	Abrupt ascent over sandstone ledges.
40.00	Point for $\frac{1}{4}$ sec.cor.falls on the steep,sandstone slope impossible to set.
57.40	Top of sandstone ledges,bearing NW.and SE.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to $\frac{1}{4}$ sec.cor.,marked on brass cap,T 11 S R 18 E on N.half,S 8 on W.half,and S 9 on E.half, W C $\frac{1}{4}$ on S.half,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Ascend.
58.10	Rocky spur,projects SE.
	Abrupt descent.
71.00	Hollow,100 ft.deep.course E.
	Abrupt ascent.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
80.00	Top of ridge,bears E.and SW.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.4-5-8 and 9,marked on brass cap
	T 11 S S 5 in NW.,
	R 18 E S 4 in NE.,
	S 9 in SE.,and S 8 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	April 6: At this cor.I set off 6°21'N.on decl.arc,and at 12h.03m.,p.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°53'N.
	N.89°56'W.,on a random line,bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
79.74	Intersect N.and S.line,7 lks.N.of the cor.of secs. 5-6-7 and 8.
	Thence I run
	S.89°59'E.,on a true line,
	Bet.secs.5 and 8.
	Descend over rocky and mountainous land.
7.00	Hollow,75 ft.deep,course NE.
	Ascend.
14.15	Ridge,bears NE.and SW.
	Descend.
27.75	Hollow,50 ft.deep,course NE.
	Ascend.
29.90	Spur,projects N.
	Descend.
36.00	Hollow,50 ft.deep,course N.
	Ascend.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
39.87	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 5 on N. half,S 8 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
43.50	Spur,projects N.
	Descend.
49.00	Hollow,50 ft.deep,course N.
	Ascend.
55.00	Spur,projects N.
	Descend.
58.00	Hollow,50 ft.deep,course N.
	Ascend.
61.00	Ridge,bears N.and S.
	Descend.
67.00	Hollow,50 ft.deep,course NE.
	Ascend.
79.74	The cor.of secs.4-5-8 and 9.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.74 chs.
	N.0°01'E.,on a true line,
	Bet.secs.4 and 5.
	Descend over rocky and mountainous land.
4.00	Hollow,50 ft.deep,course NE.
	Ascend.
7.00	Spur,projects NE.
	Descend.
17.25	Hollow,75 ft.deep,course NE.
	Ascend.
27.00	Ridge,bears NE.and SW.
	Descend.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
35.00	Hollow,100 ft.deep,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 5 on W. half,S 4 on E.half,and raise a mound of stone,2 ft.base 1½ ft.high,W.of cor.
	Pits impracticable.
49.00	Ridge,bears NE.and SW.
	Descend.
78.00	Head of hollow,course SE.
	Ascend.
79.78	Intersect 2nd.Stan.Par.South,24.09 chs.west of the stan. cor.of secs.32 and 33,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.4 and 5,marked on brass cap,T 10 S R 18 E S 32 S 33 CC on N.half, and S 4 S 5 on S.half, and raise a mound of stone,2 ft.base, 1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 79.78 chs.
	April 6, 1910.

April 7: At 8h.02m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc,6°41'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34, heretofore described on the S.bdy.of the Tp.

Thence I run

N.0°02'E.,bet.secs.33 and 34.

	Ascend abruptly over rocky and mountainous land.
4.85	Ridge,bears NE.and SW.
	Abrupt descent along steep west slope.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 33 on W. half,S 34 on E.half,and raise a mound of stone,2 ft.base 1½ ft.high,W.of cor.
	Pits impracticable.
47.00	Hollow,300 ft.below sec.cor.,course NW.
	Ascend.
49.00	Spur,projects NW.
	Abrupt descent over sandstone ledges.
51.00	Enter bottom of Nine Mile Canyon,400 ft.deep,course E.
	Over bottom land,through dense undergrowth.
53.00	Minnie Maud Creek,30 lks.wide,15 ins.deep,course SE.
67.50	Leave canyon, begin abrupt ascent over sandstone ledges bearing E.and W.
74.00	Top of perpendicular sandstone ledge,150 ft.high, bears E.and W.
	Over level rocky land.
77.00	Begin abrupt descent along steep east slope over sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.27-28-33 and 34,marked on brass cap,T 11 S S 28 in NW., R 18 E S 27 in NE., S 34 in SE.and S 33 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note: On account of natural obs tacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 63.50 chs. balance, loam,1st.rate.
	No timber.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land on 60.50 chs.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	West on a random line,bet.secs.28 and 33.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N.and S.line,5 lks.S.of the cor.of secs. 28-29-32 and 33..
	Thence I run
	S.89°58'E.,on a true line,
	Bet.secs.28 and 33.
	Abrupt descent over sandstone ledges.
1.00	Hollow,150 ft.deep,course SW.
	Abrupt ascent.
25.75	Ridge,bears NW.and SE.
	Abrupt descent.
40.03	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 28 on N. half,S 33 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
41.50	Hollow,150 ft.deep,course NE.
	Ascend.
53.05	Ridge,bears NE.and SW.
	Descend.
70.00	Foot of descent,bears NE.and SW.
	Over level land.
78.50	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
80.06	The cor.of secs.27-28-33 and 34.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 7D.56 chs.
	April 7: At this cor.I set off 6°44'N.on decl.arc,and at 12h.02m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°50'N..

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	N.0°02'E.,bet.secs.27 and 28.
	Abrupt descent along steep east slope,over sandstone ledges.
0.75	Hollow,150 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
3.00	Top of abrupt ascent,bears NW.and SE.
	Leave sandstone ledges, ascend.
4.95	Ridge,bears E.and W.
	Descend.
10.00	Hollow,50 ft.deep,course E.
	Ascend.
16.60	Ridge,bears NE.and SW.
	Descend.
25.75	Road from Green River to Gate Canyon,bears NE.and SW.
32.00	Begin abrupt descent over sandstone ledges,bearing E. and W.
36.50	Hollow,100 ft.deep,course E.
	Abrupt ascent over sandstone ledges.
37.90	Top of abrupt ascent,bears E.and W.
	Leave sandstone ledges, ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 28 on W. half, S 27 on E.half,and raise a mound of stone,2½ ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
41.50	Spur,projects E.
	Descend abruptly.
77.37	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.to fracl.secs.27 and 28,marked on brass cap,T 11 S R 18 E on N.half,and S 28 S 27 M C on S.half,and raise a mound of stone, 2 ft.base,1½ ft.high,S.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 77.37 chs.
	———————————
	From the cor.of secs.20-21-28 and 29,I run
	S.89°58'E.,on a true line,
	Bet.secs.21 and 28.
	Abrupt descent along steep north slope,over sandstone ledges.
11.00	Foot of abrupt descent,150 ft.below the sec.cor., bears NW.and SE.
	Over level bottom land,through dense undergrowth.
28.00	Enter scattering timber.
32.50	Enter dense willow thicket,bears NW.and SE.
	Leave timber.
35.05	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.to fracl.secs.21 and 28, marked on brass cap, T 11 S R 18 E on N.half,and S 21 S 28 M C on W.half,
	dig a pit,36x36x12 ins.,8 ft.W.of post, and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.
	Land,mountainous and level.
	Soil,rocky,4th.rate on 11.00 chs.
	balance,loam,1st.rate.
	Timber, cottonwood.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land or land covered with dense undergrowth, on 35.05 chs.
	April 7,1910.
	———————————

SUBDIVISIONS OF T.11 S.,R.18 E.

[illegible]	
	April 8: At [illegible] I set off 39°50'N.on lat. arc,[illegible] on decl.arc,and determine a meridian with the solar at the cor.of secs.27-28-33 and 34.
	Thence I run
	East,on a true line.
	Bet.secs.27 and 34.
	Abrupt descent over sandstone ledges.
0.90	Hollow,150 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
7.15	Top of abrupt ascent,bears NW.and SE.
	Leave sandstone ledges, over level rocky land.
9.00	Begin abrupt descent over sandstone ledges,bearing N.and S.
11.00	Enter bottom of Nine Mile Canyon,400 ft.deep,course N. Over bottom land,through dense undergrowth.
12.50	Minnie Maud Creek,30 lks.wide,15 ins.deep,course N.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on N. half,S 34 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
42.00	Leave bottom of canyon, begin abrupt ascent over sandstone ledges,bearing NE.and SW.
43.00	Top of perpendicular sandstone ledges,bearing N.and S. 150 ft.high.
	Abrupt ascent.
43.00	Ridge,bears NE.and SW.
	Abrupt descent.
43.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.26-27-34 and 35,marked on brass cap,T 11 S S 27 in NW., S 18 E S 26 in NE., S 35 in SE.and S 34 in NW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 69.00 chs.
	balance, loam,1st.rate.
	No timber.
	Undergrowth, greasewood and sage brush.
	Mountainous land on 56.15 chs.

	From the cor.of 26-27-34 and 35,I run
	S.0°03'W.,on a true line,bet.secs.34 and 35.
	Abrupt descent over rocky and mountainous land,along steep east slope.
0.75	Hollow,50 ft.deep,course E.
	Ascend.
2.30	Spur,projects E.
	Abrupt descent.
9.50	Hollow,75 ft.deep,course E.
	Abrupt ascent.
12.00	Spur,projects E.
	Abrupt descent.
18.00	Foot of abrupt descent,bears NE.and SW.
	Over level land,through dense undergrowth.
26.25	Enter scattering timber.
30.00	Leave timber, enter dense willow thicket.
33.37	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.34 and 35,marked on brass cap, T 11 S R 18 E on S.half, and S 34 S 35 M C on N.half, dig a pit,36x36x12 ins.,N.of post,8 ft.dist.,and raise a mound of earth,4 ft.base,

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	2 ft.high,N.of cor.
	Land,Mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 18.00 chs.
	balance,loam,1st.rate.
	Timber, cottonwood.
	Undergrowth,greasewood,sage brush and willows.
	Mountainous land on 18.00 chs.

	From the cor.of secs.26-27-34 and 35,I run
	East, on a true line,
	Bet.secs.26 and 35.
	Abrupt descent over rocky and mountainous land.
4.00	Enter river bottom, bears N.and S.
	Over level land,through dense undergrowth.
17.22	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.to fracl.secs.26 and 35,marked on brass cap,T 11 S R 18 E on N.half,and S 26 S 35 M C on W.half,
	dig a pit,36x36x12 ins., W.of post,8 ft.dist.,and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 4.00 chs.
	balance, loam,1st.rate.
	No timber.
	Mountainous land or land covered with dense undergrowth on 17.22 chs.
	April 8: At this cor.I set off 7°06'N.on decl.arc,and at 12h.02m.,p.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°50'N.

	From the cor.of secs.26-27-34 and 35, I run
	N.0°03'E.,bet.secs.26 and 27.
	Ascend over rocky and mountainous land,along steep east slope.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
0.40	Spur,projects E.
	Abrupt descent.
1.50	Hollow,75 ft.deep,course E.
	Abrupt ascent.
8.00	Spur,projects E.
	Descend.
17.75	Hollow,50 ft.deep,course E.
	Ascend.
22.00	Spur,projects E.
	Descend.
31.00	Hollow,75 ft.deep,course E.
	Ascend.
34.50	Spur,projects E.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on W. half,S 26 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
43.50	South edge of reservoir,belonging to Preston Nutter, bears NE.,1.50 chs.dist.,and SW.about 12.00 chs.dist.
46.60	To northeast side of reservoir,which bears SE.,4.00 chs. and NW.,5.00 chs.dist.
	Enter cultivated land,belonging to Preston Nutter, bearing NW.and SE.
60.00	Leave cultivated land,bears NE.and SW.
	Enter dense undergrowth.
63.22	South side of Minnie Maud Creek,15 ins.deep,course E.
63.80	North side of creek, 3.00 chs.E.to mouth.
	Enter scattering timber.
65.92	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of secs.26 and 27,marked on brass cap T 11 S R 18 E on N.half, and

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	S 26 S 27 M C on S.half,from which
	A cottonwood,5 ins.diam.,S.43°E.,48 lks.dist.,
	marked T 11 S R 18 E S 26 M C BT.
	A cottonwood,6 ins.diam.,bears S.56°30'W.,21
	lks.dist.,marked T 11 S R 18 E S 27 M C B T.
	Land,Mountainous and level.
	Soil,rocky,3rd.and 4th.rate on43.50 chs.
	balance,loam, 1st.rate.
	Timber, cottonwood.
	Undergrowth, greasewood,sage and willows.
	Mountainous land or land covered with dense undergrowth
	on 49.42 chs.

	A portion of the north bdy.of sec.27 falls on the
	S.side of Green River,therefore I begin at the
	meander cor.for fracl.secs.27 and 28, which is set
	at 2.63 chs.S.0°02'W.from the point for the cor.of
	secs.21-22-27 and 28., thence I run
	East, on an offset line, 16.30 chs.,
	thence N.0°02'E., 2.63 chs., to a point on the sec.
	line bet.secs.22 and 27. and on right bank of Green
	River.
	Distance, counting from sec.cor.
16.30	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the
	ground,for meander cor.to fracl.secs.22 and 27, marked
	on brass cap,T 11 S R 18 E on N.half,and
	S 22 S 27 M C on E.half, and raise a mound of stone,
	2 ft.base,1½ ft.high,E.of cor.
	Pits impracticable.
	Thence I run
	East, on a true line,
	Bet.secs.22 and 27.
	Over level bottom land,through dense willow thicket.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
26.30	Mouth of hollow,from SW. and wash,25 lks.wide,10 ft. deep,course N.
37.75	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.22 and 27,marked on brass cap, T 11 S R 18 E on N.half, and S.22 S 27.MC on W.half,. dig a pit, 36x36x12 ins.,W.of post,8 ft.dist.,and raise a mound of earth,4 ft.base, 2 ft.high,W.of cor.
	Land,level.
	Soil,loam, 1st.rate.
	Timber, scattering cottonwoods N.of line,
	Undergrowth,willows and rose bushes.
	Land covered with dense undergrowth on 21.45 chs.
	April 8,1910

	April 9: At 8h.02m.,a.m.,l.m.t.,I set off 39°51'N.on lat.arc,7°25'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.16-17-20 and 21.
	Thence I run
	S.89°58'E.,on a true line,
	Bet.secs.16 and 21.
	Descend over rocky and mountainous land.
26.00	Hollow,100 ft.deep,course SE.
	Ascend.
30.90	Spur,projects SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on N. half,S 21 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
40.50	Hollow,75 ft.deep,course SE.
	Ascend.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
43.00	Spur,projects SE.
	Descend.
51.00	Enter bottom land,bears NE.and SW.
	Gradual descent.
53.00	Enter scattering timber.
53.08	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.16 and 21,marked on brass cap T 11 S R 18 E. on N.half, and S 16 S 21 M C on W.half,from which.
	A cottonwood,40 ins.diam.,bears N.75°30'E.,25 lks.dist.,marked T 11 S R 18 E S 16 MC BT.
	A cottonwood,28 ins.diam.,bears S.12°E.,23 lks. dist.,marked T 11 S R 18 E S 21 MC BT.
	Land,mountainous and rolling.
	Soil,rocky,3rd.rate on 51.00 chs.
	balance, sandy loam,2nd.rate.
	Timber, cottonwood.
	Mountainous land on 51.00 chs.

	From the cor.of secs.8-9-16 and 17,I run S.89°58'E.,on a true line., Bet.secs.9 and 16.
	Descend gradual on top of knoll.
0.25	Begin abrupt descent over ledges,bearing N.and S.
34.00	Foot of abrupt descent,bears.NE.and SW.,500 ft.below sec.cor.
	Descend over solid shale.
40.00	Set a limestone,18x15x8,ins.,in mound of stone and earth for ¼ sec.cor.,marked ¼ on N.face,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set a post within a radius of 5.00 chs.of this

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	point.
62.00	Hollow,100 ft.deep,course NE.
	Ascend.
67.00	Spur,projects NE.
	Descend.
71.00	Hollow,75 ft.deep,course NE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.9-10-15 and 16,marked on brass cap,T 11 S S 9 in NW.,
	R 18 E S 10 in NE.,
	S 15 in SE.and S 16 in.SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	On account of natural obstacles.it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil, sandstone ledges,and a thin layer of soil over solid shale ledges, 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	From the cor.of secs.9-10-15 and 16,I run S.0°02'W.,on a true line, Bet.secs.15 and 16.
	Ascend over rocky and mountainous land.
5.00	Sandstone spur,projects E.
	Abrupt descent.
16.00	Enter bottom land,bears NE.and SW.
	Over level land,through dense undergrowth.
19.00	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.15 and 16, marked on brass cap, T 11 S R 18 E on S.half, and

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	S 15 S 16 M C on N.half, and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil,rocky, 3rd.and 4th.rate on 16.00.chs. balance,loam,1st.rate.
	No timber.
	Undergrowth, greasewood.brush.
	Mountainous land or.land covered with dense undergrowth on 19.00 chs.
	April 9: At this cor.I set off 7°29'N.on decl.arc,and at 12h.02m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39° 52'N.
	From the cor.of secs.9-10-15 and 16, I run N.0°02'E.,bet.secs.9 and 10.
	Abrupt descent over rocky and mountainous land.
4.50	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
8.00	Spur,projects E.
	Abrupt descent.
12.00	Hollow,100 ft.deep,course E.
	Abrupt ascent.
15.25	Spur,projects E.
	Abrupt descent.
22.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent over shale ledges.
40.00	Set a sandstone,24x12x7 ins.,in mound of stone and earth for ¼ sec.cor.,marked ¼ on W.face,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set a post within 5.00 chs.of this point.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
45.00	Spur,projects E.
	Descend.
52.00	Hollow,100 ft.deep,course E.
	Ascend along steep,east slope over broken shale .
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.3-4-9 and 10, marked on brass cap,T 11 S S 4 in NW.,
	R 18 E S 3 in NE.,
	S 10 in SE.and S 9 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 13 ins.in the ground .
	Land,mountainous.
	Soil,shale ledges covered with a thin layer of soil, 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	N.89°58'W.,on a random line,bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
79.80	Intersect N.and S.line,3 lks.N.of the cor.of secs. 4-5-8 and 9.
	Thence I run S.89°59'E.,on a true line, Bet.secs.4 and 9.
	Ascend along top of ridge, bearing E.and W.,over rocky and mountainous land.
12.00	Leave ridge,bears NE.and W.
	Descend along steep south slope over sandstone ledges.
16.00	Begin ascent along steep south slope over sandstone ledges.
21.00	Same ridge,bears NW.and E.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Ascend along top of ridge.
32.50	Leave ridge,bears NE.and W.
	Begin abrupt descent along steep south slope,over broken sandstone ledges.
39.90	Set an iron post,3 ft.long,1 india.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on N. half,S 9 on S.half,and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
	Pits impracticable.
52.00	Leave sandstone ledges, bearing NE.and SW.
	Abrupt descent over shale ledges.
79.80	The cor.of secs.3-4-9 and 10-
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 79.80 chs.
	April 9,1910.

April 10: At 8h.02m.,a.m.,l.m.t.,I set off 39°53'N.on lat.arc,7°48'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-9 and 10.

Thence I run

N.0°02'E.,on a true line,

Bet.secs.3 and 4.

Ascend over rocky and mountainous land,

38.00	Ridge,400 ft.above the sec.cor.bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on W. half,S 3 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
79.84	Intersect 2nd.Stan.Par.South,24.16 chs.west of the stan. cor.of secs.33 and 34,heretofore described.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.3 and 4,marked on brass cap,T 10 S R 18 E S 33 S 34,CC on N.half,and S 3 S 4 on S.half,and raise a mound of stone,2 ft.base 1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 79.84 chs.
	April 10: At this cor.I set off 7°51'N.on decl.arc,and at 12h.02m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°54'N.
	From the cor.of secs.9-10-15 and 16,I run East,on a true line, Bet.secs.10 and 15.
	Ascend along north slope,over rocky and mountainous land.
0.75	Spur,projects N.
	Abrupt descent over sandstone ledges,bearing NE.and SW.
9.00	Enter bottom land,bears NE.and SW.
	Over level land,through dense undergrowth.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on N. half,S 15 on S.half,from which A cottonwood,30 ins.diam.,bears S.64°E.,204 lks. dist.,marked ¼ S 15 BT.
	No other trees within limits and dig pits,18x18x12 ins. E.and W.of post,3 ft.dist.,and raise a mound of earth, 3½ ft.base,1½ ft.high,N.of cor.
56.50	Enter scattering timber.
79.50	Enter willow thicket.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.10-11-14 and 15,marked on brass cap,T 11 S S 10 in NW.,
	R 18 E S 11 in NE.,
	S 14 in SE.and S 15 in SW.quadrant, from which
	A cottonwood,30 ins.diam.,bears S.64°E.,204 lks.dist.,marked T 11 S R 18 E S 14 BT.
	A cottonwood,36 ins.diam.,bears S.1°W.,90 lks. dist.,marked T 11 S R 18 E S 15 BT.
	No other trees within limits,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.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 9.00 chs.
	Timber, cottonwood.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land or land,covered with dense undergrowth on 80.00 chs.

	From the cor.of secs.10-11-14 and 15, I run
	S.0°03'W.,on a true line,
	Bet.secs.14 and 15.
	Over level bottom land, through dense undergrowth and scattering timber.
4.89	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.14 and 15, marked on brass cap, T 11 S R 18 E on S.half,and
	S 14 S 15 MC on N.half, from which
	A cottonwood,5 ins.diam.,bears S.82°E.,30 lks. dist.,marked T 11 S R 18 E S 14 M C BT.
	A cottonwood,5 ins.diam.,bears N.52°W.,29 lks. dist.,marked T 11 S R 18 E S 15 MTC BT

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Land,level.
	Soil,loam,1st.rate.
	Timber, cottonwood.
	Land,covered with dense undergrowth on 4.89 chs.
	April 10, 1910.
	April 11: At 8h.01m.,a.m.,l.m.t.,I set off 39°52'N.on lat.arc,8°00'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.10-11-14 and 15.
	Thence I run
	East, on a true line,bet.secs.11 and 14.
	Over level bottom land,through dense undergrowth and scattering timber.
22.27	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.11 and 14,marked on brass cap T 11 S R 18 E on N.half,and
	S 11 S 14 M C on W.half,from which.
	A cottonwood,18 ins.diam.,bears N.53°W.,102 lks. dist.,marked T 11 S R 18 E S 11 M C BT.
	A cottonwood,6 ins.diam.,bears S.78°30'W.,184 lks.dist.,marked T 11 S R 18 E S 14MCT BT.
	Land,level.
	Soil,sandy loam,1st.rate.
	Timber, cottonwood.
	Undergrowth,greasewood, sage brush and willows.
	Land covered with dense undergrowth on 22.27 chs.
	From the cor.of secs.10-11-14 and 15,I run
	N.0°03'E.,bet.secs.10 and 11.
	Over level bottom land,through dense undergrowth.
11.00	Leave bottom land,bears E.and W.
	Begin abrupt ascent over rocky and mountainous land.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
21.50	Ridge,bears NW.and SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on W. half,S 11 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.2-3-10 and 11,marked on brass cap T 11 S S 3 in NW.,
	R 18 E S 2 in NE.,
	S 11 in SE.and S 10 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous, and level.
	Soil,rocky,3rd.and 4th.rate on 69.00 chs.
	balance,loam,1st.rate.
	No timber.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land,or land covered with dense undergrowth on 80.00 chs.
	April 11: At this cor.I set off 8°14'N.on decl.arc,and at 12h.01m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°53'N.
	West,on a random line,bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,7 lks.S.of the cor.of secs. 3-4-9 and 10.
	Thence I run
	S.89°57'E.,on a true line,
	Bet.secs.3 and 10.
	Descend over broken and mountainous land,and shale ledges.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
26.00	Hollow,150 ft.deep,course S.
	Abrupt ascent over shale ledges,along steep south slope.
40.06	Set a sandstone, 18x10x5 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set an iron post within a radius of 5.00 chs.
45.75	Ridge,bears NW.and SE.
	Abrupt descent.
80.12	The cor.of secs.2-3-10 and 11.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.12 chs.
	N.0°03'E.,on a true line,
	Bet.secs.2 and 3.
	Descend over rocky and mountainous land.
3.50	Hollow,100 ft.deep,course SE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on W. half,S 2 on E.half,and raise a mound of stone,2 ft.base 1½ ft.high,W.of cor.
	Pits impracticable.
49.00	Begin abrupt ascent over shale ledges,bearing NW.and SE.
54.00	Ridge,bears NW.and SE.
	Abrupt descent.
67.50	Hollow,300 ft.deep,course E.
	Abrupt ascent.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
76.00	Ridge,bears E.and W.
	Descend.
79.90	Intersect 2nd.Stan.Par.South, 24.12 chs.west of the stan.cor.of secs.34 and 35,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.2 and 3,marked on brass cap, T 10 S R 18 E S 34 S 35 CC on N.half,and S 2 S 3 on S.half, and raise a mound of stone,2 ft.base 1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 79.90 chs.
	April 11, 1910

	April 12: At 8h.01m.,a.m.,l.m.t.,I set off 39°53'N.on lat.arc,8°32'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.2-3-10 and 11.
	Thence I run
	East, on a true line,
	Bet.secs.2 and 11.
	Descend over rocky and mountainous land.
4.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent along steep south slope,over shale ledges.
24.00	Spur projects SE.
	Abrupt descent.
28.00	Hollow,100 ft.deep,course S.
	Abrupt ascent.
32.20	Spur,projects S.
	Abrupt descent.
36.50	Hollow,100 ft.deep,course S.
	Abrupt ascent.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
39.00	Spur,projects S.
	Abrupt descent.
40.00	Set a sandstone,18x14x12, in mound of stone and earth, for ¼ sec.cor.,marked ¼ on N.face,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this cor.in the ground or set a post within a radius of 5.00 chs.
41.75	Hollow,75 ft.deep,course S.
	Abrupt ascent.
43.50	Ridge,bears NW.and SE.
	Descend over broken land.
78.00	Hollow,100 ft.deep,course NE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.1-2-11 and 12,marked on brass cap,T 11 S S 2 in NW.,
	R 18 E S 1 in NE.,
	S 12 in SE.and S 11 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	S.0°03'W.,on a true line,bet.secs.11 and 12.
	Ascend over rocky and mountainous land,
3.50	Ridge,bears NE.and SW.
	Descend.
7.00	Hollow,50 ft.deep,course E.
	Ascend.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
19.00	Spur,projects SE.
	Descend.
25.75	Hollow,75 ft.deep,course SE.
	Ascend.
34.00	Spur,projects SE.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on W. half,S 12 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
46.00	Enter bottom land,bears E.and W.
	Over level land,through dense undergrowth.
66.90	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.11 and 12,marked on brass cap,T 11 S R 18 E on S.half, and S 11 S 12 MC on N.half, and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth,greasewood and sage brush.
	Mountainous land or land covered with dense undergrowth on 66.90 chs.
	April 12: At this cor.I set off 8°35'N.on decl.arc,and at 12h.01m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°52'N.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	From the cor.of secs.1-2-11 and 12,I run
	East, on a true line,
	Bet.secs.1 and 12.
	Ascend over rocky and mountainous land.
8.70	Spur,projects NE.
	Abrupt descent.
19.00	Enter bottom land,bears N.and S.
	Over level land,through dense undergrowth.
20.00	Enter scattering timber.
22.00	To right bank of Green River.
	Set an iron post, 3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.1 and 12,marked on brass cap, T 11 S R 18 E on N.half,and S 1 S 12 M C on W.half,from which
	A cottonwood,18 ins.diam.,bears S.49°W.,18 lks. dist.,marked T 11 S R 18 E S 12 M C BT.
	A cottonwood,5 ins.diam.,bears N.63°W.,31 lks. dist.,marked T 11 S R 18 E S 1 M C BT.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate,on 19.00 chs. balance,loam,2nd.rate.
	Timber,cottonwood.
	Undergrowth, greasewood and sage brush.
	Mountainous land or land covered with dense undergrowth on 22.00 chs.

	From the cor.of secs.1-2-11 and 12, I run
	N.0°03'E., on a true line,
	Bet.secs.1 and 2.
	Descend over rocky and mountainous land.
1.15	Hollow,100 ft.deep,course NE.
	Ascend.
3.50	Begin descent.
21.00	Enter bottom land,bears NW.and SE.

SUBDIVISIONS OF T.11 S.,R.18 E.

CHAINS	
	Over level land,through dense undergrowth.
31.53	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.1 and 2,marked on brass cap T 11 S R 18 E on N.half, S 1 S 2 M C on S.half, and raise a mound of stone,2 ft. base,1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil, rocky,3rd.rate on 21.00 chs. balance,loam,2nd.rate.
	No timber.
	Undergrowth, greasewood, sage brush and willows.
	Mountainous land or land covered with dense undergrowth on 31.53 chs.
	April 12, 1910

M E A N D E R S , T.11 S., R. 18 E.

Meanders of the right bank of Green River, up stream.

I commence at the meander cor.of fracl.secs.3 and 34, on the S.bdy.of the Tp., heretoforefore described.

April 13: At 8h.01m.,a.m.,l.m.t.,I set off 39°49'N. on lat.arc,8°54'N.,on decl.arc,and determine a meridian with the solar.

Thence I run with meanders in sec.34.

Through dense undergrowth.

N.58°00'E.,	29.70 chs.	Bank 8 ft.high.
N.38°30'E.,	3.40 "	Leave undergrowth ,over sandstone ledge s.
N.25°00'E.,	6.00 "	
N.18°00'E.,	5.10 "	Leave ledges, enter dense undergrowth.

SUBDIVISIONAL MEANDERS OF T.11 S.,R.18 E.

CHAINS

N.41°30'E., 24.00 chs., Bank 6 ft.high, to the meander cor.of fracl.secs.34 and 35.

Land, river bottom and rolling.

Soil,loam,1st.rate on 53.70 chs.

balance,rocky 4th.rate.

No timber.

Undergrowth, greasewood,and willows.

Land covered with dense undergrowth on 53.70 chs.

Thence in sec.35.

Through dense undergrowth.

N.30°30'E.,27.70 chs. Bank 6 ft.high.

N.18°30'E.,10.00 " To meander cor.of fracl.secs. 26 and 35.

Land,level.

Soil,loam,1st.rate.

No timber.

Undergrowth,willows.

Land covered with dense undergrowth on 37.70 chs.

Thence in sec.26.

Through dense undergrowth.

N.1°30'E., 8.70 chs.,bank 6 ft.high.

N.2°00'E., 20.40 "

N.4°00'W., 14.00 "

N.16°30'W., 7.50 "

N.25°45'W. 6.80 "

N.33°00'W. 6.20 " Enter scattering timber.

N.52°30'W. 4.00 "

N.69°00'W. 3.00 " South side of mouth of Minnie Maud Creek.

4.00 " North side of mouth of creek.

5.90 " To meander cor.of fracl.secs. 26 and 27.

Land,level.

Soil,loam,1st.rate.

MEANDERS, in T.11.S.,R.18 E.

Timber, cottonwood.

Undergrowth, willows.

Land covered with dense undergrowth on 73.50 chs.

April 13: At this cor.I set off 8°57'N.on decl.arc, and at 12h.01m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°50'N.

Thence in sec.27, East end.

Through dense undergrowth and scattering timber.

N.74°00'W., 3.00 chs. Bank 6 ft.high.

N.71°30'W., 6.60 "

N.68°30'W., 3.10 "

N.70°00'W., 4.10 "

N.68°00'W., 9.10 "

N.79°00'W., 4.80 "

N.72°30'W., 9.30 " Leave timber.

N.75°30'W., 4.50 ". To meander cor.of fracl.secs. 22 and 27.

West end.

From meander cor.of fracl.secs.22 and 27.

S.80°50'W.,16.51 chs. To meander cor.of fracl.secs. 27 and 28.

Land,level.

Soil,loam,1st.rate.

Timber, cottonwood.

Undergrowth, willows.

Land covered with dense undergrowth on 61.01 chs.

MEANDERS , T.11 S.,R.18 E.

Thence in sec.22.

Through dense undergrowth.

From meander cor.of fracl.secs.22 and 27.

N.81°00'W., 6.60 chs. Bank, 6 ft.high.

S.86°00'W.,15.00 " To meander cor.of fracl.secs. 22 and 27.

Land,level.

Soil,loam,1st.rate.

No timber.

Undergrowth, willows.

Land covered with dense undergrowth on 21.60 chs.

April 13, 1910

April 14: At 8 a.m.,l.m.t.,I set off 39°50'N.on lat. arc,9°16'N.on decl.arc,and determine a meridian with the solar at the meander cor.of fracl.secs.27 and 28

Thence I run with meanders in sec.28.

Over rocky beach,ascending.

S.77°00'W., 9.00 chs. Bank 15 ft.high,

N.86°00'W.,33.00 " Along face of cliffs,100 ft.high.

N.53°30'W., 1.00 " Leave rocky land,enter bottom land and dense undergrowth.

4.00 " To meander cor.of fracl.secs. 21 and 28.

Land,mountainous and level.

Soil,rocky,3rd.and 4th.rate.

No timber.

Undergrowth, willows.

Mountainous land or land covered with dense undergrowth on 46.00 chs.

MEANDERS, T.11 S.,R.18 E.

Thence in sec.21.

Through dense undergrowth and scattering timber.

N.53°30'W., 43.70 chs., Bank 6 ft.high,

To meander cor.of fracl.secs.

20 and 21.

Land,level.

Soil,loam,1st.rate.

Timber, cottonwood.

Land covered with dense undergrowth on 43.70 chs.

April 14: At this cor.I set off 9°19'N.on,decl.arc,and at 12 M., observe the sun on the meridian,the resulting lat.is 39°51'N.

Thence in sec.20.

Through dense undergrowth and scattering timber.

N.50°00'W., 9.40 chs., bank 6 ft.high.

N.19°00'W., 8.00 "

N.18°30'E., 5.00 "

N.29°00'E., 4.00 "

N.21°30'E., 3.00 "

N.36°15'E., 3.00 "

N.77°00'E., 3.50 " To meander cor.of fracl.secs.

20 and 21.

Land,level.

Soil,loam,1st.rate.

Timber, cottonwood.

Land covered with dense undergrowth on 35.90 chs.

Meanders in sec.21.

Along sandy beach.

S.85°00'E.,15.00 chs., Bank 6 ft.high.

N.88°00'E., 6.00 " Enter dense undergrowth and

scattering timber.

MEANDERS, T.11 S., R.18 E.

N.89°00'E., 5.00 chs.

N.66°30'E., 5.20 "

N.50°30'E., 8.80 "

N.39°30'E., 13.50 "

N.41°30'E., 6.80 "

N.31°30'E., 4.70 ", To meander cor. of fracl. secs. 16 and 21.

Land, level.

Soil, loam, 1st. rate.

Timber, cottonwood.

Undergrowth, greasewood and willows.

Land covered with dense undergrowth on 40.20 chs.

Thence in sec. 16.

Ascend over rocky beach, through scattering timber.

N.26°30'E., 31.40 chs. Bank 15 ft. high. Leave timber.

N.14°15'E., 10.30 "

N.18°00'E., 9.50 " Enter dense undergrowth.

N.28°00'E., 15.80 chs. To meander cor. of secs. 15 and 16.

Land rolling.

Soil, rocky, 3rd. rate.

Timber, cottonwood.

Undergrowth, greasewood.

Land covered with dense undergrowth on 15.80 chs.

April 14, 1910.

April 15: At 8 a.m., l.m.t., I set off 39°52'N. on lat. arc 9°37'N. on decl. arc, and determine a meridian with the solar at the meander cor. of fracl. secs. 15 and 16.

Thence I run with meanders in sec. 15.

Through dense undergrowth.

N.50°00'E., 4.00 chs.

N.78°00'E., 12.00 "

N.64°00'E., 13.00 "

East, 22.00 " Enter scattering timber.

MEANDERS, T.11 S.,R.18 E.

N.82°45'E.,20.70 chs.

N.86°00'E.,11.00 " To meander cor.of fracl.secs. 14 and 15.

Land,level.

Soil,loam,1st.rate.

Timber,cottonwood.
Undergrowth,greasewood and willows.
Land covered with dense undergrowth on 82.70 chs.

Thence in sec.14.

Through dense undergrowth,and scattering timber.

N.77°37'E., 22.80 chs., Bank,6 ft.high.

To meander cor.of fracl.secs. 11 and 14.

Land,level.

Soil,loam,1st.rate.

Timber, cottonwood.

Undergrowth,willows.

Land covered with dense undergrowth on 22.80 chs.

Thence in sec.11.

Through dense undergrowth and scattering timber.

N.87°00'E.,30.00 chs. Bank 6 ft.high.

N.88°00'E., 7.00 "

N.75°00'E., 7.00 "

N.62°00'E., 8.00 "

N.51°00'E., 9.00 " To meander cor.of fracl.secs. 11 and 12.

Land,level.

Soil,loam,1st.rate.

Timber,cottonwood.

Undergrowth,willows.

Land covered with dense undergrowth on 61.00 chs.

April 15: At this cor.I set off 9°40'N.on decl.arc, and at 12 M.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°52'N.

MEANDERS, T.11 S.,R.18 E.

Thence in sec.12.

Through dense undergrowth and scattering timber.

N.41°00'E., 11.00 chs. Bank 6 ft.high.

N.34°00'E., 23.00 "

N.11°00'E., 15.00 "

N.4°00'E., 13.00 "

N.9°00'W., 12.00 " To meander cor.of fracl.secs. 1 and 12.

Land,level.

Soil,loam,1st.rate.

Timber, cottonwood.

Land covered with dense undergrowth on 74.10 chs.

Thence in sec.1.

Through dense undergrowth and scattering timber.

N.9°00'W., 11.00 chs.

N.42°00'W.,17.00 " Leave timber.

N.47°45'W.,12.00 " To meander cor.of fracl.secs. 1 and 2.

Land,level.

Soil,loam,1st.rate.

Timber,cottonwood.

Land covered with dense undergrowth on 38.00 chs.

Meanders in sec.2.

Through dense undergrowth.

N.71°00'W.,12.00 chs. Bank 7 ft.high.

N.62°00'W.,15.00 "

N.17°00'W.,14.00 "

N.1°15'W., 20.20 chs.

N.55°00'W., 7.00 " To stan meander cor.of fracl.sec. 35,T.10 S.,R.18 E.

BOOK A-372

MEANDERS, T.11 S.,R.18 E.

Land,level.

Soil,loam,lat.rate.

No timber.

Undergrowth,greasewood and willows.

Land covered with dense undergrowth on 69.66 chs.

April 15, 1910

BOUNDARIES OF T.11 S.,R.18 E.

Latitudes,departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
Meanders.		Chs.	Chs.	Chs.	Chs.	Chs.
Sec.34	N.58°00'E.	29.70	15.74		25.19	
	N.38°30'E.	3.40	2.66		2.12	
	N.25°00'E.	6.00	5.44		2.54	
	N.18°00'E.	5.10	4.85		1.58	
	N.41°30'E.	24.00	17.97		15.90	
Sec.35	N.30°30'E.	27.70	23.87		14.06	
	N.18°30'E.	10.00	9.48		3.17	
Sec.26	N.1° 30'E.	8.70	8.70		0.23	
	N.2°00'E.	20.40	20.39		0.71	
	N.4°00'W.	14.00	13.97			0.98
	N.16°30'W.	7.50	7.19			2.13
	N.25°45'W.	6.80	6.12			2.95
	N.33°00'W.	6.20	5.20			3.38
	N.52°30'W.	4.00	2.44			3.17
	N.69°00'W.	5.90	2.11			5.51
Sec.27	N.74°00'W.	3.00	0.83			2.88
	N.71°30'W.	6.60	2.09			6.26
	N.68°30'W.	3.10	1.14			2.88
	N.70°00'W.	4.10	1.40			3.85
	N.68°00'W.	9.10	3.41			8.43
	N.79°00'W.	4.80	0.91			4.71
	N.72°30'W.	9.30	2.80			8.87
	N.75°30'W.	4.50	1.13			4.36
Sec.22	N.81°00'W.	6.60	1.03			6.52
	S.86°00'W.	15.00		1.05		14.96
Sec.27	S.80°50'W.	16.51		2.63		16.30
Sec.28	S.77°00'W.	9.00		2.02		8.77
	N.86°00'W.	33.00	2.30			32.92
	N.53°30'W.	4.00	2.38			3.22
Sec.21	N.53°30'W.	43.70	26.00			35.13
Sec.20	N.50°00'W.	9.40	6.04			7.20
	N.19°00'W.	8.00	7.56			2.60
	N.18°30'E.	5.00	4.74		1.59	
	N.29°00'E.	4.00	3.50		1.94	
	N.21°30'E.	3.00	2.79		1.10	
	N.36°15'E.	3.00	2.42		1.77	
	N.77°00'E.	3.50	0.79		3.41	
Sec.21	S.85°00'E.	15.00		1.31	14.94	
	N.88°00'E.	6.00	0.21		6.00	
	N.89°00'E.	5.00	0.09		5.00	
	N.66°30'E.	5.20	2.07		4.77	
	N.50°30'E.	8.80	5.60		6.79	
	N.39°30'E.	13.50	10.42		8.59	
	N.41°30'E.	6.80	5.09		4.51	
	N.31°30'E.	4.70	4.01		2.46	
Sec.16	N.26°30'E.	31.40	28.10		14.01	
	N.14°15'E.	10.30,	9.98		2.53	
	N.18°00'E.	9.50	9.03		2.94	
	N.28°00'E.	15.80	13.95		7.42	
Sec.15	N.50°00'E.	4.00	2.57		3.06	
	N.78°00'E.	12.00	2.49		11.74	
	N.64°00'E.	13.00	5.70		11.68	
	East	22.00			22.00	
	N.82°45'E.	20.70	2.61		20.53	
	N.86°00'E.	11.00	0.77		10.97	
Sec.14	N.77°37'E.	22.80	4.89		22.27	
Sec.11	N.87°00'E.	30.00	1.57		29.96	
	N.88°00'E.	7.00	0.24		7.00	
	N.75°00'E.	7.00	1.81		6.76	
	N.62°00'E.	8.00	3.76		7.06	
	N.51°00'E.	9.00	5.66		6.99	
	Totals		340.02	7.01	315.29	187.98

BOUNDARIES OF T.11 S.,R.18 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
Brought Forward			340.02	7.01	315.29	187.98
Meanders,cont.						
Sec.12	N.41°00'E.	11.00	8.30		7.22	
	N.34°00'E.	23.00	19.07		12.86	
	N.11°00'E.	15.00	14.72		2.86	
	N.4° 00'E.	13.00	12.97		0.91	
	N.9° 00'W.	12.00	11.85			1.88
Sec.1	N.9°00'W.	11.00	10.86			1.72
	N.42°00'W.	17.00	12,63			11.38
	N.47°45'W.	12.00	8.07			8.88
Sec.2	N.71°00'W.	12.00	3.91			11.35
	N.62°00'W.	15.00	7.04			13.24
	N.17°00'W.	14.00	13.39			4.09
	N.1° 15'W.	20.20	20.20			0.45
	N.55°00'W.	7.00	4.02			5.73
2nd.Stan.Par.S.	West	365.03				365.03
W.Bdy.	South	479.83		479.83		
S.Bdy.	East	272.69			272.69	
Convergency						0.40
	Totals,		487.05 486.84	486.84	611.83	612.13 611.83
	Error in lat.and dep.		0.21			0.30

GENERAL DESCRIPTION.

This fractional township is all that portion of T.11 S., R.18 E.,which falls on the west side of Green River,the surface is rocky and mountainous and cut by many hollows which drain into Green River or into Nine Mile Canyon, which also drains into Green River.

The soil is generally shale or sandstone ledges and is unfit for any purpose with the exception of the bottom land along the bottom of Nine Mile Canyon and along Green River.

These bottom lands are a rich loam covered with a dense growth of undergrowth and scattering timber and is capable of producing crops with irrigation.

The bottoms along Green River are about 6 or 8 ft.above high water.

The only timber in the township is a scattering growth of cottonwoods along the stream or river.

GENERAL DESCRIPTION OF T.11 S.,R.18 E.

The only water running through the fractional portion of this township is Minnie Maud Creek in the bottom of Nine Mile Canyon,which runs into Green River.
This is a stream of pure water and is used for irrigating land along Green River.
Green River averages about 500 ft.wide and is a navigable river.
The only cultivated land in this township is in secs. 26,27 and 34, belonging to Preston Nutter.
Acres of land under cultivation, 75.
Value of improvements, $1000.00.
He has no residence upon the land.
There are no indications of coal, oil or mineral in this township.

Harvey D. Feist
U.S.Deputy Surveyor

Blank

Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

_____

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "W", *Chainman.*

T. 12 S., R. 17 E., *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____

_____

_____ of the _____

_____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

Subscribed and sworn to before me this _____ day of _____, 190

SEAL

_____

_____

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of deputy see book "W" T. 12 S., R. 17 E.

..... of the ..... meridian, in the ..... of ....., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....
United States Deputy Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 190

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 21, 1911

The foregoing field notes of the survey of the subdivisional lines of Township No. 11 South Range No. 18 East of the Salt Lake Base and Meridian, Utah,

executed by their Harvey D. Heist and Walter A. Stumm under his contract No. 312, dated March 27, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....
United States Surveyor General.

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

.....
United States Surveyor General.

Blank

Page

Blank

Page

"U"
4—679.

BOOK A-372

FILED
DEC 15 1910

M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO.12 SOUTH, RANGE NO.18 EAST,

Of the Salt Lake Base and *Meridian,*

In the State of Utah

AS SURVEYED BY

Harvey D.Heist and Walter A.Stumm, *United States Deputy Surveyor,*s

Under his Contract No. 312, *dated* March 27, *1909*

Survey commenced April 16, *1910*

Survey completed April 19, *1910*

6—161

5-76-25
6-26-00 Meandered

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Lionel Babcock,	Chainman
Jack Barker,	"
Floyd Hume,	Moundman
Will Carlisle,	"
Will Light,	Axman
George Walkup,	Flagman

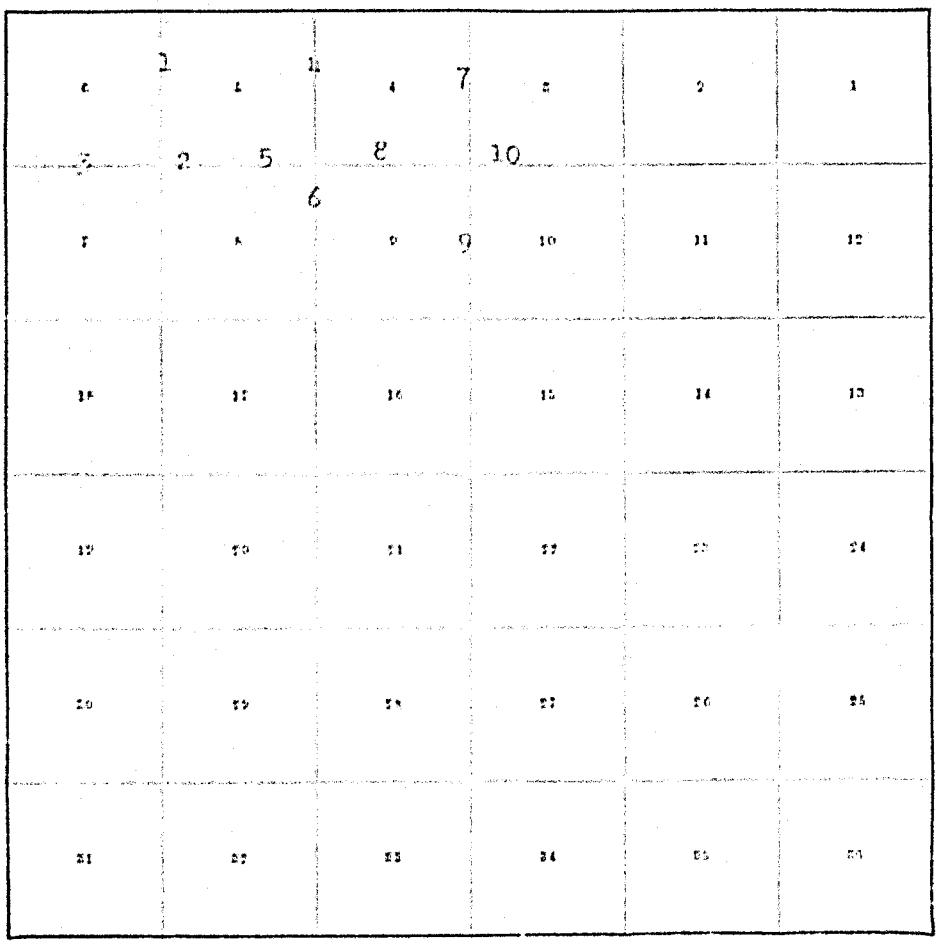
For preliminary affidavits see book "S" T. 11 S., R. 17 E.

6—161

BOOK A-372

INDEX DIAGRAM.

Township 12 South, , *Range* 18 East



Meanders Page 11, 12 and 13

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tha
we will report the true distances to all notable objects, and the true lengths of all lines that we assist i
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey o
.....

..... *Chainman*

..... *Chainman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

.....

.....

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishmen
of corners, according to the instructions given us, to the best of our skill and ability, in the survey o
.....

..... *Moundman*

..... *Moundman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

.....

.....

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner
and other duties, according to instructions given us, to the best of our skill and ability, in the survey o
.....

..... *Axman*

..... *Axman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

.....

.....

I, ..., do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
survey of .....

..... *Flagman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

.....

.....

BOOK A-372

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	Survey commenced , April 16, 1910, and executed with the instrument described in book "A",of this survey.
	I begin at the cor.of secs.5-6-31 and 32,heretofore described on the N.bdy.of the Tp.
	I know from recent observations made March 31 and April 1, 1910, at the above cor.and described in book "S",of this survey that the instrument is in adjustment.
	At 8 a.m.,l.m.t.,I set off 39°49'N.on lat.arc,9°59'N. on decl.arc,and determine a meridian with the solar,
	Thence I run
	S.0°01'W.,on a true line,
	Bet.secs.5 and 6.
	Abrupt ascent over broken sandstone ledges.
8.20	Top of abrupt ascent,bears NE.and SW.
	Over level land,on top of Horse Bench,through sparse undergrowth.
19.62	A distance equal to the N.½ of the W.bdy.of sec.6.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.marked on brass cap,¼ S 6 on W. half,S 5 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
25.50	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
55.00	Hollow,800 ft.below ¼ sec.cor.,course SE.
	Ascend.
59.62	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.5-6-7 and 8,marked on brass cap,T 12 S S 6 in NW.,
	R 18 E S 5 in NE.,
	S 8 in SE.and S 7 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground,
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 42.32 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 42.32 chs.
	East,on a true line, bet.secs.5 and 8.
	Descend over rocky and mountainous land.
2.00	Hollow;400 ft.deep,course SE.
	Abrupt ascent over solid sandstone ledges.
3.00	Top of sandstone spur, 400 ft.above hollow, projects S.
	Abrupt descent over solid sandstone.
6.00	Foot of sandstone ledges,bearing N.and S.
	Descend over rocky land.
6.90	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.5 and 8,marked on brass cap,T 12 S R 18 E on N.half,and S 5 S 8 MC on W.half,and raise a mound of stone, 2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 6.90 chs.
	April 16: At this cor.I set off 10°02'N.on decl.arc, and at 12 M., l.m.t.,observe the sun on the meridian, the resulting lat.is 39°48'N.

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	West, on a random line,bet.secs.6 and 7.
40.00	Set temp.¼ sec.cor.
80.10	Intersect W.bdy.of Tp.,5 lks.N.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	N.89°58'E.,on a true line,
	Bet.secs.6 and 7.
	Abrupt ascent over rocky and mountainous land.
6.30	Top of perpendicular sandstone ledges,100 ft.high, bears N.and S.
	Over level land on top of Horse Bench,through sparse undergrowth.
28.40	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
37.00	Hollow,300 ft.below top of bench,course NE.
	Ascend along steep north slope.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.marked on brass cap,¼ S 6 on N. half and S 7 on S.half,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
48.00	Spur,projects NE.
	Abrupt descent over sandstone ledges.
63.00	Hollow,600 ft.deep,course SE.
	Abrupt ascent over sandstoneledges.
68.00	Sandstone spur,projects S.
	Abrupt descent over sandstone ledges.
71.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
77.00	Sandstone spur,projects SE.
	Abrupt descent.
80.10	The cor.of secs.5-6-7 and 8, 1100 ft.below the top of Horse Bench.
	Land,mountainous and level.

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	Soil, rocky, 3rd. and 4th. rate on 58.00 chs.
	balance, sandy loam, 2nd. rate.
	No timber.
	Undergrowth, sage brush and bunch grass.
	April 16, 1910
	Note: The line running south bet. secs. 7 and 8, falls on the sandstone ledges which form the west side of Desolation Canyon of Green River, which runs southerly from south boundary of sec. 5 and leaves the township on the W. bdy. of sec. 30. On account of the perpendicular sandstone ledges, and box canyon, it is impossible to continue south by means of triangulation, offsets or any other method, I therefore return the west portion of this township as unsurveyable.
	April 17: At 8 a.m., l.m.t., I set off 39°49'N. on lat. arc, 10°20'N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 4-5-32 and 33, heretofore described on the N. bdy. of the Tp.
	Thence I run
	S. 0°01'W., on a true line,
	Bet. secs. 4 and 5.
	Abrupt descent over rocky and mountainous land.
2.50	Hollow, 150 ft. deep, course NE.
	Abrupt ascent.
6.60	Top of abrupt ascent, bears NE. and SW.
	Ascend.
19.62	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, ¼ S 5 on W. half, S 4 on E. half, and raise a mound of stone, 2 ft. base 1½ ft. high, W. of cor.
	Pits impracticable.

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
33.00	Ridge,bears NW.and SE.
	Abrupt descent.
39.00	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
55.00	Foot of sandstone ledges, 700 ft.below top of ridge, bearing NW.and SE.
	Descend along steep west slope.
58.00	Hollow,800 ft.below top of ridge,course W.
	Ascend along steep west slope.
59.62	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.4-5-8 and 9,marked on brass cap T 12 S S 5 in NW.,
	R 18 E S 4 in NE.,
	S 9 in SE.and S 8 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 59.62 chs.
	April 17: At this cor.I set off 10°23'N.on decl.arc, and at 12 M.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°48'N.
	West, on a true line, bet.secs.5 and 8.
	Abrupt descent over rocky and mountainous land.
14.00	Enter river bottom,bears N.and S.
	Over level land,through dense undergrowth.
18.00	Enter scattering timber,
18.79	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.5 and 8,marked on brass cap,T 12 S R 18 E on N.half,and
	S 5 S 8 M C on E.half, from which

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	A box elder,15 ins.diam.,bears S.67°E.,129 lks.dist.,marked T 12 S R 18 E S 8 M C BT.
	A box elder,5 ins.diam.,bears N.8°E.,36 lks. dist.,marked T 12 S R 18 E S 5 M C BT.
	Land,mountainous and bottom land.
	Soil,rocky, 3rd.and 4th.rate on 14.00 chs. balance, sandy loam,2nd.rate.
	Timber, box elder. Undergrowth,greasewood.
	Mountainous land or land covered with dense undergrowth on 18.79 chs.
	S.0°01'W.,bet.secs.8 and 9.
	Ascend over rocky and mountainous land,along steep west slope.
1.00	Spur,projects W.
	Descend.
3.50	Hollow,100 ft.deep,course W.
	Ascend.
7.00	Spur,projects W.
	Descend.
27.50	Hollow,75 ft.deep,course W.
	Ascend.
31.00	Spur,projects W.
	Descend.
33.00	Hollow,100 ft.deep,course W.
	Abrupt ascent.
37.00	Spur,projects W.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ½ sec.cor.,marked on brass cap,¼ S 8 on W. half,S 9 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
40.25	Hollow,50 ft.deep,course W.
	Ascend.
43.00	Spur,projects W.
	Abrupt descent.
53.30	To right bank of Green River.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.8 and 9,marked on brass cap,T 12 S R 18 E on S.half,and S 8 S 9 M C on N.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 53.30 chs.
	April 17, 1910

	April 18: At 7h.59m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc,10°41'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34, heretofore described.
	Thence I run
	S.0°02'W.,bet.secs.3 and 4.
	Descend over rocky and mountainous land along steep west slope.
2.00	Begin abrupt descent over solid sandstone ledges, bearing NE.and SW.
16.20	Foot of ledges, 700 ft.below sec.cor.,bearing NE.and SW.
	Descend along steep,rocky east slope.
19.62	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on W. half,S 3 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	Pits impracticable.
27.00	Foot of descent.
	Begin ascent over steep rocky east slope.
34.00	Begin abrupt ascent over sandstone ledges,bearing NW.and SE.
47.30	Top of ledges, bearing NW.and SE.
	Ascend.
49.15	Ridge,bears NW.and SE.
	Descend.
55.00	Hollow,75 ft.deep,course SE.
	Ascend.
58.00	Spur,projects E.
	Descend.
59.62	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for cor.of secs.3-4-9 and 10,marked on brass cap
	T 12 S S 4 in NW.,
	R 18 E S 3 in NE.,
	S 10 in SE.and S 9 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 59.62 chs.
	West,on a random line,bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line,7 lks.N.of the cor.of secs. 4-5-8 and 9.
	Thence I run
	N.89°57'E.,on a true line,
	Bet.secs.4 and 9.
	Ascend abruptly over rocky and mountainous land.
6.00	Begin abrupt ascent over sandstone ledges,bearing NW. and SE.

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
17.25	Top of ledges,bearing NW.and SE.
	Ascend along steep south slope.
31.00	Ridge,bears NW.and SE.
	Descend.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on N. half,S 9 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
47.15	Begin abrupt descent over sandstone ledges,bearing N. and S.
58.00	Hollow,600 ft.deep,course S.
	Abrupt ascent over sandstoneledges.
67.00	Spur,projects S.
	Descend.
69.00	Head of hollow,course SW.
	Ascend.
77.00	Spur,projects S.
	Descend.
80.08	The cor.of secs.3-4-9 and 10.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.08 chs.
	April 18: At this cor.I set off 10°44'N.on decl.arc,and at 11h.59m.a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°48'N.
	S.0°02'W.,bet.secs.9 and 10.
	Descend over rocky and mountainous land.
12.50	Begin descent over sandstone ledges,bearing E.and W.
18.44	To bank of Green River,500 ft.below sec.cor.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.9 and 10,marked on

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS

brass cap,T 12 S R 18 E on S.half,
S 9 S 10 M C on N.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
Pits impracticable.
Land,mountainous.
Soil,rocky,3rd.and 4th.rate.
No timber.
Mountainous land on 18.44 chs.

East,on a true line,bet.secs.3 and 10.
Descend over rocky and mountainous land.
7.50 Hollow,75 ft.deep,course SE.
Ascend.
15.00 Spur,projects SE.
Descend.
19.60 Begin abrupt descent over sandstone ledges,bearing NW.and SE.
39.78 To right bank of Green River,500 ft.below sec.cor.
Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for meander cor.of fracl.secs.3 and 10,marked on brass cap,T 12 S R 18 E on N.half,and
S 3 S 10 M C on W.half,from which
A box elder,5 ins.diam.,bears S.61°E.,16 lks. dist.,marked T 12 S R 18 E S 10 M C BT.
No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
Pits impracticable.
Land,mountainous.
Soil,rocky,3rd.and 4th.rate.
Timber,scattering box elders along river.
Mountainous land on 39.78 chs.

April 18, 1910

MEANDERS in T.12 S.,R.18 E.

April 19: At 7h.59m.,a.m.,l.m.t.,I set off 39°48'N.on lat.arc,11°02'N.on decl.arc,and determine a meridian with the solar at the meander cor.of fracl.secs.5 and 8, thence I run with meanders of the right bank of Green River, up stream, in sec.5.

Over steep,rocky bank, 10 ft.high.

N.1°00'E.,3.40 chs.,

N.26°00'E.,2.80 "

N.38°15'E.,7.00 "

N.47°00'E.,7.50 "

N.58°00'E.,8.00 "

N.47°30'E.,5.00 "

N.77°00'E.,7.40 "

N.82°30'E. 9.60 "

S.72°45'E. 5.90 "

S.55°30'E. 6.00 "

S.61°00'E. 5.20 " Leave rocky beach,along sandy beach.

S.18°00'E. 6.00 " Enter dense undergrowth and scattering timber.

S.4°30'W. 13.70 " To meander cor.of fracl.secs.5 and 8.

Land,rolling.

Soil,rocky,3rd.rate on 67.80 chs.

balance,sandy,2nd.rate.

Timber, box elders.

Undergrowth,willows.

Land covered with dense undergrowth on 13.70 chs.

Thence in sec.8.

Through dense undergrowth and scattering timber.

S.11°00'W.,15.60 chs. Bank 10 ft.high.

S.6°00'W. 20.00 "

S.32°00'E. 13.00 "

S.63°30'E. 8.90 "

S.72°00'E. 7.20 "

S.67°30'E. 2.30 " To meander cor.of fracl.secs.8 and 9

MEANDERS, T.12 S.,R.18 E.

Land,level.

Soil,loam,1st.rate.

Timber, box elder.

Undergrowth,willows.

Land covered with dense undergrowth on 67.00 chs.

In sec.9.

Along rocky beach.

S.88°00'E.,18.00 chs. Bank,12 ft.high.

N.72°30'E. 4.30 " Bank 20 ft.high.

N.54°00'E. 17.00 " Bank 10 ft.high.

N.46°30'E. 7.70 "

N.49°00'E. 17.40 "

N 70°00'E. 20.40 "

N.85°00'E. 6.00 " To meander cor.of fracl.secs. 9 and 10.

Land,rolling.

Soil,rocky,3rd.and 4th.rate.

No timber.

April 19: At this cor.I set off 11°05'N.on decl.arc, and at 11h.59m a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°48'N.

Thence in sec.10.

Along rocky beach,through dense undergrowth.
S.78°00'E.13.00 chs. Bank,12 ft.high.

S.38°30'E.16.00 " Leave rocky beach,along sandy beach.

S.41°00'E.20.00 "

S.59°00'E.10.80 "

S.65°45'E. 5.60 "

S.72°00'E. 8.50 "

S.87°45'E. 9.20 " Enter scattering timber.

N.67°45'E. 4.60 "

N.52°00'E. 6.00 "

N.27°00'E. 4.20 "

MEANDERS, T.12 S.,R.18 E.

CHAINS

N.9°30'E., 9.00 chs.
N.6°30'W. 7.40 "
N.18°30'W. 7.00 "
N.36°00'W.21.00 "
N.58°30'W.10.40 "
N.67°30'W. 9.10 " Enter rocky land.
N.78°00'W. 7.50 ", To meander cor.fracl.secs.3 and 10.
Land,level.
Soil,rocky,3rd.rate on 36.50 chs.
balance, sandy loam, 1st.rate.
Timber,box elder and cottonwood.
Undergrowth,willows.
Land,covered with dense undergrowth on 169.30 chs.

In sec.3.
Over rocky land,through dense undergrowth.
N.66°00'W. 21.00 chs. Bank, 10 ft.high.
N.55°00'W. 7.00 "
N.44°00'W. 7.00 "
N.31°30'W. 5.20 "
N.26°30'W. 4.60 "
N.16°30'W. 6.40 "
N.5°00'W. 3.30 "
N.29°00'E. 6.60 " Leave rocky land,over sandy loam.
N.49°00'E. 12.00 "
N.53°00'E. 7.00 "
N.62°00'E. 13.30 " To meander cor.of fracl.secs.3 and
Land,level. 34,on N.bdy.of Tp.
Soil,rocky,3rd.rate on 61.10 chs.
balance,sandy loam,1st.rate.
No.timber.
Undergrowth, willows.
Land covered with dense undergrowth on 93.40 chs.

April 19, 1910.

BOUNDARIES OF T.12 S.,R.18 E.
LATITUDES,DEPARTURES AND CLOSING ERRORS

Line designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
anders in		Chs.	Chs.	Chs.	Chs.	Chs.
c.5	N.1°00'E.	3.40	3.40		0.06	
	N.26°00'E.	2.80	2.52		1.23	
	N.38°15'E.	7.00	5.50		4.33	
	N.47°00'E.	7.50	5.11		5.48	
	N.58°00'E.	8.00	4.24		6.78	
	N.47°30'E.	5.00	3.38		3.69	
	N.77°00'E.	7.40	1.66		7.21	
	N.82°30'E.	9.60	1.24		9.51	
	S.72°45'E.	5.90		1.75	5.64	
	S.55°30'E.	6.00		3.40	4.94	
	S.61°00'E.	5.20		2.52	4.55	
	S.18°00'E.	6.00		5.71	1.85	
	S.4°30'W.	13.70		13.66		1.07
c.8	S.11°00'W.	15.60		15.31		2.98
	S.6°00'W.	20.00		19.89		2.09
	S.32°00'E.	13.00		11.02	6.89	
	S.63°30'E.	8.90		3.97	7.96	
	S.72°00'E.	7.20		2.22	6.85	
	S.67°30'E.	2.30		0.88	2.12	
c.9	S.88°00'E.	18.00		0.63	17.99	
	N.72°30'E.	4.30	1.29		4.10	
	N.54°00'E.	17.00	9.99		13.75	
	N.46°30'E.	7.70	5.30		5.59	
	N.49°00'E.	17.40	11.41		13.13	
	N.70°00'E.	20.40	6.98		19.17	
	N.85°00'E.	6.00	0.52		5.98	
c.10	S.78°00'E.	13.00		2.70	12.72	
	S.38°30'E.	16.00		12.52	9.96	
	S.41°00'E.	20.00		15.09	13.12	
	S.59°00'E.	10.80		5.56	9.25	
	S.65°45'E.	5.60		2.30	5.11	
	S.72°00'E.	8.50		2.63	8.08	
	S.87°45'E.	9.20		0.36	9.20	
	N.67°45'E.	4.60	1.74		4.26	
	N.52°00'E.	6.00	3.69		4.73	
	N.27°00'E.	4.20	3.74		1.91	
	N.9°30'E.	9.00	8.88		1.49	
	N.6°30'W.	7.40	7.36			0.84
	N.18°30'W.	7.00	6.64			2.22
	N.36°00'W.	21.00	16.99			12.34
	N.58°30'W.	10.40	5.43			8.87
	N.67°30'W.	9.10	3.48			8.40
	N.78°00'W.	7.50	1.56			7.34
c.3.	N.66°00'W.	21.00	8.54			19.18
	N.55°00'W.	7.00	4.02			5.73
	N.44°00'W.	7.00	5.04			4.86
	N.31°30'W.	5.20	4.43			2.71
	N.26°30'W.	4.60	4.12			2.05
	N.16°30'W.	6.40	6.13			1.81
	N.5°00'W.	3.30	3.29			0.29
	N.29°00'E.	6.60	5.77		3.20	
	N.49°00'E.	12.00	7.87		9.06	
	N.53°00'E.	7.00	4.21		5.59	
	N.62°00'E.	13.30	6.24		11.74	
rth Bdy.	West	272.69				272.69
st Bdy.	South	59.62		59.62		
t.secs.6 &	7,N.89°58'E.	80.10	0.05		80.10	
" 5 "	8 East	6.90			6.90	
nvergency						0.05
	Totals		181.77	181.73	355.22	355.52
			181.73			355.22
	Error in lat.		0.04	Error in dep.		0.30

GENERAL DESCRIPTION OF T.12 S.,R.18 E.

This fractional township is that portion of T.12 S.,R. 18 E.,which falls on the west side of Green River and is extremely broken and rugged,the higher portions being about 1100 ft.above the river.

Horse Bench a high plateau ,covered with a sparse growth of sage brush and bunch grass is located in secs.5 and 6, from this bench the country drops over sandstone ledges to the river.

The only agricultural land in this township is the bottom land along Green River in secs.3,5,8 and 10, aggregating about 100 acres.

The balance of the township with the exception of Horse Bench is rocky and unfit for any purpose.

In sec.5 Green River which has a width of about 500 feet narrows in to a gorge about 400 ft.wide ,with perpendicular sandstone ledges on the sides ranging from 200 to 700 ft.high,which are cut by box canyon from the west, this gorge is known as Desolation C anyon. In this canyon, the water washes the foot of the ledges in many places and the meander line along the waters edge is impossible, while a line along ~~along~~ the top of the rim of the canyon is impossible on account of impassable box canyons.

Green River runs through secs.7-8-18 and 19 and leaves the township in sec.30.

On account of the impassable character of the country I report that portion of this township falling in secs. 7,8,18,19 and 30 as unsurveyable.

The only land under cultivation in this township is about 10 acres in the north end of sec.3, belonging to Preston Nutter's claim described in the General Description of T.11 S.,R.18 E.

The only timber in this township is box elders and cottonwoods along the river bank.

GENERAL DESCRIPTION OF T.12 S.,R.18 E.

No trace could be found of the desert entries of Bernard Murray and Thomas Lane, from information received on the ground it is probable that their location is in the bottom of Nine Mile Canyon in T 11 S.,R.18 E., but no improvements were found during the survey of that township so that they could be located.

These men are not living in this vicinity.

There are no indications of oil,coal or mineral found in this township.

Harvey M. Hirst
U.S.Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ _____ showing the respective capacities in which they acted:

_____, *Chainman.*

For list of names and final oath of assistants see book "W", *Chainman.*

T. 12 S., R. 17 E., *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ _____ _____ of the _____ _____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

Subscribed and sworn to before me this _____ day of _____, 190

SEAL

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of deputy see book "W" T. 12 S., R. 17 E.

_____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

_____

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me this _____ day of _____, 190

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 21, 1911

The foregoing field notes of the survey of the Subdivisional lines of Township No. 12 South, Range No. 18 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Walter A. Stumm under his contract No. 312, dated March 27, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

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

_____

United States Surveyor General.

4—131

Blank

Page

Blank

Page

4—679.

"V."

BOOK A-372

FILED
DEC 17 1910

M.103.

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY

of

TOWNSHIP NO. 12 SOUTH, RANGE 17 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Walter A. Stumm, *United States Deputy Surveyors*

Under ~~his~~ their Contract No. 312, *dated* March 27, 1909

Survey commenced April 20, 1910

Survey completed April 21, 1910

6—101

3 59-62

NAMES AND DUTIES OF ASSISTANTS.

Lionel Babcock,	Chainman
Jack Barker,	"
Floyd Hume,	Moundman
Will Carlisle,	"
Will Light,	Axman
George Walkup,	Flagman

BOOK A-372

INDEX DIAGRAM.

Township 12 South, *Range* 17 East

2	6	5	4	3	2	1
3	7	8	9	10	11	12
4	18	17	16	15	14	13
5	19	20	21	22	23	24
	30	29	28	27	26	25
	31	32	33	34	35	36

Meanders Page

BOOK A-372

PRELIMINARY OATHS OF ASSISTANTS.

We, Lionel Babcock and Jack Barker do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of W.bdy.of T.12 S.,R.17 E.,S.L.B.& M.,in the state of Utah

Lionel Babcock, *Chainman.*

Jack Barker, *Chainman.*

Subscribed and sworn to before me this 20th. day of April, 1900

SEAL

Harvey L. First
U.S.Deputy Surveyor

We, Floyd Hume, and Will Carlisle, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of W.bdy.of T.12 S.,R.17 E.,S.L.B.& M.,in the state of Utah.

Floyd Hume, *Moundman.*

Will Carlisle, *Moundman.*

Subscribed and sworn to before me this 20th. day of April, 1900

SEAL

Harvey L. First
U.S.Deputy Surveyor

~~We,~~ I, Will Light, ~~and~~ do solemnly swear that ~~I~~ will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the W.bdy.of T.12 S.,R.17 E.,S.L.B.& M.,in the state of Utah.

Will Light, *Axman.*

, *Axman.*

Subscribed and sworn to before me this 20th. day of April, 1900

SEAL

Harvey L. First
U.S.Deputy Surveyor

I, George Walkup, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the W.bdy.of T.12 S.,R.17 E.,S.L.B.& M.,in the state of Utah.

George Walkup *Flagman.*

Subscribed and sworn to before me this 20th. day of April, 1900

SEAL

Harvey L. First
U.S.Deputy Surveyor

6—151

WEST BOUNDARY OF T.12 S.,R.17 E.

CHAINS

Survey commenced,April 20, 1910, and executed with the instrument described in book "A",of this survey.
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 Tps.11 and 12 S., Rs.16 and 17 E.,her etofore described,in approximate latitude 39°49'N., longitude 110°06'W., I set off 39°49'N.on lat.arc, 11°30m.,N.on decl.arc,and at 3h.59m.,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.

April 20, 1910

April 21: At 5h.36m.,a.m.,l.m.t.,I observe Polaris at eastern 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 the cor.
At 7 a,m.,I lay off the azimuth of Polaris,1°32'to the west,and mark the meridian thus determined,by cutting a small groove in the stone set last evening,on which the meridian falls 0.3 ins.east of the mark determined by the soaar.
At 7h.59m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc, 11°43'N.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.3 ins.east of the meridian established by the Polaris observation.
The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'16" west

WEST BOUNDARY OF T.12 S.,R.17 E.

CHAINS	
	and east 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.30m. a.m. is N.16°10'W., the angle thus determined gives the mag.decl.16°10'E.
	From the Tp.cor.already described, I run
	South, bet.secs.1 and 6.
	Ascend abruptly over rocky and mountainous land.
7.50	Top of abrupt ascent bears NE.and SW.
	Ascend.
15.00	Enter scattering timber.
19.62	A distance equal to the length of the north end of the line bet.secs.1 and 6 on the W.bdy.of T.12 S.,R.16 E.
	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for ¼ sec.cor., marked on brass cap, ¼ S 1 on W. half, S 6 on E.half, from which
	A pinon, 6 ins.diam., bears S.33°W., 42 lks.dist., marked ¼ S 1 BT.
	A pinon, 5 ins.diam., bears N.55°E., 74 lks.dist. marked ¼ S 6 BT.
26.57	Wash, 15 lks.wide, 8 ft.deep, course NE.
59.62	Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for cor.of secs.1-6-7 and 12, marked on brass cap T 12 S on N.half,
	R 16 E S 1 in NW.,
	R 17 E S 6 in NE.,
	S 7 in SE.and S 12 in SW.quadrant, from which
	A pinon, 8 ins.diam., bears N.28°30"E., 42 lks. dist., marked T 12 S R 17 E S 6 BT.
	A pinon, 6 ins.diam., bears S.80°15'E., 88 lks. dist., marked T 12 S R 17 E S 7 BT.
	A pinon, 4 ins.diam., bears S.78°W., 40 lks.dist., marked T 12 S R 16 E S 12 BT.

WEST BOUNDARY OF T.12 S.,R.17 E.

CHAINS	
	A pinon,6 ins.diam.,bears N.56°45'W.,33 lks. dist.,marked T 12 S R 16 E S 1 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 59.62 chs.
	South bet secs.7 and 12.
	Ascend over rocky and mountainous land,through scattering timber.
12.50	Ridge,bears NW.and SE.
	Descend. Leave timber.
19.00	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
28.50	South Frank's Canyon,600 ft.deep,course NW.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 12 on W. half,S 7 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
59.00	Top of abrupt ascent,bears NW.and SE.
	Ascend.
74.50	Enter heavy timber,bears NE.and SW.
80.00	Top of ridge,bears NE.and SW.
	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.7-12-13 and 18,marked on brass cap,T 12 S on N.half,
	R 16 E S 12 in NW.,
	R 17 E S 7 in NE.,
	S 18 in SE.and S 13 in SW.quadrant,from which
	A pinon,7 ins.diam.,bears N.40°30'E., 39 lks. dist.,marked T 12 S R 17 E S 7 BT.

WEST BOUNDARY OF T.12 S.,R.17 E.

CHAINS	
	A pinon,5 ins.diam.,bears S.62°E., 28 lks.dist. marked T 12 S R 17 E S 18 BT.
	A pinon,6 ins.diam.,bears S.20°W., 55 lks.dist. marked T 12 S R 16 E S 13 BT.
	A pinon,7 ins.diam.,bears N.81°W., 32 lks.dist., marked T 12 S R 16 E S 12 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
	April 21: At this cor.I set off 11°46'N.on decl.arc, and at 11h.59m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°47'N.
	South,bet.secs.13 and 18.
	Descend over rocky and mountainous land along steep, east slope.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 13 on W. half,S 18 on E.half,from which
	A pinon,6 ins.diam.,bears S.6°30'E.,94 lks.dist. marked ¼ S 18 BT.
	A cedar,5 ins.diam.,bears S.10°W.,89 lks.dist., marked ¼ S 13 BT.
49.00	Junction of two hollows, from SW.and from S., form a hollow,200 ft.deep,course NE.
	Abrupt ascent, in bottom of hollow.
65.00	Leave hollow,course from SW.to N.
	Abrupt ascent along steep,west slope.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.13-18-19 and 24,marked on brass cap,T 12 S on N.half,
	R 16 E S 13 in NW.,
	R 17 E S 18 in NE.,

WEST BOUNDARY OF T.12 S.,R.17 E.

CHAINS	
	S 19 in SE.and S 24 in SW. quadrant,
	A pinon,5 ins.diam.,bears N.36°E.,44½ lks.dist., marked T 12 S R 17 E S 18 BT.
	A pinon,9 ins.diam.,bears S.29°E.,39 lks.dist., marked T 12 S R 17 E S 19 BT.
	A pinon,5 ins.diam.,bears S.49°W.,9 lks.dist., marked T 12 S R 16 E S 24 BT.
	A pinon,6 ins.diam.,bears N.60°W.,2½ lks.dist., marked T 12 S R 16 E. S 13. B T
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	South,bet.secs.19 and 24.
	Ascend abruptly over broken sandstone ledges,through scattering timber.
3.00	Top of abrupt ascent,150 ft.above the sec.cor.,bears E.and W.
	Over level land,through heavy timber.
6.25	Leave heavy timber,bears E.and W.
	Begin abrupt descent over sandstone ledges,though scattering timber.
35.00	Head of hollow, 200 ft.below level land,course SE.
	Ascend.
38.00	Spur,projects E.
	Descend.
40.00	In head of hollow,course E.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.marked on brass cap,¼ S 24 on W. half, S 19 on E.half,from which
	A pinon,5 ins.diam.,bears S.50°E.,40 lks.dist., marked ¼ S 19 BT.
	A pinon,15 ins.diam.,bears S.61°W., 21 lks.dist., marked ¼ S 24 BT.

WEST BOUNDARY OF T.12 S.,R.17 E.

CHAINS	
	Begin ascent along steep east slope over sandstone ledges.
72.75	Ridge,bears NW.and SE.
	Descend.
80.00	Set an iron post,3 ft.long,3 ins.dia.,in mound of stone and earth,for cor.of secs.19-24-25 and 30,marked on brass cap,T 12 S on N.half,
	R 16 E S 24 in NW.,
	R 17 E S 19 in NE.,
	S 30 in SE.and S 25 in SW.quadrant, from which
	A pinon,9 ins.diam.,bears N.69°E.,113 lks.dist., marked T 12 S R 17 E S 19 BT.
	A pinon,14 ins.diam.,bears S.11°E.,18 lks.dist., marked T 12 S R 17 E S 30 BT.
	A pinon,11 ins.diam.,bears S.86°W.,50 lks.dist., marked T 12 S R 16 E S 25 BT.
	A pinon,10 ins.diam.,bears N.86°W.,46 lks.dist., marked T 12 S R 16 E S 24 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.

April 21, 1910

Note:

From the cor.of secs.19-24-25 and 30 the line running south bet.secs.25 and 30 ,the line runs over the rim of the Green River breaks at a distance of 7.50 chs.

This is a perpendicular sandstone ledge, 100 ft.high,bearing E.and W.

Continuing south,the line runs over box canyons draining in a southeasterly direction and a series of impassable sandstone ledges all being the

breaks on the north side of Jack Creek Canyon which joins Green River in sec.36.

On account of the rugged and precipitious nature of the country from this cor.south, I abandon the survey of the west bdy.of T.12 S.,R.17 E.,at the cor.of secs. 19-24-25 and 30.

For table of latitudes and departures and General Description,see Subdivisions of T.12 S.,R.18 E.

Harry H. Finch
U.S.Deputy Surveyor

Blank

Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D.Heist, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the W.bdy.of T.12 S.,R.17 E.,S.L.B.& M.,in the state of Utah showing the respective capacities in which they acted:

Lionel Babcock, *Chainman.*

Jack Barker, *Chainman.*

Floyd Hume, *Moundman.*

Will Carlisle, *Moundman.*

Will Light, *Axman.*

Axman.

George Walkup, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D.Heist, United States Deputy Surveyor, in surveying all those parts or portions of the W.bdy.of T.12 S.,R.17 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lionel Babcock, *Chainman.*

Jack Barker, *Chainman.*

Floyd Hume, *Moundman.*

Will Carlisle, *Moundman.*

Will Light, *Axman.*

Axman.

George Walkup, *Flagman.*

Subscribed and sworn to before me this 21st day of April, 1900

SEAL

Harvey D. Heist
U.S.Deputy Surveyor

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D.Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of the 27th. day of March, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the W.bdy.of T.12 S.,R.17 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Harvey D. Heist
United States Deputy Surveyor.

Subscribed by said Harvey D Heist, and sworn to before me this 22 day of Dec, 1910

Jerrold R Belcher Clerk
U.S. Dist Court Dist
Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov.21, 1911.

The foregoing field notes of the survey of the West Boundary of Township No.12 South, Range No.17 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D.Heist and Walter A.Stumm under their contract No. 312, dated March 27, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

United States Surveyor General.

6—151

Blank

Page

Blank

Page

227

4—679.

BOOK A-372

"W"

FILED
DEC 17 1910

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO.12 SOUTH, RANGE NO.17 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

rvey D.Heist and Walter A.Stumm, *United States Deputy Surveyors*

Under ~~his~~ their *Contract No.* 312, *dated* March 27, 1909

Survey commenced April 22, *1910*

Survey completed May 3, *1910*

6—151

42-49-81

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Lionel Babcock,	Chainman
Jack Barker,	"
Floyd Hume,	Moundman
Will Carlisle,	"
Will Light,	Axman
George Walkup,	Flagman

For preliminary affidavit see book "S" T. 11 S., R. 17 E.

6—151

BOOK A-372

INDEX DIAGRAM.

Township 12 South, *Range* 17 East,

6 37 5 39 38	27 4 28	19 3 20	10 2 11	2 1 3	
7 40 8 42 41	29 9 30	21 10 22	12 11 13	4 12 5	
18 43 17 45 46	31 16 32	23 15 23	14 14 15	6 13 7	
19 47 20 49 48	34 21 35	24 22 26	17 23 18	8 24 9	
30 29	28	27	26	25	
31 32	33	34	35	36	

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

.....

..... , *Chainman.*

..... , *Chainman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

.....

..... , *Moundman.*

..... , *Moundman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

.....

..... , *Axman.*

..... , *Axman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

..... , *Flagman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS

Survey commenced,April 22,1910, and executed with the instrument described in book "A",of this survey.

I examine the adjustments of thetransit 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.1-2-35 and 36,heretofore described on the N.bdy.of the Tp.,in approximate latitude 39°49'N. longitude 110°00'W., I set off 39°49'N.on lat.arc,12°10' N.on decl.arc,3h.59m.,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.

April 22,1910.

April 23: At 5h.28m.,a.m.,l.m.t.,I observe Polaris at eastern 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 the cor.

At 7 a.m.,l.m.t.,I lay off the azimuth of Polaris,1°32' to the west and mark the meridian thus determined,by cutting a small groove on the stone set last evening, on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 7h.58m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc, 12°24'N.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.3 ins.east of the meridian established by the Polaris observation.

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

BOOK A-372

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h.30m., a.m.,is N.16°10'W.,the angle thus determined gives the mag.decl. 16°10'E.
	Note: As the south boundary cannot be run on account of Green River running through a part of the southern portion and the balance being unsurveyable,I survey the subdivisions from north to south and from east to west according to Sec.149, Page 61 of the Manual.
	I begin at the cor.of secs.1-2-35 and 36,already described,and run
	S.0°01'E.,bet.secs.1 and 2.
	Over level land on top of Horse Bench,through sparse undergrowth.
11.00	Begin abrupt descent along steep east slope over broken sandstone ledges.
19.62	A distance equal to the north end of E.bdy.of sec.1. Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 2 on W. half,S 1 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
	Begin ascent along steep east slope.
23.00	Top of ascent,bears NW.and SE.
	Leave ledges, Over level land.on Horse Bench.
38.00	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
44.00	Hollow,250 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
51.75	Top of abrupt ascent,bears NE.and SW.
	Leave sandstone ledges, begin gradual ascent on Horse Bench.
59.62	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.1-2-11 and 12,marked on brass

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	cap T 12 S S 2 in.NW.,
	R 17 E S 1 in.NE.,
	S 12 in SE.and S 11 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil,sandy loam,2nd.rate on 33.87 chs.
	balance,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth,shad scale,sage brush and bunch grass.
	Mountainous land on 25.75 chs.
	East,on a random line,bet.secs.1 and 12.
40.00.	Set temp.¼ sec.cor.
80.08	Intersect E.bdy.of Tp.,9 lks.N.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	N.89°56'W.,on a true line,
	Bet.secs.1 and 12.
	Abrupt descent over broken sandstone ledges.
3.50	Hollow,200 ft.deep,course SW.
	Abrupt ascent over broken sandstone ledges.
15.00	Top of perpendicular sandstone ledges,100 ft.high,bears NE.and SW.
	Leave sandstone ledges, over level land on top of Horse Bench,through sparse undergrowth.
24.00	Begin abrupt descent along steep N.slope over sandstone ledges.
40.04	Falls on the steep slope of the solid sandstone,cannot be set.
57.55	Top of perpendicular sandstone ledge,100 ft.high, bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.marked on brass cap, T 12 S R 17 E on N.half, and

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	S 1 on N.half,and S 12 on S.half, W C on E.half, and raise a mound of stone,2.ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Leave sandstone ledges, over level land on Horse Bench.
80.08	The cor.of secs.1-2-11 and 12.
	Land,mountainous and level.
	Soil,sandy loam,2nd.rate on 31.53 chs.
	balance,rocky,4th.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 48.45 chs.
	April 23: At this cor.I set off 12°26'N.on decl.arc, and at 11h.58m.a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°48'N.
	S.0°01'E.,bet.secs.11 and 12.
	Gradual ascent through sparse undergrowth.
33.00	Begin abrupt descent over sandstone ledges,bearing NE. and SW.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on W.half,S 12 on E.half,and raise a mound of stone,2.ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
48.00	Hollow,400 ft.deep,course E.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.11-12-13 and 14,marked on brass cap,T 12 S S 11 in NW., R.17 E S 12 in NE., S 13 in SE.and S 14 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,rolling and mountainous.
	Soil,sandy loam,2nd.rate on 33.00 chs.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	balance,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 47.00 chs.
	S.89°56'E.,on a random line,bet.secs.12 and 13.
40.00	Set temp.¼ sec.cor.
80.06	Intersect E.bdy.of Tp.,5 lks.N.of the cor.of secs. 7-12-13 and 18,heretofore described.
	N.89°54'W.,on a true line,
	Bet.secs.12 and 13.
	Abrupt descent over sandstone ledges.
6.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent over solid sandstone.
18.00	Rocky ridge,bears NE.and SW.
	Abrupt descent.
40.03	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 12 on N. half,S 13 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
41.25	Hollow,350 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
66.00	Top of perpendicular sandstone ledges,75 ft.high, bearing N.and S.
	Leave sandstone ledges,over level land,through sparse undergrowth.
78.50	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
80.06	The cor.of secs.11-12-13 and 14.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 67.56 chs.
	balance,sandy loam,2nd.rate.
	No timber.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Mountainous land on 67.56 chs.
	April 23, 1910.
	April 24: At 7h.58m.,a.m.,l.m.t.,I set off 39°47'N.on lat.arc,12°44'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.11-12-13 and 14.
	Thence I run
	S.0°01'E.,bet.secs.13 and 14.
	Abrupt ascent over sandstone ledges.
1.25	Top of abrupt ascent,bears E.and W.
	Gradual ascent over rolling land,through sparse undergrowth.
30.00	Begin abrupt descent over sandstone ledges,bearing NE. and SW.
35.75	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 14 on W. S 13 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
42.10	Top of abrupt ascent,bears NE.and SW.
	Gradual ascent through scattering timber.
51.10	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
63.00	Foot of sandstone ledges,bearing NE.and SW.,200 ft. below top.
69.00	Head of hollow,course S.
	Descend in rocky hollow.
75.50	Leave hollow, course SW.
	Ascend along steep west slope.
77.00	Begin descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.13-14-23 and 24,marked on brass

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	cap,T 12 S S 14 in NW.,
	R 17 E S 13 in NE.,
	S 24 in SE.and S 23 SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,rollling and mountainous.
	Soil,sandy loam,2nd.rate on 37.75 chs.
	balance,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 42.25 chs.
	———
	S.89°54'E.,on a random line,bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.12	Intersect E.bdy.of Tp.,9 lks.N.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	N.89°50'W.,on a true line,
	Bet.secs.13 and 24.
	Abrupt ascent over sandstone ledges.
0.50	Top of abrupt ascent,75 ft.above sec.cor.,bears NE.and SW.
	Leave sandstone ledges, over level land,through scattering timber.
22.70	Top of abrupt descent,bears N.and S.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.marked on brass cap, T 12 SR17 E S 13 on N.half, and S 24 on S.half, WC¼ on W.half, from which
	A cedar,5 ins.diam.,bears N.24°E.,13 lks.dist., marked W C ¼ S 13 BT.
	A cedar,6 ins.diam.,bears S.31°E.,67 lks.dist., marked WC ¼ S 24 BT.
	Begin abrupt descent over sandstone ledges.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
40.06	Point for ¼ sec.cor.falls on the solid ledge on steep slope and cannot be set.
58.00	Hollow,600 ft.below top of ledges,course SE.
	Abrupt ascent over sandstone ledges.
71.50	Sandstone spur,projects S.
	Abrupt descent.
80.12	The cor.of secs.13-14-23 and 24.
	Land,mountainous.
	Soil,sandy loam on 22.20 chs.
	balance ,rocky,4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 57.92 chs.
	April 24: At this cor.I set off 12°46'N.on decl.arc,and at 11h.56m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°46'N.
	S.0°01'E.bet.secs.23 and 24.
	Descend abruptly over rocky and mountainous land.
8.00	Hollow,400 ft.deep,course SE.
	Abrupt ascent along steep east slope over broken sandstone ledges.
16.50	Sandstone spur,projects SE.
	Abrupt descent over sandstone ledges.
28.00	Bottom of Rock House Canyon,1000 ft.deep,course SE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 23 on W. half,S 24 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
53.00	Ridge,bears NW.and SE.
	Descend over solid sandstone.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.23-24-25 and 26,marked on

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	brass cap,T 12 S S 23 in NW.;
	R 17 E S 24 in NE.,
	S 25 in SE.,and S 26 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous .
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	S'89°50'E.,on a random line,bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.08	Intersect E.bdy.of Tp.,9 lks.S.of the cor.of secs. 19-24-25 and 30,heretofore described.
	Thence I run
	N.89°54'W.,on a true line,
	Bet.secs.24 and 25.
	Descend abruptly over steep south slope ,over solid sandstone ledges.
12.00	Bottom of Rock House Canyon, 1100 ft.deep,course SE.
	Ascend abruptly along north slope,over broken sandstone ledges.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 24 on N. half,S 25 on S.half,and raise a mound of stone,2 ft.base 1½ ft.high,N.of cor.
	Pits impracticable.
48.00	Ridge,bears NW.and SE.
	Descend along south slope over solid sandstone.
80.08	The cor.of secs.23-24-25 and 26.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	No timber.
	Mountainous land on 80.08 chs.
	April 24, 1910.
	The line bet.secs.25 and 26 will run across the gorge of Desolation Canyon,which is about 50.00 chs south from the cor.of secs.23-24-25 and 26, the line will begin abrupt descent over perpendicular sandstone ledges within 15.00 chs.of this cor. and is impossible to survey,I therefore return this line as unsurveyable.
	April 25: At 7h.58m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc,13°03'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.2-3-34 and 35,heretofore described on the N.bdy.of the Tp.
	Thence I run
	S.0°01'E.,bet.secs.2 and 3.
	Abrupt ascent over rocky and mountainous land.
6.80	Ridge,bears NW.and SE.
	Abrupt descent.
16.50	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
19.62	A distance equal to the length of the N.end of the E. bdy.of sec.2.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on W. half,S 2 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
23.75	Spur,projects E.
	Abrupt descent.
48.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
59.62	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	ground,for cor.of secs.2-3-10 and 11,marked on brass cap,T 12 S S 3 in NW.,
	R 17 E S 2 in NE.,
	S 11 inSE.and S 10 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 59.62 chs.
	East,on a random line,bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line,3 lks.N.of the cor.of secs.1-2 11 and 12.
	Thence I run
	N.89°59'W.,on a true line,
	Bet.secs.2 and 11.
	Over level land on top of Horse Bench,through sparse undergrowth.
10.00	Begin abrupt descent over sandstone ledges,bearing NE. and SW.
13.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
16.00	Top of abrupt ascent,bears NE.and SW.
	Leave ledges, over level land.
29.50	Begin abrupt descent over sandstone ledges,bearing N.and S.
39.96	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 2 on N. half,S 11 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
41.00	Hollow,300 ft.deep,course N.

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	Abrupt ascent.
49.40	Top of perpendicular sandstone ledge,100 ft.high,bears NE.and SW.
	Leave sandstone ledges, over level land.
57.90	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
76.50	Hollow,250 ft.below top of ledge,course N.
	Ascend.
79.92	The cor.of secs.2-3-10 and 11.
	Land,level and mountainous.
	Soil,sandy loam,2nd.rate on 32.00 chs.
	rocky,3rd.and 4th.rate on balance.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 47.92 chs.
	S.0°01'E.,bet.secs.10 and 11.
	Abrupt ascent over rocky and mountainous land.
35.85	Top of abrupt ascent,250 ft.above the sec.cor.,bears NE.and SW.
	Over level land on top of Horse Bench,through sparse undergrowth.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on W. half,S 11 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
65.50	Begin abrupt descent over sandstone ledges,bearing E. and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.10-11-14 and 15,marked on brass cap,T 12 S S 10 in NW.,
	R 17 E S 11 in NE.,
	S 14 in SE.,and S 15 in SW.quadrant, and raise a mound

SUBDIVISIONS OF T.12 S.,R.18 E.

CHAINS	
	of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 50.35 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 60.35 chs.
	April 25: At this cor.I set off 13°06'N.on decl.arc, and at11h.58m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°47'N.

	S.89°59'E.,on a random line,bet.secs.11 and 14.
40.00	Set temp.¼ sec.cor.
79.86	Intersect N.and S.line,7 lks.N.of the cor.of secs. 11-12-13 and 14.
	Thence I run
	N.89°56'W.,on a true line,
	Bet.secs.11 and 14.
	Ascend abruptly over broken sandstone ledges.
1.50	Top of abrupt ascent,bears NW.and SE.
	Gradual ascent over rolling land,through sparse undergrowth.
18.00	Begin descent along steep south slope over solid sandstone ledges,bearing NW.and SE.
20.00	Begin ascent.
22.00	Leave sandstone ledges,bearing NE.and SW.
	Gradual ascent.
39.93	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on N.half,S 14 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
47.90	Begin abrupt descent over sandstone ledges,bearing N. and S.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
58.00	Hollow,150 ft.deep,course SW.
	Abrupt ascent.
67.00	Sandstone spur projects SW.
	Abrupt descent.
79.86	The cor.of secs.10-11-14 and 15.
	Land,mountainous and rolling.
	Soil,rocky, 3rd.and 4th.rate on 37.46 chs.
	balance,sandy loam,2nd.rate.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 37.46 chs.
	S.0°01'E.,bet.secs.14 and 15.
	Descend over rocky and mountainous land,through sparse undergrowth.
7.00	Enter hollow,200 ft.deep,course from NW.to S.
	Descend in bottom of rocky hollow.
25.00	Junction with hollow,250 ft.deep,course SE.
	Abrupt ascent.
33.00	Top of abrupt ascent,bears NW.and SE.
	Over level rocky land.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 15 on W. half,S 14 on E.half,from which
	A lone pinon,7 ins.diam.,bears S.32°W.,166 lks.dist. marked ¼ S 15 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
54.00	Begin abrupt descent,bears NW.and SE.
60.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
64.00	Top of abrupt ascent,bears NW.and SE.
	Ascend.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
67.50	Ridge,bears NW.and SE.
	Abrupt descent over broken sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.14-15-22 and 23,marked on brass cap T.12 S S 15 in NW.,
	R 17 E S 14 in NE.,
	S 23 in SE.,and S 22 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth, sage brush.
	Mountainous land on 59.00 chs.
	April 25, 1910.
	April 26: At 7h.58m.,a.m.,l.m.t.,I set off 39°46'N.on lat.arc,13°23'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.14-15-22 and 23.
	Thence I run
	S.89°56'E.,on a random line,bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
79.78	Intersect N.and S.line,3 lks.N.of the cor.of secs. 13-14-23 and 24.
	Thence I run
	N.89°55'W.,on a true line,
	Bet.secs.14 and 23.
	Descend abruptly over sandstone ledges.
2.00	Hollow,300 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
8.55	Top of abrupt ascent,bears N.and S.
	Ascend.
15.00	Spur,projects S.
	Descend.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
19.25	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
27.50	Hollow,400 ft.deep,course S.
	Abrupt ascent.
38.75	Rocky spur,projects S.
	Abrupt descent.
39.89	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 14 on N. half,S 23 on S.half,and raise a mound of stone,2 ft.base 1½ ft.high,N.of cor.
	Pits impracticable.
54.00	Hollow,400 ft.deep,course SE.
	Abrupt ascent.
70.00	Sandstone spur,projects SE.
	Abrupt descent along steep south slope.
73.00	Head of hollow,course S.
	Ascend along steep south slope.
75.30	Spur,projects S.
	Descend.
78.00	Head of hollow,course S.
	Ascend along steep south slope,over broken sandstone ledges.
79.78	The cor.of secs.14-15-22 and 23.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 79.78 chs.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	S.0°01'E.,bet.secs.22 and 23.
	Abrupt descent over broken sandstone ledges.
8.50	Bottom of Rock House Canyon, 1000 ft.deep,course SE.
	Abrupt ascent.
31.00	Ridge,bears E.and W.
	Enter scattering timber.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 22 on W. half,S 23 on E.half,from which
	A cedar,5 ins.diam.,bears N.49°W.,80 lks.dist., marked ¼ S 22 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
40.25	Hollow,125 ft.deep,course SE.
	Ascend.
54,00	Ridge,bears NW.and SE.
	Leave timber.
	Descend.
58.00	Begin abrupt descent over sandstone ledges,bearing E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.22-23-26 and 27,marked on brass cap,T 12 S S 22 in NW.,
	R 17 E S 23 in NE.,
	S 26 in SE.and S 27 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 26: At this cor.I set off 13°26'N.on decl.arc,

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS

and at 11h.58m.a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°45'N.

S.89°55'E.,on a random line,bet.secs.23 and 26.

40.00 Set temp.¼ sec.cor.

79.86 Intersect N.and S.line,5 lks.S.of the cor.of secs. 23-24-25 and 26.

Thence I run

N.89°57'W.,on a true line,

Bet.secs.23 and 26.

Along steep,south,slope,descend over sandstone ledges.

26.50 Hollow,500 ft.deep,course SE.

Abrupt ascent.

39.93 Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 23 on N.half, S 26 on S.half,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.

Note:
On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.

42.00 Sandstone spur,projects SE.

Abrupt descent along steep south slope over sandstone breaks.

79.86 The cor.of secs.22-23-26 and 27.

Land,mountainous.

Soil,solid sandstone,4th.rate.

No timber.

Mountainous land on 79.86 chs.

April 26, 1910

The line bet.secs.26 and 27 will cross the gorge of Desolation Canyon of Green River, the north rim of which is about 30.00 chs.south of the cor.of secs. 22-23-26 and 27 and the intervening country is rugged,

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	broken and precipitous.
	I report this line south as unsurveyable.
	April 27: At 7h.58m.,a.m.,l.m.t.,I set off 39°49'N.on lat.arc,13°42'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34,heretofore described on the N.bdy.of the Tp.
	Thence I run
	S.0°02'E.,bet.secs.3 and 4.
	Abrupt descent over rocky and mountainous land.
12.00	Hollow,100 ft.deep,course E.
	Abrupt ascent.
14.50	Spur,projects NE.
	Abrupt descent.
19.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
19.62	A distance equal to the length of the N.end.of the E. bdy.of sec.3.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on W. half,S 3 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
59.62	On top of spur,projects NE.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.3-4-9 and 10,marked on brass cap,
	T 12 S S 4 in NW.,
	R 17 E S 3 in NE.,
	S 10 in SE.and S 9 in SW.quadrant,and raise a mound of stone,2 ft.base,1½.ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Mountainous land on 59.62 chs.
	East,on a random line,bet.secs.3 and 10.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect N.and S.line,5 lks.N.of the cor.of secs. 2-3-10 and 11.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.3 and 10.
	Ascend abruptly over rocky and mountainous land.
2.85	Spur,projects N.
	Abrupt descent.
9.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
19.00	Ridge,bears NE.and SW.
	Descend.
37.25	Hollow,200 ft.deep,course N.
	Abrupt ascent.
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 3 on N. half,S 10 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
45.00	Spur,projects NE.
	Abrupt descent.
51.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
60.60	Ridge,bears NE.and SW.
	Abrupt descent.
72.00	Hollow,250 ft.deep,course NE.
	Abrupt ascent.
80.02	The cor.of secs.3-4-9 and 10.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	No timber.
	Mountainous land on 80.02 chs.
	April 27: At this cor.I set off 13°45'N.on decl.arc, and at 11h.58m,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°48'N.
	S.0°02'E.,bet.secs.9 and 10.
	Abrupt descent over rocky and mountainous land.
11.00	Hollow,250 ft.deep,course NE.
	Abrupt ascent.
35.00	Top of abrupt ascent,300 ft.above bottom of hollow, bears NE.and SW. Enter sparse undergrowth.
	Gradual ascent over rolling land on top of Horse Bench.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on W. half and S 10 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
72.00	Begin abrupt descent over broken sandstone ledges, bearing NW.and SE.,along steep west slope.
76.00	Enter scattering timber.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.9-10-15 and 16,marked on brass cap,T 12 S S 9 in NW.,
	R 17 E S 10 in NE.,
	S 15 in SE.and S 16 in SW.quadrant,from which
	A cedar,12 ins.diam.,bears N.44°W.,120 lks.dist. marked T 12 S R 17 E S 9 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and rolling.
	Soil,sandy loam,2nd.rate on 37.00 chs.
	balance,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Timber,cedar.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 43.00 chs.
	S.89°58'E.,on a random line,bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,3 lks.S.of the cor.of secs. 10-11-14 and 15.
	Thence I run
	N.89°59'W.,on a true line,
	Bet.secs.10 and 15.
	Descend over rocky and mountainous land,along south slope.
6.00	Hollow,200 ft.deep,course SE.
	Abrupt ascent.
25.85	Top of abrupt ascent,bears NW.and SE.
	Over level land,through scattering timber.
32.00	Leave timber.
39.98	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on N. half,S 15 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
77.10	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
79.96	The cor.of secs.9-10-15 and 16.
	Land,mountainous and level.
	Soil,sandy loam,2nd.rate on 51.25 chs.
	balance,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 28.71 chs.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	S.0°02'E.,bet.secs.15 and 16.
	Descend along steep,west slope,over broken sandstone ledges,through scattering timber.
11.00	Leave timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on W. half,S 15 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.15-16-21 and 22,marked on brass cap,T 12 S S 16 in NW.,
	R 17 E S 15 in NE.,
	S 22 in SE.and S 21 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 27, 1910.

	April 28: At 7h.58m.,a.m.,l.m.t.,I set off 39°46'N.on lat.arc,14°01'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.15-16-21 and 22.
	Thence I run
	S.89°59'E.,on a random line,bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,9 lks.N.of the cor.of secs. 14-15-22 and 23.
	Thence I run
	N.89°55'W.,on a true line,
	Bet.secs.15 and 22.
	Ascend along steep,south slope,over broken sandstone ledges.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
1.50	Sandstone spur,projects S.
	Abrupt descent.
11.00	Bottom of Rock House Canyon,100 ft.deep,course SE.
	Abrupt ascent.
16.00	Sandstone spur,projects N.
	Abrupt descent.
27.00	Same canyon,course NE.
	Abrupt ascent.
29.50	Spur,projects S.
	Abrupt descent.
32.00	Bend in same canyon,from SW.to SE.
	Abrupt ascent.
35.50	Sandstone spur,projects S.
	Abrupt descent.
37.00	Hollow,150 ft.deep,course S.
	Abrupt ascent over shale ledges.
40.02	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,½ S 15 on N. half,S 22 on S.half,and raise a mound of stone,2 ft.base 1½ ft.high,N.of cor.
	Pits impracticable.
46.95	Sandstone spur,projects S.
	Abrupt descent.
51.50	Hollow,125 ft.deep,course SE.
	Abrupt ascent.
64.00	Spur,projects S.
	Abrupt descent.
74.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
78.00	Top of abrupt ascent,bears NE.and SW.
	Along steep rocky south slope.
80.04	The cor.of secs.15-16-21 and 22.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	No timber.
	Mountainous land on 80.04 chs.
	April 28: At this cor.I set off 14°04'W.on decl.arc, and at 11h.58m.a.m.,l.m.t.,observe the sun on the meridian,the resulting int.is 39°46'E.
	S.0°02'E.,bet.secs.21 and 22.
	Abrupt descent over broken sandstone ledges.
6.00	Bottom of Rock House Canyon,900 ft.deep,course E.
	Abrupt ascent.
27.00	Enter scattering timber.
28.00	Spur,projects NE.
	Descend.
34.50	Leave timber.
38.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 21 on W. half,S 22 on E.half,from which
	A cedar,15 ins.diam.,bears S.31°E.,36 lks.dist., marked ¼ S 22 BT.
	A cedar,4 ins.diam.,bears S.10°W.,26 lks.dist., marked ¼ S 21 BT.
40.25	Enter scattering timber.
50.00	Spur,projects NE.
	Abrupt descent.
57.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
71.00	Ridge,bears E.and W.
	Abrupt descent.
	Leave timber.
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,marked on brass cap,T 12 S S 21 in NW.,

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	R.17 E S 22 in NE.,
	S 27 in SE.and S.28 in SW.quadrant,and raise a mound
	of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	S.89°55'E.,on a random line,bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,3 lks.S.of the cor.of secs.
	22-23-26 and 27.
	Thence I run
	N.89°56'W.,on a true line,
	Bet.secs.22 and 27.
	Descend along steep south slope over solid sandstone
	ledges.
40.06	Set an iron post,3 ft.long,1 in.dia.,in mound of stone
	and earth,for ¼ sec.cor.,marked on brass cap,¼ S 22 on
	N.half,S 27 on S.half,and raise a mound of stone,2 ft.
	base,1½ ft.high,N.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible
	to set this post over 12 ins.in the ground.
46.00	Hollow,400 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
62.50	Sandstone spur,projects SE.
	Abrupt descent.
71.00	Hollow,500 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
80.12	The cor.of secs.21-22-27 and 28.
	Land,mountainous.
	Soil,rocky,4th.rate.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	No timber.
	Mountainous land on 80.12 chs.
	April 28, 1910
	Note: The cor.of secs.21-22-27 and 28 is set one chain north of the rim of the north breaks of Desolation Canyon of Green River; this first rim is about 300 ft.high,and the country falls in a series of rims to the bottom of Desolation Canyon,about 1 mile south of this point,a depth of about 1800 ft. It is impossible to carry the line south on account of the impassable perpendicular ledges, I therefore return the line between secs.27 and 28 as unsurveyable.
	April 29: 7h.59m.,a.m.,l.m.t.,I set off 39°49'N.on lat. 14°20'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.4-5-32 and 33, heretofore described on the N.bdy.of the Tp.
	Thence I run
	S,0°03'E.,bet.secs.4 and 5.
	Ascend over rocky and mountainous land,along west slope.
17.42	Spur,projects W.
	Descend.
19.62	A distance equal to the N.end.of the E.bdy.of sec.4. Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 5 on W. half,S 4 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
21.35	Hollow,75 ft.deep,course W.
	Ascend along steep west slope.
46.00	Spur,projects W.
	Descend along steep west slope.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
55.00	Hollow,75 ft.deep,course NW.
	Abrupt ascent.
59.62	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.4-5-8 and 9,marked on brass cap, T 12 S S 5 in NW., R 17 E S 4 in NE., S 9 in SE.and S 8 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 59.62 chs.
	East,on a random line,bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,3 lks.S.of the cor.of secs. 3-4-9 and 10.
	Thence I run S.89°59'W.,on a true line, Bet.secs.4 and 9.
	Descend abruptly over rocky and mountainous land.
8.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.
11.00	Top of abrupt ascent,bears N.and S.
	Over level land,through scattering timber.
35.00	Begin abrupt descent,bears N.and S.
	Leave timber.
40.02	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on N. half,S 9 on S.half,and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
53.00	Hollow,200 ft.deep,course N.
	Abrupt ascent.
70.25	Ridge,bears N.and S.
	Descend.
76.50	Hollow,100 ft.course NW.
	Ascend.
80.04	The cor.of secs.4-5-8 and 9.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 66.02 chs.
	balance,sandy 3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 66.04 chs.
	April 29: At this cor.I set off 14°23'N.on decl.arc,and at10h.59m,,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°48'N.
	S.0°03'E.,bet.secs.8 and 9.
	Ascend along east slope,over rocky and mountainous land through scattering timber.
12.00	Top of abrupt ascent,bears NW.and SE.
	Over level top of ridge,bears NW.and SE.
18.50	Begin abrupt descent along steep west s lope.
	Leave timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 8 on W. half,S 9 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
53.00	Hollow,250 ft.deep,course NW.
	Abrupt ascent.
	Enter scattering timber.
72.50	Top of abrupt ascent,bears NE.and SW.
	Gradual ascent on top of Horse Bench.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.8-9-16 and 17,marked on brass cap,

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	T 12 S S 8 in NW.,
	R 17 E S 9 in NE.,
	S 16 in SE.and S 17 in SW.quadrant,from which
	A pinon,4 ins.diam.,bears N.36°E.,28 lks.dist., marked T 12 S R 17 E S 9 BT.
	A pinon,6 ins.diam.,bears S.21°30'E.,90 lks. dist.,marked T 12 S R 17 E S 16 BT.
	A pinon,5 ins.diam.,bears S.2°45'W.,72½ lks. dist.,marked T 12 S R 17 E S 17 BT.
	A pinon,8 ins.diam.,bears N.85°W.,60½ lks.dist. marked T 12 S R 17 E S 8 BT.
	Land,mountainous,level and rolling.
	Soil,rocky,3rd.and 4th.rate on 66.00 chs.
	balance,sandy loam,2nd.rate.
	Timber, cedar and pinon.
	Mountainous land on 66.00 chs.

	N.89°59'E.,on a random line,bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,3 lks.S.of the cor.of secs. 9-10-15 and 16.
	Thence I run
	S.89°58'W.,on a true line,
	Bet.secs.9 and 16.
	Descend abruptly over rocky and mountainous land.
2.75	Hollow,100 ft.deep,course S.
	Abrupt ascent along steep south slope.
7.25	Spur,projects SE.
	Abrupt descent along steep south slope.
13.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
29.00	Spur,projects S.
	Abrupt descent.
33.00	Hollow,100 ft.deep,course SE.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Abrupt ascent.
	Enter scattering timber.
37.50	Top of abrupt ascent,bears N.and S.
	Over level land on top of Horse Bench,through sparse undergrowth and scattering timber.
39.00	Leave timber.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on N. half,S 16 on S.half,from which
	A pinon,5 ins.diam.,bears N.78°E.,178 lks.dist., marked ¼ S 9 BT.
	A pinon,5 ins.diam.,bears S.29°W.,75 lks.dist., marked ¼ S 16 BT.
79.98	The cor.of secs.8-9-16 and 17.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 37.50 chs.
	balance,sandy loam,2nd.rate.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Mountainous land on 37.50 chs.
	S.0°03'E.,bet.secs.16 and 17.
	Over level land on top of Horse Bench, through sparse undergrowth and scattering timber.
2.75	Begin abrupt descent over rocky land,bears NW.and SE.
5.00	Head of hollow,course W.
	Abrupt ascent.
8.00	Top of abrupt ascent,bears NE.and SW.
	Over level land.
19.50	Begin abrupt descent over rocky land,bearing NE.and SW.
26.00	Hollow,200 ft.deep,course E.
	Abrupt ascent.
38.00	Spur,projects NE.
	Abrupt descent.

SUBDIVISIONS OF T.12 S.,R.17 E.

Chains

40.00 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on W. half,S 16 on E.half,from which

A pinon,12 ins.diam.,bears N.44°E.,11 lks.dist., marked ¼ S 16 BT.

A pinon,6 ins.diam.,bears S.14°W.,85 lks.dist., marked ¼ S 17 BT.

41.00 Hollow,75 ft.deep,course NE.

Ascend.

63.00 Ridge,bears NW.and SE.

Abrupt descent.

Leave timber.

80.00 Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.16-17-20 and 21,marked on brass cap, T 12 S S 17 in NW.,

R 17 E S 16 in NE.,

S 21 in SE.and S 20 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Pits impracticable.

Land,mountainous and level.

Soil,rocky,3rd.and 4th.rate on 68.75 chs.

Timber, cedar and pinon.

Undergrowth, sage brush and bunch grass.

Mountainous land on 68.75 chs.

April 29, 1910

April 30: At 7h.57m.,a.m.,l.m.t.,I set off 39°46'N.on lat.arc,14°39'E.on decl.arc,and determine a meridian with the solar at the cor.of secs.16-17-20 and 21.

Thence I run

N.69°56'E.,on a random line,bet.secs.16 and 21.

40.00 Set temp.¼ sec.cor.

79.00 Intersect N.and S.lines,5 lks.S.of the cor.of secs. 16-17-21 and 22.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Thence I run
	S.89°56'W.,on a true line,
	Bet.secs.16 and 21.
	Descend over mountainous land
0.25	Descend abruptly over broken sandstone ledges,along steep south slope.
9.00	Hollow,200 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
14.00	Top of sandstone ledges,bearing NW.and SE.
	Ascend over rocky land,through scattering timber.
32.80	Spur,projects SE.
	Leave timber, descend along rocky south slope.
39.98	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on N. half,S 21 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
54.50	Hollow,75 ft.deep,course S.
	Ascend.
	Enter scattering timber.
67.60	Spur,projects SE.
	Abrupt descent.
	Leave timber.
78.00	Hollow,100 ft.deep,course S.
	Ascend.
79.96	The cor.of secs.16-17- 20 and 21.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.96 chs.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	S.0°03'E.,bet.secs.20 and 21.
	Abrupt descent over rocky and mountainous land.
9.75	Bottom of Rock House Canyon,600 ft.deep,course SE.
	Abrupt ascent.
14.00	Enter scattering timber.
26.00	Spur,projects NE.
	Abrupt descent.
32.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground.for ¼ sec.cor.,marked on brass cap,¼ S 20 on W. half,S 21 on E.half,from which
	A pinon,4 ins.diam.,bears N.58°W.,20 lks.dist., marked ¼ S 20 BT.
	A pinon,4 ins.diam.,bears N.42°W.,70 lks.dist., marked ¼ S 21 BT.
60.25	Ridge,bears E.and W.
	Abrupt descent over broken sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.20-21-28 and 29,marked on brass cap,T 12 S S 20 in NW.,
	R 17 E S 21 in NE.,
	S 28 in SE. and S 29 in SW.quadrant, from which
	A cedar,5 ins.diam.,bears N.46°E.,12 lks.dist., marked T 12 S R 17 E S 21 BT.
	A cedar,8 ins.diam.,bears S.43°E.,34 lks.dist., marked T 12 S R 17 E S 28 BT.
	A cedar,14 ins.diam.,bears S.57°W.,44 lks.dist., marked T 12 S R 17 E S 29 BT.
	A cedar,12 ins.diam.,bears N.60°W.,147 lks.dist. marked T 12 S R 17 E S 20 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber, cedar and pinon.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Mountainous land on 80.00 chs.
	April 30: At this cor.I set off 14°41'N.on decl.arc, and at 11h.57m,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°45'N.
	N.89°56'E.,on a random line,bet.secs.21 and 28.
21.06	To west edge of impassable chasm; Set temp.witness ¼ sec.cor.
	Thence offset as follows:
	North, 11.00 chs.; then,on the offset line:
	N.89°56'E.79.06,counting from sec.cor.; then
	South,11.00 chs.to the random line,on which,at
80.06	Intersect N.and S.line,7 lks.N.of the cor.of secs. 21-22-27 and 28.
	Thence I run
	S.89°59'W.,on a true line,
	Bet.secs.21 and 28.
	Ascend abruptly over sandstone ledges,bearing N.and S.
0.50	Top of ledges, 75 ft.above sec.cor.,bear N.and S.
	Over level rocky land,through sparse undergrowth.
1.00	To E.edge,of impassable chasm,bears NW.and SE.
	Set aniron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness point,marked on brass cap, T 12 S R 17 E S 21 on N.half, S 28 on S.half, and W P on W.half,and raise a mound of stone,2 ft.base,1½ ft. high,N.of cor.
	Pits impracticable.
	Thence offset N.,11.00 chs.;then run on offset line S.89°59'W.
40.03	Point for ¼ sec.cor.falls in the chasm and cannot be set.
59.00	Offset South,11.00 chs.to true line.
	On top of perpendicular ledges, 150 ft.high,bearing N. and S. on W.edge of chasm.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,marked on brass cap,T 12 S R 17 E S 21 on N.half,and S 28 on S.half, ¼ S WC on E.half,from which
	A cedar,4 ins.diam.,S.39°W.,78 lks.dist., marked ¼ S 28 WC BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Abrupt ascent over rocky and mountainous land,through scattering timber.
67.00	Rocky spur,projects S.
	Abrupt descent.
76.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
80.06	The cor.of secs.20-21-28 and 29.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Undergrowth, sage brush.
	Mountainous land on 80.06 chs.
	April 30, 1910

Note:

The line running south from the cor.of secs. 20-21-28 and 29 runs over chasms and gorges all of which drain into Green River.

These having perpendicular sandstone sides ranging from 300 to 600 ft.in height,it is impossible to continue the line south, I therefore return the line between secs.28 and 29 and 32 and 33 as unsurveyable.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	May 1:At 7h.57m.,a.m.,l.m.t.,I set off 39°49'N.on lat. arc,14°57'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-31 and 32,heretofore described on the N.bdy.of the Tp.
	Thence I run
	S.0°03'E.,bet.secs.5 and 6.
	Ascend over rocky and mountainous land.
3.00	Spur,projects W.
	Descend.
5.00	Head of hollow,course W.
	Abrupt ascent along steep,west slope over shale ledges.
19.62	A distance equal to the N.end of the E.bdy.of sec.5.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ½ sec.cor.,marked on brass cap,¼ S 6 on W. half,and S 5 on E.half,from which
	A pinon,5 ins.diam.,bears S.51°15'E.,106 lks. dist.,marked ¼ S 5 BT.
	A pinon,6 ins.diam.,bears S.64°W.,116 lks.dist., marked ¼ S 6 BT.
	Enter scattering timber.
25.00	Top of ridge,bears NE.and S.
	Gradual ascent over top of ridge.
32.50	Leave ridge,bears SE.and N. and junction with a ridge from NW.
	Abrupt descent over shale ledges.
	Leave timber.
47.50	Head of hollow,150 ft.below top of ridge,course W.
	Gradual ascent.
59.62	Set an iron post,3 ft.long,2 ins.dia., in mound of stone and earth ,for cor.of secs.5-6-7 and 8,marked on brass cap,T 12 S S 6 in NW.,
	R 17 E S 5 in NE.,
	S 8 in SE.and S 7 in SW.quadrant, and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber, cedar and pinon.
	Mountainous land on 59.62 chs.
	East,on a random line,bet.secs.5 and 8.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.12	Intersect N.and S.line,12 lks.S.of the cor.of secs. 4-5-8 and 9.
	Thence I run
	S.89°55'W.,on a true line,
	Bet.secs.5 and 8.
	Ascend over rocky and mountainous land.
0.90	Spur,projects N.
	Abrupt descent.
4.75	Hollow,100 ft.deep,course N.
	Abrupt ascent.
10.50	Ridge,bears N.and S.
	Abrupt descent.
29.00	Hollow,300 ft.deep,course N.
	Abrupt ascent.
40.06	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 5 on N. half,S 8 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
45.00	Ridge,bears N.and S.
	Abrupt descent.
57.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.
75.85	Ridge,bears NW.and SE.
	Descend.
80.12	The cor.of secs.5-6-7 and 8.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.12 chs.
	West,on a random line,bet.secs.6 and 7.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
77.66	Intersect W.bdy.of Tp.,21 lks.S.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	S.89°51'E.,on a true line,
	Bet.secs.6 and 7.
	Descend over rocky and mountainous land,through scattering timber.
24.00	Begin abrupt descent over sandstone ledges, bearing N.and S.
	Leave timber.
29.00	Hollow,300 ft.deep,course N.
	Abrupt ascent. Enter scattering timber.
37.66	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$S 6 on N. half,S 7 on S.half, from which
	A pinon,7 ins.diam.,bears S.74°30'E.,68 lks.dist., marked $\frac{1}{4}$ S 7 BT.
	A pinon,4 ins.diam.,bears N.71°E.,71 lks.dist., marked $\frac{1}{4}$ S 6 BT.
39.25	Spur,projects N.
	Abrupt descent.
66.00	Bottom of South Mack's Canyon,near head,200 ft.deep course NW.
	Leave timber.
77.66	The cor.of secs.5-6-7 and 8.
	Land,mountainous.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 77.66 chs.
	May 1: At this cor.I set off 15°00'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°48'N.
	S.0°03'E.,bet.secs.7 and 8.
	Gradual ascent over rocky land along west slope.
22.00	Begin abrupt ascent,bears NE.and SW.
31.00	Ridge,bears NE.and SW.
	Descend.
	Enter scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 7 on W. half,S 8 on E.half,from which
	A cedar,5 ins.diam.,bears S.45°30'E.,27 lks. dist.,marked ¼ S 8 BT.
	A pinon,10 ins.diam.,bears N.76°W.,14 lks.dist., marked ¼ S 7 BT.
44.00	Head of hollow,course NE.
	Ascend.
51.50	Ridge,bears NW.and SE.
	Abrupt descent.
69.50	Hollow,100 ft.deep,course NW.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.7-8-17 and 18,marked on brass cap,T 12 S S 7 in NW., R 17 E S 8 in NE., S 17 in SE.and S 18 in SW.quadrant, from which

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	A pinon,5 ins.diam.,bears N.72°E.,32 lks.dist., marked T 12 S R 17 E S 8 BT.
	A pinon,8 ins.diam.,bears S.10°E.,48 lks.dist. marked T 12 S R 17 E S 17 BT.
	A pinon,6 ins.diam.,bears S.70°W.,40 lks.dist., marked T 12 S R 17 E S 18 BT.
	A pinon,5 ins.diam.,bears N.61°W.,60 lks.dist., marked T 12 S R 17 E S 7 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°55'E.,on a random line,bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N.and S.line,7 lks.S.of the cor.of secs. 8-9-16 and 17.
	Thence I run
	S.89°52'W.,on a true line,
	Bet.secs.8 and 17.
	Over level land,through scattering timber.
1.00	Begin abrupt descent over broken sandstone ledges, bearing NW.and SE.
16.00	Hollow,300 ft.deep,course NW.
	Abrupt ascent.
25.00	Spur,projects N.
	Abrupt descent.
34.00	Hollow,300 ft.deep,course NE.
	Abrupt ascent.
	Leave timber.
40.10	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 8 on N. half,and S 17 on S.half,and raise a mound of stone,2 ft.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	base,1½ ft.high,N.of cor.
	Pits impracticable.
49.80	Ridge,bears N.and S.
	Abrupt descent.
	Enter scattering timber.
54.50	Hollow,150 ft.deep,course N.
	Abrupt ascent.
60.50	Spur,projects N.
	Abrupt ascent.
67.00	Hollow,100 ft.deep,course N.
	Abrupt ascent.
71.00	Ridge,bears N.and S.
	Descend.
77.00	Hollow,100 ft.deep,course NW.
	Abrupt ascent.
80.20	The cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber, cedar and pinon.
	Mountainous land on 79.20 chs.
	May 1, 1910

	May 2: At 7h.57m.,a.m.,l.m.t.,I set off 39°47'N.on lat. arc,15°15'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.7-8-17 and 18.
	Thence I run
	N.89°51'W.,on a random line,bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
77.72	Intersect W.bdy.of Tp., 3.1ks.S.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	S.89°50'E.,on a true line,
	Bet.secs.7 and 18.
	Descend over rocky and mountainous land,through scattering timber.
9.50	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
12.00	Leave timber.
21.00	Hollow, 450 ft.deep,course N.
	Abrupt ascent over broken sandstone ledges.
33.50	Rocky spur,projects NW.
	Abrupt descent.
37.72	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 7 on N. half,S 18 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
44.30	Bottom of South Frank's Canyon,450 ft.deep,course NW.
	Abrupt ascent.
53.00	Enter scattering timber.
61.00	Ridge,bears NW.and SE.
	Descend.
77.72	The cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 77.72 chs.
	S.0°03'E.,bet.secs.17 and 18.
	Ascend over rocky and mountainous land,through scattering timber.
12.40	Ridge,bears NW.and SE.
	Leave timber.
25.50	Hollow,100 ft.deep,course W.
	Abrupt ascent.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
31.50	Spur,projects NW.
	Abrupt descent.
38.20	Bottom of South Frank's Canyon,300 ft.deep,course NW.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in'diam,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 18 on W. half, and S 17 on E.half,from which
	A pinon,9 ins.diam.,bears S.18°00'W.,17 lks.dist., marked ¼ S 18 BT.
	A cedar,5 ins.diam.,bears N.68°E.,7 lks.dist., marked ¼ S 17 BT.
	Abrupt ascent.
	Enter heavy timber,bears NW.and SE.
68.00	Top of abrupt ascent,bears E.and W.
	Gradual ascent over rocky land,through heavy timber.
73.50	Begin abrupt descent,bears E.and W.
75.00	Hollow,50 ft.deep,course E.
	Ascend over sandstone ledges.
76.00	Leave ledges,bearing E.and W.
	Gradual ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.17-18-19 and 20,marked on brass cap,T 12 S S 18 in NW.,
	R 17 E S 17 in NE.,
	S 20 in SE.and S 19 in SW.quadrant,from which
	A pinon,7 ins.diam.,bears N.39°30'E., 79½ lks. dist.,marked T 12 S R.17 E S 17 BT.
	A pinon,9 ins.diam.,bears S.31°E.,35 lks.dist., marked T 12 S R 17 E S 20 BT.
	A pinon,7 ins.diam.,bears S.51°30'W.,49 lks.dist. marked T 12 S R 17 E S 19 BT.
	A pinon,7 ins.diam.,bears N.41°W.,25½ lks.dist., marked T 12 S R 17 E S 18 BT.
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	May 2: At this cor.I set off 15°18'N.on decl.arc,and at 11h.57m.,a.m.l.m.t.,observe the sun on the meridian,the resulting lat.is 39°46'N.
	N.89°50'W.,on a random line,bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
77.84	Intersect W.bdy.of Tpe,5 lks.N.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°52'E.,on a true line,
	Bet.secs.18 and 19.
	Ascend abruptly along steep north slope,over broken sandstone ledges,through scattering timber.
3.50	Top of abrupt ascent,bears NE.and SW.
	Over level land, through heavy timber.
11.00	Begin abrupt descent over sandstone ledges,bearing N. and S.
12.50	Hollow,75 ft.deep,course N.
	Abrupt ascent.
21.00	Top of abrupt ascent,bears NE.and SW.
	Over level land.
24.00	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
28.50	Hollow,75 ft.deep,course N.
	Abrupt ascent.
35.00	Top of abrupt ascent,bears NE.and SW.
	Over level land.
37.84	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 18 on N. half,and S 19 on S.half,from which
	A pinon,10 ins.diam.,bears N.72°W.,15 lks.dist.,

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	marked ½ S 18 BT.
	A cedar,12 ins.diam.,bears S.3°W.,34 lks.dist.,
	marked ½ S 19 BT.
77.84	The cor.of secs.17-18-19 and 20.
	Land,mountainous and level.
	Soil,rocky,and thin layer of soil over solid sandstone,
	3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land,or land covered with heavy timber,
	on 77.84 chs.
	N.89°52'E.,on a random line,bet.secs.17 and 20.
40.00	Set temp.½ sec.cor.
80.12	Intersect N.and S.line,21 lks.N.of the cor.of secs.
	16-17-20 and 21.
	Thence I run
	N.89°59'W.,on a true line,
	Bet.secs.17 and 20.
	Ascend over rocky and mountainous land,along south
	slope.
1.50	Spur,projects S.
	Abrupt descent.
10.50	Bottom of Rock House Canyon,500 ft.deep,course SE.
	Abrupt ascent.
12.00	Enter heavy timber,bears NW.and SE.
35.00	Spur,projects NE.
	Descend.
37.00	Hollow,100 ft.deep,course NE.
	Leave heavy timber,bears NE.and SW.
	Ascend through scattering timber.
40.06	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the
	ground,for ¼ sec.cor.,marked on brass cap,½ S 17 on N.
	half,and S 20 on S.half,from which

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	A cedar,6 ins.diam.,bears N.43°30'E.,36 lks. dist.,marked ¼ S 17 BT.
	A cedar,4 ins.diam.,bears S.22°E.,33 lks.dist., marked ¼ S 20 BT.
41.50	Spur,projects NE.
	Descend.
49.75	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
74.10	Top of abrupt ascent,bears N.and SW.
	Enter heavy timber,bears N.and SW.
	Over level.land.
80.12	The cor.of secs.17-18-19 and 20.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land or heavily timbered on 80.12 chs.
	May 2, 1910.

	May 3: At 7h.57m.,a.m.,l.m.t.,I set off 39°46'N.on lat. arc,15°33'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.17-18-19 and 20.
	Thence I run
	S.0°03'E.,bet.secs.19 and 20.
	Over level land,through heavy timber.
6.00	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
12.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
22.00	Top of abrupt ascent,bears W.and SE.
	Over level land.
37.00	Begin abrupt descent,bearing NW.and SE.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on W.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	and S 20 on E.half,from which
	A pinon,5 ins.diam.,bears S.29°E.,145 lks.dist.,
	marked ½ S 20 BT.
	A pinon,6 ins.diam, bears N.18°W.,49 lks.dist.,
	marked ¼ S 19 BT.
44.00	Head of hollow,course SW.
72.00	Ridge,bears NE.and SW.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the
	ground,for cor.of secs.19-20-29 and 30,marked on brass
	cap,T 12 S S 19 in NW.,
	R 17 E S 20 in NE.,
	S 29 in SE.and S 30 in SW.quadrant, from which
	A pinon,5 ins.diam.,bears N.27°E.,101 lks.dist.
	marked T 12 S R 17 E S 20 BT.
	A pinon,7 ins.diam.,bears S.40°E.,35 lks.dist.,
	marked T 12 S R 17 E S 29 BT.
	A pinon,5 ins.diam.,bears S.35°W.,38 lks.dist.,
	marked T 12 S R 17 E S 30 BT.
	A pinon,12 ins.diam.,bears N.7°W.,51 lks.dist.,
	marked T 12 S R 17 E S 19 BT.
	Land,mountainous. and level.
	Soil,rocky,3rd.and 4th.rate
	Timber,cedar and pinon.
	Mountainous land on 59.00 chs.
	S.89°59'E.,on a random line,bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.16	Intersect N.and S.line,9 lks.S.of the cor.of secs.
	20-21-28 and 29.
	Thence I run
	S.89°57'W.,on a true line,
	Bet.secs.20 and 29.
	Ascend abruptly along steep,rocky south slope,through
	scattering timber.

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
21.00	Ridge,bears NW.and SW.
	Abrupt descent.
34.00	Hollow,150 ft.deep,course SE.
	Leave timber.
	Abrupt ascent.
40.08	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on N.half,S 29 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
54.00	Ridge,bears N.and S.
	Abrupt descent.
61.00	Hollow,75 ft.deep,course SW.
	Abrupt ascent.
	Enter scattering timber.
65.00	Spur,projects SW.
	Abrupt descent.
71.00	Hollow,300 ft.deep,course S.
	Abrupt ascent.
80.16	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.16 chs.
	May 3: At this cor.I set off 15°36'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°45'N.
	N.89°52'W.,on a random line,bet.secs.19 and 30.
40.00	Set temp.¼ sec.cor.
77.95	Intersect W.bdy.of Tp.,5 lks.N.of the cor.of secs. 19-24-25 and 30,heretofore described.
	Thence I run

SUBDIVISIONS OF T.12 S.,R.17 E.

CHAINS	
	S.89°54'E.,on a true line,
	Bet.secs.19 and 30.
	Ascend over rocky and mountainous land,through scattering timber.
4.50	Ridge,bears NW.and SE.
	Abrupt descent over sandstone ledges.
21.00	Hollow,700 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
35.00	Rocky spur,projects S.
	Abrupt descent.
37.95	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on N. half,S 30 on S.half,from which
	A pinon,6 ins.diam.,bears N.84°30'E.,25 lks.dist., marked ¼ S 19 BT.
	A pinon,5 ins.diam.,bears S.4°30'E.,30 lks.dist., marked ¼ S 30 BT.
49.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
51.00	Spur,projects S.
	Abrupt descent.
55.00	Hollow,200 ft.deep,course SW.
	Abrupt ascent.
72.00	Ridge,bears NE.and SW.
	Abrupt descent.
77.95	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 77.95 chs.
	May 3, 1910

The breaks of Jack Canyon begin about 15.00 chs.south of the cor.of secs.19,20,29 and 30,these are box canyons and perpendicular ledges,impossible to survey.

I return the line bet.secs.29 and 30 as unsurveyable.

BOUNDARIES OF T.12 S.,R.17 E.

Latitudes,departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
West Bdy.	North	299.62	299.62			
North Bdy.	East	477.60			477.60	
East Bdy.	South	299.62		299.62		
Subdivisions Bet.secs.						
24 & 25	N.89°54'W.	80.08	0.14			80.08
23 & 26	N.89°57'W.	79.86	0.07			79.86
22 & 27	N.89°56'W.	80.12	0.09			80.12
21 & 28	S.89°59'W.	80.06		0.02		80.06
20 & 29	S.89°57'W.	80.16		0.07		80.16
19 & 30	N.89°54'W.	77.95	0.14			77.95
Convergency					0.40	
	Totals,		300.06 299.71	299.71	478.00	478.23 478.00
	Error in lat.		0.35	Error in dep.		0.23

GENERAL DESCRIPTION.

This fractional township lies on the north side of Green River and forms the divide between Nine Mile Canyon and the river.

A high plateau,locally known as Horse Bench,runs through the northern portion of the township in a northeasterly direction,the soil of which,is a thin layer of sandy loam on the solid sandstone ledge,and supports a sparse growth of sage brush and bunch grass making it an excellent range.

The land breaks away abruptly from this plateau on the north and south sides,on the north the drainage is into Nine Mile Canyon,about 2000 ft.lower,and on the south, the drainage is into Green River,about 2500 ft.lower.

The soil of the balance is generally shale or sandstone ledges and supports on some of the north slopes a scattering growth of grass.

GENERAL DESCRIPTION OF T.12 S.,R.17 E.

A scattering growth of timber is found in the western portion,this timber is cedar and pinon.

The southern portion of this fractional township is extremely broken owing to its proximity to the Desolation Canyon of Green River,which runs through secs.25-26 and 27 and leaves the township on the south bdy.of sec.33.

The southwest portion of the township is cut by Jack Canyon,which passes near the point for the southwest corner of the township and joins Green River in sec.33. This canyon is about 2000 ft.deep,with nearly perpendicular sides which are cut by box canyons,which drain into the main canyon.

I return the southern portion of T.12 S.,R.17 E.,as unsurveyable.

There are no settlers in this township.

There is no surface water on the surveyed portion of this township.

There are no indications of oil,coal,or mineral found in this township.

Harvey L. Feist
U.S.Deputy Surveyor

Note:

There being no notary public or other officer authorized to administer oaths within a reasonable distance at the beginning or ending of the surveys under this contract;therefore,in order to save time and expense,I administer the preliminary and final oaths to my assistants myself.

Harvey L. Feist
U.S.Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D.Heist, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisio of T.11 S.,Rs.17 & 18 E.,and T.12 S.,Rs.17 and 18 E. S.L.B.& M.,in the state of Utah. showing the respective capacities in which they acted:

Lionel Babcock, *Chainman.*

Jack Barker, *Chainman.*

Floyd Hume, *Moundman.*

Will Carlisle, *Moundman.*

Will Light, *Axman.*

Axman.

George Walkup, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D.Heist, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of T.11 S.,Rs.17 and 18 E.,and t T.12 S.,Rs.17 and 18 E., of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Lionel Babcock, *Chainman.*

Jack Barker, *Chainman.*

Floyd Hume, *Moundman.*

Will Carlisle, *Moundman.*

Axman.

Will Light, *Axman.*

George Walkup, *Flagman.*

Subscribed and sworn to before me this 3rd day of May, 1910

SEAL

Harvey D. Heist
U.S.Deputy Surveyor

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of the 27th. day of March, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of T.11 S., Rs.17 and 18 E., and T.12 S., Rs.17 and 18 E., of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes in books S.T.U.& W. as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Harvey D. Heist
United States Deputy Surveyor.

Subscribed by said Harvey D Heist, and sworn to before me this 22 day of Dec, 1910

Jerrold R Sutcher Clerk
US Dist Court Dist
Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov.21, 1911.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 12 South, Range No.17 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D.Heist and Walter A.Stumm under their contract No. 312, dated March 27, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

United States Surveyor General.

4-131

Blank

Page

Blank

Page

4—679.

"X"

BOOK A-372

FILED
DEC 21 1910

M.S.R.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO.12 SOUTH, RANGE NO.16 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D.Heist and Walter A.Stumm, *United States Deputy Surveyor*s

Under ~~his~~ their *Contract No.* 312, *dated* March 27, *1909*

Survey commenced May 4, *1900*

Survey completed May 19, *1900*

6—161

24-58-20

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Lionel Babcock,	Chainman
Jack Barker,	"
Floyd Hume,	Moundman
Will Carlisle,	"
Will Light,	Axman
George Walkup,	Flagman

BOOK A-372

INDEX DIAGRAM.

Township 12 South, *Range* 16 East,

6 68 67	5 50 66	4 37 49	3 24 35	2 15 23	1 14
7 64 63	8 47 62	9 34 46	10 21 33	11 12 20	12 11
18 61 60	17 45 58	16 32 44	15 18 31	14 10 17	13 9
19 57 56	20 42 55	21 29 41	22 16 28	23 8 5	24 7
30 54 53	29 40 52	28 27 39	27 3 26	26	25
31 51	32 38	33 25	34 2	35	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, Lionel Babcock and Jack Barker, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tha we will report the true distances to all notable objects, and the true lengths of all lines that we assist i measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey o Subdivisions of Tps.12 S.,Rs.15 & 16 E.,S.L.B.& M.,in the state of Utah.

Lionel Babcock, Chainman
Jack Barker, Chainman

Subscribed and sworn to before me this 4th. day of May, 1910

SEAL

Walter A. Stimson
U.S.Deputy Surveyor

We, Floyd Hume, and Will Carlisle, do solemnly swear that we will well and truly perform the duties of moundmen in the establishmen of corners, according to the instructions given us, to the best of our skill and ability, in the survey Subdivisions of Tps.12 S.,Rs.15 & 16 E.,S.L.B.& M.,in the state of Utah.

Floyd Hume, Moundman
Will Carlisle, Moundman

Subscribed and sworn to before me this 4th. day of May, 1910

SEAL

Walter A. Stimson
U.S.Deputy Surveyor

~~We,~~ I, Will Light, ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corne and other duties, according to instructions given ~~us,~~ me to the best of ~~our~~ my skill and ability, in the survey Subdivisions of Tps.12 S.,Rs.15 & 16 E.,S.L.B.& M.,in the state of Utah.

Will Light, Axman
, Axman

Subscribed and sworn to before me this 4th. day of May, 1910

SEAL

Walter A. Stimson
U.S.Deputy Surveyor

I, George Walkup, do solemnly swear that I will well and tru perform the duties of flagman according to instructions given me, to the best of my skill and ability, in t survey of Subdivisions of Tps.12 S.,Rs.15 & 16 E.,S.L.B.& M.,in the st of Utah.

George Walkup, Flagman

Subscribed and sworn to before me this 4th. day of May, 1910

SEAL

Walter A. Stimson
U.S.Deputy Surveyor

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Survey commenced,May 4, 1910, and executed with the instrument described in book "C",of this survey. 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.2-3-34 and 35,on the S.bdy.of the TP. which is a sandstone,8x11x5 ins.above ground,marked and witnessed as described by the surveyor general,in approximate latitude,39°43'N.,longitude 110°08'W., I set off 39°43'N.on lat.arc,15°57'N.on decl.arc,and at 3h.57m.,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.
	May 4, 1910
	May 5: At 4h.41m.,a.m.,l.m.t.,I observe Polaris at eastern 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 a.m.,l.m.t.,I lay off the azimuth of Polaris,1°32' to the west,and mark the meridian thus determined,by cutting a small groove in the stone set last evening, on which the meridian,falls 0.4 ins.east of the mark determined by the solar.
	At 7h.59m.,a.m.,lmt.,I set off 39°43'N.,on lat.arc, 16°08'N.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.5 ins.east of the meridian established by the Polaris observation.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about,0'21" west and 0'26" east 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.30m., a.m.is N.16°10'W.,the angle thus determined,gives the mag.decl.16°10'E.
	As the cor.of secs.1-2-35 and 36,on the S.bdy.of the Tp.,cannot be set on account of falling in the impassable breaks of Jack Canyon,and the south 2 miles of the east bdy.cannot be run for the same reasons, I proceed to subdivide this township as follows:
	I begin at the cor.of secs.2-3-34 and 35,already described and run
	N.0°01'W.,bet.secs.34 and 35.
	Over level rocky land, through scattering timber.
28.00	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
	Leave timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 34 on W. half,S.35 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
[illegible]	Hollow,300 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
71.00	Enter scattering timber.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.26-27-34 and 35,marked on brass cap,T 12 S S 27 in NW.,
	R 16 E S 26 in NE.,
	S 35 in SE.and S 34 in SW.quadrant,from which
	A pinon,9 ins.diam.,bears N.69°E.,11 lks.dist.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	marked T.12 S.,R.16 E.,S 26 BT.
	A cedar,6 ins.diam.,bears S.36°E.,9 lks.dist.,
	marked T 12 S R 16 E S 35 BT.
	A cedar,7 ins.diam.,bears S.75°W.,51 lks.dist.,
	marked T 12 S R 16 E S 34 BT.
	A pinon,5 ins.diam.,bears N.87°W.,93 lks.dist.,
	marked T 12 S R 16 E S 27 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous,and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 52.00 chs.
	The line bet.secs.26 and 35,falls in the Jack Canyon breaks,which consist of box canyons,of great depth, draining in a south east direction.
	I return this line as unsurveyable.
	N.0°01'W.,bet.secs.26 and 27.
	Abrupt ascent over broken sandstone ledges,through scattering timber.
5.25	Ridge,bears NE.and W. Descend.
12.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
18.00	Top of abrupt ascent,bears NE.and SW.
	Over level land.
26.00	Begin abrupt descent over broken sandstone ledges, bearing NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on W. half,S 26 on E.half,from which
	A pinon,5 ins.diam.,bears N.28°E.,59 lks.dist., marked ¼ S 26 BT.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	A pinon,5 ins.,diam.,bears S.71°W.,69 lks.dist., marked ¼ S 27 BT.
51.10	Hollow,200 ft.below top of spur,course NE.
	Abrupt ascent.
58.00	Top of abrupt ascent,bears NE.and SW.
	Begin gradual descent over wide spur,projecting N., through heavy timber.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.22-23-26 and 27,marked on brass cap,T 12 S S 22 in NW.,
	R 16 E S 23 in NE.,
	S 26 in SE.and S 27 in SW.quadrant,from which
	A pinon,10 ins.diam.,bears N.29°E.,62 lks.dist., marked T 12 S R 16 E S 23 BT.
	A pinon,7 ins.diam.,bears S.61°30'E.,9½ lks.dist., marked T 12 S R 16 E S 26 BT.
	A pinon,7 ins.diam.,bears S.28°W.,29 lks.dist., marked T 12 S R 16 E S 27 BT.
	A pinon,10 ins.diam.,bears N.46°W.,61 lks.dist., marked T 12 S R 16 E S 22 BT.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 72.00 chs.
	May 5: At this cor.I set off 16°11'N.on decl.arc,and at 11h.57m.,a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°45'N.

The south bdys.of secs.35 and 36 not being established on the south bdy.of the Tp.,for reasons given heretofore I establish an auxiliary base,according to Sec.148, Page 61 of the Manual,as follows:

I begin at the cor.of secs.22-23-26 and 27,and run

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	East,on a random line,bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
80.00	Set temp.cor.for cor.of secs.23-24-25 and 26.
	I continue east on random line,
120.00	Set temp.¼ sec.cor.for secs.24 and 25
160.28	Intersect E.bdy.of Tp., 18 lks.S.of the cor.of secs. 19-24-25 and 30,heretofore described.
	The course of the return line will be S.89°56'W.,and the length of each quarter sec.,40.07 chs.
	May 5, 1910.

	May 6: At 7h.57m.,a.m.,l.m.t.,I set off 39°45'N.on lat. arc,16°25'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.19-24-25 and 30, heretofore described on the east bdy.of the Tp.,
	Thence I run
	S.89°56'W.,on a true line,
	Bet.secs.24 and 25.
	Descend over rocky and mountainous land,through scattering timber.
1.50	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
13.00	Hollow,500 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
28.00	Top of ledges,bearing NW.and SE.
	Ascend abruptly over rocky land.
40.07	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 24 on N. half,S 25 on S.half,from which
	A pinon,5 ins.diam.,bears N.50°E.,58 lks.dist., marked ¼ S 24 BT.
	A pinon,7 ins.diam.,bears S.49°W.,27 lks.dist., marked ¼ S 25 BT.
47.57	Ridge,bears NW.and SE.

BOOK A-372

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Abrupt descent.
56.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
63.00	Sandstone spur,projects S.
	Abrupt descent.
72.75	Hollow,200 ft.deep,course S.
	Abrupt ascent.
76.00	Sandstone spur,projects S.
	Abrupt descent.
78.00	Hollow,250 ft.deep,course SE.
	Abrupt ascent.
80.14	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone an earth,for cor.of secs.23-24-25 and 26,marked on brass cap,T 12 S S 23 in NW., R 16 E S 24 in NE., S 25 in SE.and S 26 in SW.quadrant,from which
	A pinon,5 ins.diam.,bears N.57°E.,38 lks.dist., marked T 12 S R 16 E S 24 BT.
	A pinon,8 ins.diam.,bears S.53°E.,15 lks.dist., marked T 12 S R 16 E S 25 BT.
	A pinon,5 ins.diam.,bears S.30°W.,18 lks.dist., marked T 12 S R 16 E S 26 BT.
	A pinon,6 ins.diam.,bears N.27°W.,10 lks.dist., marked T 12 S R 16 E S 23 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land mountainous.
	Soil, rocky,3rd.and 4th.rate.
	Timber, cedar and pinon.
	Mountainous land on 80.14 chs.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	S.89°56'W.,on a true line,
	Bet.secs.23 and 26.
	Ascend abruptly over sandstone ledges,through scattering timber.
25.70	Ridge,bears NE.and SW.
	Descend abruptly over steep north slope,over broken sandstone ledges.
40.07	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ½ sec.cor.,marked on brass cap,¼ S 23 on N.half,S 26 on S.half,from which
	A pinon,4 ins.diam.,bears N.64°E.,18 lks.dist., marked ¼ S 23 BT.
	A pinon,5 ins.diam.,bears S.21°W.,11½ lks.dist. marked ¼ S 26 BT.
71.00	Bottom of Pinnacle Canyon, 300 ft.below top of ridge, course N.
	Abrupt ascent.
77.00	Top of abrupt ascent,bears N.and S.
	Over level rocky land.
80.14	The cor.of secs.22-23-26 and 27.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 77.14 chs.
	May 6: At this cor.I set off 16°28'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°45'N.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	The line bet.secs.25 and 26,falls on the breaks on the north side of Jack Canyon, which consist of box canyons draining in a southeasterly direction ,impossible to survey over.
	I therefore return the line bet.secs.25 and 26 as unsurveyable.

	From the cor.of secs.23-24-25 and 26, I run N.0°01'W.,bet.secs.23 and 24.
	Abrupt descent over broken sandstone ledges,along steep east slope,through scattering timber.
2.00	Hollow,250 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
21.50	Ridge,bears NE.and SW.
	Abrupt descent.
31.00	Leave timber,bears NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 23 on W. half,S 24 on 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.
43.00	Head of hollow,course NW.
	Ascend.
55.00	Enter scattering timber.
60.00	Ridge,bears NW.and SE.
	Abrupt descent.
79.50	Hollow,150 ft.deep,course NW.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.13-14-23 and 24,marked on brass cap,T 12 S S 14 in NW.,
	R 16 E S 13 in NE.,
	S 24 in SE.and S 23 in SW.quadrant, from which

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	A pinon,6 ins.diam.,bears N.4°E.,84 lks.dist., marked T 12 S R 16 E S 13 BT.
	A cedar,7 ins.diam.,bears S.14°E.,171 lks.dist., marked T 12 S R 16 E S 24 BT.
	A pinon,8 ins.diam.,bears S.28°W.,236 lks.dist., marked T 12 S R 16 E S 23 BT.
	A pinon,6 ins.diam.,beaes N.2°W.,123 lks.dist., marked T 12 S R 16 E S 14 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°56'E.,on a random line,bet.secs.13 and 24.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.18	Intersect E.bdy.of Tp.,7 lks.N.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°59'W.,on a true line, Bet.secs.13 and 24.
	Descend over rocky and mountainous land,along steep north slope,through scattering timber.
13.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
20.50	Ridge,bears NE.
	Abrupt descent.
27.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
36.70	Ridge,bears NE.and SW.
	Descend.
40.09	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 13 on N.half,S 24 on S.half,from which
	A pinon,10 ins.diam.,bears N.81°E.,23 lks.dist.,

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	marked ¼ S 13 BT.
	A pinon,7 ins.diam.,bears S.66°W.,28 lks.dist.,
	marked ¼ S 24 BT.
42.00	Head of hollow,course NE.
	Abrupt ascent.
48.00	Ridge,bears NW.and SE.
	Abrupt descent.
80.18	The cor.of secs.13-14-23 and 24.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.18 chs.
	May 6, 1910

	May 7: At 7h.56m.,a.m.,l.m.t.,I set off 39°46'N.on lat. arc,16°42'N.on 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 abruptly over rocky and mountainous land, through scattering timber.
11.00	Ridge,bears NW.and SE.
	Descend.
34.00	Hollow,150 ft.deep,course W.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia, 26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 14 on W.half,S 13 on E.half,from which
	A pinon,7 ins.diam.,bears S.52°W.,59 lks.dist., marked ¼ S 14 BT.
	A pinon,7 ins.diam.,bears N.26°E.,43 lks.dist., marked ¼ S 13 BT.
62.00	Ridge,bears NW.and SE.
	Abrupt descent.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.11-12-13 and 14,marked on brass cap,T 12 S S 11 in NW., R 16 E S 12 in NE., S 13 in SE.and S 14 in SW.quadrant,from which
	A pinon,4 ins.diam.,bears N.62°E.,50 lks.dist., marked T 12 S R 16 E S 12 BT.
	A pinon,5 ins.diam.,bears S.46°30'E.,26 lks.dist., marked T 12 S R 16 E S 13 BT.
	A pinon,9 ins.diam.,bears S.84°W.,45 lks.dist., marked T 12 S R 16 E S 14 BT.
	A pinon,6 ins.diam.,bears N.3°W.,46 lks.dist., marked T 12 S R 16 E S 11 BT.
	Note: On account of natural obstacles,it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°59'E.,on a random line,bet.secs.12 and 13.
40.00	Set temp.¼ sec.cor.
80.30	Intersect N.and S.line,5 lks.S.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°57'W.,on a true line,
	Bet.secs.12 and 13.
	Descend over rocky and mountainous land,through scattering timber.
10.50	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
26.00	Hollow,450 ft.deep,course N. Abrupt ascent.
30.50	Spur,projects N. Abrupt descent.
40.15	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	ground,for ¼ sec.cor.,marked on brass cap,¼S 12 on N. half,S 13 on S.half,from which
	A pinon,10 ins.diam.,bears S.41°E.,52 lks.dist., marked ¼ S 13 BT.
	A pinon,5 ins.diam.,bears N.73°E.,194 lks.dist., marked ¼ S 12 BT.
	This cor.is set in bottom of hollow,400 ft.deep, course NE. Abrupt ascent.
59.50	Ridge,bears NE.and SW.
	Descend.
62.00	Head of hollow,course N. Ascend.
63.50	Spur,projects N. Descend.
65.00	Hollow,75 ft.deep,course N.
	Abrupt ascent.
69.50	Spur,projects N.
	Descend along steep,north slope.
74.00	Hollow,75 ft.deep,course N. Ascend.
80.30	The cor.of secs.11-12-13 and 14.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.30 chs.
	May 7: At this cor.I set off 16°44'N.,on decl.arc,and at 11h.56m.,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°47'N.
	N.0° 01'W.bet.secs.11 and 12,
	Descend over rocky and mountainous land,through heavy timber.
4.50	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
7.60	Top of abrupt ascent,bears NE.and SW.
	Over level rocky land.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
11.75	Begin abrupt descent,bears E.and W.
19.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
23.65	Top of abrupt ascent,bears NE.and SW.
	Over level rocky land.
29.10	Begin abrupt descent,over broken sandstone ledges, bearing NE.and SW.
	Leave heavy timber,enter scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 11 on W.half,S 12 on E.half;from which
	A cedar,9 ins.diam.,bears S.28°E.,30 lks.dist., marked ¼ S 12 BT.
	A pinon,7 ins.diam.,bears S.3°W.,69 lks.dist., marked ¼ S 11 BT.
40.20	Hollow,200 ft.deep,course NE.
	Abrupt ascent over broken sandstone ledges.
51.00	Top of abrupt ascent,bears NE.and SW.
	Over level rocky land.
	Leave timber.
59.75	Descend abruptly along steep west slope over broken sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.1-2-11 and 12,marked on brass cap,T 12 S S 2 in NW.,
	R 16 E S 1 in NE.,
	S 12 in SE.and S 11 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set the posts at the ¼ sec.cor.and at the sec. cor.over 12 ins.in the ground,
	Land,mountainous and level.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land or land heavily timbered on 80.00 chs.
	N.89°57'E.,on a random line,bet.secs.1 and 12.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.14	Intersect E.bdy.of Tp.,5 lks.N.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	S.89°59'W.,on a true line,
	Bet.secs.1 and 12.
	Ascend over rocky and mountainous land,through scattering timber.
8.50	Ridge,bears NW.and SE.
	Descend. Leave timber.
16.30	Descend abruptly over sandstone ledges,bearing NW.and SE.
35.50	Bottom of South Frank's Canyon,700 ft.deep,course NW.
	Abrupt ascent.
40.07	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 1 on N. half,S 12 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
58.30	Top of abrupt ascent, bears NW.and SE.
	Over level rocky land.
64.00	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
80.14	The cor.of secs.1-2-11 and 12.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 74.44 chs.

SUBDIVISIONS of T.12 S.,R.16 E.

CHAINS	
	N.0°01'W.,on a random line,bet.secs.1 and 2.
40.00	Set temp.¼ sec.cor.
59.64	Intersect N.bdy.of Tp.,16 lks.W.of the cor.of secs. 1-2-35 and 36,heretofore described.
	Thence I run
	S.0°06'W.,on a true line,
	Bet.secs.1 and 2.
	Descend abruptly over rocky and mountainous land, along steep east slope,on west side of Frank's Canyon.
0.50	Hollow,150 ft.deep,course E.
	Abrupt ascent along east slope.
5.00	Spur,projects E.
	Abrupt descent.
7.00	Hollow,150 ft.deep,course E.
	Abrupt ascent.
19.64	Top of rocky spur,projects E.
	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 2 on W half,S 1 on E.half,and raise a mound of stone,2 ft.base 1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of naturalobstacles it is impossible to set this post over 12 ins.in the ground.
	Abrupt descent along broken east slope.
37.50	Enter bottom of Nine Mile Canyon,900 ft.course NE.
	Gradual descent through dense undergrowth.
38.00	Canyon road,bears NE.and SW.
46.00	Minnie Maud Creek,25 lks.wide,15 ins.deep,course NE.
	Begin gradual ascent.
49.00	Leave bottom of Canyon, begin abrupt ascent over broken sandstone ledges,bearing NE.and SW.
54.75	Sandstone spur,projects W.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Descend along steep west slope.
59.64	The cor.of secs.1-2-11 and 12.
	Land,mountainous and bottom land.
	Soil,rocky,3rd.and 4th.rate on 48.14 chs.
	balance, rocky loam,2nd.rate.
	Timber,scattering cottonwood along the creek.
	Undergrowth, greasewood, sage brush and willows.
	Mountainous land,or land covered with dense undergrowth on 59.64 chs.
	May 7, 1910
	May 8: At 7h.56m.,a.m.,l.m.t.,I set off 39°45'N.on Mat. arc, 16°58'N.on decl.arc,and determine a meridian 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.
	Descend abruptly over rocky and mountainous land,through heavy timber.
2.00	Descend over ledges,bearing NE.and SW.
14.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
36.00	Spur,projects NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ½ sec.cor.,marked on brass cap,¼ S 22 on W. half,S 23 on E.half,from which
	A pinon,10 ins.diam.,bears N.87°W.,26 lks.dist., marked ½ S 22 BT.
	A pinon,10 ins.diam.,bears S.51°E.,42 lks.dist., marked ½ S 23 BT.
42.00	Hollow,50 ft.deep,course NE.
	Ascend.
46.00	Top of ascent,bears NE.and SW.
	Over level land.
66.00	Begin abrupt descent over broken sandstone ledges,bearing NW.and SE.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.14-15-22 and 23,marked on brass cap,T 12 S S 15 in NW., R 16 E S 14 in NE., S 23 in SE.and S 22 in SW.quadrant,from which
	A pinon,5 ins.diam.,bears N.25°E.,23 lks.dist., marked T 12 S R 16 E S 14 BT.
	A pinon,6 ins.diam.,bears S.58°E.,32 lks.dist., marked T 12 S R 16 E S 23 BT.
	A cedar,5 ins.diam.,bears S.66°30'W.,26 lks.dist., marked T 12 S R 16 E S 22 BT.
	A pinon,5 ins.diam.,bears N.4°30'W.,64 lks.dist., marked T 12 S R 16 E S 15 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 60.00 chs.
	N.89°56'E.,on a random line,bet.secs.14 and 23.
40.00	Set temp.½ sec.cor.
80.02	Intersect N.and S.line,5 lks.N.of the cor.of secs. 13-14-23 and 24.
	Thence I run
	S.89°58'W.,on a true line,
	Bet.secs.14 and 23.
	Descend over rocky and mountainous land,through scattering timber.
5.00	Hollow,150 ft.deep,course NW.
	Ascend.
18.50	Spur,projects NW.
	Descend.
28.00	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
34.50	Same hollow,250 ft.deep,course SW.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Leave timber.
	Begin abrupt ascent along steep south slope,over broken sandstone ledges.
40.01	Set an iron post,3 ft.long;1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 14 on N. half;S 23 on S.half;and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
49.00	Sandstone spur,projects S.
	Abrupt descent.
64.00	Pinnacle Canyon,400 ft.deep,course NW.
	Abrupt ascent.
	Enter scattering timber.
75.00	Spur,projects N.
	Abrupt descent.
78.00	Hollow,100 ft.deep,course N.
	Abrupt ascent along steep north slope.
80.02	The cor.of secs.14-15-22 and 23.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.02 chs.
	May 8: At this cor.I set off 17°01'N.on decl.arc,and at 11h.56m.a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°46'N.
	N.0°01'W,bet.secs.14 and 15.
	Abrupt descent over broken sandstone ledges,through scattering timber.
11.00	Pinnacle Canyon,500 ft.deep,course NW.
	Abrupt ascent.
30.60	Sandstone spur,projects NW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 15 on W. half,S 14 on E.half,from which
	A pinon,8 ins.diam.,bears N.53°E.,17 lks.dist., marked ¼ S 14 BT.
	A pinon,8 ins.diam.,bears S.73°W.,31 lks.dist., marked ¼ S 15 BT.
46.50	Pinnacle Canyon,600 ft.deep,course NE.
	Abrupt ascent.
59.00	Spur,projects NE.
	Abrupt descent.
65.00	Hollow,100 ft.deep,course E.
	Abrupt ascent.
72.50	Spur,projects E.
	Abrupt descent.
77.00	Hollow,150 ft.deep,course E.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.10-11-14 and 15,marked on brass cap,T 12 S S 10 in NW.,
	R 16 E S 11 in NE.,
	S 14 in SE.and S 15 in SW.quadrant, from which
	A pinon,4 ins.diam.,bears N.34°E.,41 lks.dist., marked T 12 S R 16 E S 11 BT.
	A pinon,7 ins.diam.,bears S.81°E.,74 lks.dist., marked T 12 S R 16 E S 14 BT.
	A pinon,4 ins.diam.,bears S.78°W.,15 lks.dist., marked T 12 S R 16 E S 15 BT.
	A pinon,8 ins.diam.,bears N.74°W.,83 lks.dist., marked T 12 S R 16 E S 10 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	N.89°58'E.,on a random line,bet.secs.11 and 14.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N.and S.line,5 lks.N.of the cor.of secs. 11-12-13 and 14.
	Thence I run
	West, on a true line,
	Bet.secs.11 and 14.
	Ascend abruptly over rocky and mountainous land,through heavy timber.
14.00	Top of abrupt ascent,bears N.and S.
	Over level and rocky land.
38.50	Begin abrupt descent over sandstone ledges,bearing N. and S.
	Leave heavy timber,enter scattering timber.
40.03	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 11 on N. half,S 14 on S.half,from which
	A pinon,5 ins.diam.,bears N.85°E.,147 lks.dist. marked $\frac{1}{4}$ S 11 BT.
	A pinon,4 ins.diam.,bears S.63°E.,169 lks.dist. marked $\frac{1}{4}$ S 14 BT.
63.00	Bottom of Pinnacle Canyon, 800 ft.below top of mesa, course N.
	Abrupt ascent.
80.06	The cor.of secs.10-11-14 and 15.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land or heavily timbered land on 80.06 chs.
	May 8, 1910

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	May 9: At 7h.56m.,a.m.,l.m.t.,I set off 39°47'N.on Mat'l. arc,17°15'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.10-11-14 and 15.
	Thence I run
	N.0°01'W.,bet.secs.10 and 11.
	Abrupt ascent over rocky and mountainous land,through scattering timber.
1.50	Spur,projects E.
	Abrupt descent.
4.50	Hollow,75 ft.deep,course E.
	Abrupt ascent.
7.00	Spur,projects E.
	Abrupt descent.
15.00	Hollow,200 ft.deep,course E.
	Abrupt ascent.
22.00	Rocky spur,projects E.
	Abrupt descent.
31.00	Pinnacle Canyon,800 ft.deep,course NW.
	Abrupt ascent.
35.66	Spur,projects W.
	Abrupt descent.
39.00	Same canyon, 800 ft.deep,course NE.
	Abrupt ascent. Leave timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on W. half,S 11 on E.half,from which
	A cedar,6 ins.diam.,bears S.4°W.,201 lks.dist., marked ¼ S 11 BT.
	No other trees within limits and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
41.50	Rocky spur,projects E.
	Abrupt descent.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
45.00	Same canyon,course NW.
	Abrupt ascent.
51.00	Rocky spur,projects W.
	Abrupt descent.
58.50	Bend in same canyon, course from SW.to NW.
	Ascend along west slope.
70.00	Spur,projects NW.
	Abrupt descent.
73.00	Log cabin belonging to Joseph K.W.Bracken,bears E., 7.00 chs.dist.
76.25	Enter bottom of Nine Mile Canyon,1000 ft.deep,course SE.
	Enter dense undergrowth.
77.50	Minnie Maud Creek,25 lks.wide,18 ins.deep,course E.
78.00	Enter cultivated land,bears E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.2-3-10 and 11,marked on brass cap,T 12 S S 3 in NW.,
	R 16 E S 2 in NE.,
	S 11 in SE.and S 10 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous and bottom land.
	Soil,rocky,3rd.and 4th.rate on 76.25 chs.
	balance,loam,1st.rate.
	Timber,cedar and pinon.
	Undergrowth,greasewood and willows.
	Mountainous land on 76.25 chs.
	May 9: At this cor.I set off 17°17'N.on decl.arc,and at 11h.56m.,a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°48'N.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	East,on a random line,bet.secs.2 and 11.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.12	Intersect N.and S.line,9 lks.S.of the cor.of secs. 1-2-11 and 12.
	Thence I run
	S.89°56'W.,on a true line,
	Bet.secs.2 and 11.
	Descend abruptly over broken sandstone ledges.
3.00	Hollow,800 ft.deep,course N.
	Abrupt ascent over sandstone ledges.
12.50	Sandstone spur,projects N.
	Abrupt descent along steep north slope over solid sandstone.
32.50	Hollow,300 ft.deep,course N.
	Abrupt ascent.
40.06	Set an iron post,3 ft.long,1 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,S 11 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
41.80	Ridge,bears N.and S.
	Abrupt descent over sandstone ledges.
45.75	Enter bottom of Nine Mile Canyon,1000 ft.deep,course N.
	Over level land,through dense undergrowth.
49.75	Canyon road,bears N.and S.
50.25	Enter cultivated land,bears N.and S.
51.00	Leave cultivated land,bears NE.and SW., 2.00 chs. SW. from the N.end of the cultivated land,belonging to Joseph K.W.Brackem.
52.00	Bend in Minnie Maud Creek,25 lks.wide, 18 ins.deep, course from NW. to NE.
59.00	Same creek,25 lks.wide,18 ins.deep,course NE.
	Leave canyon,begin abrupt ascent over rocky land,bearing NE.and SW.

BOOK A-372

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
69.35	Rocky spur,projects SE.
	Abrupt descent over nearly perpendicular sandstone ledges,bearing NW.and SE.
72.00	Foot of abrupt descent,300 ft.below top of spur,bears NW.and SE.
	Over level land,in bottom of Nine Mile Canyon,through dense undergrowth.
75.75	Canyon road,bears NW.and SE.
	Enter cultivated land,bears NW.and SE.
80.12	The cor.of secs.2-3-10 and 11.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 58.75 chs. balance,loam,1st.rate.
	No timber.
	Undergrowth,greasewood and willows.
	Mountainous land or land covered with dense undergrowth on 80.12 chs.
	N.0°01'W.,on a random line,bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
59.72	Intersect N.bdy.of Tp.,6 lks.W.of the cor.of secs. 2-3-34 and 35,heretofore described.
	Thence I run
	S.0°02'W.,on a true line,
	Bet.secs.2 and 3.
	Descend abruptly along steep,east slope,over broken sandstone ledges.
5.00	Head of hollow,course NE.
	Abrupt ascent.
10.26	Top of abrupt ascent,bears NW.and SE.
	Over level land,through sparse undergrowth.
19.72	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on W.

CHAINS	
	S 2 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
27.00	Begin abrupt descent over sandstone ledges,bearing E. and W.
55.75	Foot of abrupt descent,bears E.and W.
	Over level land in bottom of Nine Mile Canyon,1000 ft. deep,course SE.
57.50	Canyon road,bears E.and W.
	Enter cultivated land,bears E.and W.
59.72	The cor.of secs.2-3-10,and 11.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate,on 55.57 chs. balance,loam,1st.rate.
	No timber.
	Mountainous land on 55.75 chs.
	May 9,1910

May 10: At 7h.56m.,a.m.,l.m.t.,I set off 39°43'N.on lat. arc,17°31'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34,on the S. bdy.of the Tp.,which is a sandstone,6x11x5 ins.above ground,marked and witnessed.as described by the surveyor general.

Thence I run

N.0°02'W.,bet.secs.33 and 34.

	Descend abruptly over rocky and mountainous land, through scattering timber.
2.25	Hollow,250 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
9.75	Top of abrupt ascent,bears E.and W.
	Leave sandstone ledges, and timber,ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground for ¼ sec.cor.,marked on brass cap,¼ S 33 on W.and S 34

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	on E.half,and raise a mound of stone,2 ft.base,1½ ft. high,W.of cor.
	Pits impracticable.
62.00	Ridge,bears NE.and SW.
	Abrupt descent over broken sandstone ledges,through scattering timber.
74.00	Foot of abrupt descent,bears NE.and SW.
	Leave timber.
80.00	Set an iron post,3 ft.long,2 ins.dia., 24 ins.in the ground,for cor.of secs.27-28-33 and 34,marked on brass cap,T 12 S S 28 in NW.,
	R 16 E S 27 in NE.,
	S 34.in SE.and S 33 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	East,on a random line,bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line,7 lks.N.of the cor.of secs. 26-27-34 and 35.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.27 and 34.
	Ascend abruptly along steep south slope over sandstone ledges,through scattering timber.
19.00	Top of abrupt ascent,bears N.and S.
	Over level land.
23.00	Begin abrupt descent along steep north slope,bearing NW.and SE.
36.00	Hollow,300 ft.deep,course SE.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Leave timber.
	Abrupt ascent over broken sandstone ledges.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on N. half,S 34 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
40.40	Top of perpendicular sandstone ledge,50 ft.high, bears NE.and SW.
	Over level top of ridge,bearing NE.and SW.,through heavy timber.
48.00	Leave ridge,bears NE.and SW.
	Begin abrupt descent over steep north slope,through scattering timber.
65.00	Foot of abrupt descent,bears NE.and SW.
	Leave timber.
	Descend.
80.08	The cor.of secs.27-28-33 and 34.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.08 chs.
	May 10: At this cor.I set off 17°33'N.on decl.arc,and at 11h.56m,p.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°44'N.
	N.0°02'W.,bet.secs.27 and 28.
	Descend over rocky and mountainous land.
8.50	Begin abrupt descent over broken sandstone ledges and through scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 28 on W. half,S 27 on E.half,from which
	A cedar,4 ins.diam.,bears N.17°E.,23 lks.dist.,

8

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	marked ¼ S 27 BT.
	A pinon,10 ins.diam.,bears S.76°W.,98 lks.dist.
	marked ¼ S 28 BT.
44.00	Hollow,500 ft.deep,course NW.
	Abrupt ascent.
62.50	Top of abrupt ascent,bears NW.and SE.
	Over level land.
67.75	Begin abrupt descent,bears NW.and SE.
	Abrupt descent.
76.00	Hollow,400 ft.deep,course NW.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 in.dia.,24 ins.in the ground,for cor.of secs.21-22-27 and 28,marked on brass cap,T 12 S S 21 in NW.,
	R 16 E S 22 in NE.,
	S 27 in SE.,and S 28 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.5°E.,46 lks.dist.,
	marked T 12 S R 16 E S 22 BT.
	A pinon,12 ins.diam.,bears S.35°E.,17 lks.dist.,
	marked T 12 S R 16 E S 27 BT.
	A pinon,5 ins.diam.,bears S.58°W.,40 lks.dist.,
	marked T 12 S R 16 E S 28 BT.
	A cedar,10 ins.diam.,bears N.35°W.,44 lks.dist.,
	marked T 12 S R 16 E S 21 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 74.75 chs.

	S.89°57'E.,on a random line,bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,5 lks.N.of the cor.of secs. 22-23-26 and 27.
	Thence I run

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	N.89°55'W.,on a true line,
	Bet.secs.22 and 27.
	Over level rocky land,through heavy timber.
3.00	Begin abrupt descent,bears NE.and SW.
9.00	Hollow,250 ft.deep,course NE.
	Abrupt ascent.
40.06	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 22 on N. half,S 27 on S.half, from which,
	A pinon,7 ins.diam.,bears S.38°E.,28 lks.dist. marked ¼ S 27 BT.
	A cedar,12 ins.diam.,bears N.39°E.,21 lks.dist. marked ¼ S 22 BT.
47.00	Ridge,bears N.and S.
	Descend.
62.00	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
	Leave heavy timber,bears N.and S.
	Enter scattering timber.
80.12	The cor.of secs.21-22-27 and 28.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 77.12 chs.
	May 10, 1910

	May 11: At 7h.56m.,a.m.,l.m.t.,I set off 39°45'N,on lat. arc,17°46'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.21-22-27 and 28.
	Thence I run
	N.0°02'W.,bet.secs.21 and 22.
	Ascend abruptly over broken sandstone ledges,through scattering timber.
11.30	Top of abrupt ascent,bears E.and W.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Enter heavy timber,bears E.and W.
	Over level land.
22.50	Begin abrupt descent over broken sandstone ledges, bearing E.and W.
38.00	Hollow,500 ft.deep,course NW.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 21 on W. half,S 22 on E.half,from which
	A cedar,8 ins.diam.,bears N.21°W.,26½ lks.dist., marked ¼ S 21 BT.
	A pinon,15 ins.diam.,bears N.68°E.,34 lks.dist., marked ¼ S 22 BT.
47.00	Rocky spur,projects W.
	Abrupt descent.
52.00	Hollow,400 ft.deep,course W.
	Abrupt ascent over sandstone ledges.
76.00	Ridge,bears NW.and SE.
	Abrupt descent.
80,00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.15-16-21 and 22,marked on brass cap,T 12 S S 16 in NW.,
	R 16 E S 15 in NE.,
	S 22 in SE.and S 21 in SW.quadrant,from which
	A pinon,8 ins.diam.,bears N.45°E.,57 lks.dist., marked T 12 S R 16 E S 15 BT.
	A pinon,5 ins.diam.,bears S.81°E.,41 lks.dist. marked T 12 S R 16 E S 22 BT.
	A pinon,7 ins.diam.,bears S.27°30'W.,33½ lks. dist.,marked T 12 S R 16 E S 21 BT.
	A pinon,6 ins.diam.,bears N.34°30'W.,39 lks.dist. marked T 12 S R 16 E S 16 BT.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Timber,cedar and pinon.
	Mountainous land on 68.80 chs.
	S.89°55'E.,on a random line,bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N.and S.line,5 lks.S.of the cor.of secs. 14-15-22 and 23.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.15 and 22.
	Ascend abruptly over rocky and mountainous land,through heavy cedar and pinon timber.
2.80	Rocky spur,projects N.
	Abrupt descent.
13.00	Hollow,400 ft.deep,course NE.
	Leave timber,bears NE.and SW.
	Abrupt ascent over broken sandstone ledges.
30.00	Top of abrupt ascent,and sandstone ledges,bearing NE. and SW.
	Enter heavy timber,bears NE.and SW.
	Ascend.
36.00	Ridge,bears NE.and SW.
	Descend.
40.10	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 15 on N. half,S 22 on S.half,from which
	A pinon,8 ins.diam.,bears N.25°E.,32 lks.dist., marked ¼ S 15 BT.
	A pinon,9 ins.diam.,bears S.18°W.,97 lks.dist., marked ¼ S 22 BT.
64.75	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
70.00	Ridge,bears N.and S.
	Descend.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
72.00	Begin abrupt descent over broken sandstone ledges, bearing N.and S.
	Leave heavy timber,enter scattering timber,bears E. and W.
80.20	The cor.of secs.15-16-21 and 22.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.20 chs.
	May 11: At this cor.I set off 17°49'N.on decl.arc,and at 11h.56m.,p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°46'N.
	N.0°02'W.,bet.secs.15 and 16.
	Descend abruptly over rocky and mountainous land,along steep west slope,through scattering timber.
8.50	Hollow,400 ft.deep,course NW.
	Abrupt ascent.
26.85	Top of abrupt ascent,bears NW.and SE.
	Ascend.
28.00	Ridge,bears NW.and SE.
	Descend.
39.00	Begin abrupt descent,bearing NW.and SE.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on W. half,S 15 on E.half,from which
	A pinon,5 ins.diam.,bears N.5°W.,70 lks.dist., marked ¼ S 16 BT.
	A pinon,5 ins.diam.,bears S.12°E.,119 lks.dist. marked ¼ S 15 BT.
55.75	Hollow,400 ft.deep,course NW.
	Abrupt ascent.
62.50	Rocky spur,projects NW.
	Abrupt descent along steep west slope.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
71.75	Hollow,300 ft.deep,course W.
	Leave timber.
	Abrupt ascent.
76.00	Sandstone spur,projects W.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.9-10-15 and 16,marked on brass cap,T 12 S S 9 in NW.,
	R 16 E S 10 in NE.,
	S 15 in SE.and S 16 in NW. quadrants and raise a mound of stone.
	2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	S.89°57'E.,on a random line,bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
80.18	Intersect N.and S.line,5.1ks.S.of the cor.of secs. 10-11-14 and 15.
	Thence I run
	N.89°59'W.,on a true line,
	Bet.secs.10 and 15.
	Ascend abruptly over rocky and mountainous land,through scattering timber.
6.70	Spur, projects N.
	Abrupt descent.
16.25	Hollow,250 ft.deep,course NE.
	Abrupt ascent.
35.00	Top of abrupt ascent,bears N.and S.
	Over level land.
39.25	Begin abrupt descent over sandstone ledges,bearing N.and S.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Leave timber.
40.09	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on N. half,S 15 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
51.50	Hollow,300 ft.below top of mesa,course N.
	Abrupt ascent.
59.70	Ridge,bears N.and S.
	Abrupt descent along steep north slope.
80.18	The cor.of secs.9-10-15 and 16.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.18 chs.
	May 11, 1910.
	May 12: At 7h.56m.,a.m.,l.m.t.,I set off 39°47'N.on lat. arc,18°02'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.9-10-15 and 16.
	Thence I run
	N.0°02'W.,bet.secs.9 and 10.
	Descend abruptly over rocky and mountainous land.
10.50	Hollow,200 ft.deep,course NW.
	Abrupt ascent.
21.00	Sandstone spur,projects W.
	Abrupt descent over sandstone ledges.
32.25	Enter bottom of Nine Mile Canyon,1200 ft.deep,course NE.
	Enter dense undergrowth.
	Over level land.
34.40	Minnie Maud Creek,20 lks.wide,18 ins.deep,course NE.
	Begin gradual ascent.
38.05	Canyon road,bears NE.and SW.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on W. half,S 10 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
	From this ¼ sec.cor.the log cabin belonging to Peter Nelson bears S.35°20'W.,20.25 chs.dist.
43.50	Leave bottom of canyon, begin abrupt ascent over sandstone ledges,bearing E.and W.
67.00	Rocky ridge,bears E.and W.
	Descend abruptly over broken sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.3-4-9 and 10,marked on brass cap,T 12 S S 4 in NW.,
	R 16 E S 3 in NE.,
	S 10 in SE.and S 9 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous. and bottom land.
	Soil,rocky,3rd.and 4th.rate on 68.75 chs.
	balance,loam,1st.rate.
	No timber.
	Undergrowth, greasewood and willows.
	Mountainous land on 68.75 chs.
	S.89°59'E.,on a random line,bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,5 lks.N.of the cor.of secs. 2-3-10 and 11.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.3 and 10.
	Over level,cultivated land,in the bottom of Nine Mile Canyon.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
5.00	Leave cultivated land,bears NE.and SW.
	Enter dense undergrowth.
5.60	Canyon road,bears NE.and SW.
9.75	Leave canyon, begin abrupt ascent over sandstone ledges bearing NE.and SW.
15.12	Top of perpendicular sandstone ledge,500 ft.above the bottom of the canyon,bears N.and S.
	Ascend.
16.25	Rocky spur,projects S.
	Abrupt descent.
18.50	Hollow,100 ft.deep,course S.
	Abrupt ascent.
21.00	Rocky spur,projects S.
	Abrupt descent.
30.50	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
40.03	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on N. half,S 10 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
41.00	Sandstone spur,projects SE.
	Abrupt descent over sandstone ledges.
56.25	Bottom of Devil Canyon,1000 ft.deep,course SE.
	Abrupt ascent along broken north slope and over sandstone ledges.
73.50	Sandstone spur,projects N.
	Abrupt descent along steep north slope.
80.06	The cor.of secs.3-4-9 and 10.
	Land,bottom land and mountainous.
	Soil,loam,1st.rate on 9.75 chs.
	balance,rocky,3rd.and 4th.rate.
	No timber.
	Undergrowth,greasewood.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Mountainous land on 70.31 chs.
	May 12: At this cor.I set off 18°04'N.on decl.arc,and at 11h.56m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°48'N.
	N.0°02'W.,on a random line,bet.secs.3 and 4.
40.00	Set temp.¼ sec.cor.
59.76	Intersect N.bdy.of Tp.,9 lks.E.of the cor.of secs. 3-4-33 and 34,heretofore described.
	Thence I run
	S.0°06'E.,on a true line,
	Bet.secs.3 and 4.
	Gradual ascent over rocky land,through sparse undergrowth.
8.00	Begin gradual descent,bears NW.and SE.
14.00	Hollow,50 ft.deep,course SE.
	Ascend.
19.76	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on W. half,S 3 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
26.25	Begin abrupt descent over sandstone ledges,bearing, NW.and SE.
53.50	Bottom of Devil Canyon,900 ft.deep,course E.
	Abrupt ascent.
59.00	Begin descent.
59.70	Hollow,50 ft.deep,course NE.
	Ascend.
59.76	The cor.of secs.3-4-9 and 10. Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate.
	No timber; undergrowth,sage brush and bunch grass.
	Mountainous land on 59.76 chs.
	May 12,1910

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	May 13: At 7h.56m.,a.m.,l.m.t.,I set off 39°43'N.on lat. arc,18°17'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.4-5-32 and 33,on the S.bdy. of the Tp.,which is a sandstone,9x9x4 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 level land,through dense undergrowth.
19.00	Enter heavy timber,bears NE.and SW.
25.50	Begin abrupt descent over broken sandstone ledges, bearing NE.and SW.
	Leave heavy timber,bears NE.and SW.
	Enter scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground for ¼ sec.cor.,marked,on brass cap,¼S32 on W.half,and S33 on E.half,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor. Pits impracticable.
46.00	Foot of abrupt descent,bears NE.and SW.
	Leave timber.
	Descend.
70.00	Begin abrupt descent over rocky land,bearing E.and W. along top of spur,projecting N.
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,marked on brass cap,T 12 S S 29 in NW., R 16 E S 28 in NE., S 33 in SE.and S 32 in SW.quadrant,from which
	A pine,5 ins.diam.,bears N.59°30'E.,47 lks.dist. marked T 12 S R 16 E S 28 BT.
	A pine,5 ins.diam.,bears S.88°E.,26½ lks.dist., marked T 12 S R 16 E S 33 BT.
	A pine,4 ins.diam.,bears S.55°W.,46 lks.dist., marked T 12 S R 16 E S 32 BT.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	A pine,12 ins.diam.,bears N.76°W.,138 lks.dist. marked T 12 S R 16 E S 29 BT.
	Land, mountainous and level.
	Soil,sandy loam, 2nd.rate on 25.50 chs. balance,rocky,3rd.and 4th.rate.
	Timber, cedar,pinon and yellow pine. Undergrowth,sage brush. Mountainous land, or heavily timbered land or land covered with dense undergrowth on 80.00 chs.
	East,on a random line,bet.secs.28 and 33.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect N.and S.line,7 lks.N.of the cor.of secs. 27-28-33 and 34.
	Thence I run N.89°57'W.,on a true line, Bet.secs.28 and 33.
	Descend along land sloping north over rocky and mountainous land.
39.00	Begin abrupt descent over broken sandstone ledges, bearing NE.and SW.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 28 on N.h half,S 33 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
61.00	Hollow,300 ft.deep,course N.
	Abrupt ascent along steep north slope through scattering timber.
68.00	Spur,projects N.
	Abrupt descent.
74.50	Hollow,200 ft.deep,course N.
	Abrupt ascent along steep north slope.
80.10	The cor.of secs.28-29-32 and 33,on top of spur,projects N.
	Land,mountainous.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Soil,rocky,3rd.and 4th.rate.
	Timber,yellow pine.
	Mountainous land on 80.10 chs.
	May 13: At this cor.I set off 18°19'N.on decl.arc,and at 11h.56m.,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°44'N.
	N.0°03'W.,bet.secs.28 and 29.
	Abrupt descent over rocky and mountainous land,through scattering timber,along spur,projecting north.
6.50	Cottonwood Creek,5 lks.wide,4 ins.deep,in canyon,1000 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
29.80	Sandstone spur,projects E.
	Abrupt descent along steep east slope.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground for ¼ sec.cor.,marked on brass cap,¼ S 29 on W.half, S 28 on E.half,from which
	A pine,9 ins.diam.,bears N.76°E.,5 lks.dist., marked ¼ S 28 BT.
	A pine,8 ins.diam.,bears N.44°W.,72 lks.dist., marked ¼ S 29 BT.
40.10	Hollow, 200 ft.deep,course E.
	Abrupt ascent along steep east slope.
61.25	Top of abrupt ascent,bears NE.and SW.
	Over level land.
64.50	Begin abrupt descent,bears NW.and SE.
68.00	Head of hollow,course E.
	Begin abrupt ascent.
72.00	Top of abrupt ascent,bears NE.and SW.
	Gradual descent.
78.00	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
80.00	At foot of perpendicular sandstone ledges,bearing NW.and SE.,75 ft.high.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.20-21-28 and 29,marked on brass cap,T 12 S S 20 in NW.,
	R 16 E S 21 in NE.,
	S 28 in SE.and S 29 in SW.quadrant, from which
	A pine, 12 ins.diam.,bears N.23°E., 44 lks.dist., marked T 12 S R 16 E S 21 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and pine.
	Mountainous land on 80.00 chs.
	S.89°57'E.,on a random line,bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,9 lks.S.of the cor.of secs. 21-22-27 and 28.
	Thence I run
	S.89°59'W.,on a true line,
	Bet.secs.21 and 28.
	Descend over rocky and mountainous land,along steep, south slope,through scattering timber.
7.00	Hollow,500 ft.deep,course NW.
	Abrupt ascent.
12.00	Sandstone spur,projects NW.
	Leave timber.
	Abrupt descent over sandstone ledges,bearing N.and S.
40.03	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 21 on N.half,S 28 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.12 S R 16 E.

CHAINS	
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
47.00	Cottonwood Creek,5 lks.wide,4 ins.deep, in bottom of canyon,1000 ft.deep,course N.10°E.
	Abrupt ascent over sandstone ledges.
71.00	Enter scattering timber.
80.06	The cor.of secs.20-21-28 and 29.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar ,pinon and yellow pine.
	Mountainous land on 80.06 chs.
	May 13,1910
	May 14: At 7h.56m.,a.m.,l.m.t.,I set off 39°45'N.on lat. arc,18°32'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.20-21-28 and 29.
	Thence I run
	N.0°03'W.,bet.secs.20 and 21.
	Descend along steep east slope, over broken sandstone ledges,through scattering timber.
4.50	Head of hollow,course NE.
	Ascend along steep east slope.
10.00	Ridge,bears NE.and SW.
	Descend.
14.50	Head of hollow,course NE.
	Ascend.
21.00	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on W. half,S 21 on E.half,from which
	A pinon,8 ins.diam.,bears N.31°E.,23½ lks.dist., marked ¼ S 21 BT.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	A pinon,9 ins.diam.,bears S.58°W.,17 lks.dist., marked ¼ S 20 BT.
42.00	Bend in hollow,400 ft.deep,course from SW.to NW.
	Abrupt ascent.
44.80	Spur,projects NW.
	Abrupt descent.
51.00	Same hollow,500 ft.deep,course NE.
	Abrupt ascent.
65.70	Ridge,bears NE.and SW.
	Abrupt descent along steep west slope.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.16-17-20 and 21,marked on brass cap,T 12 S S 17 in NW.,
	R 16 E S 16 in NE.,
	S 21 in SE.and S 20 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.16°E.,53 lks.dist., marked T 12 S R 16 E S 16 BT.
	A pinon,10 ins.diam.,bears S.17°E.,182 lks.dist. marked T 12 S R 16 E S 21 BT.
	A pinon,5 ins.diam.,bears S.42°W.,82 lks.dist. marked T 12 S R 16 E S 20 BT.
	A pinon,6 ins.diam.,bears N.41°W.,67 lks.dist., marked T 12 S R 16 E S 17 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.
	N.89°59'E.,on a random line,bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
79.94	Intersect N.and S.line,7 lks.S.of the cor.of secs. 15-16-21 and 22.
	Thence I run
	S.89°56'W.,on a true line,

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Bet.secs.16 and 21.
	Ascend abruptly over rocky and mountainous land,through scattering timber.
6.00	Spur,projects NW.
	Abrupt descent.
32.00	Begin abrupt descent over nearly perpendicular sandstone ledges,bearing N.and S.
	Leave timber.
39.97	Point for ¼ sec.cor.falls on the steep slope of the solid sandstone and cannot be set.
43.09	Foot of sandstone ledges, bearing N.and S.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground for witness cor.to ¼ sec.cor.,marked on brass cap,T 12 S R 16 E S 16 on N.half, S 21 on S.half, and WC ¼ on E.half, and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Descend over rocky land.
43.30	Enter bottom of Cottonwood Canyon,1000 ft.deep,course N.
45.75	Cottonwood Creek,5 lks.wide,3 ins.deep,course N.
47.00	Leave bottom of canyon, begin abrupt ascent over sandstone ledges,bearing N.and S.
51.00	Sandstone spur,projects N.
	Abrupt descent.
61.50	Hollow,500 ft.deep,course NE.
	Abrupt ascent.
75.70	Ridge,bears NE.and SW.
	Enter scattering timber.
	Abrupt descent.
79.94	The cor.of secs.16-17-20 and 21.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Timber,cedar and pinon.
	Mountainous land on 79.94 chs.
	May 14:At this cor.I set off 18°34'N.on decl.arc,and at 10h.56m.,a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°46'N.
	N.0°03'W.,bet.secs.16 and 17.
	Descend over rocky and mountainous land along steep west slope,through scattering timber.
1.50	Hollow,75 ft.deep,course W.
	Abrupt ascent.
5.50	Spur,projects NW.
	Abrupt descent.
21.00	Hollow,500 ft.deep,course NE.
	Abrupt ascent.
26.00	Sandstone spur,projects E.
	Abrupt descent.
29.00	Leave timber.
33.00	Bend in same hollow,600 ft.deep,course from SE.to NE.
	Abrupt ascent over sandstone ledges.
38.80	Foot of nearly perpendicular sandstone ledges, bearing E.and W.
	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for witness cor.to ¼ sec.cor.,marked on brass cap, T 12 S R 16 E W C ¼ on N.half, S 17 on W.and S16 on E.half,and raise a mound of stone,2 ft.base,1½ ft. high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
40.00	Falls on steep slope of the solid sandstone ledges, impossible to set.
42.50	Top of narrow sandstone spur, 300 ft.above witness cor.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	projects E.
	Abrupt descent.
48.00	Hollow,300 ft.deep,course E.
	Abrupt ascent.
	Enter scattering timber.
62.00	Spur,projects E.
	Abrupt descent.
67.00	Hollow,150 ft.deep,course E.
	Abrupt ascent.
76.50	Ridge,bears E.and W.
	Leave timber.
	Descend abruptly along top of ridge, bearing north.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.8-9-16 and 17,marked on brass cap,T 12 S S 8 in NW.,
	R 16 E S 9 in NE.,
	S 16 in SE.and S 17 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°56'E.,on a random line,bet.secs.9 and 16.
40.00	Set temp.½ sec.cor.
79.98	Intersect N.and S.line,17 lks.N.of the cor.of secs. 9-10-15 and 16.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.9 and 16.
	Descend abruptly over rocky and mountainous land,along steep north slope.
16.00	Hollow,500 ft.deep,course N.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Abrupt ascent.
23.00	Spur,projects N.
	Abrupt descent.
29.00	Hollow,400 ft.deep,course N.
	Abrupt ascent through scattering timber.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on N. half,S 16 on S.half,from which
	A pinon,12 ins.diam.,bears S.34°W.,20 lks.dist., marked ¼ S 16 BT.
	A cedar,6 ins.diam.,bears N.72°W.,85 lks.lks.dist. marked ¼ S 9 BT.
43.00	Ridge,bears N.and S.
	Abrupt descent.
58.00	Leave timber.
60.50	Enter Cottonwood canyon,about 20.00 chs.from mouth, 1100 ft.deep,course N.
62.10	Cottonwood Creek,6 lks.wide,4 ins.deep,course N.
63.00	Leave canyon, begin abrupt ascent over broken sandstone ledges, along steep north slope.
79.98	The cor.of secs.8-9-16 and 17.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.98 chs.
	May 14,1910

May 15: At 7h.56m.,a.m.,l.m.t.,I set off 39°47'N.,on lat.arc,18°46'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.8-9-16 and 17.

Thence I run

N.0°03'W.,bet.secs.8 and 9.

Descend abruptly over rocky and mountainous land,along top of ridge,bearing north and S.

BOOK A-372

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
16.50	Enter bottom of Nine Mile Canyon,1200 ft.deep,courseE.
	Over level land,through dense undergrowth
17.25	Minnie Maud Creek,20 lks.wide,18 ins.deep,course E.
18.00	Enter cultivated land belonging to Peter Nelson,
	bearing E.and W.
20.10	Canyon road,bears E.and W.
24.00	Leave cultivated land,bears E.and W.
26.25	Leave bottom of canyon, begin abrupt ascent over sand-
	stone ledges, bearing E.and W.
29.25	Top of perpendicular sandstone ledges,150 ft.high,
	bearing E.and W.
	Abrupt ascent over broken sandstone ledges, through
	scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 8 on W.
	half,S 9 on E.half,from which
	A cedar,4 ins.diam.,bears S.22°E.,23 lks.dist.,
	marked ¼ S 9 BT.
	A cedar,5 ins.diam.,bears N.85°W.,83 lks.dist.,
	marked ¼ S 8 BT.
52.00	Leave timber.
58.40	Top of perpendicular sandstone ledges,100 ft.high,
	bearing NE.and SW.
	Ascend.
65.00	Ridge,bears NE.and SW.
	Descend.
80.00	In hollow,25 ft.deep,course NE.
	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone
	and earth,for cor.of secs.4-5-8 and 9,marked on brass
	cap,T 12 S S 5 in NW.,
	R 16 E S 4 in NE.,
	S 9 in SE.and S 8 in SW.quadrant,from which
	A cedar,6 ins.diam.,bears S.72°W., 110 lks.dist.
	marked T 12 S R 16 E S 8 BT.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous and level.
	Soil,loam, 1st.rate on 9.75 chs.
	balance,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Undergrowth,greasewood.
	Mountainous land on 70.25 chs.

	S.89°57'E.,on a random line,bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,3 lks.S.of the cor.of secs. 3-4-9 and 10.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs. 4 and 9.
	Descend over rocky and mountainous land,along steep north slope.
0.10	Hollow,50 ft.deep,course NE.
	Ascend abruptly along steep,north broken slope,over broken sandston e ledges.
40.01	Rocky spur,projects N.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on N.half S 9 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
50.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
64.62	Ridge,bears NE.and SW.
	Descend. Enter scattering timber.

SUBDIVISIONS OF T.18 S.,R.16 E.

CHAINS	
67.00	Leave timber.
80.02	The cor.of secs.4-5-8 and 9.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.02 chs.
	May 15: At this cor.I set off 18°48'N.on decl.arc,and at 11h.56m.a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°48'N.
	N.0°03'W.,on a random line,bet.secs.4 and 5.
40.00	Set temp.¼ sec.cor.
59.80	Intersect N.bdy.of Tp.,4 lks.E.of the cor.of secs. 4-5-32 and 33,heretofore described.
	Thence I run
	S.0°05'E.,on a true line,
	Bet.secs.4 and 5.
	Ascend abruptly over broken sandstone ledges,along steep east slope.
6.00	Top of abrupt ascent,bears NW.and SE.
	Over level land,through sparse undergrowth.
18.50	Begin abrupt descent,over sandstone ledges,bearing E. and W.
19.80	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 5 on W. half,S 4 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
21.50	Hollow,250 ft.deep,course SE.
	Abrupt ascent.
35.50	Rocky spur,projects E.
	Abrupt descent, through scattering timber.
39.25	Hollow,200 ft.deep,course E.
	Abrupt ascent.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS.	
47.00	Spur,projects E.
	Descend.
56.00	Leave timber.
59.80	The cor.of secs.4-5-8 and 9.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 47.30 chs.
	May 15,1910
	May 16: At 7h.56m.,a.m.,l.m.t.,I set off 39°43'N.on lat. arc,19°00'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-31 and 32,on the S. bdy.of the Tp.,which is a sandstone,8x8x6 ins.above ground,marked and witnessed as described by the surveyor general.
	Thence I run
	N.0°03'W.,bet.secs.31 and 32.
	Descend abruptly over rocky and mountainous land,throug scattering timber.
22.00	Begin abrupt descent over broken sandstone ledges, bearing NE.and SW.
	Leave timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 31 on W.half,S 32 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
49.00	Cottonwood Creek,5 lks.wide,6 ins.deep,in bottom of narrow canyon,900 ft.deep,course NE.
	Abrupt ascent over sandstone ledges.
61.00	Top of abrupt ascent,bears NE.and SW.
	Leave sandstone ledges, ascend through heavy timber.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.29-30-31 and 32,marked on brass cap,T 12 S S 30 in NW., R 16 E S 29 in NE., S 32 in SE.and S 31 in SW.quadrant,from which
	A pinon,4 ins.diam.,bears N.48°E.,42 lks.dist., marked T 12 S R 16 E S 29 BT.
	A cedar,10 ins.diam.,bears S.89°30'E.,44 lks. dist.,marked T 12 S R 16 E S 32 BT.
	A pinon,9 ins.diam.,bears S.63°30'W.,27 lks.dist., marked T 12 S R 16 E S 31 BT.
	A pinon,5 ins.diam.,bears N 48°W.,49 lks.dist., marked T 12 S R 16 E S 30 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	East,on a random line,bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,12 lks.S.of the cor.of secs. 28-29-32 and 33.
	Thence I run S.89°55'W.,on a true line, Bet.secs.29 and 32.
	Descend abruptly over rocky and mountainous land,along steep,north slope,through scattering timber.
22.00	Cottonwood Creek,5 lks.wide,4 ins.deep,in bottom of canyon,900 ft.deep,course NE.
	Begin abrupt ascent over broken sandstone ledges.
	Leave timber.
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 29 on N. half,S 32 on S.half,and raise a mound of stone,2 ft.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	base,1½ ft.high,N.of cor.
	Pits impracticable.
47.00	Top of abrupt ascent,bears NE.and SW.
	Leave sandstone ledges, ascend through heavy timber.
80.02	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil,rocky,3rd.and 4th rate.
	Timber,cedar,pinon and pine.
	Mountainous land on 80.02 chs.
	May 16: At this cor.I set off 19°02'N.on decl.arc,and at 11h.56m,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°44'N.
	West,on a random line,bet.secs.30 and 31.
40.00	Set temp.¼ sec.cor.
79.50	Intersect the W.bdy.of the Tp.,9 lks.S.of the cor.of secs.25-30-31 and 36,heretofore described.
	Thence I run
	S.89°56'E.,on a true line,
	Bet.secs.30 and 31.
	Ascend over rocky and mountainous land,through scattering timber.
24.00	Begin abrupt ascent,bears NE.and SW.
36.00	Ridge,bears NE.and SW.
	Descend along steep south slope.
39.50	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground for ¼ sec.cor.,marked on brass cap,¼ S 30 on N.half, S 31 on S.half,from which
	A pinon,10 ins.diam.,bears S.16°E.,9 lks.dist., marked ¼ S 31 BT.
	A pinon,5 ins.diam.,bears N.31°E.,63 lks.dist., marked ¼ S 30 BT.
44.75	Head of hollow,course S.
	Ascend along steep south slope.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
64.50	Rocky spur,projects SE.
	Abrupt descent.
79.50	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil,rocky,3rd,and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.50 chs.
	N.0°03'W.,bet.secs.29 and 30.
	Ascend over rocky and mountainous land,through scattering timber.
21.00	Begin abrupt ascent over broken sandstone ledges, bearing NE.and SW.
31.10	Top of abrupt ascent,bears NE.and SW.
	Ascend.
35.50	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 30 on W. half,S 29 on E.half,from which
	A pinon,14 ins.diam.,bears S.20°E.,13 lks.dist., marked ¼ S 29 BT.
	A pinon,5 ins.diam.,bears S.65°W.,20 lks.dist., marked ¼ S 30 BT.
44.00	Begin abrupt descent,bears NE.and SW.
57.50	Foot of abrupt descent,bears NE.and SW.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.19-20-29 and 30,marked on brass cap,T 12 S S 19 in NW.,
	R 16 E S 20 in NE.,
	S 29 in SE.and S 30 in SW.quadrant,from which
	A pinon,10 ins.diam.,bears N.63°E.,192 lks.dist. marked T 12 S R 16 E S 20 BT.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	A cedar,15 ins.diam.,bears N.79°W.,55 lks.dist., marked T 12 S R 16 E S 19 BT.
	No other trees within limits and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°55'E.,on a random line,bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,5 lks.N.of the cor.of secs. 20-21-28 and 29.
	Thence I run
	S.89°57'W.,on a true line,
	Bet.secs.20 and 29.
	Ascend abruptly over sandstone ledges,bearing NW.and SE.,through scattering timber.
0.75	Top of perpendicular sandstone ledge,75 ft.high,bears NW.and SE.
2.25	Ridge,bears N.and S.
	Abrupt descent.
23.00	Hollow,400 ft.deep,course NE.
	Abrupt ascent.
35.00	Top of abrupt ascent,bears NE.and SW.
	Ascend through heavy timber.
40.06	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on N.half,S 29 on S.half,from which
	A pinon,6 ins.diam.,bears S.11°E.,7½ lks.dist., marked ¼ S 29 BT.
	A pinon,7 ins.diam.,bears N.49°30'W.,56 lks.dist. marked ¼ S 20 BT.

BOOK A-372

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
46.00	Ridge,bears NE.and SW.
	Descend.
53.75	Hollow,150 ft.deep,course N.
	Ascend.
66.00	Spur,projects N.
	Leave heavy timber,bears N.and S.
	Descend through scattering timber.
80.12	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.12 chs.
	May 16, 1910

May 17: At 7h.56m.,a.m.,l.m.t.,I set off 39°45'N.on lat. arc,19°14'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.19-20-29 and 30.

Thence I run

N.89°56'W.,on a random line,bet.secs.19 and 30.

40.00	Set temp.¼ sec.cor.
79.46	Intersect W.bdy.of Tp.,9 lks.S.of the cor.of secs. 19-24-25 and 30: heretofore described

Thence I run

S.89°52'E.,on a true line,

Bet.secs.19 and 30.

Abrupt ascent over broken sandstone ledges,along steep, south slope,through scattering timber.

22.00	Leave ledges,bearing N.and S.
	Abrupt ascent.
39.46	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on N. half,¼ 30 on S.half,from which

A pinon,12 ins.diam.,bears N.68°30'W.,68 lks.dist.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	marked ¼ S 19 BT.
	A pinon,8 ins.diam.,bears S.37°E.,22 lks.dist., marked ¼ S 30 BT.
43.40	Ridge,bears NE.and SW.
	Abrupt descent.
77.25	Hollow,100 ft.deep,course NE.
	Ascend.
79.46	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.46 chs.
	N.0°03'W.,bet.secs.19 and 20.
	Descend over rocky and mountainous land,through scattering timber.
6.50	Hollow,100 ft.deep,course NE.
	Ascend.
19.00	Spur,projects NE.
	Descend.
28.50	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
34.75	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
37.00	Spur,projects NE.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on W. half,S 20 on E.half,from which
	A pinon,14 ins.diam.,bears S.41°W.,11 lks.dist., marked ¼ S 19 BT.
	A pinon,6 ins.diam.,bears N.20°E.,34 lks.dist., marked ¼ S 20 BT.
44.25	Hollow,500 ft.deep,course NE.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Ascend abruptly over broken sandstone ledges,along steep,east slope.
70.10	Top of abrupt ascent,bears NE.and SW.
	Over level land.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.17-18-19 and 20,marked on brass cap,T 12 S S 18 in NW.,
	R 16 E S 17 in NE.,
	S 20 in SE.and S 19 in SW.quadrant,from which
	A pinon,10 ins.diam.,bears N.71°30'E.,85 lks. dist.,marked T 12 S R 16 E S 17 BT.
	A pinon,8 ins.diam.,bears S.88°30'E.,86 lks. dist.,marked T 12 S R 16 E S 20 BT.
	A cedar,7 ins.diam.,bears S.5°30'W.,85 lks.dist. marked T 12 S R 16 E S 19 BT.
	A pinon,6 ins.diam.,bears N.74°W.,67 lks.dist., marked T 12 S R 16 E S 18 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 70.10 chs.
	May 17: At this cor.I set off 19°16'N.on decl.arc,and at11h.56m.,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°46'N.
	N.89°57'E.,on a random line,bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,5 lks.S.of the cor.of secs. 16-17-20 and 21.
	Thence I run
	S.89°55'W.,on a true line,
	Bet.secs.17 and 20.
	Abrupt descent over rocky and mountainous land,through scattering timber.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
9.50	Hollow,500 ft.deep,course NE.
	Abrupt ascent.
17.00	Spur,projects SE.
	Abrupt descent.
18.25	Same hollow,500 ft.deep,course SE.
	Abrupt ascent.
21.00	Rocky spur,projects NW.
	Abrupt descent.
24.00	Same hollow,500 ft.deep,course NE.
	Abrupt ascent over sandstoneledges.
36.00	Rocky spur,projects S.
	Abrupt descent.
38.25	Hollow,100 ft.deep,course S.
	Abrupt ascent.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on N.half,S 20 on S.half,from which
	A pinon,14 ins.diam.,bears N.22°30'W.,57 lks.dist., marked ¼ S 17 BT.
	A pinon,5 ins.diam.,bears S.20°W.,33 lks.dist., marked ¼ S 20 BT.
40.50	Spur,projects S.
	Abrupt descent.
45.00	Hollow,200 ft.deep,course S.
	Abrupt ascent over sandstone ledges.
71.40	Top of perpendicular sandstone ledges,100 ft.high, bear NE.and SW.
	Abrupt ascent.
79.00	Top of abrupt ascent,bears NE.and SW.
	Over level land.
80.10	The cor.of secs.17-18-19 and 20.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Mountainous land on 79.00 chs.
	N.89°52'W.,on a random line,bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
79.42	Intersect the W.bdy.of Tp., 5 lks.S.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°50'E.,on a true line,
	Bet.secs.18 and 19.
	Descend abruptly over rocky and mountainous land, through scattering timber.
4.90	Hollow,150 ft.below sec.cor.,course NE.
	Ascend along steep north slope.
13.00	Rocky spur,projects NE.
	Abrupt descent over sandstone ledges.
30.00	Enter bottom of Dry Canyon,1000 ft.deep,course N.
	Over level rocky land,through dense undergrowth.
32.00	Creek,15 lks.wide,6 ins.deep,course N.
34.00	Leave canyon, begin abrupt ascent over sandstone ledges.
	Leave timber.
39.42	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 18 on N.half,S 19 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
74.90	Top of abrupt ascent,1000 ft.above the bottom of the canyon,and perpendicular ledge,45 ft.high,bears N. and S.
	Over level land,through scattering timber.
79.42	The cor.of secs.17-18-19 and 20.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Undergrowth,greasewood,and willows.
	Mountainous land on 74.90 chs.
	May 17,1910
	May 18: At 7h.56m.,a.m.,l.m.t.,I set off 39°46'N.on lat. arc,19°28'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.17-18-19 and 20.
	Thence I run
	N.0°03'W.,bet.secs.17 and 18.
	Over level rocky land,through scattering timber.
8.00	Leave timber, enter sparse undergrowth.
35.80	Begin abrupt descent over shale ledges,bearing E.and W. Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,marked on brass cap, T.12,S R.16 E .WC¼ on N.half, S 18 on W.and S 17 on E. half,and raise a mound of stone,2 ft.base,1½ ft.high, W.of cor.
	Pits impracticable.
40.00	Point for ¼ sec.cor.falls on the steep slope of the shale ledges,impossible to set.
61.00	Hollow,500 ft.below ,top of ledges,course NW.
	Abrupt ascent.
69.50	Ridge,bears NW.and SE.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.7-8-17 and 18,marked on brass cap,T 12 S S 7 in NW.,
	R 16 E S 8 in NE.,
	S 17 in SE.and S 18 in SW.quadrant,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,level and mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Underbrowth,sage brush and bunch grass.
	Mountainous land on 44.20 chs.
	N.89°55'E.,on a random line,bet.secs.8 and 17.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.14	Intersect N.and S.line,5 lks.S.of the cor.of secs. 8-9-16 and 17.
	Thence I run
	S.89°53'W.,on a true line,
	Bet.secs.8 and 17.
	Abrupt descent over rocky and mountainous land,along steep,north slope.
9.50	Hollow,300 ft.deep,course N.
	Abrupt ascent.
18.00	Rocky spur,projects N.
	Abrupt descent.
23.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.
28.00	Rocky spur,projects N.
	Abrupt descent.
33.00	Hollow,400 ft.deep,course N.
	Abrupt ascent.
40.07	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 8 on N. half,S 17 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
45.67	Rocky spur,projects N.
	Abrupt descent over sandstone ledges.
48.25	Hollow,200 ft.below spur,course N.
	Abrupt ascent.
52.50	Sandstone spur,projects N.
	Abrupt descent over nearly perpendicular sandstone ledges.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
71.00	Hollow,400 ft.below top of spur,course N.
	Ascend along north slope.
80.14	The cor.of secs.7-8-17 and18.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.14 chs.
	May 18: At this cor.I set off 19°30'N.on decl.arc,and at 11h.56m.a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°47'N.
	N.89°50'W.,on a random line,bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
79.38	Intersect W.bdy.of Tp.,7 lks.N.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°53'E.,on a true line.
	Bet.secs.7 and 18.
	Descend abruptly over sandstone ledges.
8.50	Hollow,500 ft.below sec.cor.,course NE.
	Abrupt ascent.
19.75	Sandstone spur,projects N.
	Abrupt descent over sandstone ledges.
28.00	Enter bottom of Dry Canyon,1200 ft.deep,course N.
	Over level land,through dense undergrowth.
30.25	Creek,15 lks.wide,5 ins.deep,course N.
31.00	Leave canyon, begin abrupt ascent.
39.38	Set an iron post,3 ft.long,1 in.dia.;26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 7 on N. half,S 18 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
	From this cor.the log cabin,belonging to A.J.Russel, bears N.60°51'W., about 18.00 chs.dist.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
46.00	Rocky ridge spur,projects N.
	Abrupt descent.
65.00	Foot of abrupt descent, 300 ft.below top of spur, bears NW.and SE. and mouth of hollow,from SE.
	Over level rocky land.
73.00	Leave mouth of hollow,begin abrupt ascent bears N.and S.
78.00	Rocky spur,projects N.
	Descend.
79.38	The cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate on 76.38 chs.
	balance.loam,1st.rate.
	No timber.
	Underarowth, greasewood and willows.
	Mountainous land on 76.38 chs.
	N.0°03'W.,bet.secs. 7 and 8.
	Descend abruptly over rocky and mountainous land.
7.75	Enter bottom of Nine Mile Canyon,1250 ft.deep,course E.
	Over level land,through dense underarowth.
8.05	Canyon road,bears E.and W.
9.15	Minnie Maud Creek,20 lks.wide,18 ins.deep,course E.
15.20	Leave canyon, begin abrupt ascent over sandstone ledges bearing E.and W.
33.50	Sandstone spur, 600 ft.above the canyon,projects SE.
	Abrupt descent over solid sandstone.
40.00	Bottom of gorge,in the solid sandstone,500 ft.deep, course SE.
	Impossible to set a durable ¼ sec.cor.at this point.
46.50	Top of rocky spur,projects SE.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.,marked on brass cap, T 12 S R 16 E on N.half, WC ¼ on S.half, S 7 on W.half,and S 8 on E.half, and raise a mound of stone,2

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	ft.base,1½ ft.high,W.of cor.
	Pits impracticable. Abrupt descent.
53.00	Hollow,300 ft.deep,course SE.
	Abrupt ascent along steep,east slope,over broken sandstone ledges.
61.00	Spur,projects SE.
	Abrupt descent.
65.00	Hollow,150 ft.deep,course E.
	Abrupt ascent along steep east slope.
69.00	Sandstone spur,projects E.
	Abrupt descent along steep east slope.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.5-6-7 and 8,marked on brass cap,T 12 S S 6 in NW.,
	R 16 E S 5 in NE.,
	S 8 in SE.and S 7 in SW.quadrants and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 72.55 chs.
	blance,loam,1st.rate.
	No timber.
	Undergrowth, greasewood and willows.
	Mountainous land on 72.55 chs.
	May 18, 1910.

May 19: At 7h.56m.,a.m.,l.m.t.,I set off 39°48'N.on lat. arc,19°41'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-7 and 8,

Thence I run

N.89°53'E.on a random line,bet.secs.5 and 8.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.18	Intersect N.and S.line,19 lks.N.of the cor.of secs. 4-5-8 and 9.
	Thence I run
	N.89°59'W.,on a true line,
	Bet.secs.5 and 8.
	Ascend over rocky and mountainous land,through scattering timber.
12.00	Ridge,bears NW.and SE.
	Descend.
15.00	Leave timber.
25.50	Hollow,75 ft.deep,course S.
	Ascend.
34.00	Top of ascent,bears NE.and SW.
	Gradual descent over rolling land.
40.09	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 5 on N.half,S 8 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
50.00	Hollow,50 ft.deep,course SE.
	Gradual ascent over rolling land.
65.00	Begin abrupt descent over broken sandstone ledges, bearing NW.and SE.
79.00	Hollow,150 ft.deep,course S.
	Abrupt ascent.
80.18	The cor.of secs.5-6-7 and 8.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Undergrowth, sage brush and bunch grass.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
	Mountainous land on 59.18 chs.
	N.89°53'W.,on a random line,bet.secs.6 and 7.
40.00	Set temp.¼ sec.cor.
79.30	Intersect W.bdy.of Tp.,5 lks.N.of the cor.of secs. 1-6-7 and 12;heretofore described.
	Thence I run
	S.89°55'E.,on a true line,
	Bet.secs.6 and 7.
	Descend abruptly over broken sandstone ledges, through scattering timber.
20.25	Bottom of Daddy Canyon,800 ft.deep,course SE.
	Abrupt ascent over broken sandstone ledges.
31.50	Sandstone spur,projects SW.
	Abrupt descent.
36.50	Hollow,300 ft.deep,course SW.
	Abrupt ascent.
39.30	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 6 on N half,S 7 on S.half,from which
	A cedar,24 ins.diam.,bears S.70°30'W.,25 lks. dist.,marked ¼ S 7 BT.
	A pinon,7 ins.diam.,bears N.61°W.,49 lks.dist. marked ¼ S 6 BT.
42.10	Spur,projects SW.
	Abrupt descent.
48.00	Hollow,100 ft.deep,course SW.
	Abrupt ascent over nearly perpendicular sandstone ledges.
55.75	Top of abrupt ascent,bears NW.and SE.
	Leave sandstone ledges, and timber.
	Over rolling mesa,through sparse undergrowth.
75.00	Begin abrupt descent over broken sandstone ledges, bearing N.and S.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS	
79.30	The cor.of secs.5-6-7 and 8.
	Land,mountainous and rolling.
	Soil,rocky,3rd.and 4th.rate on 59.55 chs.
	balance,sandy loam, 2nd.rate.
	Timber,cedar and pinon.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 60.05 chs..
	May 19: At this cor.I set off 19°43'N.on decl.arc,and at 7h.56m.,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°48'N.
	N.0°03'W.,on a random line,bet.secs.5 and 6.
40.00	Set temp.¼ sec.cor.
59.82	Intersect N.bdy.of Tp.,6 lks.E.of the cor.of secs. 5-6-31 and 32,heretofore described.
	Thence I run
	S.0°06'E.,on a true line,
	Bet.secs.5 and 6.
	Gradual ascent over rolling mesa,through sparse undergrowth.
19.82	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 6 on W. half,S 5 on 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.
29.00	Begin gradual descent over rolling land.
50.00	Begin abrupt descent along steep east slope over broken sandstone ledges.
56.70	Hollow,100 ft.below top of ledges,course E.
	Ascend along steep east slope.
59.82	The cor.of secs.5-6-7 and 8.
	Land,rolling and mountainous.
	Soil,sandy loam, on 50.00 chs.,2nd.rate.
	balance,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.16 E.

CHAINS

No timber.

Undergrowth,sage brush and bunch grass.

Mountainous land on 9.82 chs.

May 19,1910.

BOUNDARIES OF T.12 S.,R.16 E.

Latitudes,departures and closing errors

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs,	Chs.	Chs.	Chs.	Chs.
West Bdy.	North	459.62	459.62			
North Bdy.	East	479.00			479.00	
East Bdy.	South	299.62		299.62		
Subdivisions Bet.secs.						
24 & 25	S.89°56'W.	80.14		0.09		80.14
23 & 26	S 89°56'W.	80.14		0.09		80.14
26 & 27	S.0°01'E.	80.00		80.00	0.02	
34 & 35	S.0°01'E.	80.00		80.00	0.02	
South Bdy.	West	319.56				319.56
Convergency					0.53	
	Totals		459.62	459.80 459.62	479.57	479.84 479.57
	Error in lat.and dep,			0.18		0.27

GENERAL DESCRIPTION OF T.12 S.,R.16 E.

This township lies along the breaks of Nine Mile Canyon,and is mountainous throughout, the greater portion of the township drains into the canyon which cuts through the northern portion of the township. This canyon is 1300 ft.deep ,averages about 9.00 chs. wide,and the bottom land is a rich loam,capable of producing crops with irrigation.

A dense growth of greasewood,sage brush and willows is found on the bottom land,and a scattering growth of cottonwood and box elders along the creek.

The balance of the township is sandstone formation, with mesas covered with a thin layer of soil along the canyon,about 1000 ft.above the canyon,which are cut by deep hollows,with solid sandstone sides, from the mesas the country rises over rocky and extremely broken land to high mountains lying west and south.

A scattering growth of cedar and pinon timber is found on the entire township and in the southwest portion, a scattering growth of yellow pine is found.

The township is watered by Cottonwood Creek and the creek in Dry Canyon,both of which only run during the spring and early summer months, these run into Minnie Maud Creek,which runs through the northern portion of the township in Nine Mile Canyon.

The southeast portion of the township falls into the breaks of Jack Canyon, this canyon is about 2000 ft. deep, with perpendicular sides of solid sandstone, which are cut by box canyons of great depth,making it impossible to survey across; I return secs.25,26,35 and 36 as unsurveyable and worthless for any purpose.

There are no indications of oil,coal or minerals found in this township.

GENERAL DESCRIPTION OF T.12 S.,R.16 E.

The following settlers and improvements are found in this township.

Mrs,W.A.Miles, in NW.$\frac{1}{4}$ sec.1.

Acres of land under cultivation, 10.00

Value of improvements, $50.00

This is a portion of the claim mentioned in Tps.11 S., Rs.16 and 17 E.

Joseph K.W.Bracken, in SW.$\frac{1}{4}$ sec.2, SE$\frac{1}{4}$ sec.3,NE.$\frac{1}{4}$ sec. 10 and NW.$\frac{1}{4}$ sec.11.

Acres of land under cultivation, 75.00

Value of improvements, $2000.00

Peter Nelson, in SE.$\frac{1}{4}$ sec.8 and S.$\frac{1}{2}$ of sec.9.

Acres of land under cultivation, 10.00

Value of improvements, $500.00

A.J.Russell, in S.$\frac{1}{2}$ of sec.7.

Acres of land under cultivation, 8.0

Value of impeovements, $200.00

Walter A. Stevens
U.S.Deputy Surveyor

Blank

Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of .....

.....

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Y", *Chainman.*

T. 12 S., R. 15 E. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

Subscribed and sworn to before me this .....
day of ....., 190

.....

SEAL

.....

6-161

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of deputy see book "Y" T. 12 S., R. 15 E.

_____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

_____

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me this _____ day of _____, 190

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 21. 1911 ~~190X~~

The foregoing field notes of the survey of the subdivisional lines of Township No. 12 South, Range No. 16 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Walter A. Stumm

~~his~~ their under contract No. 312, dated March 27, ~~190~~ 9, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Bell

United States Surveyor General.

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

_____

United States Surveyor General.

6—151

Blank

Page

Blank

Page

4—679.

"Y."

BOOK A-372

FILED
DEC 21 1910

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO. 12 SOUTH, RANGE NO. 15 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist, and Walter A. Stumm, *United States Deputy Surveyor,* s

Under ~~his~~ their *Contract No.* 312, *dated* March 27, 1909

Survey commenced May 20, 1910

Survey completed June 4, 1910

6—161

58-26-49 Calving 58-68

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Lionel Babcock,	Chainman
Jack Barker,	"
Floyd Hume,	Moundman
Will Carlisle,	"
Will Light,	Axman
George Walkup,	Flagman

For preliminary affidavits see book "X" T. 12 S., R. 16 E.

6—151

BOOK A-372

INDEX DIAGRAM.

Township 12 South, , *Range* 15 East,

6 76	5 56	4 43	3 29	2 15	1
75	74	55	41	27	13
7 73	8 54	9 40	10 26	11 12	12
71	70	53	39	25	10
18 69	17 51	16 37	15 23	14 9	13
68	67	50	36	22	8
19 65	20 49	21 35	22 21	23 6	24
64	63	48	34	20	5
30 61	29 47	28 33	27 18	26 4	25
60	59	46	32	17	3
31 58	32 44	33 31	34 16	35 2	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
.....

..... , *Chainman.*

..... , *Chainman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishmen of corners, according to the instructions given us, to the best of our skill and ability, in the survey o
.....

..... , *Moundman*

..... , *Moundman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey o
.....

..... , *Axman*

..... , *Axman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and trul perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th survey of .....

..... , *Flagman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS

Survey commenced,May 20,1910,and executed with the instrument described in book "C",of this survey.

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.1-2-35 and 36, on the S.bdy.of the Tp., which is a limestone,6x12x4 ins.above ground,marked and witnessed as described by the surveyor general, in approximate latitude 39°43'N., longitude 110°14'W.,I set off 39°43'N.on lat.arc, 19°58'N.on decl.arc,and at 3h.56m.,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.

May 20, 1910

May 21: At 3h.38m.;a.m.;l.m.t.;I observe Polaris,at eastern 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 a.m.,I lay off the azimuth of Polaris,1°32'to the west,and mark the meridian thus determined,by cutting a small groove in the stone set last evening,on which the meridian falls 0.4 ins.east of the mark determined by the solar.

At 7h.56m.,a.m.,l.m.t.,I set off 39°43'N.,on lat.arc, 20°06'N.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone, already set 5 chs.N.of my station; this mark falls 0.5 ins.east of the meridian established by the Polaris observation.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'21" west and 0'26" east 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.30m., a.m.is N.16°10'W., the angle thus determined gives the mag.decl.16°10' E.
	From the sec.cor.already described,I run
	N.0°01'W.,bet.secs.35 and 36.
	Ascend over rocky and mountainous land,through heavy timber.
29.00	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in. dia.,26 ins.in the ground,for ¼ sec.cor. marked on brass cap,¼ S 35 on W. half,S 36 on E.half,from which
	A pinon,8 ins.diam.,bears S.25°W.,45 lks.dist., marked ¼ S 35 BT.
	A pinon,14 ins.diam.,bears S.42°E.,35 lks.dist., marked ¼ S 36 BT.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.25-26-35 and 36,marked on brass cap,T 12 S S 26 in NW.,
	R 15 E S 25 in NE.,
	S 36 in SE.and S 35 in SW.quadrant, from which
	A pinon,8 ins.diam.,bears N.36°E.,45 lks.dist. marked T 12 S R 15 E S 25 BT.
	A pinon,12 ins.diam.,bears S.65°E.,25 lks.dist., marked T 12 S R 15 E S 36 BT.
	A pinon,15 ins.diam.,bears S.37°30'W.,19 lks. dist.,marked T 12 S R 15 E S 35 BT.
	A pinon,6 ins.diam.,bears N.12°30'W.,126 lks. dist.,marked T 12 S R 15 E S 26 BT.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°48'E.,on a random line,bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
80.08	Intersect E.bdy.of Tp.,5 lks.S.of the cor.of secs. 25-30-31 and 36,heretofore described.
	Thence I run
	S.89°46'W.,on a true line,
	Bet.secs.25 and 36.
	Ascend over mountainous land,through heavy timber.
6.00	Spur,projects N.
	Descend.
17.00	Begin abrupt descent,bears NE.and SW.
21.00	Leave timber,bears NE.and SW.
26.50	Hollow,200 ft.deep,course N.
	Abrupt ascent through heavy timber.
29.00	Top of abrupt ascent,bears N.and S.
	Ascend.
36.00	Spur,projects NE.
	Descend.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 25 on N. half,S 36 on S.half,from which
	A pinon,14 ins.diam.,bears S.49°W.,48 lks.dist., marked ¼ S 36 BT.
	A pinon,14 ins.diam.,bears N.38°E.,77 lks.dist., marked ¼ S 25 BT.
51.50	Begin abrupt descent,bears NE.and SW.
54.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
65.50	Top of abrupt ascent,bears NE.and SW.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Ascend.
80.08	The cor.of secs.25-26-35 and 36.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.08 chs.
	May 21: At this cor.I set off 30°08'N.on decl.arc,and at 11h.56m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°44'N.
	N.0°01'W.,bet.secs.25 and 26.
	Descend over mountainous land,through heavy timber.
19.75	Begin abrupt descent,bears NE.and SW.
38.00	Hollow,500 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 26 on W. half,S 25 on E.half,from which
	A pinon,7 ins.diam.,bears N.46°W.,12 lks.dist., marked ¼ S 26 BT.
	A pinon,5 ins.diam.,bears N.41°E.,58 lks.dist., marked ¼ S 25 BT.
49.35	Spur,projects NE.
	Abrupt descent.
64.50	Same hollow,700 ft.deep,course NW.
	Abrupt ascent.
69.00	Sandstone spur,projects NW.
	Leave timber,bears E.and W.
	Abrupt descent over sandstone ledges.
76.00	Enter bottom of Dry Canyon,1000 ft.deep,course NE.
77.80	Creek,10 lks.wide,4 ins.deep,course NE.
	Ascend.
79.00	Leave canyon,begin abrupt ascent,bears NE.and SW.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	ground,for cor.of secs.23-24-25 and 26, marked on brass cap,T 12 S S 23 in NW.,
	R 15 E S 24 in NE.,
	S 25 in SE.and S 26 in SW.quadrant, from which
	A cottonwood,8 ins.diam.,bears S.50°30'W.,165 lks.dist.,marked T 12 S R 15 E S 26 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and cottonwood.
	Mountainous land on 80.00 chs.
	N.89°46'E.,on a random line,bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
79.92	Intersect E.bdy.of Tp.,5 lks.S.of the cor.of secs. 19-24-25 and 30,heretofore described.
	Thence I run
	S.89°44'W.,on a true line,
	Bet.secs.24 and 25.
	Descend abruptly over sandstone ledges,through scattering timber.
12.00	Hollow,600 ft.below sec.cor.,course N.
	Abrupt ascent.
31.00	Sandstone spur,projects N.
	Leave timber.
	Abrupt descent along steep north slope.
39.96	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap, ¼ S 24 on N.half,S 25 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
40.25	Hollow,200 ft.deep,course N.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Abrupt ascent.
51.50	Sandstone spur,projects NE.
	Abrupt descent over sandstone ledges,along steep north slope.
73.00	Enter bottom of Dry Canyon,1000 ft.deep,course NE.
75.50	Creek,10 lks.wide,4 ins.deep,course NE.
	Ascend.
79.00	Leave canyon, begin abrupt ascent.
79.92	The cor.of secs.23-24-25 and 26.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar;pinon and cottonwood.
	Mountainous land on 79.92 chs.
	May 21, 1910

	May 22: At 9h.60m.,a.m.,l.m.t.,I set off 39°45'N.on lat. arc,20°18'N.on decl.arc;and determine a meridian with the solar at the cor.of secs.23-24-25 and 26.
	Thence I run
	N.0°01'W.,bet.secs.23 and 24.
	Ascend abruptly over rocky and mountainous land.
2.00	Rocky spur,projects E.
	Abrupt descent.
3.25	Hollow,150 ft.deep;course E.
	Abrupt ascent.
14.00	Sandstone spur,projects SE.
	Abrupt descent.
32.00	Hollow,300 ft.deep,course SE.
	Abrupt ascent over solid sandstone.
40.00	Point for ¼ sec.cor.falls on the steep slope of the solid sandstone,cannot be set.
47.51	Top of sandstone ledges, 600 ft.above the bottom of Dry Canyon, bearing NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	ground,for witness cor.to ¼ sec.cor.,marked on brass cap,T 12 S R 15 E on N.half, WC¼ on S.half, S 23 on W. half,and S 24 on E.half,from which.
	A pinon,8 ins.diam.,bears N.53°E.,122 lks. dist.,marked ¼ S 24 WC BT.
	A cedar,4 ins.diam.,bears S.82°W..44 lks. dist.,marked ¼ S 23 WC BT.
	Ascend through scattering timber.
53.10	Ridge,bears NE.and SW.
	Enter heavy timber,bears NE.and SW.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.13-14-23 and 24,marked on brass cap,T 12 S S 14 in NW.,
	R 15 E S 13 in NE.,
	S 24 in SE.and S 23 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.22°E.,32 lks.dist. marked T 12 S R 15 E S 13 BT.
	A cedar,12 ins.diam.,bears S.84°E.,43 lks.dist. marked T 12 S R 15 E S 24 BT.
	A pinon,10 ins.diam.,bears S.84°W.,39 lks.dist., marked T 12 S R 15 E S 23 BT.
	A pinon,8 ins.diam.,bears N.9°W.,31 lks.dist., marked T 12 S R 15 E S 14 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.89°44'E.,on a random line,bet.secs.13 and 24.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.76	Intersect E.bdy.of Tp.,9 lks.N.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°48'W.,on a true line,
	Bet.secs.13 and 24.
	Ascend abruptly over broken sandstone ledges,through scattering timber.
10.00	Top of ledges,370 ft.above sec.cor.,bearing N.and S.
	Ascend.
	Enter heavy timber,bears N.and S.
16.00	Ridge,bears NE.and SW.
	Descend.
29.00	Begin abrupt descent,bears NE.and SW.
32.00	Head of hollow,course NE.
	Abrupt ascent.
33.00	Top of abrupt ascent,bears N.and S.
	Ascend.
39.88	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 13 on N. half,S 24 on S.half,from which
	A pinon,16 ins.diam.,bears N.49°W.,51 lks.dist., marked $\frac{1}{4}$ S 13 BT.
	A pinon,4 ins.diam.,bears S.43°W.,26 lks.dist., marked $\frac{1}{4}$ S 24 BT.
44.00	Spur,projects N.
	Descend.
44.75	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
59.00	Hollow,300 ft.deep,course NE.
	Abrupt ascent.
71.00	Rocky spur,projects N.
	Abrupt descent.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
79.76	The cor.of secs.13-14-23 and 24.
	Land,mountainous.
	Soil,rocky, 3rd.and 4th.rate.
	Timber, cedar,pinon and yellow pine.
	Mountainous land on 79.76 chs.
	N.0°01'W., bet.secs.13 and 14.
	Descend abruptly over rocky and mountainous land, through heavy timber.
19.00	Hollow, 300 ft.deep,course NE.
	Abrupt ascent.
23.00	Spur.projects E.
	Abrupt descent.
27.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
	Leave heavy timber, enter scattering timber.
35.00	Ridge,bears NE.and SW.
	Abrupt descent.
	Enter heavy timber, bears NE.and SW.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for ¼ sec.cor., marked on brass cap, ¼S14 on W.,half, S.13 on E.half, from which
	A pinon, 8 ins.diam.,bears N.74°W.,50 lks.dist. marked ¼ S 14 BT.
	A cedar, 8 ins.diam.,bears S.54°E.,9 lks.dist., marked ¼ S 13 BT.
47.25	Hollow, 400 ft.deep,course NE.
	Leave heavy timber, bears NE.and SW.
	Abrupt ascent over broken sandstone ledges, through scattering timber.
66.75	Ridge,bears NE.and SW.
	Abrupt descent.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,in mound of earth and stone, for cor.of secs.11-12-13 and 14, marked on brass cap,
	T 12 S. S 11 in NW.,
	R 15 E S 12 in NE.,
	S 13 in SE.and S 14 in SW.quadrant, from which
	A pinon, 9 ins.diam.,bears N.84°E.,85 lks.dist., marked T.12 S.,R.15 E.,S.12 BT.
	A pine,8 ins.diam.,bears S.88°E.,107 lks.dist., marked T 12 S R 15 E S 13 BT.
	A cedar,5 ins.diam.,bears S.40°W.,26 lks.dist., marked T 12 S R 15 E S 14 BT.
	A pine,12 ins.diam.,bears N.22°W.,71 lks.dist., marked T 12 S R 15 E S 11 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon and yellow pine.
	Mountainous land on 80.00 chs.
	May 22: At this cor.I set off 20°20'N.on decl.arc,and at 11h.56m.,a.m.,l.m.t., observe the sun on the meridian, the resulting lat.is 39°47'N.

	N.89°48'E.,on a random line, bet.secs.12 and 13.
40.00	Set temp.¼ sec.cor.
79.70	Intersect E.bdy.of Tp.,9 lks.N.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°52'W.,on a true line Bet.secs.12 and 13.
	Ascend abruptly over sandstone ledges.
4.35	Sandstone spur, projects S.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Abrupt descent along steep south slope,through scattering timber.
13.00	Head of hollow,course SE.
	Abrupt ascent.
19.25	Sandstone spur,projects SE.
	Abrupt descent.
22.50	Head of hollow,course SE.
	Abrupt ascent.
30.70	Spur,projects SE.
	Abrupt descent.
35.50	Head of hollow,course SE.
	Abrupt ascent over sandstone ledges.
39.85	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,½ S 12 on N.half,S 13 on S.half,from which
	A pinon,4 ins.diam.,bears S.70°W.,24 lks.dist. marked ½ S 13 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground,
40.15	Spur,projects SE.
	Descend.
46.00	Head of hollow,course SE.
	Ascend.
57.10	Ridge,bears NE.and SW.
	Abrupt descent.
71.00	Hollow,250 ft.deep,course N.
	Abrupt ascent.
78.15	Rocky spur,projects N.
	Abrupt descent.
79.70	The cor.of secs.11-12-13 and 14.
	Land,mountainous.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and pine.
	Mountainous land on 79.70 chs.
	N.0°01'W.,bet.secs.11 and 12.
	Descend abruptly over rocky and mountainous land,through scattering timber.
13.00	Hollow,300 ft.below sec.cor.,course NE.
	Ascend along steep east slope. Leave timber.
19.00	Rocky spur,projects NE.
	Abrupt descent.
32.00	Foot of abrupt descent,bears E.and W.
	Descend over rocky land,through dense undergrowth.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on W. half,S 12 on E.half,from which
	A cottonwood,6 ins.diam.,bears N.2°30'W.,285 lks.dist.,marked ¼ S 11 BT.
	A cottonwood,5 ins.diam.,bears N.4°E.,276 lks. dist..marked ¼ S 12 BT.
42.00	Enter bottom of Nine Mile Canyon,1300 ft.deep,course SE.
	Enter scattering timber.
48.15	Minnie Maud Creek,25 lks.wide,12 ins.deep,course SE.
51.20	Canyon road,bears NW.and SE.
	Leave timber.
53.00	Leave bottom of canyon; begin abrupt ascent over sandstone ledges,bearing NW.and SE.
74.00	Enter scattering timber.
79.75	Rocky spur,700 ft.above bottom of canyon,projects SW.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.1-2-11 and 12,marked on brass cap,T 12 S S 2 in NW.,
	R 15 E S 1 in NE.,

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS

S 12 in SE.and S 11 in SW.quadrant,from which

A pinon,10 ins.diam.,bears N.42°E.,64 lks.dist.,
marked T 12 S R 15 E S 1 BT.

A pinon,7 ins.diam.,bears S.55°E.,61 lks.dist.,
marked T 12 S R 15 E S 12 BT.

A pinon,8 ins.diam.,bears N.3°W.,101 lks.dist.,
marked T 12 S R 15 E S 2 BT.

No other trees within limits,and raise a mound of stone,
2 ft.base,1½ ft.high,W.of cor.

Pits impracticable.

Note:
On account of natural obstacles,it is impossible
to set this post over 12 ins.in the ground.

Land,mountainous and bottom land.

Soil,rocky,3rd.and 4th.rate on 69.00 chs.
balance, loam,1st.rate.

Timber,cedar,pinon,pine and cottonwood.

Undergrowth,greasewood,sage brush and willows.

Mountainous land or land covered with dense undergrowth
on 80.00 chs.

May 22,1910

May 23: At 6h.56m.,a.m.,l.m.t.,I set off 39°48'N.on lat.
arc,20°30'N.on decl.arc,and determine a meridian with
the solar at the cor.of secs.1-2-11 and 12.

Thence I run

N.89°52'E.on a random line,bet.secs.1 and 12.

40.00 Set temp.¼ sec.cor.

79.76 Intersect E.bdy.of Tp.,9 lks.N.of the cor.of secs.1-6
7 and 12,heretofore described.

Thence I run

S.89°56'W.,on a true line,
Bet.secs.1 and 12.

Ascend abruptly over broken sandstone ledges,through
scattering timber.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
7.05	Top of abrupt ascent,200 ft.above sec.cor.,bears NW.and SE.
	Over level mesa.
15.60	Begin abrupt descent over sandstone ledges,bearing NW.and SE.
27.00	Hollow,400 ft.deep,course S.
	Abrupt ascent.
32.00	Rocky spur,projects SE.
	Abrupt descent.
34.00	Hollow,100 ft.course SE.
	Abrupt ascent .
39.88	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 1 on N. half,S 12 on S.half,from which
	A pinon,12 ins.diam.,bears S.44°W.,30 lks.dist., marked ¼ S 12 BT.
	A pinon,11 ins.diam.,bears N.75°W.,115 lks.dist. marked ¼ S 1 BT.
54.45	Sandstone spur,projects S.
	Abrupt descent.
65.00	Hollow,400 ft.deep,course S.
	Abrupt ascent.
78.75	Rocky spur,projects SW.
	Abrupt descent.
79.76	The cor.of secs.1-2-11 and 12.
	Land,mountainous and level.
	Soil.rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 71.21 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Knowing the line bet.secs.1 and 2 will not close within limits on the N.bdy.of the Tp.,I run
	N.0°01'W.,bet.secs.1 and 2.
	Descend over solid sandstone,along steep,west slope, through scattering timber.
1.50	Head of hollow,course SW.
	Abrupt ascent over sandstone ledges.
9.90	Top of abrupt ascent,bears E.and W.
	Enter heavy timber,bears E.and W.
	Over level mesa.
29.25	Begin abrupt descent,over broken sandstone ledges,along steep west slope.
	Leave heavy timber,bears NE.and SW.
	Enter scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 2 on W. half,S 1 on E.half,from which
	A pinon,5 ins.diam.,bears S.45°W.,15 lks.dist., marked ¼ S 2 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
59.49	Intersect S.bdy.of T.11 S.,R.15 E.,11.42 chs.west of the cor.of secs.1-2-35 and 36,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.1 and 2,marked on brass cap,T 11 S R 15 E S 35 S 36 CC on N.half, and T 12 S R 15 E S 1 S 2 on S.half,from which
	A pinon,5 ins.diam.,bears S.62°E.,16 lks.dist., marked T 12 S R 15 E S 1 BT.
	A pinon,5 ins.diam.,bears S.27°W.,72 lks.dist., marked T 12 S R 15 E S 2 BT.
	I destroy all marks on the cor.of secs.1-2-35 and 36 that pertain to T.12 S.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 40.14 chs.
	May 23: At this cor.I set off 20°32'N.on decl.arc,and at 11h.57m.,a.m., l. m. t., determine a meridian with the solar,the resulting lat. 39°49'N.
	May 24: At 6h.57m.,a.m.,l.m.t.,I set off 39°43'N.on lat. arc,20°42'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.2-3-34 and 35, which is a limestone,7x12x4 ins.above ground,marked and witnessed as described by the surveyor general.
	Thence I run
	N.0°01'W.,bet.secs.34 and 35.
	Descend over mountainous land,through heavy timber.
26.00	Hollow,200 ft.deep,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 34 on W. half,S 35 on E.half,from which
	A pinon,8 ins.diam.,bears S.52°E.,66 lks.dist., marked ¼ S 35 BT.
	A pinon,8 ins.diam.,bears S.85°W.,81 lks.dist., marked ¼ S 34 BT.
52.00	Rocky spur,projects NE.
	Abrupt descent.
63.50	Hollow,400 ft.deep,course NE.
	Ascend.
74.75	Spur,projects NE.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground;for cor.of secs.26-27-34 and 35,marked on brass cap,T 12 S S 27 in NW.,

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	R 15 E S 26 in NE.,
	S 35 in SE.and S 34 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.53°E.,32 lks.dist.,
	marked T 12 S R 15 E S 26 BT.
	A cedar,14 ins.diam.,bears S.34°W.,39 lks.dist.,
	marked T 12 S R 15 E S 34 BT.
	A pinon,8 ins.diam.,bears N.42°W.,46 lks.dist.,
	marked T 12 S R 15 E S 27 BT.
	No other trees within limits and raise a mound of stone
	2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.
	———————————
	N'89°48'E.,on a random line,bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,9 lks.S.of the cor.of secs.
	25-26-35 and 36.
	Thence I run
	S.89°44'W.,on a true line,
	Bet.secs.26 and 35.
	Descend over mountainous land, through heavy timber.
6.00	Begin abrupt descent,bears NE.and SW.
	Leave timber,bears NE.and SW.
14.00	Hollow,500 ft.deep,course N.
	Abrupt ascent.
16.00	Enter scattering timber.
31.00	Ridge,bears NE.and SW.
	Descend.
37.75	Hollow,100 ft.deep,course N.
	Ascend.
40.03	On top of spur,projects N.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 26 on N. half,S 35 on S.half,from which
	A pinon,5 ins.diam.,bears N.73°W.,17 lks.dist., marked ¼ S 26 BT.
	A pinon,9 ins.diam.,bears S.50°W.,44 lks.dist., marked ¼ S 35 BT.
	Abrupt descent.
59.00	Hollow,500 ft.deep,course N.
	Abrupt ascent.
77.50	Spur,projects NE.
	Descend.
80.06	The cor.of secs.26-27-34 and 35.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.06 chs.
	May 24: At this cor.I set off 20°43'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°44'N.
	N.0°01'W.,bet.secs.26 and 27.
	Descend abruptly over rocky and mountainous land,through scattering timber.
12.00	Hollow,600 ft.deep,course NE.
	Abrupt ascent.
29.00	Ridge,bears NE.and SW.
	Abrupt descent.
32.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
40.00	On top of spur,projects NE.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on W. half,S 26 on E.half,from which

SUBDIVISIONS OF T.12 S.R.15 E.

CHAINS	
	A pinon,10 ins.diam.,bears S.18°W.,47 lks.dist. marked ¼ S 27 BT.
	A pine,6 ins.diam.,bears S.33°30'E.,109 lks. dist.,marked ¼ S 26 BT.
	Abrupt descent.
44.50	Hollow,300 ft.deep,course NE.
	Abrupt ascent.
47.00	Rocky spur,projects NE.
	Abrupt descent.
59.00	Enter bottom of Dry Canyon,1000 ft.deep,course NE.
60.25	Creek,10 lks.wide,4 ins.deep,course NE.
	Ascend.
61.50	Leave canyon, begin abrupt ascent over sandstone ledges bearing NE.and SW.
80.00	Set an iron post,3 ft.long,2 in.dia.,24 ins.in the ground,for cor.of secs.22-23-26 and 27,marked on brass cap,T 12 S S 22 in NW.,
	R 15 E S 23 in NE.,
	S 26 in SE.and S 27 in SW.quadrant,from which
	A pinon,8 ins.diam.,bears N.25°E.,45 lks.dist., marked T 12 S R 15 E S 23 BT.
	A pinon,14 ins.diam.,bears S.20°W.,31 lks.dist., marked T 12 S R 15 E S 27 BT.
	A pinon,12 ins.diam.,bears N.68°W.,72 lks.dist., marked T 12 S R 15 E S 22 BT.
	No other trees within limits and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.89°44'E.,on a random line,bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,3 lks.N.of the cor.of secs. 23-24-25 and 26.
	Thence I run
	S.89°45'W.,on a true line,
	Bet.secs.23 and 26.
	Ascend abruptly along steep,south slope,over sandstone ledges.
2.50	Sandstone spur,projects S.
	Abrupt descent.
15.00	Hollow,200 ft.below top of spur,course SE.
	Abrupt ascent through scattering timber.
33.00	Rocky spur,projects SE.
	Abrupt descent.
39.00	Hollow,200 ft.deep,course SE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 23 on N. half,S 26 on S.half,from which
	A pinon,6 ins.diam.,bears S.28°W.,43 lks.dist., marked ¼ S 26 BT.
	A pinon,6 ins.diam.,bears N.59°E.,80 lks.dist., marked ¼ S 23 BT.
45.00	Spur,projects SE.
	Abrupt descent.
48.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
58.40	Rocky spur,projects SE.
	Abrupt descent.
63.00	Hollow,200 ft.deep,course S.
	Abrupt ascent.
68.40	Rocky spur,projects S.
	Abrupt descent.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
75.50	Hollow,300 ft.deep,course S.
	Abrupt ascent.
80.00	The cor.of secs.22-23-26 and 27.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	May 24,1910
	May 25: At 6h.57m.,a.m.,l.m.t.,I set off 39°45'N.on lat. arc,20°53'N.on decl.arc,and determine a meridian 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.
	Ascend abruptly over rocky and mountainous land,through scattering timber.
7.80	Ridge spur,projects SW.
	Abrupt descent.
17.00	Hollow,250 ft.deep,course SW.
	Abrupt ascent over sandstone ledges.
27.00	Ridge,bears NE.and SW.
	Abrupt descent.
37.00	Hollow,100 ft.deep,course NE.
	Ascend.
39.00	Spur,projects NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 22 on W. half,S 23 on E.half,from which
	A pinon,9 ins.diam.,bears N.17°E.,45 lks.dist., marked ¼ S 23 BT.
	A pinon,7 ins.diam.,bears N.41°W.,32 lks.dist., marked ¼ S 22 BT.
47.00	Leave timber.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
52.00	Hollow,150 ft.deep,course NE.
	Ascend.
59.00	Enter scattering timber,bears NE.and SW.
67.00	Ridge,bears NE.and SW.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.14-15-22 and 23,marked on brass cap,T 12 S S 15 in NW.,
	R 15 E S 14 in NE.,
	S 23 in SE.and S.22 in SW.quadrant,from which
	A pinon,8 ins.diam.,bears N.20°E.,16 lks.dist.,
	marked T 12 S R 15 E S 14 BT.
	A pinon,10 ins.diam.,bears S.57°E.,45 lks.dist.,
	marked T 12 S R 15 E S 23 BT.
	A pinon.5 ins.diam.,bears S.60°W.,65 lks.dist.,
	marked T 12 S R 15 E S 22 BT.
	A pinon,8 ins.diam.,bears N.64°W.,13 lks.dist.,
	marked T 12 S R 15 E S 15 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°45'E.,on a random line,bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
79.80	Intersect N.and S.line,9 lks.N.of the cor.of secs. 13-14-23 and 24.
	Thence I run
	S.89°49'W.,on a true line,
	Bet.secs.14 and 23.
	Descend abruptly over rocky and mountainous land,through scattering timber.
6.75	Hollow,200 ft.deep,course N.
	Abrupt ascent.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
13.15	Rocky spur,projects N.
	Descend.
28.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
33.00	Spur,projects NE.
	Abrupt descent.
36.70	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
39.90	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 14 on N. half,S 23 on S.half,from which
	A pinon,15 ins.diam.,bears N.9°E.,49 lks.dist., marked ¼ S 14 BT.
	A cedar,5 ins.diam.,bears S.16°E.,49 lks.dist., marked ¼ S 23 BT.
63.00	Ridge,bears NE.and SW.
	Descend along north slope.
79.80	The cor.of secs.14-15-22 and 23.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,and pinon.
	Mountainous land on 79.80 chs.
	May 25: At this cor.I set off 20°54'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°46'N.

N.0°01'W.,bet.secs.14 and 15.

	Descend over rocky and mountainous land,through scattering timber.
9.00	Begin abrupt descent over sandstone ledges,bearing NE. and SW.
19.50	Hollow,400 ft.deep,course NE.
	Abrupt ascent over broken sandstone ledges.
30.10	Top of ledges,bearing NE.and SW.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Ascend.
36.00	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap, ¼ S 15 on W.half,S 14 on E.half,from which
	A pinon,9 ins.diam.,bears N.7°E.,30 lks.dist., marked ¼ S 14 BT.
	A pinon,8 ins.diam.,bears S.18°W.,33 lks.dist., marked ¼ S 15 BT.
69.50	Pricky Pear Canyon,800 ft.deep,course NE.
	Abrupt ascent over solid sandstone ledges.
80.00	Set an iron post,3 ft.long,2 insdia., 24 ins.in the ground,for cor.of secs.10-11-14 and 15,marked on brass cap,T 12 S S 10 in NW.,
	R 15 E S 11 in NE.,
	S 14 in SE.and S 15 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.15°30'E.,41 lks.dist., marked T 12 S R 15 E S 11 BT.
	A pinon,5 ins.diam.,bears S.9°E.,59 lks.dist., marked T 12 S R 15 E S 14 BT.
	A pinon,8 ins.diam.,bears S.21°W.,52 lks.dist., marked T 12 S R 15 E S 15 BT.
	A pinon,8 ins.diam.,bears N.5°W.,92 lks.dist., marked T 12 S R 15 E S 10 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground,
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.89°49'E.,on a rando m line,bet.secs.11 and 14.
40.00	Set temp.½ sec.cor.
79.74	Intersect N.and S.line,3 lks.S.of the cor.of secs. 11-12-13 and 14.
	Thence I run
	S.89°48'W.,on a true line,
	Bet.secs.11 and 14.
	Descend over rocky and mountainous land,through scattering timber.
6.75	Hollow,400 ft.deep,course NE.
	Abrupt ascent.
17.00	Ridge,bears NE.and SW.
	Abrupt descent.
39.87	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on N. half,S 14 on S.half,from which
	A pinon,5 ins.diam.,bears S.14°E.,19½ lks.dist., marked ¼ S 14 BT.
	A pinon,6 ins.diam.,bears N.20°W.,43 lks.dist., marked ¼ S 11 BT.
40.70	Hollow,300 ft. deep,course NW.
	Abrupt ascent.
42.80	Spur,projects NW.
	Abrupt descent.
52.00	Hollow,300 ft.deep,course N.
	Abrupt ascent.
58.00	Sandstone spur,projects N.
	Abrupt descent.
61.00	Prickly Pear Canyon,800 ft.deep,course NE.
	Abrupt ascent.
66.00	Sandstone spur,projects S.
	Abrupt descent along steep,south slope.
70.00	Bend in same Canyon, from SW.to SE.
	Abrupt ascent over sandstone ledges.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
79.74	The cor.of secs.10-11-14 and 15.
	Land,mountainous .
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and pine.
	Mountainous land on 79.74 chs.
	May 25, 1910
	May 26: At 6h.57m.,a.m.,l.m.t.,I set off 39°47'N.on lat. arc,21°04'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.10-11-14 and 15.
	Thence I run
	N.0°01'W.,bet.secs.10 and 11.
	Abrupt ascent over sandstone ledges,through scattering timber.
5.00	Sandstone ridge,bears NE.and SW.
	Abrupt descent.
9.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
24.50	Sandstone spur,projects E.
	Abrupt descent.
32.00	Hollow,500 ft.deep,course SE.
	Abrupt ascent over sandstone ledges.
39.00	Narrow sandstone ridge, bears E.and W.
	Abrupt descent over sandstone ledges.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on W. half,S 11 on E.half,from which
	A pinon,5 ins.diam.,bears S.22°E.,36 lks.dist., marked ¼ S 11 BT.
	A cedar,5 ins.diam.,bears S.76°W.,7 lks.dist., marked ¼ S 10 BT.
63.00	Enter bottom of Nine Mile Canyon,1200 ft.deep,course SE.
	Over bottom-land,through dense undergrowth.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
73.60	Minnie Maud Creek,20 lks.wide,15 ins.deep,course SE.
	Scattering cottonwoods along the creek.
77.00	Same creek, 20 lks.wide,15 ins.deep,course SW.
78.00	Same creek,20 lks.wide,15 ins.deep,course SE.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.2-3-10 and 11,marked on brass cap
	T 12 S S 3 in NW.,
	R 15 E S 2 in NE.,
	S 11 in SE.and S 10 in SW.quadrant, 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.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 63.00 chs.
	balance,loam,1st.rate.
	Timber,cedar,pinon and cottonwood.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land or land covered with dense undergrowth on 63.00 chs.
	N.89°48'E.,on a random line,bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.62	Intersect N.and S.line,7 lks.S.of the cor.of secs. 1-2-11 and 12.
	Thence I run
	S.89°45'W.,on a true line,
	Bet.secs.2 and 11.
	Descend abruptly over sandstone ledges,through scattering timber.
8.00	Hollow,300 ft.deep,course SW.
	Abrupt ascent.
13.00	Rocky spur,projects S.
	Abrupt descent.
16.00	Hollow,200 ft.deep,course S.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Abrupt ascent.
22.30	Sandstone spur,projects S.
	Abrupt descent.
29.50	Hollow,100 ft.deep,course S.
	Ascend.
31.00	Sandstone spur,projects S.
	Abrupt descent.
35.25	Top of perpendicular sandstone ledge,100 ft.high, bears N.and S.
39.81	Set an iron post,3′ ft.long,1′ in.dia.,26′ ins.in the ground,for ¼ sec.cor.,marked on brass cap, ¼ S 2′ on N. half,S 11 on S.half,from which.
	A cedar,5 ins.diam.,bears S.26°E.,27 lks.dist., marked ¼ S 11′ BT.
	A cedar,4 ins.diam.,bears N.35°E.,18 lks.dist., marked ¼ S 2′ BT.
44.00	Hollow,500 ft.deep,course S.
	Abrupt ascent.
48.00	Rocky spur,projects S.
	Abrupt descent.
	Leave timber.
54.50	Bottom of Blind Canyon, 800 ft.below sec.cor.,course SE.
	Abrupt ascent.
68.90	Sandstone ridge,bears NW.and SE.
	Abrupt descent over sandstone ledges.
75.00	Enter bottom of Nine Mile Canyon,1200 ft.deep,course SE.
	Over bottom land,through dense undergrowth.
77.10	Canyon road,bears NW.and SE.
79.62	The cor.of secs.2-3-10 and 11.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 75.00 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Timber,cedar and pinon.
	Undergrowth,greasewood and sage brush.
	Mountainous land or land covered with dense undergrowth on 79.62 chs.
	May 26: At this cor.I set off 21°04'N.on decl.arc,and at 11h.57m.p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°48'N.
	Knowing the line bet.secs.2 and 3 will not close within limits on the N.bdy.of the Tp.,I run,
	N.0°01'W.,on a true line,
	Bet.secs.2 and 3.
	In bottom of Nine Mile Canyon,over level land,through dense undergrowth.
1.41	Pole fence,being the lower end of Preston Nutter's land,bears NE.and SW.
6.24	Canyon road,bears NW.and SE.
7.00	Leave canyon,begin abrupt ascent over sandstone ledges bearing NW.and SE.
18.00	Sandstone ridge,bears NW.and SE.
	Abrupt descent through scattering timber.
22.00	Hollow,200 ft.deep,course E.
	Abrupt ascent.
28.50	Sandstone spur,projects E.
	Abrupt descent.
35.00	Hollow,200 ft.deep,course E.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on W. half,S 2 on E.half,from which
	A pinon,7 ins.diam.,bears N.46°E.,28 lks.dist., marked ¼ S 2 BT.
	A pinon,7 ins.diam.,bears S.27°W.,30 lks.dist., marked ¼ S 3 BT.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
54.00	Spur,projects E.
	Descend along steep east slope.
59.00	Hollow,75 ft.deep,course E.
	Ascend.
59.98	Intersect S.bdy.of T.11 S.,R.15 E., N.88°37'W.,10.96 chs.from the cor.of secs.2-3-34 and 35,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for closing cor.of secs.2 and 3, marked on brass cap,T 11 S R 15 E S 34 S 35 CC on N.half,and T 12 S R 15 E S 2 S 3 on S.half,from which
	A cedar,5 ins.diam.,bears S.68°E.,21 lks.dist., marked T 12 S R 15 E S 2 BT.
	A pinon,8 ins.diam.,bears S.20°30'W.,108 lks. dist.,marked T 12 S R 15 E S 3 BT.
	Note: On account of natural obstacles, it is impossible to set this post over 12 ins.in the ground.
	I destroy all marks on the cor.of secs.2-3-34 and 35, that pertain to T.12 S.
	Land,mountainous and level.
	Soil,loam,1st.rate on 7.00 chs.
	balance,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Undergrowth, greasewood and sage brush.
	Mountainous land or land covered with dense undergrowth on 59.98 chs.
	May 26, 1910

May 27: At 6h.57m.,a.m.,l.m.t.,I set off 39°43'N.on lat. arc,21°14'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34,on the S. bdy.of the Tp., which is a sandstone,12x9x7 ins.above ground,marked and witnessed as described by the

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	surveyor general.
	Thence I run
	N.0°02'W.,bet.secs.33 and 34.
	Ascend through heavy timber.
8.00	Top of ridge,bears SW. and N.
	Descend along top of ridge.
30.50	Leave ridge,bears NE.and S.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 33 on W. half,S 34 on E.half,from which
	A pinon,13 ins.diam.,bears N.77°W.,9 lks.dist., marked ¼ S.33 BT.
	A pinon,9 ins.diam.,bears N.73°E.,45 lks.dist., marked ¼ S 34 BT.
48.00	Hollow,300 ft.deep,course NW.
	Abrupt ascent.
65.00	Rocky ridge,bears NW.and SE.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.27-28-33.and 34,marked on brass cap,T 12 S S 28 in NW.,
	R 15 E S 27 in NE.,
	S 34 in SE.and S 33 in SW.quadrant,from which
	A pine,6 ins.diam.,bears N.38°E.,53 lks.dist., marked T 12 S R 15 E S 27 BT.
	A pine,18 ins.diam.,bears S.66°E.,20 lks.dist., marked T.12 S R.15 E S 34 BT.
	A pine,12 ins.diam.,bears S.43°W.,20 lks.dist., marked T 12 S R.15.E.S.33.BT.
	A pine,15.ins.diam.,bears N.23°W.,18 lks.dist., marked T 12 S R 15 E S 28 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.
	N.89°48'E.,on a random line,bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,3 lks.S.of the cor.of secs. 26-27-34 and 35.
	Thence I run
	S.89°47'W.,on a true line,
	Bet.secs.27 and 34.
	Descend abruptly over rocky and mountainous land, through scattering timber.
18.00	Hollow,550 ft.deep,course NE.
	Leave timber.
	Abrupt ascent over broken sandstone ledges.
40.02	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on N. half,S 34 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
48.00	Ridge,bears NE.and SW.
	Descend abruptly along steep,north slope,through scattering timber.
80.04	The cor.of secs.27-28-33 and 34.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.04 chs.
	May 27: At this cor.I set off 21°15'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°44'N.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.0°02'W.,bet.secs.27 and 28.
	Descend abruptly over rocky and mountainous land,through scattering timber.
19.75	Enter bottom of Dry Canyon, 1200 ft.deep,course NE.
23.15	Creek,6 lks.wide,6 ins.deep,course NE.
	Ascend.
24.25	Leave canyon, begin abrupt ascent over sandstone ledges bearing NE.and SW.
30.00	Sandstone spur,200.ft.above bottom of canyon,projects SE.
	Descend along steep,east slope,over solid sandstone.
37.75	Hollow,200 ft.deep,course SE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 28 on W. half;S 27 on E.half,from which.
	A pinon,9 ins.diam.,bears N.83°W.,54 lks.dist., marked ¼ S 28 BT.
	A pinon,9 ins.diam.,bears S.78°E.,20 lks.dist., marked ¼ S 27 BT.
50.65	Spur,projects SE.
	Abrupt descent.
59.00	Hollow,150 ft.deep,course E.
	Abrupt ascent along steep,east slope.
67.85	Rocky spur,projects E.
	Abrupt descent.
78.50	Hollow,200 ft.deep,course E.
	Abrupt ascent over broken sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground,for cor.of secs.21-22-27 and 28,marked on brass cap,T 12 S S 21 in NW., R 15 E S 22 in NE., S 27 in SE.and S 28 in SW.quadrant,from which
	A cedar,12 ins.diam.,bears N.56°E.,40 lks.dist.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	marked T 12 S R 15 E S 22 BT.
	A pinon,5 ins.diam.,bears S.45°E.,18 lks.dist.
	marked T 12 S R 15 E S 27 BT.
	A pinon,5 ins.diam.,bears S.88°W.,52 lks.dist.
	marked T 12 S R 15 E S 28 BT.
	A pinon,9 ins.diam.,bears N.30°W.,57 lks.dist.
	marked T 12 S R 15 E S 21 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.
	N.89°47'E.,on a random line,bet.secs.22 and 27.
40.00	Set temp.¼.sec.cor.
79.90	Intersect N.and S.line,3 lks.N.of the cor.of secs. 22-23-26 and 27.
	Thence I run
	S.89°48'W.,on a true line,
	Bet.secs.22 and 27.
	Ascend over rocky and mountainous land,along steep, south slope,through scattering timber.
2.00	Rocky spur,projects S.
	Descend abruptly along steep,south slope over sandstone ledges.
27.25	Hollow,400 ft.deep,course S.
	Abrupt ascent. Leave timber.
39.95	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 22 on N. half,S 27 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
47.00	Sandstone spur,projects S.
	Abrupt descent.
62.00	Hollow,400 ft.deep,course SE.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Abrupt ascent along steep south slope over broken sandstone ledges, through scattering timber.
79.90	The cor.of secs.21-22-27.and 28.
	Land, mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.90 chs.
	May 27,1910
	May 28: At 6h.57m.,a.m.,l.m.t.,I set off 39°45'N.on lat. arc,21°24'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.21-22-27 and 28.
	Thence I run
	N.0°02'W.,bet.secs.21 and 22.
	Ascend abruptly over broken sandstone ledges,through scattering timber.
7.70	Top of perpendicular sandstone ledge,50 ft.high,bears E.and W.
	Leave sandstone ledges, begin abrupt ascent.
14.00	Spur,projects SE.
	Abrupt descent.
23.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
34.30	Ridge,bears E.and W.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 21 on W. half,S 22 on E.half, from which
	A pinon,14 ins.diam.,bears S.85°E.,155 lks.dist., marked ¼ S 22 BT.
	A pinon,5 ins.diam.,bears S.6°W.,163 lks.dist., marked ¼ S 21 BT.
43.00	Leave timber,bears E.and W.
48.00	Hollow,100 ft.deep,course NE.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Ascend.
54.00	Enter heavy timber,bears NE.and SW.
64.00	Ridge,bears NE.and SW.
	Descend.
70.15	Begin abrupt descent over sandstone ledges,bearing NE.and SW.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.15-16-21 and 22,marked on brass cap,T 12 S S 16 in NW.,
	R 15 E S 15 in NE.,
	S 22 in SE.and S 21 in SW.quadrant,from which
	A cedar,14 ins.diam.,bears N.59°E.,9 lks.dist., marked T 12 S R 15 E S 15 BT.
	A cedar,15 ins.diam.,bears S.65°E.,14 lks.dist., marked T 12 S R 15 E S 22 BT.
	A pinon,14 ins.diam.,bears S.89°W.,18 lks.dist., marked T 12 S R 15 E S 21 BT.
	A cedar,5 ins.diam.,bears N.46°W.,47 lks.dist., marked T 12 S R 15 E S 16 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°48'E.,on a random line,bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
79.88	Intersect N.and S.line,7 lks.S.of the cor.of secs. 14-15-22 and 23.
	Thence I run
	S.89°45'W.,on a true line,
	Bet.se cs. 15 and 22.
	Descend over rocky and mountainous land,through heavy timber.
10.00	Hollow,100 ft.deep,course NE.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Ascend.
32.00	Spur,projects NE.
	Descend.
39.94	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 15 on N. half,S 22 on S.half,from which
	A cedar,20 ins.diam.,bears S.2°30'E.,22 lks. dist.,marked ¼ S 22 BT.
	A pinon,8 ins.diam.,bears N.39°E.,32 lks.dist., marked ¼ S 15 BT.
40.25	Hollow,100 ft.deep,course NE.
	Ascend.
59.00	Ridge,bears NE.and SW.
	Abrupt descent.
70.00	Hollow,150 ft.deep,course N.
	Abrupt ascent along steep,north slope.
74.00	Spur,projects N.
	Descend along steep,north slope.
79.88	The cor.of secs.15-16-21 and 22.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.88 chs.
	May 28: At this cor.I set off 21°25'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°46'N.
	N.0°02'W.,bet.secs. 15 and 16.
	Descend over rocky and mountainous land,through heavy timber.
6.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
12.50	Spur,projects NE.
	Descend.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
18.75	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
26.60	Ridge,bears NE.and SW.
	Abrupt descent.
38.00	Prickly Pear Canyon,300 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on W. half,S 15 on E.half,from which
	A pinon,15 ins.diam.,bears S.78°E.,25 lks.dist., marked ¼ S 15 BT.
	A pinon,7 ins.diam.,bears S.63°W.,47 lks.dist., marked ¼ S 16 BT.
43.50	Spur,projects SE.
	Descend.
49.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
68.00	Spur,projects SE. Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.9-10-15 and 16,marked on brass cap,T 12 S S 9 in NW.,
	R 15 E S 10 in NE.,
	S 15 in SE.and S 16 in SW.quadrant,from which
	A pinon,9 ins.diam.,bears N.51°E.,39 lks.dist., marked T 12 S R 15 E S 10 BT.
	A pinon,15 ins.diam.,bears S.81°E.,43 lks.dist., marked T 12 S R 15 E S 15 BT.
	A pinon,12 ins.diam.,bears S.75°W.,39 lks.dist., marked T 12 S R 15 E S 16 BT.
	A pinon,10 ins.diam.,bears N.49°W.,50 lks.dist., marked T 12 S R 15 E S 9 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.89°45'E.,on a random line,bet.secs.10 and 15.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.98	Intersect N.and S.line,16 lks.N.of the cor.of secs. 10-11-14 and 15.
	Thence I run
	S.89°52'W.,on a true line,
	Bet.secs.10 and 15.
	Ascend abruptly over broken sandstone ledges, along steep,south slope,through scattering timber.
24.00	Ridge,bears NE.and SW.
	Abrupt descent along north slope.
39.99	Set an iron post, 3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 10 on N. half,S 15 on S.half,from which
	A pinon,14 ins.diam.,bears S.56°W.,56 lks.dist., marked $\frac{1}{4}$ S 15 BT.
	A pinon,15 ins.diam.,bears N.30°W.,71 lks.dist., marked $\frac{1}{4}$ S 10 BT.
41.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
60.50	Ridge,bears NE.and SW.
	Abrupt descent along broken,north slope.
79.98	The cor.of secs.9-10-15 and 16.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.98 chs.
	May 28, 1910
	May 29: At 6h.57m.,a.m.,l.m.t.,I set off 39°47'N.on lat. arc,21°34'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.9-10-15 and 16.
	Thence I run

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.0°02'W.,bet.secs.9 and 10.
	Abrupt descent over rocky and mountainous land,through heavy timber.
6.60	Hollow,500 ft.deep,course NE.
	Abrupt ascent.
9.00	Spur,projects E.
	Abrupt descent.
10.50	Same hollow,500 ft.deep,course NW.
	Abrupt ascent.
13.50	Spur,projects W.
	Abrupt descent.
15.00	Same hollow,500 ft.deep,course NE.
	Abrupt ascent.
22.50	Spur,projects SE.
	Descend.
27.00	Hollow,100 ft.deep,course SE.
	Ascend.
32.75	Spur,projects SE.
	Descend.
35.00	Head of hollow,course SE.
	Ascend.
39.50	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on W. half,S 10 on E.half,from which
	A pinon,5 ins.diam.,bears S.39°E.,30 lks.dist., marked ¼ S 10 BT.
	A pinon,5 ins.diam.,bears S.72°W.,33 lks.dist., marked ¼ S 9 BT.
68.00	Hollow,500 ft.deep,course NE.
	Abrupt ascent over broken sandstone ledges.
80.00	Set an iron post,3 ft.long,2 ins.dia., in mound of stone and earth,for cor.of secs.3-4-9 and 10,marked on brass

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	cap,T 12 S S 4 in NW.,
	R 15 E S 3 in NE.,
	S 10 in SE.and S 9 in SW.quadrant,from which
	A pinon,12 ins.diam.,bears N.16°30'E.,87 lks.dist.
	marked T 12 S R 15 E S 3 BT.
	A pinon,5 ins.diam.,bears S.20°E.,50 lks.dist.,
	marked T 12 S R 15 E S 10 BT.
	A cedar,5 ins.diam.,bears S.57°W.,59 lks.dist.,
	marked T 12 S R 15 E S 9 BT.
	A pinon,5 ins.diam.,bears N.34°W.,58 lks.dist.,
	marked T 12 S R 15 E S 4 BT.
	This cor.cannot be set over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

	N.89°52'E.,on a random line,bet.secs.3 and 10.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.90	Intersect N.and S.line, 5 lks.S.of the cor.of secs.
	2-3-10 and 11.
	Thence I run
	S.89°50'W.,on a true line,
	Bet.secs.3 and 10.
	Over level land in bottom of Nine Mile Canyon, through
	dense undergrowth.
1.60	Minnie Maud Creek, 20 lks.wide,18 ins.deep,course SE.
2.25	Pole fence,bears NE.and SW.
19.50	Leave canyon; begin abrupt ascent over sandstone ledges
	bearing NW.and SE.
33.00	Top of ledges,700 ft.above the bottom of the canyon.
	Begin ascent along ridge,bearing W.,through scattering
	timber.
39.00	Leave ridge,bears N.80°W. and E.
	Ascend along steep south slope.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
39.95	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on N. half,S 10 on S.half, from which
	A pinon,8 ins.diam.,bears N.41°E.,30 lks.dist., marked ¼ S 3 BT.
	A pinon,12 ins.diam.,bears S.87°E.,64 lks.dist., marked ¼ S 10 BT.
46.00	Leave timber; begin descent along steep,broken,south slope over sandstone ledges.
58.00	Head of hollow,course S.
	Ascend along steep south slope.
64.90	Spur,projects S.
	Enter timber.
	Descend along steep,south slope.
78.00	Head of hollow,course SE.
	Ascend.
79.90	The cor.of secs.3-4-9 and 10.
	Land,level and mountainous.
	Soil,loam,1st.rate on 19.50 chs.
	rocky,3rd.and 4th.rate on balance.
	Timber,cedar and pinon.
	Undergrowth,greasewood,sage brush and willows.
	Mountainous land or land covered with dense undergrowth on 79.90 chs.
	May 29: At this cor.I set off 21°35'N.on decl.arc,and at 11h.57m,a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°48'N.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Knowing that the line bet.secs.3 and 4 will not close within limits on the N.bdy.of the Tp.,I run
	N.0°02'W.,on a true line,
	Bet.secs.3 and 4.
	Ascend abruptly over rocky and mountainous land,through scattering timber.
1.40	Ridge,bears E.and W.
	Abrupt descent.
13.00	Hollow,600 ft.deep,course NE.
	Abrupt ascent.
25.57	Spur ridge,bears NE.and SW.
	Abrupt descent.
38.00	Leave timber.
39.60	Perpendicular sandstone ledges,100 ft.high,bears NE. and SW.
40.00	At foot of ledge.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on W. half,S 3 on E.half,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
40.75	Hollow,600 ft.below top of spur,course NE.
	Ascend along steep,east slope.
43.00	Spur,projects NE.
	Abrupt descent.
49.00	Enter bottom of Nine Mile Canyon,1200 ft.deep,course SE.
	Over level land,through dense undergrowth.
49.50	Enter cultivated land,belonging to Preston Nutter, bears NE.and W.
50.25	Leave cultivated land,bears NW.and SE.
51.00	Minnie Maud Creek,25 lks.wide,12 ins.deep,course SE.
54.00	Bend in same creek,25 lks.wide,12 ins.deep,course from NW.to SW.
59.00	Road,bears NW.and SE.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
61.50	Intersect S.bdy.of T.11 S.,R.15 E.,6.95 chs.,S.89°44'W. from the cor.of secs.3-4-33 and 34,heretofore described. Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.3 and 4,marked on brass cap,T 11 S R 15 E S 33 S 34 CC on N.half,and T 12 S R 15 E S 3 S 4 on S.half,and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.,on 49.00 chs. balance,loam, 1st.rate.
	Timber,cedar and pinon.
	Undergrowth, greasewood,sage brush and willows.
	Mountainous land or land covered with dense undergrowth on 60.75 chs.
	Note: I destroy all marks on the cor.of secs.3-4-33 and 34,that pertain to T.12 S.
	May 29,1910
	May 30: At 6h.57m.,a.m.,l.m.t.,I set off 39°43'N.on lat. arc,21°43'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.4-5-32 and 33,which is a limestone,9x9x4 ins.above the ground,marked and witnessed as described by the surveyor general.
	Thence I run N.0°03'W.,bet.secs.32 and 33.
	Ascend abruptly over rocky and mountainous land, through scattering timber.
5.00	Ridge,bears NE.and SW.
	Leave timber.
	Begin abrupt descent along steep,west slope,over broken sandstone ledges.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
28.00	Enter bottom of Dry Canyon,1200 ft.deep,course NE.
29.90	Creek,6 lks.wide,6 ins.deep;course NE:
32.25	Leave canyon; begin abrupt ascent over sandstone ledges,bearing NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 32 on W. half,S 33 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
74.00	Top of spur,800 ft.above the bottom of the canyon, projects E.
	Enter heavy timber,bears E.and W.
	Abrupt descent.
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,marked on brass cap,T 12 S S 29 in NW.,
	R 15 E S 28 in NE.,
	S 33 in SE.and S 32 in SW.quadrant, from which
	A pine,18 ins.dia.,bears N.21°E.,33 lks.dist., marked T 12 S R 15 E S 28 BT.
	A pine,10 ins.diam.,bears S.51° E.,9 lks.dist., marked T 12 S R 15 E S 33 BT.
	A pine,9 ins.diam.,bears S.63°W.,14 lks.dist., marked T 12 S R 15 E S 32 BT.
	A pine,4 ins.diam.,bears N.42°W.,48 lks.dist., marked T 12 S R 15 E S 29 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N'89°48'E.,on a random line,bet.secs.28 and 33.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect N.and S.line,3 lks.S.of the cor.of secs. 27-28-33 and 34.
	Thence I run
	S.89°47'W.,on a true line,
	Bet.secs.28 and 33.
	Descend over rocky and mountainous land,along steep, north slope,through scattering timber.
0.50	Hollow,200 ft.deep,course N.
	Abrupt ascent along steep,north slope.
5.56	Spur,projects N.
	Abrupt descent.
8.25	Hollow,100 ft.deep,course N.
	Abrupt ascent.
12.00	Spur,projects N.
	Abrupt descent.
19.50	Hollow,300 ft.deep,course NE.
	Abrupt ascent.
31.50	Rocky spur,projects NE.
	Leave timber.
	Begin abrupt descent over broken sandstone ledges.
40.01	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 28 on N. half,S 33 on S.half,and raise a mound of stone,2 ft. base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
53.00	Enter bottom of Dry Canyon,1200 ft.deep,course NE.
54.25	Creek,6 lks.wide,6 ins.deep,course NE.
56.00	Leave canyon; begin abrupt ascent over broken sandstone ledges,bearing NE.and SW.
65.00	Begin ascent along steep,north slope.
	Enter heavy timber,bears N.and S.
80.02	The cor.of secs.28-29-32 and 33.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.02 chs.
	May 30: At this cor.I set off 21°44'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°44'N.
	N.0°03'W.,bet.secs.28 and 29.
	Abrupt descent over rocky and mountainous land,through heavy timber.
15.00	Hollow,700 ft.deep,course E.
	Leave timber,bears E.and W.
	Begin abrupt ascent over broken sandstone ledges.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 29 on W. half,S 28 on E.half,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
44.25	Rocky spur,projects E.
	Enter heavy timber,bears E.and W.
	Abrupt descent.
68.00	Prickly Pear Canyon,800 ft.deep,course SE.
	Abrupt ascent over broken ledges.
78.00	Rocky spur,projects SW.
	Descend along steep,west slope.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.20-21-28 and 29,marked on brass cap,T 12 S S 20 in NW.
	R 15 E S 21 in NE.,
	S 28 in SE.and S 29 in SW.quadrant,from which
	A pine,6 ins.diam.,bears N.20°E.,67 lks.dist., marked T 12 S R 15 E S 21 BT.
	A pine,14 ins.diam.,bears S.13°E.,31 lks.dist.,

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS

marked T 12 S R 15 E S 28 BT.

A pine,7 ins.diam.,bears S.16°W.,88 lks.dist.,

marked T 12 S R 15 E S 29 BT.

A pine,24 ins.diam.,bears N.9°W.,62 lks.dist.,

marked T 12 S R 15 E S 20 BT.

Land,mountainous.

Soil,rocky,3rd.and 4th.rate.

Timber,cedar,pinon and yellow pine.

Mountainous land on 80.00 chs.

N.89°47'E.,on a random line,bet.secs.21 and 28.

40.00 Set temp.¼ sec.cor.

80.00 Intersect N.and S.line,3 lks.S.of the cor.of secs.

21-22-27 and 28.

Thence I run

S.89°46'W.,on a true line,

Bet.secs.21 and 28.

Ascend abruptly over broken sandstone ledges,along

steep,south slope,through scattering timber.

6.00 Top of ledges,bear N.and S.,200 ft.above sec.cor.

Ascend through heavy timber.

27.00 Ridge,bears NE.and SW.

Descend.

40.00 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

ground,for ¼ sec.cor.,marked on brass cap,¼ S 21 on N.

half.S 28 on S.half,from which

A pinon,12 ins.diam.,bears N.10°30'W.,52 lks.dist.,

marked ¼ S 21 BT.

A pinon,5 ins.diam.,bears S.43°W.,59 lks.dist.,

marked ¼ S 28 BT.

50.50 Begin abrupt descent over broken sandstone ledges,

bearing NW.and SE.

71.00 Hollow,450 ft.below top of ledges,course SW.

Abrupt ascent.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
77.50	Sandstone spur,projects SW.
	Abrupt descent.
80.08	The cor.of secs.20-21-28 and 29.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.08 chs.
	May 30, 1910

	May 31: At 6h.57m.,a.m.,l.m.t.,I set off 39°45'N.on lat. arc,21°52'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.20-21-28 and 29.
	Thence I run
	N.0°03'W.,bet.secs.20 and 21.
	Descend abruptly over broken sandstone ledges,along steep,west slope,through scattering timber.
2.50	Hollow,100 ft.below the sec.cor.,course SW.
	Abrupt ascent.
19.50	Top of ledges, 400 ft.above the sec.cor.,bearing NW.and SE.
	Abrupt ascent.
35.10	Ridge,bears NW.and SE.
	Enter heavy timber,bears NW.and SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on W. half,S 21 on E.half,from which
	A mahogany,8 ins.diam.,bears S.39°W.,8 lks.dist., marked ¼ S 20 BT.
	A cedar,28 ins.diam.,bears S.36°E.,76 lks.dist., marked ¼ S 21 BT.
44.00	Leave timber,bears NE.and SW.
66.00	Enter heavy timber,bears NW.and SE.
69.75	Begin abrupt descent over sandstone ledges,bearing

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	E.and W.
76.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.16-17-20 and 21,marked on brass cap,T 12 S S 17 in NW.,
	R 15 E S 16 in NE.,
	S 21 in SE.and S 20 in SW.quadrant,from which
	A pinon,7 ins.diam.,bears N.9°30'E.,28 lks.dist., marked T 12 S R 15 E S 16 BT.
	A pinon,5 ins.diam.,bears S.64°E.,22½ lks.dist., marked T 12 S R 15 E S 21 BT.
	A pinon,6 ins.diam.,bears S.47°W.,28 lks.dist., marked T 12 S R 15 E S 20 BT.
	A pine,10 ins.diam.,bears N.25°W.,92 lks.dist., marked T 12 S R 15 E S 17 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar pinon,yellow pine and mountain mahogany.
	Mountainous land on 80.00 chs.
	N.89°46'E.,on a random line,bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,7 lks.N.of the cor.of secs. 15-16-21 and 22.
	Thence I run
	S.89°49'W.,on a true line,
	Bet.secs.16 and 21.
	Descend abruptly over rocky and mountainous land,along steep,north slope,through heavy cedar and pinon timber.
8.50	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
21.00	Ridge,bears NE.and SW.
	Descend.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
25.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on N. half,S 21 on S.half,from which
	A pinon,5 ins.diam.,bears S.1°W.,56 lks.dist., marked ¼ S 21 BT.
	A pinon,5 ins.diam.,bears N.25°E.,39½ lks.dist., marked ¼ S 16 BT.
46.00	Ridge,bears NE.and SW.
	Abrupt descent.
59.00	Hollow,100 ft.deep,course N.
	Abrupt ascent.
65.00	Spur,projects NE.
	Abrupt descent.
76.25	Hollow,125 ft.deep,course NE.
	Abrupt ascent.
80.10	The cor.of secs.16-17-20 and 21.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.10 chs.
	May 31: At this cor.I set off 21°53'N.on decl.arc,and at 11h57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°46'N.

N.0°03'W.,bet.secs.16 and 17.

	Ascend abruptly over broken sandstone ledges,along steep east slope,through scattering timber.
15.34	Top of abrupt ascent,bears NE.and SW.
	Enter heavy timber,bears NE.and SW.
	Over level and rocky land.
19.00	Begin abrupt descent,along steep,east slope,over broken sandstone ledges.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
26.00	Head of hollow,course E.
	Abrupt ascent,along steep,E.slope.
32.50	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on W. half,S 16 on E.half,from which
	A pinon,6 ins.diam.,bears S.85°30'E.,78 lks.dist., marked ¼ S 16 BT.
	A pinon,9 ins.diam.,bears S.66°W.,25 lks.dist., marked ¼ S 17 BT.
57.00	Leave timber,bears E.and W.
59.75	Hollow,400 ft.deep,course E.
	Abrupt ascent.
64.00	Enter scattering timber.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.8-9-16 and 17,marked on brass cap,T 12 S S 8 in NW.,
	R 15 E S 9 in NE.,
	S 16 in SE.and S 17 in SW.quadrant,from which
	A pinon,12 ins.diam.,bears N.86°E.,31 lks.dist., marked T 12 S R 15 E S 9 BT.
	A pinon,15 ins.diam.,bears S.4°E.,76 lks.dist., marked T 12 S R 15 E S 16 BT.
	A pinon,5 ins.diam.,bears S.41°W.,58 lks.dist., marked T 12 S R 15 E S 17 BT.
	A pinon,7 ins.diam.,bears N.55°W.,37 lks.dist., marked T 12 S R 15 E S 8 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.89°49'E.,on a random line,bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,12 lks.N.of the cor.of secs. 9-10-15 and 16.
	Thence I run
	S.89°54'W.,on a true line,
	Bet.secs.9 and 16.
	Descend abruptly over rocky land,along steep,north slope, through heavy timber.
7.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
13.25	Spur,projects N.
	Abrupt descent.
20.50	Enter bottom of hollow,400 ft.deep,course from W.to NE.
	Leave timber,bears N.and S.
	Ascend in hollow,through dense undergrowth.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on N. half,S 16 on S.half,from which
	A pinon,5 ins.diam.,bears S.9°W.,120 lks.dist., marked ¼ S 16 BT.
	A pinon,14 ins.diam.,bears N.4°E.,204 lks.dist., marked ¼ S 9 BT.
42.00	Leave hollow,course from SW.to E.
	Enter heavy timber,bears N.and S.
	Abrupt ascent.
52.00	Spur,projects SE.
	Abrupt descent.
58.00	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
78.00	Ridge,bears NW.and SE.
	Descend.
79.98	The cor.of secs.8-9-16 and 17.
	Land,mountainous.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.98 chs.
	May 31, 1910
	June 1: At 6 h.57m,a.m.,l.m.t.,I set off 39°47'N.on lat. arc,22°01'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.8-9-16 and 17.
	Thence I run
	N.0°03'W.,bet.secs.8 and 9.
	Ascend over mountainous land,through heavy timber.
2.00	Ridge,bears NW.and SE.
	Descend.
5.00	Hollow,100 ft.deep,course SE.
	Ascend.
12.00	Ridge,bears E.and W.
	Abrupt descent.
36.00	Hollow,200 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post, 3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 8 on W. half,S 9 on E.half,from which
	A pinon,18 ins.diam.,bears S.21°W.,39 lks.dist., marked ¼ S 8 BT.
	A pinon,15 ins.diam.,bears S.19°E.,78 lks.dist., marked ¼ S 9 BT.
51.50	Ridge,bears NE.and SW.
	Abrupt descent.
65.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
74.00	Ridge,bears NE.and SW.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.4-5-8 and 9,marked on

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	brass cap,T 12 S S 5 in NW.,
	R 15 E S 4 in NE.,
	S 9 in SE.and S 8 in SW.quadrant, from which
	A pinon,8 ins.diam.,bears N.57°E.,64 lks.dist.
	marked T 12 S R 15 E S 4 BT.
	A pinon,9 ins.diam.,bears S.33°E.,59 lks.dist.
	marked T 12 S R 15 E S 9 BT.
	A pinon,5 ins.diam.,bears S.28°W.,23 lks.dist.,
	marked T 12 S R 15 E S 8 BT.
	A pinon,8 ins.diam.,bears N.25°W.,31 lks.dist.
	marked T 12 S R 15 E S 5 BT.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°54'E.,on a random line,bet.secs. 4 and 9.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.98	Intersect.N.and S.line,3 lks.N.of the cor.of secs. 3-4-9 and 10.
	Thence I run
	S.89°55'W.,on a true line,
	Bet.secs.4 and 9.
	Ascend abruptly along steep south slope,through scattering timber.
8.00	Ridge,bears NE.and W.
	Ascend along top of ridge.
18.00	Leave ridge,bears E.and SW.
	Descend.
29.00	Hollow,100 ft.deep,course NE.
	Ascend.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
36.00	Spur,projects NE.
	Descend over broken ledges.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 4 on N. half,S 9 on S.half,from which
	A pinon,10 ins.diam.,bears N.2°W.,62 lks.dist., marked ¼ S 4 BT.
	A pinon,13 ins.diam.,bears S.52°E.,23 lks.dist., marked ¼ S 9 BT.
40.30	Head of hollow,course NE.
	Ascend.
49.00	Spur,projects NE.
	Descend.
56.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent along steep,south slope.
73.50	Ridge,bears NE.and SW.
	Enter heavy timber,bears NE.and SW.
	Abrupt descent along steep,north slope.
79.98	The cor.of secs.4-5-8 and 9.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.98 chs.
	June 1: At this cor.I set off 22°01'N.on decl.arc,and at 11h.57m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°48'N.

Knowing the line bet.secs.4 and 5 will not close within limits on the N.bdy.of the Tp., I run

N.0°03'W.,on a true line,

Bet.secs.4 and 5.

Descend abruptly over rocky and mountainous land, through heavy timber.

9.00	Hollow,200 ft.deep,course NE.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Abrupt ascent.
22.00	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 5 on W. half,S 4 on E.half,from which
	A pinon,6 ins.diam.,bears East,6 lks.dist., marked ¼ S 4 BT.
	A pinon,5 ins.diam.,bears N.17°W.,56 lks.dist., marked ¼ S 5 BT.
47.50	Bottom of Olsen Canyon,800 ft.deep,course NE.
	Leave heavy timber,bears NE.and SW.
	Abrupt ascent over sandstone ledges,through scattering timber.
55.48	Sandstone ridge,bears E.and W.
	Abrupt descent over sandstone ledges.
61.20	Intersect S.bdy.of T.11 S.,R.15 E.,5.82 chs.west of the cor.of secs.4-5-32 and 33,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,in mound of earth and stone,for closing cor.of secs.4 and 5,marked on brass cap,T 11 S R 15 E S 32 S 33 CC on N.half,and T 12 S R 15 E S 4 S 5 on S.half,from which
	A pine,4 ins.diam.,bears S.23°E.,93 lks.dist., marked T 12 S R 15 E S 4 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,S.of cor.
	Pits impracticable.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	I destroy all marks on the cor.of secs.4-5-32 and 33, that pertain to T.12 S.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Mountainous land on 61.20 chs.
	June 1, 1910
	June 2: At 6h.58m.,a.m.,l.m.t.,I set off 39°43'N.on lat. arc, 22°09'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-31 and 32,on the S. bdy.of the Tp., which is a sandstone,8x10x4 ins.above ground,marked and witnessed as described by the surveyor general.
	Thence I run
	N.0°03'W.,bet.secs.31 and 32.
	Ascend over rocky and mountainous land,through heavy timber.
1.00	Ridge,bears NW.and SE.
	Descend.
12.00	Leave timber,bears NE.and SW.
33.00	Enter heavy timber,bears NW.and SE.
40.00	Set an iron post,3 ft.oong,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 31 on W. half,S 32 on E.half,from which
	A cedar,8 ins.diam.,bears S.8°E.,31 lks.dist., marked ¼ S 32 BT.
	A pinon,9 ins.diam.,bears S.7°W.,38 lks.dist., marked ¼ S 31 BT.
40.50	Leave timber,bears E.and W.
51.00	Hollow,300 ft.deep,course NE.
	Abrupt ascent through scattering timber.
65.00	Ridge,bears E.and W.
	Abrupt descent.
75.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.29-30-31 and 32,marked on brass cap,T 12 S S 30 in.NW.,

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS

R 15 E S 29 in NE.,

S 32 in SE.and S 31 in SW.quadrant,from which

A pine,9 ins.diam.,bears N.56°E.,58 lks.dist.,
marked T 12 S R 15 E S 29 BT.

A pine,20 ins.diam.,bears S.33°E.,145 lks.dist.,
marked T 12 S R 15 E S 32 BT.

A pine,24 ins.diam.,bears S.21°W.,38 lks.dist.,
marked T 12 S R 15 E S 31 BT.

A pine,24 ins.diam.,bears N.33°W.,8 lks.dist.,
marked T 12 S R 15 E S 30 BT.

Land,mountainous.

Soil,rocky,3rd.and 4th.rate.

Timber,cedar,pinon,yellow pine and mountain mahogany.

Mountainous land on 80.00 chs.

N.89°48'E.,on a random line,bet.secs.29 and 32.

40.00 Set temp.¼ sec.cor.

80.02 Intersect N.and S.line,3 lks.N.of the cor.of secs.
28-29-32 and 33.

Thence I run

S.89°49'W.,on a true line,

Bet.secs.29 and 32.

Ascend along steep,north slope,through heavy timber.

14.50 Spur,projects N.

Leave heavy timber,bears N.and S.

Descend along steep,broken north slope,through
scattering timber.

40.01 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the
ground,for ¼ sec.cor.,marked on brass cap,¼ S 29 on N.
half,S 32 on S.half,from which

A pinon,8 ins.diam.,bears S.72°E.,64 lks.dist.,
marked ¼ S 32 BT.

A pinon,5 ins.diam.,bears N.15°W.,92 lks.dist.,
marked ¼ S 29 BT.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
46.00	Hollow,400 ft.deep,course NE.
	Abrupt ascent.
51.00	Enter heavy timber,bears NE.and SW.
69.00	Spur,projects NE.
	Descend.
74.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
80.02	The cor.of secs. 29-30-31 and 32.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.02 chs.
	June 2: At this cor.I set off 22°10'N.on decl.arc,and at 11h.58m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°44'N.
	Knowing the line bet.secs.30 and 31 will not close within limits on the W.bdy.of the Tp.,I run S.89°48'W.,on a true line, Bet.secs.30 and 31.
	Ascend abruptly along steep south slope,over broken sandstone ledges,through scattering timber.
30.55	Top of perpendicular sandstone ledges,50 ft.high, bearing NE.and SW.
	Ascend.
33.00	Ridge,bears NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 30 on N. half,S 31 on S.half,from which
	A pine,5 ins.diam.,bears S.52°W.,41 lks.dist., marked ¼ S 31 BT.
	A pine,6 ins.diam.,bears N.38°E.,28 lks.dist., marked ¼ S 30 BT.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
68.00	Leave timber,bears NW.and SE.
74.11	Intersect E.bdy.of T.12 S.,R.14 E., 2.43 chs.N.0°10'E. from the cor.of secs.25-30-31 and 36,heretofore described. Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.30 and 31,marked on brass cap,T 12 S on N.half, R 14 E S 25 S36 CC on W.half,and R 15 E S 30 S 31 on E.half, dig pits,24x18x12 ins., crosswise on each line,N.and S.,3 ft.and E.of post, 7 ft.dist.,and raise a mound of earth,4 ft.base,2 ft. high,E.of cor. I destroy all marks on the cor.of secs.25-30-31 and 36 that pertain to R.15 E. Land,mountainous. Soil,rocky,3rd.and 4th.rate. Timber,cedar,pinon and pine. Mountainous land on 74.11 chs.

N.0°03'W.,bet.secs.29 and 30.

	Ascend abruptly over broken sandstone ledges,through heavy timber.
15.35	Top of perpendicular sandstone ledge,50 ft.high, bears NE.and SW. Leave sandstone ledges, ascend.
18.50	Ridge,bears NE.and SW. Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 30 on W. half,S 29 on E.half,from which A pine,7 ins.diam.,bears N.86°W.,46 lks.dist., marked ¼ S 30 BT. A pine,10 ins.diam.,bears N.69°E.,42 lks.dist., marked ¼ S 29 BT.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
45.00	Enter bottom of Stone Cabin Canyon,800 ft.deep,course NE. Leave timber,bears NE.and SW.
46.00	Wash,15 lks.wide,5 ft.deep,course NE.
48.00	Leave canyon, begin abrupt ascent over sandstone ledges bearing E.and W.
54.75	Rocky ridge,bears E.and W.
	Enter scattering timber.
	Abrupt descent.
65.00	Hollow,300 ft.deep,course NE.
	Abrupt ascent.
77.18	Rocky spur,projects E.
	Enter heavy timber,bears E.and W.
	Abrupt descent along steep,east slope.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.19-20-29 and 30,marked on brass cap,T 12 S S 19 in NW.,
	R 15 E S 20 in NE.,
	S 29 in SE.and S 30 in SW.quadrant,from which
	A pine,20 ins.diam.,bears N.21°E.,21 lks.dist., marked T 12 S R 15 E S 20 BT.
	A cedar,6 ins.diam.,bears S.43°30'E.,19 lks.dist. marked T 12 S R 15 E S 29 BT.
	A pine,6 ins.diam.,bears S.46°W.,15 lks.dist., marked T.12 S R 15 E S 30 BT.
	A cedar,6 ins.diam.,bears N.52°30'W.,16 lks. dist.,marked T 12 S R15 E., S 19 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and pine.
	Mountainous land on 80.00 chs.
	June 2, 1910

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	June 3: At 6h.50m.,a.m.,l.m.t.,I set off 39°45'N.on lat.arc,22°17'N.on decl.arc,and determine a meridian with the solar,at the cor.of secs.19-20-29 and 30.
	Thence I run
	N.89°49'E.,on a random line,bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,3 lks.S.of the cor.of secs. 20-21-28 and 29.
	Thence I run
	S.89°48'W.,on a true line,
	Bet.secs.20 and 29.
	Descend abruptly over sandstone ledges,through scattering timber.
2.50	Hollow,300 ft.deep,course S.
	Abrupt ascent.
9.00	Sandstone spur,projects S.
	Abrupt descent along steep,south slope.
22.00	Enter bottom of Prickly Pear Canyon,600 ft.below sec. cor.,course from W.to SE.
	Leave timber.
	Ascend in bottom of canyon.
31.00	Leave canyon; course from SW.to E.
	Begin abrupt ascent over sandstone ledges,bearing NE. and SW.
39.98	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on N.half,S 29 on S.half,and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
	Pits impracticable.
43.00	Sandstone spur,projects S.
	Abrupt descent.
61.00	Prickly Pear Canyon,600 ft.deep,course SE.
	Abrupt ascent over broken sandstone ledges,through scattering timber.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
75.00	Enter heavy timber,bears E.and W.
79.96	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 79.96 chs.
	Knowing the line bet.secs.19 and 30 will not close within limits on the W.bdy.of the Tp.,I run S.89°48'W.,on a true line, Bet.secs.19 and 30.
	Ascend abruptly over broken sandstone ledges,through heavy timber.
9.44	Top of abrupt ascent,bears N.and S.
	Over level land.
18.00	Begin descent,bears N.and S.
22.25	Hollow,50 ft.deep,course S.
	Ascend.
38.00	Spur,projects SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼.sec.cor.,marked on brass cap,¼ S 19 on N. half,S 30 on S.half,from which
	A pinon,8 ins.diam.,bears N.10°E.,33 lks.dist., marked ¼ S 19 BT.
	A pinon,12 ins.diam.,bears S.80°E.,10 lks.dist., marked ¼ S 30 BT.
60.50	Leave timber,bears NW.and SE.
70.00	Hollow,75 ft.deep,course SE.
	Ascend.
73.76	Intersect E.bdy.of T.12 S.,R.14 E.,2.80 chs.,N.0°25'E. from the cor.of secs.19-24-25 and 30, heretofore described.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.19 and 30,marked on brass cap, T 12 S on N.half, R 14 E S 24 S 25 CC on W.half,and R 15 E S 19 S 30 on E.half, dig pits,24x18x12 ins., crosswise on each line, N.and S.3 ft.and E.of post,7 ft.dist.,and raise a mound of earth,4 ft.base,2 ft.high, E.of cor.
	I destroy all marks on the cor.of secs.19-24-25 and 30 that pertain to R.15 E.
	Land,mountainous.
	Soil.rocky,3rd.and 4th rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 73.76 chs.
	N.0°03'W.,bet.secs.19 and 20.
	Descend over rocky and mountainous land,along steep, east slope,through heavy timber.
5.50	Hollow,150 ft.deep,course SE.
	Abrupt ascent.
13.30	Spur,projects E.
	Descend.
18.30	Head of hollow,course E.
	Ascend.
20.58	Spur,projects E.
	Abrupt descent.
34.00	Prickly Pear Canyon,500 ft.deep,course SE.
	Abrupt ascent over broken sandstone ledges.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on W. half,S 20 on E.half,from which
	A pinon,8 ins.diam.,bears S.87°W.,98 lks.dist., marked ¼ S 19 BT.
	A pinon,7 ins.diam.,bears N.72°E.,24 lks.dist.,

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	marked ¼ S 20 BT.
48.90	Top of ledges,400 ft.above the bottom of the canyon, bearing NW.and SE.
	Abrupt ascent over rocky land.
63.00	Ridge,bears NW.and SE.
	Descend.
73.00	Hollow,100 ft.deep,course NE.
	Ascend.
80.00	On top of ridge,bears NE.and SW.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.17-18-19 and 20,marked on brass cap,T 12 S S 18 in NW.,
	R 15 E S 17 in NE.,
	S 20 in SE.and S 19 in SW.quadrant, from which
	A pinon,9 ins.diam.,bears N.74°E.,42 lks.dist., marked T 12 S R 15 E S 17 BT.
	A cedar,12 ins.diam.,bears S.31°E.,10 lks.dist. marked T 12 S R 15 E S 20 BT.
	A pinon,15 ins.diam.,bears S.34°W.,15 lks.dist. marked T 12 S R 15 E S 19 BT.
	A cedar,15 ins.diam.,bears N.68°W.,36 lks.dist. marked T 12 S R 15 E S 18 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.
	June 3: At this cor.I set off 22°17'N.on decl.arc,and at 11h.58m.a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°46'N.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.89°48'E.,on a random line,bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line,5 lks.S.of the cor.of secs. 16-17-20 and 21.
	Thence I run
	S.89°46'W.,on a true line,
	Bet.secs.17 and 20.
	Ascend abruptly over broken sandstone ledges,through scattering timber.
3.50	Top of ledges,bearing N.and S.
	Enter heavy timber,bears N.and S.
	Ascend.
19.00	Leave timber bears NW.and SE.
25.00	Ridge,bears NE.and SW.
	Descend.
33.00	Enter heavy timber,bears NE.and SW.
39.96	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground, for ¼ sec.cor.,marked on brass cap,¼ S 17 on N.half,S 20 on S.half,from which
	A cedar,8 ins.diam.,bears N.40°E.,19 lks.dist., marked ¼ S 17 BT.
	A pinon,12 ins.diam.,bears S.15°E.,13 lks.dist., marked ¼ S 20 BT.
51.00	Begin abrupt descent,bears NE.and SW.
62.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
79.92	The cor.of secs.17-18-19 and 20.
	Land,mountainous .
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.92 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Knowing the line bet.secs.18 and 19 will not close within limits on W.bdy.of the Tp.
	Thence I run
	S.89°48'W.,on a true line,
	Bet.secs.18 and 19.
	Descend through heavy timber.
15.00	Head of hollow,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 18 on N. half,S 19 on S.half,from which
	A cedar,9 ins.diam.,bears N.18°W.,7 lks.dist., marked ¼ S 18 BT.
	A cedar,7 ins.diam.,bears S.38°W.,25 lks.dist., marked ¼ S 19 BT.
73.05	Intersect W.bdy.of Tp.,3.54 chs.,N.0°44'E.,from the cor of secs.13-18-19 and 24,heretofore described.
	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground,for closing cor.of secs.18 and 19,marked on brass cap,T 12 S on N.half,
	R 14 E S 13 S 24 CC on W.half,and
	R 15 E S 18 S 19 on E.half,from which
	A cedar,24 ins.diam.,bears N.33°E.,18 lks.dist. marked T 12 S R 15 E S 18 BT.
	A pinon,18 ins.diam.,bears S.53°E.,24 lks.dist., marked T 12 S R 15 E S 19 BT.
	I destroy all marks on the cor.of secs.13-18-19 and 24 that pertain to R.15 E.
	Land,rolling.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Heavily timbered land on 73.05 chs.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.0°03'W.,bet.secs.17 and 18.
	Descend over mountainous land,through heavy timber.
28.00	Leave heavy timber,bears NE.and SW.
	Enter scattering timber.
33.00	Hollow,250 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 18 on W. S 17 on E.half,from which
	A cedar,5 ins.diam.,bears S.7°E.,14 lks.dist., marked ¼ S 17 BT.
	A cedar,12 ins.diam.,bears N.68°W.,25 lks.dist. marked ¼ S 18 BT.
45.00	Spur,projects SE.
	Descend.
48.00	Hollow,75 ft.deep,course SE.
	Ascend.
50.00	Spur,projects SE.
	Abrupt descent.
56.00	Hollow,250 ft.deep,course SE.
	Abrupt ascent.
69.00	Spur,projects W.
	Descend.
74.00	Head of hollow,course SW.
	Abrupt ascent over broken sandstone ledges.
79.75	Top of abrupt ascent,bears NW.and SE.
	Over level rocky land.
	Enter heavy timber,bears NW.and SE.
80.00	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.7-8-17.and 18,marked on brass cap,T 12 S S 7 in.NW., R 15 E S 8 in NE., S 17 in SE.and S 18 in SW.quadrant,from which

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	A pinon,14 ins.diam.,N.51°E..17 lks.dist.,
	marked T 12 S R 15 E S 8 BT.
	A pinon,5 ins.diam.,bears S.62°E.,13 lks.dist.
	marked T 12 S R 15 E S 17 BT.
	A pinon,9 ins.diam.,bears S.72°W.,49 lks.dist.
	marked T 12 S R 15 E S 18 BT.
	A pinon,5 ins.diam.,bears N.48°W.,10½ lks.dist.,
	marked T 12 S R 15 E S 7 BT.
	This cor.is set on top of ledges,bearing NW.and SW.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	June 3, 1910

	June 4: At 6h.58m.,a.m.,l.m.t.,I set off 39°47'N.on lat.
	arc,22°24'N.on decl.arc,and determine a meridian with
	the solar at the cor.of secs.7-8-17 and 18.
	Thence I run
	N.89°46'E.,on a random line,bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,9 lks.N.of the cor.of secs.
	8-9-16 and 17.
	Thence I run
	S.89°50'W.,on a true line,
	Bet.secs.8 and 17.
	Descend along south slope,over broken sandstone ledges
	through scattering timber.
9.00	Hollow,150 ft.deep,course.SE.
	Abrupt ascent.
14.00	Spur,projects SE.
	Abrupt descent.
19.00	Hollow,150 ft.deep,course.SE.
	Abrupt ascent.
28.50	Spur,projects S.

SUBDIVISIONS OF T.12 S. R.15 E.

CHAINS	
	Descend.
34.00	Head of hollow, course SW.
	Ascend.
36.00	Spur, projects S.
	Descend along steep, south slope.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. , marked on brass cap, ¼ S 8 on N. half, S 17 on S. half, from which
	A pinon, 10 ins. diam., bears N. 80°30'E., 55 lks. dist. marked ¼ S 8 BT.
	A pinon, 5 ins. diam., bears S. 67°E., 47 lks. dist., marked ¼ S 17 BT.
47.00	Hollow, 150 ft. deep, course SE.
	Abrupt ascent.
54.50	Top of abrupt ascent, bears N. and S.
	Enter heavy timber, bears E. and W.
	Over level rocky land.
80.04	The cor. of secs. 7-8-17 and 18.
	Land, mountainous and level.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land or land covered with heavy timber, on 80.04 chs.
	Knowing the line bet. secs. 7 and 18 will not close within limits on the W. bdy. of the Tp., I run S. 89°48'W., on a true line, Bet. secs. 7 and 18.
	Descend over broken sandstone ledges, through heavy timber.
7.00	Head of hollow, course S.
	Ascend along south slope over broken sandstone ledges.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, ¼ S 7 on N.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	half,S 18 on S.half,from which
	A pinon,6 ins.diam.,bears N.48°E.,40½ lks.dist. marked ¼ S 7 BT.
	A pinon,5 ins.diam.,bears S.10°E.,17½ lks.dist. marked ¼ S 18 BT.
41.00	Top of perpendicular sandstone ledges,50 ft.high,bearing NE.and SW.
	Leave sandstone ledges, over level rocky land.
[illegible]	[illegible] SE.
69.00	Leave heavy timber,vears NE.and SW.
	Enter scattering timber.
71.94	Intersect W.bdy.of Tp., 4.26 chs. North of the cor.of secs.7-12-13 and 18,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for closing cor.of secs.7 and 18,marked on brass cap,T 12 S on N.half,
	R 14 E S 12 S 13 CC on W.half,and
	R 15 E S 7 S 18 on E.half, from which
	A cedar,11 ins.diam.,bears N.39°E.,92 lks.dist. marked T 12 S R 15 E S 7 BT.
	A cedar,24 ins.diam.,bears S.58°E.,51 lks.dist., marked T 12 S R 15 E S 18 BT.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	I destroy all marks on the cor.of secs.7-12-13 and 18 that pertain to R.15 E.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land or heavily timbered on 71.94

K

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	N.0°03'W.,bet.secs.7 and 8.
	Over level,rocky land,through heavy timber.
38.00	Begin descent,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 7 on W.half,S 8 on E.half,from which
	A pine,20 ins.diam.,bears S.47°W.,28 lks.dist., marked ¼ S 7 BT.
	A pine,6 ins.diam.,bears S.63°E., 91 lks.dist., marked ¼ S 8 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
42.00	Begin abrupt descent over broken sandstone ledges, bearing E.and W.
65.25	Hollow,300 ft.deep,course E.
	Abrupt ascent over broken sandstone ledges.
79.50	Ridge,bears NE.and SW.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.5-6-7 and 8,marked on brass cap,
	T 12 S S 6 in NW.,
	R 15 E S 5 in NE.,
	S 8 in SE.and S 7 in SW.quadrant, from which
	A pinon,6 ins.diam.,bears N.82°E.,9 lks.dist., marked T 12 S R 15 E S 5 BT.
	A pinon,6 ins.diam.,bears S.2°E.,31 lks.dist., marked T 12 S R 15 E S 8 BT.
	A pinon,5 ins.diam.,bears S.36°W.,43 lks.dist., marked T 12 S R 15 E S 7 BT.
	A pinon,6 ins.diam.,bears N.1°30'W.,28 lks.dist' marked T 12 S R 15 E S 6 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 80.00 chs.
	June 4: At this cor.I set off 22°25'N.on decl.arc,and at 11h.58m,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°48'N.
	N.89°50'E.,on a random line,bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
79.84	Intersect the cor.of secs.4-5-8 and 9.
	Thence I run
	S.89°50'W.,on a true line,
	Bet.secs.5 and 8.
	Descend over mountainous land,along steep north ,slope, through heavy timber.
4.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
13.50	Ridge,bears NE.and SW.
	Descend.
22.00	Hollow,100 ft.deep,course N.
	Ascend.
31.00	Spur,projects N.
	Abrupt descent.
39.92	Set an iron post,3 ft.long, 1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,markedon brass cap,¼ S 5 on N. half,S 8 on S.half,from which
	A pine,5 ins.diam.,bears N.76°E.,33 lks.dist., marked ¼ S 5 BT.
	A pine,9 ins.diam.,bears S.25°W.,65 lks.dist., marked ¼ S 8 BT.
42.25	Bottom of Olsen Canyon,700 ft.deep,course NE.
	Abrupt ascent.
48.80	Spur,projects SE.
	Descend along steep,south slope.
56.00	Hollow,100 ft.deep,course SE.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
	Abrupt ascent along steep,south slope.
79.00	Ridge,bears NE.and SW.
	Descend.
79.84	The cor.of secs.5-6-7 and 8.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 79.84 chs .
	Knowing the line bet.secs.6 and 7 will not close within limits on the W.bdy.of the Tp.,I run
	S.89°48'W.,on a true line,
	Bet.secs.6 and 7.
	Descend over rocky and mountainous land,along steep, north slope,through heavy timber.
5.00	Head of hollow,course N.
	Ascend.
11.00	Spur,projects N.
	Abrupt descent.
22.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.
34.00	Ridge,bears N.and S.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 6 on N. half,S 7 on S.half,from which
	A pinon,10 ins.diam.,bears N.15°W.,12 lks.dist., marked ¼ S 6 BT.
	A cedar,12 ins.diam.,bears S.83°W.,45 lks.dist., marked ¼ S 7 BT.
42.00	Hollow,75 ft.deep,course N.
	Abrupt ascent.
46.50	Spur,projects N.
	Abrupt descent.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
61.00	Hollow,300 ft.deep,course N.
	Abrupt ascent.
71.73	Intersect W.bdy.of Tp.,4.87 chs.North of the cor.of secs.1-6-7 and 12,heretofore described.
	Set an iron post,3 ft.long,2 ins.dia., in mound of stone and earth,for closing cor.of secs.6 and 7,marked on brass cap, T 12 S on N.half,
	R 14 E S 1 S 12 CC on W.half,and
	R 15 E S 6 S 7 on E.half,from which
	A pinon,14 ins.diam.,bears S.45°E.,52 lks.dist., marked T 12 S R 15 E S 7 BT.
	A pinon,9 ins.diam.,bears N.29°E.,46 lks.dist., marked T 12 S R 15 E S 6 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	I destroy all marks on the cor.of secs.1-6-7 and 12, that pertain to R.15 E.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar,pinon and yellow pine.
	Mountainous land on 71.73 chs.
	Knowing the line bet.secs.5 and 6 will not close within limits on the N.bdy.of the Tp., I run N.0°03'W.,on a true line, Bet.secs.5 and 6.
	Descend abruptly over rocky and mountainous land, through scattering timber.
35.00	Hollow,800 ft.below sec.cor.,course NW.
	Ascend along steep,west slope,over broken sandstone ledges.
39.50	Rocky spur,projects W.
	Descend along steep,west slope.

SUBDIVISIONS OF T.12 S.,R.15 E.

CHAINS	
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 6 on W. half,S 5 on E.half,from which A cedar,7 ins.diam.,bears N.11°E.,25 lks.dist. marked ¼ S 5 BT. A pinon,11 ins.diam.,bears N.76°W.,48 lks.dist. marked ¼ S 6 BT.
44.00	Leave timber.
51.00	Foot of abrupt descent,bears NE.and SW. Leave sandstone ledges; descend over rocky land,through dense undergrowth.
61.65	Intersect S.bdy.of T.11 S.,R.15 E.,5.63 chs.west of the cor.of secs.5-6-31 and 32,heretofore described. Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.5 and 6,marked on brass cap, T 11 S R 15 E S 31 S 32 CC on N.half, and T 12 S R 15 E S 5 S 6 on S.half, and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor. Pits impracticable. This cor.is set on the south side of Nine Mile Canyon and 1480.0 ft.below the cor.of secs.5-6-7 and 8. I destroy all marks on the cor.of secs.5-6-31 and 32 that pertain to T.12 S. Land,mountainous and rolling. Soil,rocky,3rd.and 4th.rate. Timber,cedar,pinon and yellow pine. Undergrowth,greasewood and sage brush. Mountainous land or land covered with dense undergrowth on 61.65 chs. June 4, 1910

GENERAL DESCRIPTION OF T.12 S.,R.15 E.

This township is mountainous throughout and is cut by many deep hollows all of which drain into Nine Mile Canyon in the northern portion or Dry Canyon in the southern portion,both of which canyons are over 1000 ft.deep,with solid sandstone sides.

The soil is generally solid sandstone with soil on the north slopes and on several small mesas and is covered with a heavy growth of cedar and pinon timber, with a scattering growth of yellow pine and with sage brush and bunch grass,making it an excellent summer range for stock.

A scattering growth of cottonwood and box elder timber is found along the streams.

Water runs down Dry Canyon during the spring and early summer months, while in Minnie Maud Creek which runs in the bottom of Nine Mile Canyon,the water never fails. The water is pure and free from mineral.

The only agricultural land in this township is along the bottom of Nine Mile Canyon, the soil of which is a rich loam,capable of producing crops with irrigation and is generally covered with a dense growth of greasewood and sage brush with willows along the creek.

The only land in this township in cultivation is in NW¼ Sec.5 NE.¼ of sec.4 and in sec.3, this is part of a claim belonging to Preston Nutter,and extends into Sec.33, T.11 S .,R.15 E.,where the buildings are located.

Acres of land under cultivation, 75.00

Value of improvemants , $1500.00

There are no other settlers or claims in this township.

There is asphaltum bearing sandstone in sec.32,as it has not been developed or located the extent or quality of the deposit cannot be stated.

GENERAL DESCRIPTION OF T.12 S.,R.15 E.

I return this sec.as mineral land.
There are no indications of oil,coal or mineral found on this township except as stated.

Walter A. Stumm
U.S.Deputy Surveyor

Note:
There being no notary public, or other officer authorized to administer oaths within a reasonable distance at the beginning or ending of the surveys under this contract; therefore, in order to save time and expense, I administer the preliminary and final oaths to my assistants myself.

Walter A. Stumm
U.S.Deputy Surveyor.

Blank

Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Walter A. Stumm, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisions of Tps. 12 S., Rs. 15 & 16 E., S.L.B.& M., in the state of Utah. showing the respective capacities in which they acted:

Lionel Babcock, *Chainman.*
Jack Barker, *Chainman.*
Floyd Hume, *Moundman.*
Will Carlisle, *Moundman.*
Will Light, *Axman.*
Axman.
George Walkup, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Walter A. Stumm, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Tps. 12 S., Rs. 15 and 16 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Lionel Babcock, *Chainman.*
Jack Barker, *Chainman.*
Floyd Hume, *Moundman.*
Will Carlisle, *Moundman.*
Will Light, *Axman.*
Axman.
George Walkup, *Flagman.*

Subscribed and sworn to before me this 4th day of June, 1901 0

Walter A. Stumm
U.S. Deputy Surveyor

NEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Walter A. Stumm, United States Deputy Surveyor, d solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of th 27th. day of March, 1909, I have well, faithfully, and truly, in my ow proper person, and in strict conformity with the instructions furnished by the United States Surveyo General for Utah, the Manual of Surveying Instructions, and the laws of th United States, surveyed all those parts or portions of the Subdivisions of Tps.12 S.,Rs. 15 and 16 E.

of the Salt Lake Base and meridian, in the state of Utah, which are represented in th foregoing field notes in Books X, & Y, having been surveyed by me, and under my direction; and I do further solemnl swear that all the corners of said survey have been established and perpetuated in strict accordance wit the Manual of Surveying Instructions, and the special written instructions of the United States Surveyo General for Utah and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey.

Walter A. Stumm
United States Deputy Surveyor

Subscribed by said Walter A. Stumm and sworn to before me this 22 day of Dec, 1910

Jerrold R. Letcher
Clerk U.S. Dist Cor
Dist Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov.21, 1911

The foregoing field notes of the survey of the Subdivisional lines of Township No.12 South, Range No.15 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Walter A. Stumm under their contract No. 312, dated March 27, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

United States Surveyor General.

Blank

Page

Blank

Page

455

4—679.

BOOK A-372

FILED
FEB 17 1911

M. S. B.

FIELD NOTES

OF THE SURVEY OF THE

FRACTIONAL W. BDY. AND THE E. BDY. OF T.14 S., R. 8 E.

And

RETRACEMENT N.S. AND E.BDRS. SEC. 6

Of

T.14 S., R.8 E.

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH,

AS SURVEYED BY

Clarence S. Jarvis, *United States Deputy Surveyor,*

Under his Contract No. 317, *dated* January 15, 1910., *190*

Survey commenced October 22, 1910., *190*

Survey completed October 29, 1910., *190*

6—151

Res. W. Bdy. 1-39-77 — closing 0-09-00 [illegible]
40-00
E. Bdy. 6-03-44 — closing 0-03-0[illegible]
Ret. N. Bdy. 2-00-89
Tubs 18-03-56 — closing Tub 37-89
Res. Tubs 2-42-36
Ret. cubs 7-51-43

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Ivan Pace	Chainman
George T. Burridge	Chainman
Harry Bryner	Moundman
Lewis H. McCarty	Axman
Edward McMurray	Flagman

BOOK A-372

INDEX DIAGRAM.

Township 14 S., *Range* 8 E.

2	4 6 5	3 5	4	3	2	1	18
	7	8	9	10	11	12	16
	18	17	16	15	14	13	14
	19	20	21	22	23	24	12
	30	29	28	27	26	25	11
6	31	32	33	34	35	36	9

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, Ivan Pace and George T. Burridge do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the fractional N. bdy. and the E. bdy. of T. 14 S., R. 8 E., Salt Lake Base and Mer.

Ivan Pace, Chainman.

George T. Burridge, Chainman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor.

~~We,~~ I, Harry Bryner and do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the fractional N. bdy. and the E. bdy. of T. 14 S., R. 8 E., Salt Lake Base and Mer.

Harry Bryner, Moundman.

, Moundman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor.

~~We,~~ I, Lewis W. McCarty and do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the fractional N. bdy. and the E. bdy. of T. 14 S., R. 8 E., Salt Lake Base and Mer.

Lewis W. McCarty, Axman.

, Axman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor.

I, Edward McMurray, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the fractional N. bdy. and the E. bdy. of T. 14 S., R. 8 E., Salt Lake Base and Mer.

Edward McMurray, Flagman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor.

W.Bdy. of T. 14 S., R.8 E. of Salt Lake Base and Meridian.

Survey commenced October 22, 1910, and executed with a Bausch, Lomb, and Saegmuller transit No.8375, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to thirty seconds of arc; while one minute is 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, on April 27, 1910.

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 p.m.and a.m. hours with a meridian established by Polaris observation, I proceed as follows:

At the cor.of secs.1.6.7, and 12 on W.bdy.of T. 14 S., R.8 E., latitude 39° 37' 22" N.; longitude 111° 06' 39" W. I set off 39° 37'N.on the lat.arc; 10° 58'S.on the decl.arc; and at 3 h. 45 m.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.

At 5 h. 31 m.p.m.l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point in the line thus determined by a tack in a peg driven in the ground 5 chs.N.of my station.

Oct.22, 1910.

Oct.23: At 7 h. 00 m.a.m.l.m.t., I lay off the azimuth of Polaris 1° 31' 30" to the west, and mark a point in the meridian thus determined by cutting a small groove in the stone set Oct.22, on which the meridian

falls 0.3 ins.east of the mark determined by the solar.

At 7 h. 45 m.a.m.l.m.t., I set off 39° 37'N.on the lat. arc; 11° 12'S.on the decl.arc; and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.4 ins.east 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' 16" west and 0' 21" east 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 h. 00 m. a.m.is N. 16° 48'W.; the angle thus determined gives the mag.decl.16 48'E.

I commence at the cor.of secs.1.6.7, and 12 on the W. bdy.of the Tp., which is a sandstone 9 x 14 x 7 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Thence I run

North on a random line between secs.1 and 6,

40.00 Set temp.¼ sec.cor.

81.20 Intersect N.bdy.of Tp. 10 lks.E.of the cor.of Tps.13 and 14 S., Rs.7 and 8 E., which is a sandstone 10 x 15 x 9 ins.above ground, marked and witnessed as described by the surveyor general, except that there is now no stationary sandstone boulder and natural mound of stone as described for a bearing object. The corner is badly dilapidated, therefore I set an iron

W.Bdy.of T. 14 S., R. 8 E.

Chains.

post 3 ft.long, 3 ins.diam., 24 ins.in the ground and mound of stone for cor.of Tps.13 and 14 S., Rs.7 and 8 E., marked on brass cap,

T 13 S in N.half,

T 14 S in S.half,

R 7 E S 36 in NW.

R 8 E S 31 in NE,

S 6 in SE., and

S 1 in SW.quadrant; and raise a mound of stone 3 ft.base, 2 ft.high S.of cor. Pits impracticable.

Thence I run

S.0° 04'E.between secs.1 and 6,

Over mountainous land; descend abruptly.

0.22 Descend a sandstone ledge, 20 ft.high, bearing NE. and W.

6.20 Bottom of hollow, 250 ft.below corner, course S.30° E.

Ascend.

14.20 Spur, 40 ft.above hollow, bears N.60° W. and S.60° E.

Enter scattering undergrowth, bears with spur. Descend gradually.

41.20 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for ¼ sec.cor., marked on brass cap ¼ S 1 in W.half, S 6 in E.half; from which

A cedar 4 ins.dia.bears N.13° E. 72 lks.dist., mkd. ¼ S 6 B T

No other bearing trees within limits, raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.Pits impracticable.

44.80 Begin steep descent, bears E. and W.

48.45 Foot of descent, 350 ft.below spur, bears E. and W.

Enter bottom of canon.

Enter scattering timber, bears E. and W.

W.Bdy.of T.14 S., R. 8 E.

Chains.	
48.57	Telephone line running from Price to Clear Creek, bears N.84° W. and S.84° E.
48.86	Wagon road, bears E. and W.
54.45	Middle Fork of Gordon Creek, 5 lks.wide. 4 ins.deep, course E.
55.95	Leave canon bottom and begin ascent, bears E. and W.
	Leave timber and enter dense undergrowth, bearing E. and W.
61.20	Spur, 100 ft.above canon, bears NE. and SW.
	Descend.
66.00	Hollow, 60 ft.below spur, course NE.
	Ascend.
71.00	Leave dense and enter scattering undergrowth, bearing NE. and SW.
77.00	Leave undergrowth, bears E. and W.
81.20	The cor.of secs.1,6,7, and 12.
	Land, mountainous and level.
	Soil, alluvial, gravelly, and stony; 2d, 3d, and 4th rates.
	Timber, scattering cottonwood and scrub cedars.
	Undergrowth, serviceberry, mountain mahogany, and sage.
	Good grass for grazing.
	Mountainous land 73.80 chs.

In order to account for the closing around sec.6, T. 14 S., R. 8 E., I proceed to retrace the boundaries of said section.

From the cor.of Tps.13 and 14 S., Rs.7 and 8 E., I run East, retracing between secs. .6,and 31

40.67 Fall 7 lks.S.of the ¼ sec.cor., which is a sandstone 9 x 14 x 5 ins.above ground,firmly set, and marked and witnessed as described by the surveyor general.

Retracement of N. bdy. of T. 14 S., R. 8 E.

Chains	
81.02	I fall 5 lks. N. of the cor. of secs. 5,6,31, and 32, which is a sandstone, 12x12x7 ins. above ground, mkd. and witnessed as described by the surveyor general.
	Therefore, the true bearings and distances along this line are N.89°54'E., 40.67 chs.; thence S.89°50'E., 40.35 chs.
	Oct. 23, 1910: At this cor. I set off 11°17'N. on the decl. arc; and at 11 h. 45 m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 39°38'N., which is the proper lat. nearly.
	Thence I run South, retracing between secs. 5 and 6.
40.58	I fall 9 lks. E. of the ¼ sec. cor., which is a sandstone, 6x18x12 ins. above ground, mkd. and witnessed as described by the surveyor general.
81.18	I fall 12 lks. E. of the cor. secs. 5,6,7, and 8, which is a sandstone, 10x15x8 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	Therefore, the true bearings and distances along this line are S.0°8'W., 40.58 chs.; thence S.0°3'W., 40.60 chs.
	Thence I run West, retracing between secs. 6 and 7.
40.34	I fall 3 lks. N. of the ¼ sec. cor., which is a slatey sandstone, 18x10x4 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
80.90	I fall 5 lks. S. of the cor. of secs. 1,6,7, and 12, heretofore described.

W. bdy. of T.14 S., R. 8.E.

Chains.	
	Therefore the true bearings and distances along this line are S.89°57'W., 40.34 chs., and N. 89°53'W., 40.56 chs.
	Oct. 23, 1910.
	Oct. 24, 1910: At 7 h 44 m a.m., l.m.t., I set off 39°34' N. on the lat. arc; 11°33' S. on the decl. arc; and determine a meridian at the old established cor. of secs. 25, 30, 31, and 36, which is a sandstone, 8x8x3 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	I observe that the notes on the topography as recorded in the office of the surveyor general are incomplete for the line south from this corner; therefore I run South, retracing between secs. 31 and 36.
	Over mountainous land, thru scattering undergrowth, desc.
2.00	Enter heavy timber, bears E. and W.
4.25	Leave timber, bears E. and W.
9.50	Begin steep descent into canon, bears N.60°E. and S.60°W.
14.50	Foot of descent, 250 ft. below sec. cor., bears N.60°E. and S.60°W.
	Enter canon bottom.
	Enter heavy timber, bears N.60°E. and S.60°W.
16.50	South Fork of Gordon Creek, 4 lks. wide, 2 ins. deep, good water, course N.60°E.
	Another branch of this creek, about half as large, joins from the south at about 4 chains N.60°E.
20.00	Leave canon bottom and begin ascent, bears N.60°E. and S.60°W.
21.50	Leave timber, bears N.E. and S.W.
31.00	Top of steep ascent, 300 ft. above canon bottom, bears N.E. and S.W.
	Ascend gradually.

W. bdy. of T. 14 S., R. 8 E.

Chains.	
38.30	Enter heavy timber, bears E. and W.
40.00	After diligent search I find no trace of old ¼ sec. cor.
	I observe that the continuation of the line southward
	will strike several chains to the west of the old cor.
	of Tps. 14 and 15 S., Rs. 7 and 8 E.; therefore I es-
	tablish this as the true line, and
	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the
	ground, for ¼ sec. cor., mkd. on brass cap ¼ S 36 on
	W. half, and S 31 on E. half; from which
	A red pine, 5 ins. diam., bears S.36°E., 24 lks.
	dist., mkd. ¼ S 31 BT.
	An aspen, 4 ins. diam., bears S. 57°30'W., 16 lks.
	dist., mkd. ¼ S 36 BT.
	For the reason above stated, I continue
	South on a true line between secs. 31 and 36.
41.00	Leave timber, bears E. and W.
43.00	Spur, 425 ft. above canon bottom, bears N.60°E. and S.60°
	W.; desc.
52.30	Ravine, 75 ft. below spur, course N.E.; asc.
	Enter heavy timber, bears N.E. and S.W.
54.50	Leave timber, bears E. and W.
59.50	Spur, 150 ft. above ravine, bears N.E. and S.W.
	Continue ascent along side of mountain, slopes N.60°E.
	Leave scattering undergrowth and enter dense undergrowth
	and scattering pine timber, bears N.E. and S.W.
78.57	Intersect E. and W. line at 9.00 chs. W. of the Tp. cor.,
	which is a stationary sandstone boulder, 6x24x18 ins. a-
	bove ground, plainly marked as described by the survey-
	or general, but with no bearing trees to be found.
	The corner appears to have been in the path of a snow-
	slide, which may have broken the bearing trees.
	I destroy the marks on this cor. pertaining to T. 14 S.,
	and mark bearing trees as follows:

W. bdy. of T. 14 S., R. 8 E.

Chains.

An aspen, 4 ins. diam. bears S.46°30'E., 23 lks. dist., mkd. T 15 S R 8 E S 6 BT.

An aspen, 6 ins. diam., bears S.28°40'W., 39 lks. dist. mkd. T 15 S R 7 E S 1 BT.

At 9.00 chs. W. of the cor. of T.15 S., Rs. 7 and 8 E., Set an iron post, 3 ft. long 3 ins. diam., 24 ins. in the ground, for C.C. of T. 14 S., Rs. 7 and 8 E., mkd. on brass cap

C C T 14 S in N. half,
T 15 S in S. half,
R 7 E S 36 in N.W.,
R 8 E. S 31 in N.E.,
R 8 E S 6 in S.E., and
R 7 E S 1 in S.W. quadrant; from which

A red pine, 7 ins. diam., bears N. 38°55'E., 63 lks. dist., mkd. T 14 S R 8 E S 31 BT.

A red pine, 7 ins. diam., bears N.10°15'W., 199 lks. dist., mkd. T 14 S R 7 E S 36 BT.

From this cor. I observe N.0°10'E. to the flag at the C.C. at the N.W. cor. of this Tp.

Land, mountainous and level.

Soil, gravelly and stony; 3rd and 4th rate.

Timber, aspen and red pine.

Undergrowth, service berry and sage.

Good grass for grazing.

Mountainous or heavily timbered land, 78.57 chs.

Oct. 24, 1910: At this cor. I set off 11°39'S. on the decl. arc; and at 11 h 44 m, l.m.t., I observe the sun on the meridian; the resulting lat. is 39°33' N., which is the proper lat. nearly.

Oct. 24, 1910.

E. bdy. of T. 14 S., R. 8 E.

Chains.

Oct. 27, 1910: At 7 h. 44 m. a.m., l.m.t., I set off 39°33'N. on the lat. arc; 12°35'S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 14 and 15 S., Rs. 8 and 9 E., which is a sandstone, 10x8x6 ins. above ground, firmly set; and mkd. and witnessed as described by the surveyor general, with bearing trees additional as follows:

A pinion pine, 8 ins. diam., bears N.8°30'E., 34 lks. dist., mkd. T 14 S R 9 E S 31 BT.

A pinion pine, 6 ins. diam., bears S.72°E., 24 lks. dist., mkd. T 15 S R 9 E S 6 BT.

Because of the favorable conditions for sighting along the line northward, and because of the precipitous ledges along the line northward, I set a flag on the top of ridge about 120 chs. N.; thence I proceed to said flag, and observe northward to a large flag which I had previously set at the cor. of Tps. 13 and 14 S., Rs. 8 and 9 E. By setting the transit on line between the two Tp. cors., I determine the bearing of the line connecting the said cors. as N.0°22'W., which is out of the prescribed limits. Therefore I return to the cor. of Tps. 14 and 15 S., Rs. 8 and 9 E., and run North on a true line between secs. 31 and 36.

Over mountainous land, thru scattering timber, desc.

15.00 Foot of steep descent, 350 ft. below Tp. cor., bears E. and W.

35.00 Hollow, 400 ft. below Tp. cor., course N.65°E. This is the main tributary of Pinnacle Canon. Asc. gradually.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 36 on W. half, and S 31 on E. half; from which

A pinion pine, 6 ins. diam., bears S.40°10'E.,

E. bdy. of T. 14 S., R. 8 E.

Chains.	
	206 lks. dist., mkd. ¼ S 31 BT.
	A cedar, 12 ins. diam., bears S.18°45'W., 352 lks. dist., mkd. ¼ S 36 BT.
47.00	Top of low spur, 40 ft above hollow, bears E. and W.
	Desc. Leave scattering timber.
52.00	Hollow, 25 ft. below spur, course E.; asc. gradually.
53.40	Old road, bears E. and W.
55.00	Enter scattering timber, bears E. and W.
57.00	Begin steeper ascent, bears N.W. and S.E.
73.25	Spur, 100 ft. above hollow, bears N.60°W. and S.60°E.
	Desc.
75.50	Hollow, 50 ft. below spur, course S.60°E.; asc.
78.75	Spur, 100 ft. above hollow, bears N.60°W. and S.60°E.
	Desc.
80.00	Ravine, 30 ft. deep, course S.60°E., and heading about 2 chs. N.60°W.
	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap
	T 14 S in N. half,
	R 8 E S 25 in N.W.,
	R 9 E S 30 in N.E.,
	S 31 in S.E., and
	S 36 in S.W. quadrant; from which
	A pinion pine, 8 ins. diam., bears N.47°30'E., 143 lks. dist., mkd. T 14 S R 9 E S 30 BT.
	A pinion pine, 8 ins. diam., bears S.68°30'E., 147 lks. dist., mkd. T 14 S R 9 E S 31 BT.
	A pinion pine, 12 ins. diam., bears S.73°W., 46 lks. dist., mkd. T 14 S R 8 E S 36 BT.
	A pinion pine, 8 ins. diam., bears N.56°W., 129 lks dist., mkd. T 14 S R 8 E S 25 BT.
	Land, mountainous.

E. bdy. of T. 14 S., R. 8 E.

Chains.	
	Soil, clay loam, gravelly, and stony; 2nd, 3rd, and 4th rate.
	Timber, pinion pine and cedar.
	A little grass for grazing.
	Mountainous land, 80.00 chs.
	Oct. 27, 1910: At this cor. I set off 12° 40'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 39°34'N., or within 1' of the proper lat.
	North on a true line between secs. 25 and 30.
	Over mountainous land, thru scattering timber, asc.
4.00	Spur, 50 ft. above sec. cor., bears N.60°W. and S.60°E.
	Continue ascent over broken ground sloping S.60°E.
30.50	Foot of shale ledge, 60 ft. high, bears N.E. and S.W.
37.80	Top of ascent, bears N.60°E. and S.60°W., 400 ft. above sec. cor.
	Leave scattering and enter heavy timber, bears with ridge.
	Thence over flat topped ridge.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground and a mound of stone, for ¼ sec. cor., mkd. on brass cap ¼ S 25 in W. half, and S 30 in E. half; from which
	A cedar, 12 ins. diam., bears N.12°40'E., 82 lks. dist., mkd. ¼ S 30 BT.
	A pinion pine, 14 ins. diam. bears N.9°30'W., 134 lks. dist., mkd. ¼ S 25 BT.
45.25	Leave heavy and enter scattering timber, bears E. and W.
	Leave ridge top and begin steep descent, bears E. and W.
68.30	Hollow, 600 ft. below ridge, course N.80°E.; asc.
76.30	Spur, 150 ft. above hollow, bears N.W. and S.E.; desc.
80.00	Set an iron post, 3 ft long, 3 ins. diam., 24 ins. in the

E. bdy. of T. 14 S., R. 8 E.

Chains.	
	ground, for the cor. of secs. 19, 24, 25, and 30,
	mkd. on brass cap
	T 14 S., in N. half,
	R 8 E S 24 in N.W.,
	R.9 E S 19 in N.E.,
	S.30 in S.E., and
	S.25 in S.W. quadrant; from which
	A pinion pine, 14 ins. diam., bears N.47°20'E.,
	142 lks. dist., mkd. T 14 S R 9 E S 19 BT.
	A pinion pine, 15 ins. diam., bears S.89°40'E.,
	96 lks. dist., mkd. T 14 S R 9 E S 30 BT.
	A pinion pine, 10 ins. diam., bears S.27°30'W.,
	34 lks. dist., mkd. T 14 S R 8 E S 25 BT.
	A pinion pine, 5 ins. diam., bears N.42°40'W.,
	51 lks. dist., mkd. T 14 S R 8 E S 24 BT.
	Land, mountainous and level.
	Soil, clay and stony; 3rd and 4th rate.
	Timber, pinion pine and cedar.
	A little grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	Oct. 27, 1910.
	Oct. 28, 1910: At 7 h 44 m a.m., l.m.t., I set off
	39°35' N. on the lat. arc; 12° 55' S. on the decl. arc;
	and determine a meridian with the solar at the cor. of
	secs. 19, 24, 25, and 30.
	Thence I run
	North on a true line between secs. 19 and 24.
	Over mountainous land, thru scattering timber; desc.
0.60	Ravine, 25 ft. below sec. cor., course S.65°E.;
	Asc.
5.80	Spur, 80 ft. above ravine, bears N.W. and S.E.
	Desc.

E. bdy. of T.14 S., R. 8 E.

Chains.	
7.30	Ravine, 80 ft. deep, course S.E.
	Asc. over broken ground sloping S.E.
16.66	Top of ascent, bears N.70°E and S.70°W., 500 ft. above ravine.
	Leave scattering and enter heavy timber, bears N.70°E. and S.70°W.
	Thence over flat topped ridge.
22.70	Leave ridge top and begin steep descent, bears E. and W.
	Leave heavy and enter scattering timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 24 in W. half, and S 19 in E. half; from which
	A pinion pine, 10 ins. diam., bears N.35°E., 22 lks. dist., mkd. ¼ S 19 BT.
	A pinion pine, 14 ins. diam., bears N.77°W., 32 lks. dist., mkd. ¼ S 24 BT.
43.70	Hollow, 650 ft. below ridge, course N.70°E.; asc.
68.90	Spur, 100 ft. above hollow, bears N.60°E. and S.60°W.
	Descend gradually.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 13,18, 19, and 24, mkd. on brass cap
	T 14 S in N. half,
	R 8 E S 13 in N.W.,
	R 9 E S 18 in N.E.,
	S 19 in S.E., and
	S 24 in S.W. quadrant; from which
	A pinion pine, 10 ins. diam., bears N.14°E., 14 lks. dist., mkd. T 14 S R 9 E S 18 BT.
	A pinion pine, 8 ins. diam., bears S.15°E., 19 lks. dist., mkd. T 14 S R 9 E S 19 BT.
	A pinion pine, 6 ins. diam., bears S.3°45' W., 65 lks. dist., mkd. T 14 S R 8 E S 24 BT.

E. bdy. of T. 14 S., R. 8 E.

Chains.	
	A pinion pine, 8 ins. diam. bears N. 27°30' W., 50 lks. dist., mkd. T 14 S R 8 E S 13 BT.
	Land, mountainous and level.
	Soil, sandy, gravelly, and stony; 3rd and 4th rate.
	Timber, pinion pine and cedar.
	A little grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	Oct. 28, 1910: At this cor. I set off 13°00' 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 39°36' N., or within 1' of the proper lat.
	North on a true line between secs. 13 and 18.
	Over mountainous land, thru scattering timber, desc.
2.50	Begin steeper descent, bears E. and S.W.
24.00	Spring branch, 3 lks. wide, 2 ins. deep, alkaline water, in rocky gulch, 200 ft. below sec. cor., course N.E.
	Asc.
26.40	Spur, 15 ft. above gulch, bears E. and W.
	Desc.
27.40	Same gulch, 20 ft. below spur, course N.60°W. Asc.
	Spring branch, 3 lks. wide, 2 ins. deep, in bottom.
28.90	Spur, 25 ft. above gulch, bears E. and W.
	Desc.
29.80	Same gulch, 30 ft. below spur, course N.80°E. Asc.
	Spring branch, 3 lks. wide, 2 ins. deep, in bottom.
38.00	Spur, 60 ft. above gulch, bears N.70°W. and S.70°E.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 13 in W. half, and S 18 in E. half; from which
	A pinion pine, 8 ins. diam., bears S. 25°E.,

E. bdy. of T. 14 S., R. 8 E.

Chains.	
	47 lks. dist., mkd. ¼ S 18 BT.
	A pinion pine, 7 ins. diam., bears S.36° W.,
	51 lks. dist., mkd. ¼ S 13 BT.
40.50	Hollow, 40 ft. below spur, course S.70°E.
	Asc.
51.40	Spur, 120 ft. above hollow, bears N.65°W. and S.65°E.
	Desc. gradually.
55.00	Leave timber, bears N.60°W. and S.60°E.
60.00	Smooth hollow, 20 ft. below spur, course S.60°E.
	Ascend gradually.
63.50	Enter scattering timber, bears N.W. and S.E.
68.00	Sandstone ledge, 10 ft. high, bears N.W. and S.E.
	Thence ascend more rapidly.
76.00	Top of ridge, 300 ft. above hollow, bears E. and W.
	Leave scattering and enter heavy timber, bears E. and W.
	Descend gradually.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, mkd. on brass cap
	T 14 S in N. half,
	R 8 E S 12 in N.W.,
	R 9 E S 7 in N.E.,
	S 18 in S.E., and
	S 13 in S.W. quadrant; from which
	A pinion pine, 10 ins. diam., bears N.27°E., 35 lks. dist., mkd. T 14 S R 9 E S 7 BT.
	A cedar, 8 ins. diam., bears S.18°30'E., 36 lks. dist., mkd. T 14 S R 9 E S 18 BT.
	A pinion pine, 8 ins. diam., bears S.70°W., 30 lks. dist., mkd. T 14 S R 8 E S 13 BT.
	A pinion pine, 6 ins. diam., bears N.22°W., 28 lks. dist., mkd. T 14 S R 8 E S 12 BT.

E. bdy. of T. 14 S., R. 8 E.

Chains.

Land, mountainous.

Soil, sandy and stony; 2nd and 4th rate.

Timber, cedar and pinion pine.

Good grass for grazing.

Mountainous land, 80.00 chs.

Oct. 28, 1910.

Oct. 29, 1910: At 7 h 44 m a.m., l.m.t., I set off 13°15' S. on the decl. arc; 39°36' N. on the lat. arc; and determine a meridian with the solar at the cor. of secs. 7,12,13, and 18.

Thence I run

North on a true line between secs. 7 and 12.

Over mountainous land, thru heavy timber, desc. gradually.

1.60 Leave heavy and enter scattering timber, bears E. and W.

Begin steeper descent, over broken ground, bears E. and W.

26.35 Foot of descent, 500 ft. below sec. cor., bears E. and W.

Enter bottom of Gordon Creek Canon, bears E. and W.

Leave timber and enter dense undergrowth, bears E. and W.

29.85 Gordon Creek, 10 lks. wide, 6 ins. deep, good water, rapid current, course E.

I observe west about 5 chs. to the foot of falls over sandstone ledges. The stream drops about 65 ft. while running 5 chs.

32.28 Telephone line, from Price to Clear Creek, bears S.81°E. and N.81°W. about 3 chs.; thence about S.70°W.

33.85 Leave canon bottom and begin ascent, bears E. and W.

Leave undergrowth and enter scattering timber, bears E. and W.

35.35 Wagon road from Spring Glen to Grames' Ranch, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 12

E. bdy. of T. 14 S., R. 8 E.

Chains.	
	in W. half, and S 7 in E. half; from which
	A pinion pine, 14 ins. diam., bears S.43°E., 12 lks. dist., mkd. ¼ S 7 BT.
	A pinion pine, 6 ins. diam., bears N.89°W., 39 lks. dist., mkd. ¼ S 12 BT.
43.20	Foot of sandstone and shale ledge, 30 ft. high, bears E. and W.
53.59	Foot of shale and sandstone ledge, 40 ft. high, bears E. 0.50 chs. and W.
54.00	Top of spur, 650 ft. above canon, bears E. and W.; desc.
54.50	Descend shale and sandstone ledge, bears N.W. and S.E.
71.36	Foot of descent, 500 ft. below spur, bears N.30°W. and S.30°E.
	Leave timber and enter canon bottom, bears N.30°W. and S.30°E.
74.56	North Fork of Gordon Creek, 5 lks. wide, 3 ins. deep, good water, rapid current, course S. 25° E.
76.00	Enter dense undergrowth, bears N.W. and S.E.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for the cor. of secs. 1,6,7, and 12, mkd. on brass cap
	T 14 S in N. half,
	R 8 E S 1 in N.W.,
	R 9 E S 6 in N.E.,
	S 7 in S.E., and
	S 12 in S.W. quadrant; from which
	A pinion pine, 10 ins. diam., bears N.55°40'E., 421 lks. dist., mkd. T 14 S R 9 E S 6 BT.
	No other trees within limits.
	Dig pits, 24x24x18 ins., S.E., S.W., and N.W. of post, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

E. bdy. of T. 14 S., R. 8 E.

Chains.

Land, mountainous and level.

Soil, clay alluvial and stony; 1st and 4th rate.

Timber, cedar and pinion pine.

Undergrowth, sage and greasewood.

A little grass for grazing.

Mountainous land, or land covered with dense undergrowth, 75.36 chs.

Oct. 29, 1910: At this cor. I set off 13°20'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 39°37' N., or within 1' of the proper lat.

North on a true line between secs. 1 and 6.

Over nearly level canon bottom, thru dense undergrowth.

13.20 An E. bend in North Fork of Gordon Creek, 15 lks. wide, 2 ins. deep, course S.5°W., from the N.W.

24.00 Leave canon bottom and begin ascent, bears N.W. and S.E.

Leave undergrowth and enter scattering timber, bears N.W. and S.E.

32.25 Foot of sandstone and shale ledge, 40 ft. high, bears N.60°W. and S.60°E.

38.20 Top of ascent, edge of mesa, 600 ft. above canon bottom, bears E. and W.

Leave scattering and enter heavy timber, bears E. and W.

Thence over somewhat broken country, draining W.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 1 in W half, and S 6 in E. half; from which

A cedar, 6 ins. diam., bears N. 36°E., 20 lks. dist., mkd. ¼ S 6 BT.

A pinion pine, 13 ins. diam., bears S.85°W., 22 lks. dist., mkd. ¼ S 1 BT.

E. bdy. of T. 14 S., R. 8 E.

Chains.

80.20 Leave heavy and enter scattering timber and dense undergrowth, bears E. and W.

83.30 Leave timber, bears E. and W.

83.44 Intersect N. bdy. of Tp. at 3.08 chs N.89°47'E. of the old cor. of Tps. 13 and 14 S., Rs. 8 and 9 E., which is a sandstone, 26x14x4 ins. above ground in a mound of stone, mkd. and witnessed as described by the surveyor general.

I destroy the marks pertaining to T. 14 S., and at 3.08 chs. N.89°47'E. of said cor.,

Set an iron post, 3 ft. long, 3 ins. diam., for the C.C. of T. 14 S., Rs. 8 and 9 E., 24 ins. in the ground, mkd. on brass cap

T 13 S in N. half,

CC T 14 S in S. half,

R 8 E S 36 in N.W.,

R 9 E S 31 in N.E.,

S 6 R 9 E in S.E., and

S 1 R 8 E in S.W. quadrant; from which

A cedar, 6 ins. diam. bears S.11°E., 30 lks. dist., mkd. T 14 S R 9 E S 6 BT.

A cedar, 8 ins. diam., bears S.62°35'W., 90 lks. dist., mkd. T 14 S R 8 E S 1 BT.

The flag at S.W. cor. of T.13 S., R.8 E., bears S.89°58'W.

Land, mountainous and level.

Soil, clay alluvial, sandy loam, and stony; 1st and 3rd rate.

Timber, cedar and pinion pine.

Undergrowth, sage and greasewood.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 83.44 chs.

Due to the illness of George T. Burridge, I dispense with his services and employ J. William Betz in his place.

Oct. 29, 1910.

Bdrs. of part of T. 14 S., R. 8 E., included in Contract No.317.

Latitudes, departures, and closing errors.

Line designated	Course	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
E.bdy.T.14S.,R.8 E.	North	483.44	483.44			
N.bdy.T.14 S.,R.9 E.	S.89°47'W.	3.08		0.01		3.08
N.bdy.T.14S.,R.8 E.	S.89°36'W.	40.18		0.28		40.18
N.bdy.T.14 S.,R.8 E.	S.89°54'W.	39.68		0.07		39.68
N.bdy.T.14 S.,R.8 E.	West	80.00				80.00
E.bdy.Sec.3	South	80.00		80.00		
E.bdy.Sec.10	S.0°31'E.	40.46		40.46	0.36	
E.bdy.Sec.10	S.3°07'E.	40.49		40.43	2.20	
E.bdy.Sec.15	South	80.00		80.00		
E.bdy.Sec.22	S.0°5'E.	82.36		82.36	0.12	
E.bdy.Sec.27	S.0°26'W.	39.54		39.54		0.30
E.bdy.Sec.27	S.3°00'W.	41.43		41.37		2.17
S.bdy.Sec.27	S.89°56'W.	41.06		0.05		41.06
S.bdy.Sec.27	N.89°39'W.	40.50	0.25			40.50
S.bdy.Sec.28	S.89°22'W.	44.12		0.49		44.12
S.bdy.Sec.28	N.89°49'W.	40.43	0.13			40.43
S.bdy.Sec.29	N.89°46'W.	40.41	0.16			40.41
S.bdy.Sec.29	N.89°42'W.	40.60	0.21			40.60
S.bdy.Sec.30	West	79.40				79.40
W.bdy.T.14 S.,R.8 E.	South	78.57		78.57		
S.bdy.T.14 S.,R.8 E.	East	488.91			488.91	
Convergency						0.27
Totals			484.19	483.63	491.59	492.20
			483.63			491.59
Error in lat.			0.56	Error in dep.		0.61

GENERAL DESCRIPTION.

For general description see notes of subdivision of T.14 S.,R.8 E.,Salt Lake Base and Meridian.

Clarence E. Jarvis,

Oct. 29, 1910. U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Clarence S. Jarvis, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the fractional W. bdy. and the E. bdy. and retracement of N.S. and E. bdrs. Sec. 6 of T. 14 S., R. 8 E., Salt Lake Mer. showing the respective capacities in which they acted:

Ivan Pace, *Chainman.*
George T. Burridge, *Chainman.*
Harry Bryner, *Moundman.*
, *Moundman.*
Lewis W. McCarty, *Axman.*
, *Axman.*
Edward McMurray, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Clarence S. Jarvis, United States Deputy Surveyor, in surveying all those parts or portions of the fractional W. bdy. and the E. bdy. and retracement N.S. and E. bdrs. Sec. 6 of T. 14 S., R. 8 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Ivan Pace, *Chainman.*
George T. Burridge, *Chainman.*
Harry Bryner, *Moundman.*
, *Moundman.*
Lewis W. McCarty, *Axman.*
, *Axman.*
Edward McMurray, *Flagman.*

Subscribed and sworn to before me this 29 day of October, 1910.

Clarence S. Jarvis,
U.S. Deputy Surveyor.

SEAL

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Clarence S. Jarvis, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the fifteenth day of January, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the fractional W. bdy. and the E. bdy. and retracement of N.S. and E. bdrs. Sec. 6 of T. 14 S., R. 8 E. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Clarence S. Jarvis.
United States Deputy Surveyor.

Subscribed by said Clarence S. Jarvis, and sworn to before me this 13 day of March, 1911.

Jerrold R. Sutcliffe Cl
U.S. Dist Court Dist Ut

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 13, 1912

The foregoing field notes of the survey of fractional West Boundary and the East Boundary and retracement of N.S. and E. bdrs. sec. 6 of Township No. 14 South, Range No. 8 East of the Salt Lake Base and Meridian, Utah

executed by Clarence S. Jarvis under his contract No. 317, dated January 15, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

Thomas Hull
United States Surveyor General.

6—131

Blank

Page

Blank

Page

4—679.

BOOK A-372

B.

FILED FEB 17 1911

FIELD NOTES

OF THE SURVEY OF THE

FRACTIONAL

SUBDIVISION, RETRACEMENTS, AND RESURVEYS OF

T. 14 S., R. 8 E.

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH.

AS SURVEYED BY

Clarence S. Jarvis, *United States Deputy Surveyor,*

Under his Contract No. 317, *dated* JANUARY 15, 1910., *190*

Survey commenced October 24, 1910., *190*

Survey completed November 3, 1910., *190*

6—151

BOOK A-372

NAMES AND DUTIES OF ASSISTANTS.

Ivan Pace, Chainman

George T. Burridge, Chainman

Harry Brymer, Moundman

Lewis W. McCarty, Axman

Edward McMurray, Flagman

J. William Betz Chainman

6—151

BOOK A-372

INDEX DIAGRAM.

Township 14 S., *Range* 8 E.

6	5	4	3	2 39 37	43 1 36
7	8	9	10 41	11 34 33	12 32
18	17	16	15	14 30 27	13 26
19	20	21	22 29	23 24 21	24 20
30	29 11	28 7	27 23 5	26 18 17	25 16
31 11	32 9	33	34 5 2	35 14	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ivan Pace and George T. Burridge do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the fractional subdivisions, and retracements and resurveys of T. 14 S., Rs. 8 and 9 E.; and T. 15 S., R. 9 E., of Salt Lake Base and Meridian.

Ivan Pace, Chainman.

George T. Burridge Chainman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor

~~WE,~~ I, Harry Bayner ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the fractional subdivisions, and retracements and resurveys of T. 14 S., Rs. 8 and 9 E.; and T. 15 S., R. 9 E., of Salt Lake Base and Meridian.

Harry Bayner, Moundman.

, Moundman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor

~~WE,~~ I, Lewis W. McCarty ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the fractional subdivisions, and retracements and resurveys of T. 14 S., Rs. 8 and 9 E.; and T. 15 S., R. 9 E., of Salt Lake Base and Meridian.

Lewis W. McCarty, Axman.

, Axman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor

I, Edward McMurray, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the fractional subdivisions, and retracements and resurveys of T. 14 S., Rs. 8 and 9 E.; and T. 15 S., R. 9 E., of Salt Lake Base and Mer

Edward McMurray Flagman.

Subscribed and sworn to before me this 22nd day of October, 1900.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor

BOOK A-372

INDEX DIAGRAM.

Township ....., *Range* .....

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

Meanders Page ....

BOOK A-372

PRELIMINARY OATHS OF ASSISTANTS.

~~We~~ I, J. William Betz ~~and~~

do solemnly swear that ~~we~~ I will well and faithfully execute the duties of chainman; that ~~we~~ I will level t chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th ~~we~~ I will report the true distances to all notable objects, and the true lengths of all lines that ~~we~~ I assist measuring, to the best of ~~our~~ my skill and ability, and in accordance with instructions given ~~us~~ me, in the survey the fractional subdivisions, and the retracements and resurve of T. 14 S., Rs. 8 and 9 E., and T. 15 S., R. 9 E., of Salt Lake Base and Meridian.

J. William Betz, *Chainma*

Subscribed and sworn to before me this 30th day of October, 1910.

SEAL

Clarence S. Jarvis, U. S. Deputy Surveyor

We, ... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishme of corners, according to the instructions given us, to the best of our skill and ability, in the survey

..., *Moundma*

..., *Moundma*

Subscribed and sworn to before me this ..... day of ....., 190

SEAL

We, ... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corne and other duties, according to instructions given us, to the best of our skill and ability, in the survey

..., *Axman*

..., *Axman*

Subscribed and sworn to before me this ..... day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and trul perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th survey of .....

..., *Flagman*

Subscribed and sworn to before me this ..... day of ....., 190

SEAL

Subdivision of T.14 S., R.8 E., S.L.B. and M.

Survey commenced October 24, 1910, and executed with a Bausch, Lomb, and Saegmuller transit No. 8375, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to thirty seconds of arc; while one minute is the least count of the verniers 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 27, 1910.

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 observation on Polaris, I proceed as follows:

At the old established corner of secs. 26,27,34,and 35, T.14 S., R.8 E., Salt Lake Base and Meridian; latitude 39°33'53"N.;longitude 111°02'10"W.; I set off 39°34'N. on the lat. arc; 11°40'S., on the decl. arc; and, at 4 h 00 m 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.

At 5 h 23.1p.m.l.m.t., I observe Polaris at eastern elongation, in accordance with the 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.

Oct. 24, 1910.

October 25: At 7 h 30 m a.m.,l.m.t., I lay off the azimuth of Polaris, 1°31' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set Oct. 24, on which the meridian falls 0.4 ins. west of

Chains. the mark determined with the solar.

At 7 h 50 m a.m., l.m.t., I set off 39°34'N. on the lat. arc; 11°54'S. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross 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 0'21" east and 0'21" 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 h 00 m a.m., is N.16° 42'W.; the angle thus determined gives the mag. decl. 16°42'E.

The corner of secs. 26,27,34, and 35, is a sandstone, 12x12x2 ins. above ground, marked and witnessed as described by the surveyor general, but badly crumbled. I destroy all trace of old cor. and at exact cor. point

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. secs. 26, 27, 34, and 35, mkd. on brass cap

T.14 S S 27 in N.W.,

R 8 E S 26 in NE.,

S 35 in SE., and

S 34 in SW. quadrant; 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.

Thence I run

South on a retracement line between secs. 34 and 35.

+0.51 I fall 35 lks. W. of the old ¼ sec. cor., which is a sandstone, 8x8x2 ins. above ground, mkd. and witnessed

Subdivision of T.14 S., R. 8 E.

Chains.	
	as described by the surveyor general.
	Thence I offset E. 65 lks. to the ¼ sec. cor.,
	Thence I run
	South on a random line between secs. 34 and 35.
38.37	Intersect the S. bdy. of the Tp. at 1.86 chs. west of the old established cor. of secs. 34 and 35 on the S. bdy. of Tp., which is a sandstone, 12x8x6 ins. above ground, mkd. and witnessed as described by the surveyor general. I destroy all marks on this cor. and leave it as W. P. for the C.C. for secs. 2 and 3, T. 15 S., R. 8 E., which is 2.40 chs. W. of W.P., and is a sandstone, 12x8x6 ins. above ground, firmly set, and mkd. with 2 grooves on E., 4 grooves on W., and CC on S. face.
	At the point of intersection, 1.86 chs. W. of W.P.,
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 34 and 35, mkd. on brass cap
	T 14 S R 8 E in N. half,
	CC T 15 S in S. half,
	S 34 in NW.,
	S 35 in NE.,
	S 2 in SE., and
	S 3 in SW. quadrant; from which
	A pinion pine, 8 ins. diam., bears N.35°E., 15 lks. dist., mkd. T 14 S R 8 E S 35 BT.
	A cedar, 11 ins. diam., bears N.89°45'W., 36 lks. dist., mkd. T 14 S R 8 E S 34 BT.
	Thence I run
	North on a true line between secs. 34 and 35.
	Over mountainous land, thru heavy timber, desc.
5.00	Leave heavy and enter scattering timber, bears E. and W.
18.75	Spring branch of slightly alkaline water, 2 lks. wide, 1 inch deep, in hollow, 100 ft. below C.C., course E.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Ascend.
27.75	Spur, 80 ft. above hollow, bears N.80°E. and S.80°W.
	Desc.
32.75	Hollow, 100 ft. below spur, course N.80°E.
	Asc.
38.37	The old established ¼ sec. cor.
	As this corner is badly dilapidated, at the cor. point,
	Set an iron post, 3 ft. long, 1 inch diam., 26 ins.
	in the ground and a mound of stone, mkd. on brass cap
	¼ S 34 in W. half and S 35 in E. half; from which
	A pinion pine, 14 ins. diam., bears S. 38°E., 43 lks.
	dist., mkd. ¼ S 35 BT.
	A pinion pine, 20 ins. diam., bears N.85°W., 77 lks.
	dist., mkd. ¼ S 34 BT.
	Thence I run
	N.0°55'W. on a true line bet. secs. 34 and 35.
	Over mountainous land, thru scattering timber, asc.
4.00	Spur, 100 ft. above hollow last noted, bears E. and W.
	Desc.
12.00	Hollow, 80 ft. below spur, course E.
	Asc.
15.25	Top of ascent, edge of mesa, 80 ft. above hollow, bears
	E. and W.
	Leave timber and enter dense sage, bears E. and W.
40.31	The cor. of secs. 26, 27, 34, and 35.

Land, mountainous and level.

Soil, clay loam and stony; 1st and 3rd rate.

Timber, cedar and pinion pine.

Undergrowth, sage.

A little grass for grazing.

Mountainous land, or land covered with dense undergrowth,

78.68 chs.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	As it appears that retracement of the old subdivisional lines will be necessary, I retrace West bet. secs. 27 and 34.
	Over nearly level land, thru dense undergrowth of sage. Ascend very gradually.
41.06	I fall 5 lks. N. of the ¼ sec. cor., which is a sandstone boulder, 18x18x8 ins. above ground, mkd. and witnessed as described by the surveyor general. True bearing and distance bet. cors., S.89°56'W., 41.06 chs.
81.56	I fall 20 lks. S. of the cor. of secs. 27,28,33, and 34, which is a sandstone, 9x9x3 ins. above ground, mkd. and witnessed as described by the surveyor general. True bearing and distance bet. cors., N.89°39'W., 40.50 chs.
	Oct. 25: At this cor. I set off 11°59'S. on the decl. arc; and, at 11h 44 m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 39°34'N., or within 1' of the proper lat.
	South on a random line bet. secs. 33 and 34.
40.00	I find no trace of old ¼ sec. cor. Set temp. ¼ sec. cor.
78.75	Intersect S. bdy. of Tp. at 4.04 chs. W. of the old established cor. of secs. 33 and 34, which is a sandstone boulder in place, 15x6x3 ft. above ground, mkd. and witnessed as described by the surveyor general. I destroy all marks on the cor. except the cross (X), and add W P, leaving this as a Witness Point for the C.C. for secs. 3 and 4, T. 15 S., R. 8 E., which is a sandstone, 12x8x5 ins. above ground, mkd. with three grooves on E. and W., and CC on S. face, with mound of stone, 2 ft. base, 1½ ft. high, S. of C.C.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	At 4.04 chs. W. of W.P., and 1.96 chs. W. of C.C. for secs. 3 and 4, T.15 S., R. 8 E., which is 2.08 chs. W. of W.P.,
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 33 and 34, mkd. on brass cap
	T 14 S R 8 E in N. half,
	CC T 15 S in S. half,
	S 33 in NW.,
	S 34 in NE.,
	S 3 in SE., and
	S 4 in SW. quadrant; from which
	A pinion pine, 12 ins. diam., bears N.69°20'W., 64 lks. dist.,mkd. T 14 S R 8 E S 33 BT.
	No other trees within limits.
	A sandstone boulder, 15x8x5 ft. above ground, bears N.54°E., 11 lks. dist., mkd.a cross (X)B0S34.
	Thence I run
	North on a true line bet. secs. 33 and 34.
	Over mountainous land, thru scattering timber, on top of spur, bears N.60°W. and S.60°E.
1.00	Begin abrupt descent, bears N.60°W. and S.60°E.
28.65	Hollow, 700 ft. below C.C., course NE.
	Asc.
38.75	I again search for the old ¼ sec. cor., but find no trace of it; therefore I re-establish this cor.
	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 33 in W half, and S 34 in E. half; from which
	A pinion pine, 12 ins. diam., bears S.15°10'E., 145 lks. dist., mkd. ¼ S 34 BT.
	A cedar, 12 ins. diam., bears S.53°W., 103 lks. dist., mkd. ¼ S 33 BT.
44.75	Top of spur, 200 ft. above hollow, bears NE.and SW.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Desc.
66.75	Hollow, 150 ft. below spur, course N.60°E.
	Leave timber and enter scattering undergrowth, bears N.60°E. and S.60°W.
	Asc.
70.00	Top of ascent, edge of mesa, 100 ft. above hollow, bears N.60°E. and S.60°W.
	Thence over nearly level mesa.
78.75	The cor. of secs. 27, 28, 33, and 34.
	Land, mountainous and level.
	Soil, gravelly loam and stony; 1st and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, service berry and sage.
	Good grass for grazing.
	Mountainous land, 70.00 chs.
	Thence I retrace
	West bet. secs. 28 and 33.
	Over nearly level mesa, thru scattering undergrowth.
12.75	Leave mesa and begin abrupt descent, bears N. and S.
	Leave undergrowth and enter scattering timber, bears N. and S.
14.75	Gulch, 60 ft. below mesa, course N.10°W. for about 3 chs., thence NE.
	Asc.
21.25	Spur, 150 ft. above gulch, bears NE. and SW.
	Desc.
29.75	Hollow, 125 ft. below spur, course N.60°E.
	Asc.
34.25	Leave timber, bears NE. and SW.
44.12	I fall 49 lks. N. of the old established ¼ sec. cor., which is a sandstone, 7x7x7 ins. above ground, firmly set, and mkd. and witnessed as described by the survey-

Subdivision of T. 14 S., R. 8 E.

Chains.

or general.

As an additional witness for this cor., I chisel a cross (X) and BO on a notable sandstone boulder, which bears W., 10 lks. dist. This boulder is 14 ft. high, 8 ft. wide N. and S., and 12 ft. long E. and W., and is plainly visible for several miles E. and N.E.

True bearing and dist. between cors., S.89°22'W., 44.12 chs.

Thence I continue W. on same line.

51.00 Top of spur, 150 ft. above hollow, bears NE. and SW.

Desc.

69.00 Hollow, 150 ft. below spur, course N.60°E.

Asc.

77.50 Ridge, 350 ft. above hollow, bears N. and S.

Enter scattering timber, bears N. and S.

Desc.

82.00 Leave timber and enter scattering undergrowth, bears NW. and SE.

83.50 Ravine, 80 ft. below ridge, course N.

Asc.

84.55 I fall 36 lks. N. of the cor. of secs. 28, 29, 32, and 33, which is a sandstone, 6x12x7 ins. above ground, mkd. and witnessed as described by the surveyor general, but badly dilapidated.

At the cor. point,

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 28, 29, 32, and 33, mkd. on brass cap

T 14 S S 29 in NW.,

R 8 E S 28 in NE.,

S 33 in SE., and

S 32 in SW. quadrant; from which

A pinion pine, 12 ins. diam., bears N.17°E., 215 lks. dist., mkd. T 14 S R 8 E S 28 BT.

Subdivision of T. 14 S., R. 8 E.

Chains.

A pinion pine, 18 ins. diam., bears S.84°20'E., 468 lks. dist., mkd. T 14 S R 8 E S 33 BT.

No other trees within limits; dig pits, 18x18x12 ins., NW. and SW. of post, 5½ ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

True bearing and dist. bet. cors., N.89°49'W., 40.43 chs.

Oct. 25, 1910.

Oct. 26: At 7 h 50 m a.m., l.m.t., I set off 39°34'N. on the lat. arc; 12°14'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 retracement line bet. secs. 32 and 33.

40.00 I find no trace of old 0¼ sec. cor. after diligent search.

Thence I continue

South on a random line bet. secs. 32 and 33.

78.54 Intersect S. bdy. of Tp. at 8.72 chs. W. of the old established cor. of secs. 32 and 33, which is a sandstone, 6x12x6 ins. above ground, mkd. and witnessed as described by the surveyor general.

I destroy all marks on this cor., add W.P., and leave this as a W.P. for the C.C. for secs. 4 and 5, T. 15 S., R. 8 E., which is a sandstone, 12x8x5 ins. above ground, mkd. with two grooves on E., four grooves on W., and CC on S. face, with mound of stone, 2 ft. base, 1½ ft. high, S. of cor.

At 8.72 chs. W. of W.P., and 6.72 chs. W. of C.C. for secs. 4 and 5, T. 15 S., R. 8 E., which is 2.00 chs. W. of W.P.,

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 32 and 33, mkd. on brass cap

Subdivision of T. 14 S., R. 8 E.

Chains.	
	T. 14 S., R. 8 E. in N. half;
	CC T. 15 S. in S. half,
	S. 32 in NW.,
	S. 33 in NE.,
	S. 4 in SE., and
	S. 5 in SW. quadrant; from which
	A sandstone ledge, 3 ft. high, bears E., 3 lks. dist., mkd. a cross (X) and B. O.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Pits impracticable.
	Thence I run
	North on a true line bet. secs. 32 and 33.
	Over mountainous land, desc. along side of spur.
16.40	Top of sandstone ledge, 50 ft. high, bears E. and W.
16.60	Foot of ledge.
	Enter scattering undergrowth, bears E. and W.
37.00	Ravine, 600 ft. below C.C., course NW.
	Asc.
38.54	I again search for the old ¼ sec. cor., but find no trace of it; therefore I reestablish this cor.
	Set an iron post, 3 ft. long, 1 inch diam. 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S. 32 in W. half; and S. 33 in E. half; from which
	A lone pinion pine, 10 ins. diam., bears S. 84°40' E., 107 lks. dist., mkd. ¼ S. 33 BT.
	A maple, 7 ins. diam., bears S. 20°30' W., 162 lks. dist., mkd. ¼ S. 32 BT.
42.50	Top of spur, 100 ft. above ravine, Bears NW. and SE.
	Desc.
63.50	Hollow, 100 ft. below spur; course W.
	Asc.
70.30	Spur, 100 ft. above hollow, bears E. and W.

Subdivision of T. 14 S., R. 8 E.

Chains.

Descending

73.50 Leave scattering and enter dense (undergrowth) bears NW.

and SE.

78.54 The cor. of secs. 28, 29, 32, and 33.

Land, mountainous.

Soil, gravelly and stony; 2nd and 4th rate.

Undergrowth, service berry, sage, and maple saplings.

Good grass for grazing.

Mountainous land, 78.54 chs.

Oct. 26, 1910: At this cor. I set off 12°19'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 39°34'N., or within 1' of the proper lat.

West on a retracement line bet. secs. 29 and 32.

40.41 I fall 16 lks. S. of the old established ¼ sec. cor., which is a sandstone, 12x8x6 ins. above ground, mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., N.89°46'W., 40.41 chs.

81.01 I fall 37 lks. S. of the old established cor. of secs. 29, 30, 31, and 32, which is a sandstone, 7x11x3 ins. above ground, mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., N.89°42'W., 40.60 chs.

No change in topography.

Thence I run

South on a retracement line bet. secs. 31 and 32.

40.00 After diligent search I find no trace of old ¼ sec. cor.

78.80 Intersect the S. bdy. of Tp. at 9.72 chs. W. of the old established cor. of secs. 31 and 32, which is a sandstone, 7x8x4 ins. above ground, firmly set, and mkd.

Chains.	
	and witnessed as described by the surveyor general.
	I destroy all marks on the cor., add W.P., and leave
	this as a W.P. for the C.C. for secs. 5 and 6, T. 15
	S., R. 8 E., which is a sandstone, 10x9x8 ins. above
	ground, mkd. with 5 grooves on E., 1 groove on W., and
	CC. on S. face, with a mound of stone, 2 ft. base, 1½
	ft. high, S. of cor.
	At 9.72 chs. W. of W.P., and 7.75 chs. W. of C.C. for
	secs. 5 and 6, T. 14 S., R. 8 E., which is 1.97 chs.
	W. of W.P.,
	Set an iron post, 3 ft. long, 2 ins. diam. 24 ins. in the
	ground, for C.C. of secs. 31, and 32, mkd. on brass cap
	T 14 S R 8 E in N. half,
	CC T 15 S in S. half,
	S 31 in NW.,
	S 32 in NE.,
	S 5 in SE., and
	S 6 in SW. quadrant; from which
	A red pine, 7 ins. diam. bears N.61°E., 89 lks.
	dist., mkd. T 14 S R 8 E S 32 BT.
	A red pine, 9 ins. diam., bears N.3°40'W., 264
	lks. dist., mkd. T 14 S R 8 E S 31 BT.
	Thence I run
	North on a true line bet. secs. 31 and 32.
	Over mountainous land, thru scattering undergrowth, desc.
1.50	Enter heavy timber, bears NW. and SE.
4.50	Hollow, 100 ft. below C.C., course N.35°W.
	Asc.
7.20	Leave timber, bears NW. and SE.
10.60	Spur, 80 ft. above hollow, bears NW. and SE.
	Desc.
13.80	Enter scattering timber, bears NW. and SE.
14.30	Hollow, 60 ft. below spur, course NW.
	Asc.

Subdivision of T. 14 S., R. 8 E.

Chains.	
15.00	Leave timber, bears NW. and SE.
16.75	Spur, 50 ft. above hollow, bears E. and W.
	Desc.
24.00	Enter scattering timber, bears NE. and SW.
29.00	Spring branch, ½ link wide, ½ inch deep, good water, in bottom of canon, 200 ft. below spur, course N.3°E.
	Descend along W. side of canon.
38.80	I again search for the old ¼ sec. cor., but find no trace of it; therefore I re-establish this cor.
	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 31 in W. half, and S 32 in E. half; from which
	An aspen, 8 ins. diam., bears S.73°20'E., 34 lks. dist., mkd. ¼ S 32 BT.
	An aspen, 4 ins. diam., bears N.2°W., 116 lks. dist., mkd. ¼ S 31 BT.
42.00	Begin ascent, bears NE. and SW.
	Leave timber, bears NE. and SW.
53.50	Top of steep ascent, bears NE. and SW.
	Asc. gradually.
71.00	Ridge, 250 ft. above canon, bears NE. and SW.
	Desc.
78.80	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous.
	Soil, gravelly and clay loam, and stony; 2nd and 3rd rate.
	Timber, red pine and aspen.
	Undergrowth, service berry and buck brush.
	Good grass for grazing.
	Mountainous land, 78.80 chs.

Oct. 26, 1910.

Subdivision of T. 14 S., R. 8 E.

Chains.

Oct. 30, 1910: At 7 h 52 m a.m., l.m.t., I set off 39°33' N. on the lat. arc; 13°35'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 35 and 36, on S. bdy. of Tp., which is a sandstone, 10x6x4 ins. above ground, mkd. and witnessed as described by the surveyor general.

I observe W. 1.68 chs. to C.C. for secs. 1 and 2, T. 15 S., R. 8 E., which is a sandstone, 6x11x7 ins. above ground, with pits, 18x18x12 ins., SE. and SW. of C.C., and a mound of earth, 3 ft. base, 2 ft. high, S. of C.C.

Thence I run

N.0°1'W. bet. secs. 35 and 36.

Over mountainous land, thru scattering undergrowth, desc.

2.75 Hollow, 25 ft. below sec. cor., course E.

Asc.

6.20 Enter scattering timber, bears E. and W.

11.00 Foot of sandstone ledge, 40 ft. high, bears E. and W.

13.00 Spur, 300 ft. above hollow, bears E. and W.

Desc.

20.00 Hollow, 300 ft. below spur, course E.

Asc.

35.25 Foot of sandstone and shale ledge, 50 ft. high, bears E. and W.

38.00 Leave scattering and enter heavy timber, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 35 in W. half, and S 36 in E. half; from which

A pinion pine, 12 ins. diam., bears N.66°30'E., 46 lks. dist., mkd. ¼ S 36 BT.

A cedar, 5 ins. diam., bears S.53°W., 20 lks. dist., mkd. ¼ S 35 BT.

45.00 Top of ridge, 400 ft. above hollow, bears E. and W.

Desc.

Subdivision of T. 14 S., R. 8 E.

Chains.	
48.00	Leave heavy and enter scattering timber, bears E. and W.
55.80	Hollow, 400 ft. below ridge, course E.
	Asc.
56.79	Old road, bears E. and W.
60.70	Foot of sandstone and shale ledge, 50 ft. high, bears E. and W.
61.00	Top of ledge, bears E. and W.
	Leave scattering and enter heavy timber, bears E. and W.
	Ascend gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 25, 26, 35, and 36 mkd. on brass cap
	T 14 S S 26 in NW.,
	R 8 E S 25 in NE.,
	S 36 in SE., and
	S 35 in SW. quadrant; from which
	A pinion pine, 9 ins. diam., bears N. 25° E., 50 lks. dist., mkd. T 14 S R 8 E S 25 BT.
	A pinion pine, 11 ins. diam., bears S. 82° 30' E., 30 lks. dist., mkd. T 14 S R 8 E S 36 BT.
	A pinion pine, 14 ins. diam., bears S. 18° 40' W., 132 lks. dist., mkd. T 14 S R 8 E S 35 BT.
	A pinion pine, 6 ins. diam., bears N. 35° W., 43 lks. dist., mkd. T 14 S R 8 E S 26 BT.
	Land, mountainous.
	Soil, gravelly and stony, 2nd and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, greasewood and sage.
	A little grass for grazing.
	Mountainous land, 80.00 chs.
	Oct. 30: At this cor. I set off 13° 40' 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 39° 34' N., or

Chains.	
	within 1' of the proper lat.
	East on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect E. bdy. of Tp. 5 lks. S. of the cor. of secs. 25,30,31, and 36, heretofore described.
	Thence I run S.89°58'W., on a true line bet. secs. 25 and 36.
	Over mountainous land, thru scattering timber, asc.
6.50	Spur, 100 ft. above sec. cor., bears N. and S.
	The S. side of a pinnacle of shale and sandstone, 75 ft. high, 40 ft. average diam. at base, bears N., 28 lks. dist.
	Desc. over broken country draining S.
37.00	Hollow, 100 ft. below spur, course S.30°E.
	Asc.
40.01	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 25 in N. half, and S 36 in S. half; from which
	A cedar, 5 ins. diam. bears N.65°E., 36 lks. dist., mkd. ¼ S 25 BT.
	A cedar, 5 ins. diam. bears S. 59° 40'W., 73 lks. dist., mkd. ¼ S 36 BT.
41.50	Ledge of sandstone and shale, 40 ft. high, bears N.70°E. and S.70°W.
48.00	Spur, 200 ft. above hollow, bears N. and S.
	Desc.
53.00	Gulch, 150 ft. below spur, course S.20°E.
	Asc.
60.00	Spur, 200 ft. above gulch, bears N. and S.
	Desc.
68.00	Gulch, 250 ft. below spur, course S. 20°E.
	Asc.

Subdivision of T. 14 S., R. 8 E.

Chains.

71.76 A pinion pine, 4 ins. diam., mkd. for line tree.

72.00 Leave scattering land, enter heavy timber, bears N. and S.

80.02 The cor. of secs. 25,26,35, and 36.

Land, mountainous.

Soil, gravelly and stony; 3rd rate.

Timber, cedar and pinion pine.

A little grass for grazing.

Mountainous land; 80.02 chs.

West on a random line bet. secs. 26 and 35.

40.00 Set temp. ¼ sec. cor.

82.65 Intersect N. and S. line at 1.53 chs. N.3°00'E. of the old cor. of secs. 26,27,34, and 35, heretofore described.

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 26 and 35, mkd. on brass cap

T 14 S CC S 27 in NW.,

S 26 in NE.,

S 35 R 8 E in SE., and

S 34 in SW. quadrant;

dig pits, 24x18x12 ins., crosswise on line, N. and S. of post, 3 ft. dist., and E. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the old cor. of secs. 26,27,34, and 35, pertaining to secs. 26 and 35.

From the C.C. for secs. 26 and 35 I run

East on a true line bet. secs. 26 and 35.

Over nearly level mesa, thru dense undergrowth, desc. gradually.

18.50 Leave mesa and begin steeper desc., bears NE. and SW.

21.50 Hollow, 100 ft. below mesa, course NE.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Asc.
25.00	Leave dense and enter scattering undergrowth, bears N. and S.
27.50	Top of ascent, edge of mesa, 100 ft. above hollow, bears N. and S. Thence ascend gradually.
42.63	Set an iron post, 3 ft. long, 2 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 26 in N. half, and S 35 in S. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. 50 cor.
72.50	Top of low divide ridge, 150 ft. above hollow, bears NE. and SW.
	Leave mesa and begin descent.
	Leave undergrowth and enter heavy timber, bears NE. and SW.
82.63	The cor. of secs. 25, 26, 35, and 36.
	Land, mountainous and level.
	Soil, clay and sandy loam; 1st and 2nd rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 37.63 chs.

Oct. 30, 1910.

Oct. 31, 1910: At 7 h 51 m a.m., l.m.t., I set off 13°55'S. on the decl. arc, 39°34'N. on the lat. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35, and 36.

Thence I run

N. 0°1'W. bet. secs. 25 and 26.

Over mountainous land, thru heavy timber, asc.

14.35	A cedar, 6 ins. diam., mkd. 2 chops on N. and S. sides.
25.00	Ridge, 300 ft. above sec. cor., bears NE. and SW.
	Desc.
28.00	Leave heavy timber and enter scattering timber and dense

Subdivision of T. 14 S., R. 8 E.

Chains.	
	undergrowth, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 26 in W. half, and S 25 in E. half; from which
	A cedar, 4 ins. diam., bears N.25°45'E., 146 lks. dist., mkd. ¼ S 25 BT.
	A pinion pine, 5 ins. diam., bears N.41°W., 153 lks. dist., mkd. ¼ S 26 BT.
53.00	Leave undergrowth and scattering timber and enter heavy timber, bears E. and W.
59.00	leave heavy and enter scattering timber, bears NE. and SW.
63.00	A pinion pine, 4 ins. diam., mkd. 2 chops on N. & S. sides.
75.00	Ravine, 300 ft. below ridge, course N. 60°E.
	Leave scattering and enter heavy timber, bears N.60°E. and S.60°W.
	Asc.
79.75	Leave heavy and enter scattering timber, bears N.80°E. and S.80°W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 23,24,25, and 26, mkd. on brass cap
	T 14 S S 23 in NW.,
	R 8 E S 24 in NE.,
	S 25 in SE., and
	S 26 in SW. quadrant; from which
	A pinion pine, 16 ins. diam., bears N.53°30'E., 148 lks. dist., mkd. T 14 S R 8 E S 24 BT.
	A cedar, 15 ins. diam., bears S.82°E., 30 lks. dist., mkd. T 14 S R 8 E S 25 BT.
	A cedar, 11 ins. diam., bears S.72°W., 48 lks. dist., mkd. T 14 S R 8 E S 26 BT.
	A cedar, 4 ins. diam., bears N.89°10'W., 139 lks. dist., mkd. T 14 S R 8 E S 23 BT.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Land, mountainous.
	Soil, sandy loam and stony; 1st and 3rd rate.
	Timber, cedar and pinion pine.
	Undergrowth, service berry and sage.
	Good grass for grazing.
	Mountainous land, 80.00 chs.
	N.89° 58' E. on random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the cor. of secs. 19, 24, 25, and 30, on E. bdy. of Tp. heretofore described.
	Thence I run
	West on a true line bet. secs. 24 and 25.
	Over mountainous land, thru. scattering timber, asc.
22.00	Top of ascent, edge of flat ridge, 600 ft. above sec. cor., bears NE. and SW.
	Leave scattering and enter heavy timber, bears NE. and SW.
	Thence over ridge top, asc. gradually.
39.99	Set an iron post, 3 ft. long, 1 inch diam. 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 24 in N. half, S 25 in S. half; from which
	A pinion pine, 5 ins. diam., bears North, 42 lks. dist., mkd. ¼ S 24 BT.
	A pinion pine, 7 ins. diam., bears S.2°E., 35 lks. dist., mkd. ¼ S 25 BT.
44.75	Leave ridge top, and begin descent over broken ground draining N.
	Leave heavy and enter scattering timber, bears N. and S.
45.05	A cedar, 4 ins. diam., mkd. 2 chops on E. and W. sides.
68.50	Hollow, 500 ft. below ridge, course N.60°E.
	Ascend abruptly.

Subdivision of T. 14 S., R. 8 E.

Chains.	
74.50	Top of steep ascent, 350 ft. above hollow, bears N.60°E and S.60°W.
	Asc. gradually.
79.98	The cor. of secs. 23, 24, 25, and 26.
	Land, mountainous.
	Soil, stony; 3rd and 4th rate.
	Timber, cedar and pinion pine.
	Good grass for grazing.
	Mountainous land, 79.98 chs.
	Oct. 31:
	At this cor. I set off 14°00' S. on the decl. arc; and, at 11h 44 m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 39° 35' N., or within 1' of the proper lat.
	West on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.13	Intersect the N. and S. line at 69 lks. N.0°05'W. from the old established cor. of secs. 22, 23, 26, and 27, which is a sandstone, 12x15x4 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	I destroy all marks on this cor. pertaining to sec. 23 and 26, and at the point of intersection, N.0°05'W., 0.69 chs.,
	Set an iron post, 3 ft. long, 2 ins. diam. 24 ins. in the ground, for the C.C. for secs. 23 and 26, mkd. on brass cap
	T 14 S. CC S 22 in NW.,
	R 8 E S 23 in NE.,
	S 26 in SE., and
	S 27 in SW. quadrant; from which
	A cedar, 8 ins. diam., bears N.33°10'E., 282 lks. dist., mkd. T 14 S R 8 E S 23 BT.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	A pinion pine, 14 ins. diam., bears S.52°E., 178 lks. dist., mkd. T 14 S R 8 E S 26 BT.
	Thence I run
	East on a true line bet. secs. 23 and 26.
	Over mountainous land, thru scattering timber, asc.
30.00	Spur, 200 ft. above C.C., bears NE. and SW.
	Desc.
36.50	Ledge of shale and sandstone, 50 ft. high, bears N.30°W. and S.30°E.
40.13	Set an iron post, 5 ft. long 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 23 in N. half, and S 26 in S. half; from which
	A cedar, 15 ins. diam., bears N.8°E., 126 lks. dist., mkd. ¼ S 23 BT.
	A pinion pine, 15 ins. diam., bears S.36°30'W., 43 lks. dist., mkd. ¼ S 26 BT.
47.83	Hollow, 350 ft. below spur, course N.
	Asc.
57.75	Ledge of shale and sandstone, 30 ft. high, bears N. and S.
62.00	Leave scattering and enter heavy cedar and pinion pine timber, bears N. and S.
64.00	Ridge, 350 ft. above hollow, bears N. and S.
	Desc.
64.42	A pinion pine, 24 ins. diam., mkd. 2 chops on E.& W. sides.
67.00	Leave heavy timber and enter scattering timber and scattering undergrowth, bears N. and S.
80.13	The cor. of secs. 23,24,25, and 26.
	Land, mountainous.
	Soil, gravelly and stony; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage.
	Mountainous land, 80.13 chs.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	To account for the closing around sec. 26, I begin at the old established cor. of secs. 22,23,26,and 27, heretofore described, at 0.69 chs. S.0°05'E. from the C.C. for secs. 23 and 26, and retrace South bet. secs. 26 and 27.
39.54	I fall 30 lks. E. of the old established ¼ sec. cor., which is a sandstone, 6x12x6 ins. above ground, mkd. and witnessed as described by the surveyor general, but badly dilapidated.
	At the cor. point,
	Set an iron post, 3 ft. long, 1 inch diam., 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 pinion pine, 15 ins. diam., bears E., 19 lks. dist., mkd. ¼ S 26 BT.
	A pinion pine, 10 ins. diam., bears S.3°W., 29 lks. dist., mkd. ¼ S 27 BT.
80.91	I fall 246 lks. E. of the old established cor. of secs. 27 and 34, heretofore described,
	In order to correct the topography notes on this mile, I run
	N.3°0'E. on a true line between secs. 26 and 27.
	Over nearly level mesa, thru dense undergrowth, ascend gradually.
1.53	The C.C. for secs. 26 and 35, heretofore described.
20.00	Begin gradual descent, bears NE. and SW.
32.00	Leave mesa and begin steep descent, bears E. and W.
	Enter very scattering timber, bears NW. and SE.
36.00	Gulch, 150 ft. below mesa, course E.
	Asc.
41.00	Top of steep ascent, 150 ft. above gulch, bears E. and W.
	Thence over mesa, asc. gradually.

Subdivision of T. 14 S., R. 8 E.

Chains.	
41.43	The re-established ¼ sec. cor., heretofore described.
	Thence I run,
	N. 0°26' E. on a true line bet. secs. 26 and 27.
0.50	Leave timber, bears E. and W.
39.54	The old established cor. of secs. 22 and 27, heretofore described.
	Oct. 31, 1910.
	November 1, 1910: At 7 h. 50 m. a.m., l.m.t., I set off 39° 35' N. on the lat. arc; 14°14' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25, and 26.
	Thence I run
	N. 0°1' W. bet. secs. 23 and 24.
	Over mountainous land, thru scattering timber and scattering undergrowth, asc. gradually.
15.50	Ridge, 30 ft. above sec. cor., bears E. and W.
	Desc.
15.74	A cedar, 10 ins. diam., mkd. 23 chops on N. and S. sides.
16.00	Begin steep descent, bears E. and W.
29.75	Hollow, 500 ft. below ridge, course E.
	A spring branch of slightly alkaline water, 2 lks. wide, 2 ins. deep, in bottom.
	Asc.
40.00	Set an iron post, 3 ft. long 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 23 in W. half, and S 24 in E. half; from which
	A pinion pine, 7 ins. diam., bears N. 37° E., 13 lks. dist., mkd. ¼ S 24 BT.
	A pinion pine, 11 ins. diam., bears S. 24° W., 40 lks. dist., mkd. ¼ S 23 BT.
56.00	Base of shale and sandstone ledge, 50 ft. high, bears E. and W.

Subdivision of T. 14 S., R. 8 E.

Chains.	
56.68	A pinion pine, 7 ins. diam., mkd. 2 chops on N. & S. sides.
57.00	Spur, 600 ft. above hollow, bears E. and W.
	Desc.
59.50	Gulch, 50 ft. below spur, course E.
	Asc.
62.00	Spur, 50 ft. above gulch, bears E. and W.
	Desc.
71.00	Gulch, 300 ft. below spur, course S.60°E.
	Asc.
75.00	Base of shale and sandstone ledge, 50 ft. high, bears E. and W.
75.30	Top of abrupt ascent, edge of mesa, 300 ft. above gulch, bears E. and W.
	Leave scattering and enter heavy timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 13, 14, 23, and 24, mkd. on brass cap
	T 14 S S 14 in NW.,
	R 8 E S 13 in NE.,
	S 24 in SE., and
	S 23 in SW. quadrant; from which
	A pinion pine, 14 ins. diam., bears N.67°45'E., 22 lks. dist., mkd. T 14 S R 8 E S 13 BT.
	A pinion pine, 6 ins. diam., bears S.84°40'E., 65 lks. dist., mkd. T 14 S R 8 E S 24 BT.
	A cedar, 12 ins. diam., bears S.22°W., 6 lks. dist., mkd. T 14 S R 8 E S 23 BT.
	A pinion pine, 11 ins. diam., bears N.61°20'W., 88 lks. dist., mkd. T 14 S R 8 E S 14 BT.
	Land, mountainous and level.
	Soil, gravelly and stony; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage and mountain rush.
	A little grass for grazing.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Mountainous or heavily timbered land, 80.00 chs.
	East on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the cor. of secs. 13, 18, 19, and 24, on E. bdy. of Tp. heretofore described.
	Thence I run
	West on a true line bet. secs. 13 and 24.
	Over mountainous land, thru scattering timber, desc.
7.00	Hollow, 50 ft. below sec. cor., course N.
	Asc.
15.00	Spur, 60 ft. above hollow, bears N. and S.
	Desc.
28.25	Hollow, 150 ft. below spur, course N. 30°E.
	A spring branch of alkaline water, 3 lks. wide, 3 ins. deep, in bottom of hollow.
	Asc.
39.99	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 13 in N. half, and S 24 in S. half; from which
	A pinion pine, 11 ins. diam., bears N. 23°E., 24 lks. dist., mkd. ¼ S 13 BT.
	A cedar, 9 ins. diam., bears S. 70°W., 15 lks. dist., mkd. ¼ S 24 BT.
61.25	Foot of shale and sandstone ledge, 50 ft. high, bears NE. and SW.
61.50	Top of steep ascent, edge of mesa, 700 ft. above hollow, bears NE. and SW.
	Leave scattering and enter heavy timber, bears NE. and SW.
79.98	The cor. of secs. 13, 14, 23, and 24.
	Land, mountainous and nearly level.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Soil, gravelly and stony; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	A little grass for grazing.
	Mountainous or heavily timbered land, 79.98 chs.
	Nov. 1, 1910: At this cor. I set off 14°19'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 39° 36'N., or within 1' of the proper lat.
	West on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect the E. bdy. of sec. 22 at 1.67 chs. S.0°05'E. from the old established cor. of secs. 14,15,22, and 23, which is a sandstone, 15x10x5 ins. above ground, mkd. and witnessed as described by the surveyor general.
	I destroy all marks on this cor. pertaining to secs. 14 and 23, and at the point of intersection,
	Set an iron post, 3 ft. long, 2 ins. diam. 24 ins. in the ground and a mound of stone, for the C.C. for secs. 14 and 23, mkd. on brass cap.
	T 14 S S 15 in NW.,
	R 8 E S 14 in NE.,
	S 23 in SE., and
	CC S 22 in SW. quadrant; from which
	A cedar, 9 ins. diam., bears N.62°E., 45 lks. dist., mkd. T 14 S R 8 E S 14 BT.
	A pinion pine, 11 ins. diam., bears S.19°E., 71 lks. dist., mkd. T 14 S R 8 E S 23 BT.
	Thence I run
	East on a true line bet. secs. 14 and 23.
	Over mountainous land, thru heavy timber, desc.
5.00	Leave timber, bears NE. and SW.
	Desc. ledge of sandstone, 30 ft. high, bears NE. and SW.

Subdivision of T. 14 S., R. 8 E.

Chains.	
8.50	Gulch, 200 ft. below C.C., course NE.
	A small seep of slightly alkaline water is in the bottom of this gulch, 2 chs. SW.
	Asc.
13.00	Enter scattering timber, bears NE. and SW.
20.40	Leave timber, bears NE. and SW.
	Enter scattering undergrowth, bears NE. and SW.
	Ascend more gradually.
25.00	Spur, 200 ft. above gulch, bears NE. and SW.
	Desc. gradually.
40.20	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 14 in N. half, and S 23 in S. half; from which
	A cedar, 14 ins. diam., bears N.52°E., 205 lks. dist., mkd. ¼ S 14 BT.
	A pinion pine, 11 ins. diam., bears S.84°20'E., 408 lks. dist., mkd. ¼ S 23 BT.
42.50	Hollow, 60 ft. below spur, course N.30°E.
	Asc.
43.50	Enter scattering timber, bears NW. and SE.
44.25	Top of ascent, 30 ft. above hollow, bears N.30°E. and S.30°W.
	Leave timber, bears N. and S.
	Leave scattering and enter dense undergrowth, bears N.
	Thence over mesa, asc. gradually.
60.00	Top of low, smooth ridge on mesa, 40 ft. above hollow, bears N.30°E. and S.30°W.
	Desc. gradually.
66.00	Leave undergrowth and enter scattering timber, bears N. and S.
80.20	The cor. of secs. 13, 14, 23, and 24.
	Land, mountainous and nearly level.
	Soil, sandy loam and stony; 1st and 4th rate.
	Timber, cedar and pinion pine.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.20 chs.
	In order to explain the closing of sec. 23, I retrace from the old established cor. of secs. 15 and 22; South on E. bdy. of sec. 22.
40.00	I find no trace of old ¼ sec. cor.
82.36	I fall 12 lks. W. of the old established cor. of secs. 22 and 27, heretofore described.
	Thence I run N. 00° 05' W. on a true line, on E. bdy. of sec. 22.
	Over nearly level mesa, thru dense undergrowth and scattering timber, desc. gradually.
0.69	The C.C. for secs. 23 and 26, heretofore described.
6.50	Leave mesa and begin steep descent, bears E. and W.
	Leave dense and enter scattering undergrowth, bears E. and W.
16.50	Hollow, 300 ft. below mesa, course E.
	A small spring of slightly alkaline water bears E., 3.00 chs. dist.
	Asc.
20.00	Ascend over sandstone ledges and boulders, bear E. and W.
23.50	Top of ascent, edge of mesa, 300 ft. above hollow, bears E. and W.
	Leave ledges and boulders.
	Leave timber and scattering undergrowth, and enter dense undergrowth, bears E. and W.
	Ascend gradually.
35.00	Top of smooth ridge on mesa, 350 ft. above hollow, bears NE. and SW.
	Desc. gradually.

Subdivision of T. 14 S., R. 8 E.

Chains.	
41.18	I again search for old ¼ sec. cor., but find no trace of it; therefore I re-establish this cor.
	Set an iron post, 3 ft. long 1 inch diam. 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 22 in W. half, and S 23 in E. half; dig pits, 18x18x12 ins., on line N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
57.50	Leave mesa and begin steep descent, bears NE. and SW.
	Leave dense undergrowth and enter scattering undergrowth and scattering timber, bears NE. and SW.
65.50	Gulch, 200 ft. below mesa, course N.25°E.
	Asc.
75.00	Leave scattering and enter heavy timber, bears NE. and SW.
80.69	The C.C. for secs. 14 and 23, heretofore described.
82.36	The cor. of secs. 15 and 22.

Nov. 01, 1910.

Nov. 2, 1910: At 7 h 52 m a.m., l.m.t., I set off 39°36'N. on the lat. arc; 14°33'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°1'W. bet. secs. 13 and 14.

	Over nearly level mesa, thru scattering timber, asc. gradually.
2.50	Leave timber and enter dense undergrowth, bears E. and W.
5.00	Top of smooth ridge on mesa, 15 ft. above sec. cor., bears E. and W.
	Desc. gradually.
15.00	Enter scattering timber, bears E. and W.
20.00	Leave dense and enter scattering undergrowth and heavy timber, bears NW. and SE.

Subdivision of T. 14 S., R. 8 E.

Chains	
39.75	Leave mesa and begin abrupt descent, bears N.60°E. and W.
	Leave heavy and enter scattering timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground and a mound of stone, mkd. on brass cap ¼ S 14 in W. half, and S 13 in E. half; from which
	A pinion pine, 6 ins. diam., bears S.82°E., 11 lks. dist., mkd. ¼ S 13 BT.
	A pinion pine, 7 ins. diam., bears S.48°W., 14 lks. dist., mkd. ¼ S 14 BT.
47.50	Gulch, 350 ft. below ridge, course NW.
	Asc.
56.00	Spur, 250 ft. above gulch, bears NW. and SE.
58.22	A pinion pine, 7 ins. diam., mkd. 2 chops on N. & S. sides.
73.00	Gulch, 450 ft. below spur, course NW.
	Asc.
76.00	Spur, 100 ft. above gulch, bears N.60°W. and S.60°E.
	Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, mkd. on brass cap
	T 14 S S 11 in NW.,
	R 8 E S 12 in NE.,
	S 13 in SE., and
	S 14 in SW. quadrant; from which
	A pinion pine, 13 ins. diam., bears N.60°E., 38 lks. dist., mkd. T 14 S R 8 E S 12 BT.
	A pinion pine, 14 ins. diam., bears S.23°E., 43 lks. dist., mkd. T 14 S R 8 E S 13 BT.
	A pinion pine, 12 ins. diam., bears S.40°W., 25 lks. dist., mkd. T 14 S R 8 E S 14 BT.
	A pinion pine, 16 ins. diam., bears N.32°W., 85 lks. dist., mkd. T 14 S R 8 E S 11 BT.
	Land, mountainous and nearly level mesa.

Subdivision of T. 14 S., R. 8 E.

Chains.

Soil, sandy loam and stony; 1st and 4th rate.

Timber, cedar and pinion pine.

Undergrowth, sage.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 77.50 chs.

East on a random line between secs. 12 and 13.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect W. bdy. of Tp. at the cor. of secs. 7, 12, 13, and 18, heretofore described.

Thence I run

West on a true line bet. secs. 12 and 13.

Over mountainous land, thru heavy timber, asc.

7.00 Leave heavy and enter scattering timber, bears N. and S.

25.00 Ridge, 300 ft. above sec. cor., bears NE. and SW.

Desc. over rough, broken country draining N.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 12 in N. half, and S 13 in S. half; from which

A pinion pine, 8 ins. diam. bears N.30°E., 50 lks. dist., mkd. ¼ S 12 BT.

A pinion pine, 4 ins. diam., bears S.40°W., 34 lks. dist., mkd. ¼ S 13 BT.

80.00 The cor. of secs. 11, 12, 13, and 14.

Land, mountainous.

Soil, gravelly and stony; 3rd and 4th rate.

Timber, cedar and pinion pine.

Good grass for grazing.

Mountainous land, 80.00 chs.

Nov. 2:

At this cor. I set off 14°38' 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 39°36' N., or within 1' of the proper lat.

Subdivision of T. 14 S., R. 8 E.

Chains.

West on a random line bet. secs. 11 and 14.

40.00 Set temp. ¼ sec. cor.

80.35 Intersect N. and S. line 1.99 chs. S. of the old established cor. of secs. 10, 11, 14, and 15, which is a sandstone, 12x12x10 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy all marks on this cor. pertaining to secs. 11 and 14, and at the point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 11 and 14, mkd. on brass cap

T 14 S S 10 in NW.,

R 8 E S 11 in NE.,

S 14 in SE., and

CC S 15 in SW. quadrant; from which

A pinion pine, 7 ins. diam., bears N.13°20'E., 353 lks. dist., mkd. T 14 S R 8 E S 11 BT.

No other trees within limits.

Dig pit, 24x24x12 ins., SE. of post, 5½ ft. dist., and raise a mound of earth and stone, 4 ft. base, 2 ft. high, E. of cor.

Thence I run

East on a true line bet. secs. 11 and 14.

Over rolling mesa, thru dense undergrowth.

40.35 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 11 in N. half, and S 14 in S. half; from which

A pinion pine, 14 ins. diam., bears N.27°25'E., 138 lks. dist., mkd. ¼ S 11 BT.

A pinion pine, 4 ins. diam., bears S.87°E., 341 lks. dist., mkd. ¼ S 14 BT.

43.00 Leave undergrowth and enter heavy timber, bears NW. and SE.

Subdivision of T. 14 S., R. 8 E.

Chains.	
55.00	Gulch, 50 ft. deep, course N.20°E.
63.00	Leave mesa and begin steep descent, bears N.30°E. and S.30°W.
64.30	A pinion pine, 8 ins. diam. mkd. 2 chops on E. & W. sides.
64.40	Ledge of sandstone, 40 ft. high, bears N. and S.
	Leave heavy and enter scattering timber, bears N. and S.
78.00	Bottom of gulch, 600 ft. below mesa, course N.20°E.
	Asc.
80.35	The cor. of secs. 11, 12, 13, and 14.
	Land, mountainous and level.
	Soil, gravelly and stony; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.35 chs.
	N.0°1'W. bet. secs. 11 and 12.
	Over mountainous land, thru scattering timber, desc.
6.00	Gulch, 70 ft. below sec. cor., course N.30°E.
	Enter dense undergrowth, bears NE. and SW.
	Asc.
7.00	Leave undergrowth, bears NE. and SW.
10.50	Spur, 70 ft. above gulch, bears E. and W.
	Leave timber, bears E. and W.
	Desc.
16.00	Foot of descent, 60 ft. below spur, bears NW. and SE.
	Enter bottom of Gordon Creek Canon, bears NW. and SE.
	Enter dense undergrowth, bears NW. and SE.
24.00	Gordon Creek, 15 lks. wide, 4 ins. deep, good water, rapid current, course E.
	I observe falls, 25 ft. high, over sandstone ledges,

Subdivision of T. 14 S., R. 8 E.

Chains.	
	in creek bottom, 100 lks. W.
27.09	Wagon road, leading from Spring Glen to Grames' ranch, bears E. and W.
29.75	Telephone line from Price to Clear Creek, bears S.86°W., about 40 chs., and N.86°E. 1.10 chs., thence S.40°E.
32.50	Leave bottom of canon and begin ascent, bears E. and W.
	Leave undergrowth and enter scattering timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 11 in W. half, and S 12 in E. half; from which
	A cedar, 6 ins. diam., bears S.42°E., 30 lks. dist., mkd. ¼ S 12 BT.
	A pinion pine, 5 ins. diam., bears S.23°W., 45 lks. dist., mkd. ¼ S 11 BT.
43.40	Base of sandstone ledge, 30 ft. high, bears E. and W.
45.50	Top of ascent, 600 ft. above canon bottom, bears E. and W.
	Leave scattering and enter heavy timber, bears E. and W.
	Thence over mesa, asc. gradually.
60.00	Leave timber and enter dense undergrowth, bears NE. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 1, 2, 11, and 12, mkd.
	on brass cap
	T 14 S. S 12 in NW.,
	R 8 E S 1 in NE.,
	S 12 in SE., and
	S 11 in SW. quadrant; from which
	A cedar, 8 ins. diam., bears S.84°35'E., 278 lks. dist., mkd. T 14 S R 8 E S 12 BT.
	A cedar, 4 ins. diam., bears S.58°50'W., 146 lks. dist., mkd. T 14 S R 8 E S 11 BT.
	No other trees within limits.
	Dig pits, 24x24x12 ins., NE. and NW. of post, 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft.

Subdivision of T. 14 S., R. 8 E.

Chains.

high, W. of cor.

Land, mountainous and nearly level.

Soil, clay loam and stony; 1st and 4th rate.

Timber, cedar and pinion pine.

Undergrowth, sage and greasewood.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

November 2, 1910.

Nov. 3, 1910: At 7 h 51 m a.m., l.m.t., I set off 39° 37'N. on the lat. arc; 14°52'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

East on a random line bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

[illegible].90 Intersect E. bdy. of Tp. at the cor. of secs. 1,6,7, and 12. heretofore described.

Thence I run

West on a true line bet. secs. 1 and 12.

Over nearly level canon bottom, thru dense undergrowth.

[illegible].25 North Fork of Gordon Creek, 10 lks. wide, 4 ins. deep, course S.

[illegible].00 Leave canon bottom and begin ascent, bears N. and S.

Leave undergrowth and enter scattering timber, bears N. and S.

[illegible].00 Top of steep ascent, edge of rolling mesa, 450 ft. above canon bottom, bears N. and S.

Leave scattering and enter heavy timber, bears N. and S.

[illegible].50 A pinion pine, 14 ins. diam., mkd. 2 chops on N. & W. sides.

[illegible] Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 1

Subdivision of T. 14 S., R. 8 E.

Chains.

in N. half, and S 12 in S. half; from which

A cedar, 14 ins. diam., bears N.10°W., 8 lks. dist., mkd. ¼ S 1 BT.

A cedar, 14 ins. diam., bears S. 16°W., 29 lks. dist., mkd. ¼ S 12 BT.

43.00 Leave timber and enter dense undergrowth, bears N. and S.

79.96 The cor. of secs. 1,2,11, and 12.

Land, mountainous and nearly level.

Soil, clay loam and stony, 1st and 4th rate.

Timber, cedar and pinion pine.

Undergrowth, sage and greasewood.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.96 chs.

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

40.00 Set temp. ¼ sec. cor.

82.83 Intersect the E. bdy. of sec. 10 at 2.94 chs. S.0°31'E. of the old established cor. of secs. 2,3,10, and 11, which is a sandstone boulder, 40x24x8 ins. above ground, marked and witnessed as described by the surveyor general. I destroy all marks on this cor. pertaining to secs. 2 and 11, and at the point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 2 and 11, mkd. on brass cap

T 14 S S 3 in NW.,

R 8 E S 2 in NE.,

S 11 in SE. and

CC S 10 in SW. quadrant; from which

A pinion pine, 9 ins. diam., bears N.41°E., 23 lks. dist., mkd. T 14 S R 8 E S 2 BT.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	A pinion pine, 10 ins. diam., bears S.44°E., 133 lks. dist., mkd. T 14 S R 8 E S 11 BT.
	Thence I run
	East on a true line bet. secs. 2 and 11.
	Over mountainous land, thru scattering timber, asc.
6.73	A cedar, 10 ins. diam., mkd. 2 chops on E.& W. sides.
7.33	Top of ridge, 50 ft. above C.C., bears NW. and SE.
	Desc.
8.35	Leave timber and enter scattering undergrowth, bears NW. and SE.
23.63	Intersect telephone line leading from Price to Shay's branch, bears N.31°30'W. and S.31°30'E.
	Begin steeper descent, bears with telephone line.
25.35	Leave undergrowth and enter heavy timber, bears NW. and SE.
26.35	Gulch, 200 ft. below ridge, course S.30°E.
	Asc.
42.83	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 2, in N. half, and S 11 ins. in S. half; from which
	A pinion pine, 10 ins. diam., bears N.89°E., 47 lks. dist., mkd. ¼ S 2 BT.
	A pinion pine, 9 ins. diam. bears S.40°W., 55 lks. dist., mkd. ¼ S 11 BT.
43.35	Ridge, 200 ft. above gulch, bears N.20°W. and S.20°E.
	Desc.
56.85	Gulch, 300 ft. below ridge, course S.
	Asc.
72.00	Top of ascent, edge of mesa, 300 ft. above gulch, bears N. and S.
73.20	Leave timber and enter dense undergrowth, bears N. and S.
82.83	The cor. of secs. 1,2,11, and 12.
	Land, mountainous and nearly level.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	Soil, clay loam, gravelly, and stony; 1st, 2nd, and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage and service berry.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 82.83 chs.
	Nov.3: At this cor. I set off 14°57'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 39°37'N., or within 1' of the proper lat.
	N.0°1'W. on a random line bet. secs. 1 and 2.
40.00	Point for ¼ sec. cor. falls within the flood channel of North Fork of Gordon Creek.
43.00	Set temp. W.C. for ¼ sec. cor.
83.02	Intersect the N. bdy. of Tp. at 3.00 chs. N.89°54'E. of the old established cor of secs. 1,2,35, and 36, which is a sandstone, 12x10x4 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy all marks on this cor. pertaining to secs. 1 and 2, and at the point of intersection, Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 1 and 2, mkd. on brass cap.
	T 13 S S 35 in NW.,
	CC R 8 E S 36 in NE.,
	S 1 in SE., and
	S 2 T. 14 S in SW. quadrant; from which
	A pinion pine, 4 ins. diam., bears S.85°E., 53 lks. dist., mkd. T 14 S R 8 E S 1 BT.

Subdivision of T. 14 S., R. 8 E.

Chains.	
	A lone cedar, 5 ins. diam., bears S.52°20'W., 102 lks. dist., mkd. T 14 S R 8 E S 2 BT.
	Thence I run
	S.0°1'E. on a true line bet. secs. 1 and 2.
	Over gently rolling mesa, thru dense undergrowth, desc. gradually.
24.30	Leave undergrowth and enter heavy timber, bears NW. and E.
30.49	A pinion pine, 12 ins. diam. , mkd. 2 chops on N.& S.sides.
37.07	Leave mesa and begin steep descent at top of ledge of sandstone, 40 ft. high, bears E. and W.
40.02	Set an iron post, 3 ft. long 1 inch diam., 26 ins. in the ground, for witness corner to ¼ sec. cor., mkd. on brass cap T 14 S ¼ S 2 in W. half, and R 8 E S 1 in E. half, with WC in S. half; from which
	A cedar, 11 ins. diam., bears S.71°E., 19 lks. dist., mkd. WC 1¼ S 1 BT.
	A pinion pine, 10 ins. diam., bears N.55°30'W., 50 lks. dist., mkd. WC ¼ S 2 BT.
41.50	Foot of descent, 400 ft. below mesa, bears N.70°W. and S.70°E.
	Enter bottom of canon, badly cut up by floods.
	Leave timber and enter dense undergrowth, bears N.70°W. and S.70°E.
42.50	North Fork of Gordon Creek, 5 lks. wide, 2 ins. deep, good water, swift current, course S.70°E.
43.02	Point for ¼ sec. cor. falls in flood channel, and would not be a safe position for cor. ¼ sec.cor. not set.
48.00	Leave undergrowth and canon bottom and begin ascent, bears N.70°W. and S.70°E.
	Enter scattering timber, bears N.70°W. and S.70°E.
60.00	Top of ascent, edge of mesa, 400 ft. above canon bottom, bears N.70°W. and S.70°E.
	Leave timber and enter dense undergrowth, bears E. and W.

Subdivision of T. 14 S., R. 8 E.

Chains.	
83.02	The cor. of secs. 1,2,11, and 12.
	Land, mountainous and nearly level.
	Soil, sandy and clay loam and stony; 1st and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 83.02 chs.
	To explain the closing of sec. 11, I retrace from the old established cor. of secs. 3 and 10, heretofore described,
	South on a random line on E. side of sec. 10.
40.46	I fall 36 lks. W. of the old established ¼ sec. cor. bet. secs. 10 and 11, which is a sandstone, 6x9x8 ins. above ground, and mkd. and witnessed as described by the surveyor general, but badly dilapidated.
	At the cor. point,
	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 10 in W. half, and S 11 in E. half; from which
	A pinion pine, 16 ins. diam., bears N.70°E., 19 lks. dist., mkd. ¼ S 11 BT.
	A cedar, 24 ins. diam., bears S. 47°W., 22 lks. dist., mkd. ¼ S 10 BT.
80.89	I fall 2.56 chs. W. of the old established cor of secs. 10 and 15, heretofore described.
	Thence I run
	N.3°07'W. on a true line bet. secs. 10 and 11.
	Over nearly level mesa, thru dense undergrowth, asc. gradually.

Subdivision of T. 14 S., R. 8 E.

Chains.	
2.00	Leave mesa and begin abrupt descent, bears E. and W.
	Leave dense and enter scattering undergrowth and scattering timber, bears E. and W.
17.75	Foot of descent and S. edge of canon bottom, bears E. and W.
18.50	Gordon Creek, 15 lks. wide, 6 ins. deep, good water, swift current, course E.
	Leave timber and undergrowth, bears E. and W.
20.62	Enter cultivated tract, bears E. and W.
23.00	Irrigation ditch, 2 ft. wide, 1 ft. deep, course E.
24.00	Road, bears E. and W.
25.50	Leave cultivated tract and canon bottom and begin ascent, bears E. and W.
	Enter scattering timber, bears E. and W.
37.75	Trail leading from Grames' ranch to the R.J.Wright ranch, bears NW. and SE.
40.49	The re-established ¼ sec. cor. , heretofore described.
	Thence I run
	N.0°31'W. on a true line on E. bdy. of sec. 10.
1.02	Intersect telephone line leading from Price to Clear Creek, bears N.67°35'W. and S.67°35'E.
3.00	Ascend more gradually, bears N.70°W. and S.70°E.
7.50	Top of ridge, 600 ft. above canon, bears E. and W.
	Leave timber, bears E. and W.
	Desc. gradually.
21.50	Begin steep descent, bears E. and W.
	Enter scattering timber, bears E. and W.
28.00	Hollow, 500 ft. below ridge, course S.60°E.
	Asc. abruptly.
37.52	The C.C. for secs. 2 and 11, heretofore described.
40.46	The cor. of secs. 3 and 10, at the top of ridge, , 600 ft. above hollow, bears N.60°W. and S.60°E.

Chains.

To ascertain the course of the N. bdy. of sec. 1,

I retrace from the old established cor. of secs. 35 and 36, on N. bdy. of T. 14 S., R. 8 E., heretofore described,

East on a random line on S. bdy. of sec. 36.

39.68 I fall 7 lks. S. of the old established ¼ sec. cor., which is a sandstone, 10x10x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

True bearing and distance bet. cors., N.89° 54'E., 39.68 chs.

79.86 I fall 35 lks. S. of the old established cor. of Tp. 13 S., Rs. 8 and 9 E., heretofore described.

True bearing and distance bet. cors., N.89° 36'E., 40.18 chs.

No change in notes on topography.

GENERAL DESCRIPTION.

The fractional township included in this survey is very rough and difficult of access generally, due to the almost unbroken ledges that are exposed along the deeper canons. On the broad ridges and mesas, the soil is exceptionally well adapted for growing pasturage; and if the proper methods were employed, dry farming should be successful on some of these tracts. There is very little probability of any large area on these benches ever being irrigated, due to the limited supply in Gordon Creek and its branches during the irrigation season, and to the great depths of the canons.

The timber is mainly aspen and red pine in the western part, with some cottonwood along the creeks; while in the eastern part scrubby pinion pine, cedar, and oak are

found. Practically none of this timber would be valuable or merchantable, except that in a few places cedar posts for fencing might be obtained.

The undergrowth is sage, service berry, mountain rush, buck brush, and willows, with greasewood along canon bottoms.

Practically all of the water that is sufficiently free from alkali to be suitable for use is in Gordon Creek and its tributaries, except when the snow is melting in the late spring time.

The strips of land along the canon bottoms are exceptionally fertile; but the frequency of floods and their violence make the creeks very difficult to control, and much of the best land has been swept away or badly cut up.

The R.J.Wright cabin, the SW. cor. of which is North, 20.34 chs. and East, 0.03 chs. from the old established cor. of secs. 5,6,7, and 8, has apparently been deserted for several years.

There is one settler in sec. 11; the NE. cor. of log cabin is W., 39.00 chs., and N., 3.50 chs. from the ¼ sec. cor. bet. secs. 11 and 12. West of the cabin is an orchard of about 2 acres area; and extending along the N. side of Gordon Creek is an irregular narrow strip of alfalfa field and cultivated land, average width 6.00 chs.; length 55.00 chs.; area, 33 acres; estimated value of improvements, $1200; claimant, Charles Grames.

Clarence S. Jarvis,

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Clarence S. Jarvis, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the fractional subdivision, retracements, and resurveys of T. 14 S., R. 8 E., of the Salt Lake Base and Meridian showing the respective capacities in which they acted:

, *Chainman.*

George T. Burridge, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

~~We~~ I hereby certify that ~~we~~ I assisted Clarence S. Jarvis, United States Deputy Surveyor, in surveying all those parts or portions of the the fractional subdivision, retracements, and resurveys of T. 14 S., R. 8 E., (until Oct. 29, 1910) of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

, *Chainman.*

George T. Burridge, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 29th day of October, 1910.

SEAL

Clarence S. Jarvis,
U. S. Deputy Surveyor.

6—151

For final oath of remaining assistants see book "E" T.14 S., R. 9 E.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of deputy see book "E" T. 14 S., R. 9 E.

..... of the ..... meridian, in the ..... of ....., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....
United States Deputy Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 190

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 13, 1912~~190~~--

The foregoing field notes of the survey of fractional subdivision, retracements and resurveys of Township No.14 S., R. 8 E.of the Salt Lake Base and Meridian, Utah,

executed by Clarence S.Jarvis under his contract No. 317, dated January 15, 1910, 190XXX, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kearns
United States Surveyor General.

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

.....
United States Surveyor General.

6—151

Blank

Page

Blank

Page

537

4—679.

BOOK A-372

E.W.

C.

FILED
FEB 14 1911

FIELD NOTES

OF THE SURVEY OF THE

S. BDY. OF FRACTIONAL T. 14 S., R. 9 E.

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH.

AS SURVEYED BY

Clarence S. Jarvis, *United States Deputy Surveyor,*

Under his Contract No. 317, *dated* January 15, 1910., *190*

Survey commenced November 6, 1910., *190*

Survey completed November 6, 1910., *190*

6—151

S Bdy 3-77-33
Rt S Bdy 1-03-58
5 00 91

NAMES AND DUTIES OF ASSISTANTS.

Doran Pace	Chainman
J. William Betz	Chainman
Harry Bryner	Moundman
Lewis H. McCarty	Axman
Edward McMurray	Flagman

BOOK A-372

INDEX DIAGRAM.

Township 14 S., *Range* 9 E.

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
1	3	4	5		

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ivan Pace and J. William Betz do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the S. bdy. of fr. T. 14 S., R. 9 E., of Salt Lake Base and Meridian.

Ivan Pace, Chainman

J. William Betz, Chainman

Subscribed and sworn to before me this 2nd day of November, 1880.

SEAL

Clarence S. Jarvis, U. S. Deputy Surveyor

~~WE~~, I Harry Brymer ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the S. bdy. of fr. T. 14 S., R. 9 E., of Salt Lake Base and Meridian.

Harry Brymer, Moundman

, Moundman

Subscribed and sworn to before me this 2nd day of November, 1880.

SEAL

Clarence S. Jarvis, U. S. Deputy Surveyor

~~WE~~, I, Lewis H. McCarty ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the S. bdy. of fr. T. 14 S., R. 9 E., of Salt Lake Base and Meridian.

Lewis H. McCarty, Axman

, Axman

Subscribed and sworn to before me this 2nd day of November, 1880.

SEAL

Clarence S. Jarvis, U. S. Deputy Surveyor

I, Edward Mc Murray, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the S. bdy. of fr. T. 14 S., R. 9 E., Salt Lake Base and Mer.

Edward Mc Murray, Flagman

Subscribed and sworn to before me this 2nd day of November, 1880.

SEAL

Clarence S. Jarvis, U. S. Deputy Surveyor

S. bdy. of T. 14 S., R. 9 E., Salt Lake Base and Meridian.

Chains.	
	Survey commenced Nov. 6, 1910, and executed with a Bausch, Lomb, and Saegmuller transit No. 8375, with solar attachment.
	For description of instrument and complete test, see notes of retracement of S. bdy. of T. 14 S., R. 8 E., Book "A" page 1.
	At the old established cor. of secs. 2,3,34, and 35, on S. bdy. of Tp., described in Book "E", page 2; lat. 39° 33'01"N.; longitude 110°55'26"W.; I set off 39°33' N. on the lat. arc; 15°48'S. on the decl. arc; and determine a meridian with the solar, at 7 44 a.m.L.m.t.
	Thence I run
	West on a random line along the S. bdy. of T. 14 S., R. 9 E., setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; and, at 317.33 chs., intersect N. and S. line at 54 lks. S. of the old established cor. of Tps. 14 and 15 S., Rs. 8 and 9 E., heretofore described.
	The falling answers to a correction of 0°07', or 16 lks. N. per mile, counting from the SE. cor. of the Tp.; therefore I run
	S.89°53'E., bet. secs. 6 and 31, marking and blazing true line.
	Over mountainous land, thru scattering timber, desc.
8.50	Begin steeper descent over bluffs, bear N. and S.
12.00	Leave bluffs, bear N. and S.
20.55	Hollow, 300 ft. below Tp. cor., course N.30°E.
	Asc.
25.00	Spur, 20 ft. above hollow, bears N.20°E. and S.20°W.
	Leave timber, bears N. and S.
	Desc.
31.30	Hollow, 30 ft. below spur, course N.
	Enter scattering timber, bears N. and S.

S. bdy. of T. 14 S., R. 9 E.

Chains.	
	Asc.
37.33	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 31 in N. half, and S 6 in S. half; from which
	A pinion pine, 7 ins. diam., bears N.17°W., 45 lks. dist., mkd. ¼ S 31 BT.
	A pinion pine, 6 ins. diam., bears S.41°W., 26 lks. dist., mkd. ¼ S 6 BT.
51.22	A dike of black lava, carrying small quantities of iron, width from 20 to 40 ins., and protruding above ground from 1 to 4 ft., bears N. and S.3°30'W., on S. point of knoll, 450 ft. above hollow,
	Desc.
75.00	Foot of descent, 350 ft. below spur, bears NE. and SW. Leave timber, bears NE. and SW.
77.33	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 5,6,31, and 32, mkd. on brass cap
	T 14 S S 31 in NW.,
	R 9 E S 32 in NE.,
	S 5 in SE., and
	S 6 T 15 S in SW. quadrant; from which
	A cedar, 6 ins. diam. , bears N.16°40'E., 190 lks. dist., mkd. T 14 S R 9 E S 32 BT.
	A pinion pine, 10 ins. diam., bears N.64°20'W., 123 lks. dist., mkd. T 14 S R 9 E S 31 BT.
	No other accessories provided, as I note that a C. C. from the south will be necessary.
	Land, mountainous and nearly level.
	Soil, sandy loam and stony; 1st and 4th rate.
	Timber, cedar and pinion pine.
	A little grass for grazing.
	Mountainous land, 75.00 chs.

S. bdy. of T. 14 S., R. 9 E.

Chains	
	Nov. 6, 1910: At this cor. I set off 15°53'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 39°33'N., or within 1" of the proper lat.
	S. 89°53'E., on a true line bet. secs. 5 and 32.
	Over nearly level land, draining NE.
11.25	Enter scattering timber, bears N.70°W. and S.70°E.
37.50	Gully, 20 ft. deep, course N.70°E.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 32 in N. half, and S 5 in S. half; from which A pinion pine, 14 ins. diam., bears N. 81°E., 50 lks. dist., mkd. ¼ S 32 BT. A cedar, 14 ins. diam., bears S.62°W., 30 lks. dist., mkd. ¼ S 5 BT.
41.00	Gully, 20 ft. deep, course N.20°W.
	Leave timber, bears N. and S.
	Asc. gradually.
53.00	Leave flat and begin steep ascent, bears N. and S.
	Enter scattering timber, bears N. and S.
60.00	Divide ridge bet. Pinnacle and Horse Canons, 250 ft. above gully, bears N. and S.
	Desc. over broken ground.
75.00	Hollow, 150 ft. below ridge, course N.25°E.
	Asc.
78.50	Spur, 60 ft. above hollow, bears N. and S.
	Desc.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for the cor. of secs. 4,5,32, and 33, mkd. on brass cap T 14 S S 32 in NW.,

S.bdy. of T.14 S., R. 9 E.

Chains.

R 9 E S 33 in NE.,

S 4 in SE., and

S 5 T 15 S in SW. quadrant; from which

A pinion pine, 9 ins. diam., bears N.46°30'E., 59 lks. dist., mkd. T 14 S R 9 E S 33 BT.

A pinion pine, 9 ins. diam., bears N.35°W., 32 lks. dist., mkd. T 14 S R 9 E S 32 BT.

No other accessories required as a C.C. will be set from the south.

Land, mountainous and nearly level.

Soil, clay loam and stony; 1st and 3rd rate.

Timber, cedar and pinion pine.

A little grass and low white sage for grazing.

Mountainous land, 27.00 chs.

S.89°53'E. on a true line bet. secs. 4 and 33.

Over mountainous land, thru scattering timber, desc. over broken ground draining N.

9.25 Hollow, 60 ft. below sec. cor. course N.

Asc.

11.20 Spur, 100 ft. above hollow, bears N. and S.

Desc.

20.00 Hollow, 100 ft. below spur, course N.

Asc.

40.00 Set an iron post, 3 ft. long, 1 inch diam. 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 33 in N. half, and S 4 in S. half; from which

A pinion pine, 4 ins. diam., bears N.5°E., 100 lks. dist., mkd. ¼ S 33 BT.

A pinion pine, 7 ins. diam., bears S.48°30'W., 85 lks. dist., mkd. ¼ S 4 BT.

S. bdy. of T. 14 S., R. 9 E.

Chains	
40.50	Top of steep ascent, 400 ft. above hollow, bears N.65°E. and S.65°W.
	Leave scattering and enter heavy timber, bears N.65°E. and S.65°W.
	Thence over flat ridge, draining NE.
75.50	Leave ridge top and begin steep descent, bears NE. and SW.
	Leave heavy and enter scattering timber, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for the cor. of secs. 3,4,33, and 34, mkd. on brass cap
	T 14 S S 33 in NW.,
	R 9 E. S 34 in NE.,
	S 3 in SE., and
	S 4 T 15 S in SW. quadrant; from which
	A pinion pine, 9 ins. diam., bears N.44°30'E., 67 lks. dist., mkd. T 14 S. R 9 E S 34 BT.
	A pinion pine, 8 ins. diam., bears N.35°50'W., 115 lks. dist., mkd. T 14 S R 9 E S 33 BT.
	No other accessories required, as C.C. will be set from the south.
	Land, mountainous and nearly level ridge top.
	Soil, sandy loam and stony; 1st and 3rd rate.
	Timber, cedar and pinion pine.
	A little grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.

	S.89°53'E. on a true line bet. secs. 3 and 34.
	Over mountainous land, thru scattering timber, desc.
5.00	Hollow, 100 ft. below sec. cor., course N.70°E.
	Asc.
17.50	A small spring of strongly alkaline water bears N. 3.00 chs. dist. in the bottom of hollow, course E.

S.bdy. of T. 14 S., R. 9 E.

Chains.	
22.00	Spur, 100 ft. above hollow, beras NE. and SW.
	Desc.
29.00	Top of ledge, 20ft. high, at brink of ravine, bears N. and S.
30.50	Ravine, 200 ft. below spur, course N. 6 chs. to main hollow, course E.
32.00	Ledge of sandstone, 20 ft. high, at E. brink of ravine, bears N. and S.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 34 in N. half, and S 3 in S. half; from which
	A cedar, 7 ins. diam., bears N.86°E., 46 lks. dist., mkd. ¼ S 34 BT.
	A cedar, 5 ins. diam., bears S.56°E., 67 lks. dist., mkd. ¼ S 3 BT.
50.00	Spur, 250 ft. above ravine, bears N. and S.
	Desc.
63.00	Ledge of sandstone, 15 ft. high, bears NW. and SE.
69.00	Hollow, 300 ft. below spur, course N.
	Asc.
75.00	Ledge of sandstone, 30 ft. high, bears N.70°E. and S.70°W.
80.00	Intersect the cor. of secs. 2,3,34, and 35, on S. bdy. of Tp.
	Land, mountainous.
	Soil, gravelly and stony; 3rd and 4th rate.
	Timber, cedar and pinion pine.
	A little grass for grazing.
	Mountainous land, 80.00 chs.

Nov. 6, 1910.

BOUNDARIES OF T. 14 S.R.9 E.

Lines Designated	True Bearing	Dist.	Latitudes,		Departures.	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
West Boundary	South	483.44	.....	483.44	.....	.....
South Boundary	S.89°53'E.	317.33	.....	.65	317.33	.....
West Bdy.Sec.35	N.2° 49'W.	39.35	39.30	.....	.....	1.93
West Bdy.Sec.35	N.0° 10'E.	40.01	40.01	.....	12	.....
West Bdy.Sec.26	North	40.17	40.17	.....	.....	.....
West Bdy.Sec.26	N.0°15'W.	40.52	40.52	.....	.....	..18
West Bdy.Sec.23	N.0°15'E.	80.00	80.00	.....	.35	.....
West Bdy.Sec.14	N.0°18'W.	82.52	82.52	.....	.....	...43
West Bdy.Sec.11	N.0°23'E.	81.40	81.40	.....	.54	.....
West Bdy.Sec.2	N.2°07'E.	35.73	35.71	.....	1.32	.....
West Bdy.Sec.2	N.0°03'E.	44.53	44.53	.....	.04	.....
S..Bdy.T.13 S.R.9 E.	N.89°55'W.	80.49	.12	.....	.....	80.49
S.Bdy.T.13 S.R.9 E.	N.89°51'W.	80.66	.21	.....	.....	80.66
S.Bdy.T.13 S.R.9 E.	S.89°43'W.	80.00	.....	.40	.....	80.00
S.Bdy.T.13 S.R.9 E.	S.89°47'W.	75.76	.....	.29	.....	75.76
Convergency						.40
	Total		484.49	484.78	319.70	319.85
				484.49		319.70
Error in lat.and dep.				.29		.15

For general description see notes of subdivision of T.14 S., R.9 E.

Clarence S. Jarvis

Nov.6, 1910.

U.S.Deputy Surveyor.

Blank

Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Clarence S. Jarvis, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the S. bdy. of fractional T. 14 S., R. 9 E., of Salt Lake Bse and Mer., showing the respective capacities in which they acted:

Ivan Pace, *Chainman.*
J. William Betz, *Chainman.*
Harry Bryner, *Moundman.*
, *Moundman.*
Lewis H. McCarty, *Axman.*
, *Axman.*
Edward McMurray, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Clarence S. Jarvis, United States Deputy Surveyor, in surveying all those parts or portions of the S. bdy. of fractional T. 14 S., R. 9 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Ivan Pace, *Chainman.*
J. William Betz, *Chainman.*
Harry Bryner, *Moundman.*
, *Moundman.*
Lewis H. McCarty, *Axman.*
, *Axman.*
Edward McMurray, *Flagman.*

Subscribed and sworn to before me this 23rd day of Nov., 1900

SEAL

Levi N. Harmon
Notary Public.

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Clarence S. Jarvis, United States Deputy Surveyor, d solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of th fifteenth day of January, 1910, I have well, faithfully, and truly, in my ow proper person, and in strict conformity with the instructions furnished by the United States Surveyo General for Utah, the Manual of Surveying Instructions, and the laws of th United States, surveyed all those parts or portions of the S. bdy. of fractional T. 14 S., R. 9 E.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in th foregoing field notes as having been surveyed by me, and under my direction; and I do further solemn swear that all the corners of said survey have been established and perpetuated in strict accordance wit the Manual of Surveying Instructions, and the special written instructions of the United States 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.

Clarence S. Jarvis,
United States Deputy Surveyo

Subscribed by said Clarence S Jarvis, and sworn to before me this 13 day of March 1911

Jerrold R Fitcher Cl
U.S. Dist Court Dist Uta

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 13, 1912. 190-

The foregoing field notes of the survey of the South Boundary of Fractional Township No.14 South, Range No. 9 East of the Salt Lake Base and Meridian, Utah,

executed by Clarence S.Jarvis under his contract No. 317, dated January 15, 1910, ~~190~~, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Genera

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

United States Surveyor Genera

6—131

Blank

Page

Blank

Page

4—679.

BOOK A-372

D.

FILED
FEB 1 1911

M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

FRACTIONAL

Subdivision of T.15 S., R. 9 E., of Salt Lake Base and Mer.

and

Retracements and resurveys in T.15 S., R. 9 E.,

Of the SALT LAKE BASE and *Meridian,*

IN THE STATE OF UTAH.

AS SURVEYED BY

Clarence S. Jarvis, *United States Deputy Surveyor,*

Under his Contract No. 317, *dated* January 15, 1910., *190*

Survey commenced November 7, 1910., *190*

Survey completed November 11, 1910., *190*

6—151

Retr. W. Bdy 2-01-61
Retr. subs. 6-04-04 — Closing 2.09
Subs. 10-06-85 — Closing 5.85

NAMES AND DUTIES OF ASSISTANTS.

Ivan Pace	Chainman
J. William Betz	Chainman
Harry Bryner	Moundman
Lewis H. McCarty	Axman
Edward McMurray	Flagman

For preliminary affidavits, see Book "B", Tp. 14 S., R. 8 E., of Salt Lake Base and Meridian

BOOK A-372

INDEX DIAGRAM.

Township 15 S., *Range* 9 E.

6 21 6 20	5 15 16	4 11 13	3 1 10	2	1
7 18 5	8 12 4	9 8 4	10 2 3	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

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, ...and.....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

.....

.....*Chainm*

.....*Chainm*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

We, ...and.....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishme
of corners, according to the instructions given us, to the best of our skill and ability, in the survey

.....

.....*Moundm*

.....*Moundm*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

We, ...and.....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn
and other duties, according to instructions given us, to the best of our skill and ability, in the survey

.....

.....*Axm*

.....*Axm*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and tr
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in
survey of .....

.....*Flagm*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

Retracement of Subdivision of T.15 S., R.9 E., Salt Lake Base and Mer.

Survey commenced Nov.7, 1910, and executed with the instrument described in book "A" of this survey.

Nov.7, 1910: At 7h 44m.a.m.l.m.t., I set off 39° 33'N. on the lat.arc; 16° 16'S.on the decl.arc; and determine a meridian with the solar at the corner of secs.2,3,34, and 35, on S.bdy.of T.14 S., R.9 E., heretofore described.

I observe S.89° 32'E.to the old established cor.of secs. 1,2,35, and 36, heretofore described, which by the notes of retracement of S.bdy.of T.14 S., R.9 E., book "C", page 2, is E.83.58 chs., and S.69 lks.from my station, or S.89° 32'E.83.58 chs.by the meridian determined by Polaris observation, and the retracement of said boundary.

Therefore I conclude that the transit is in satisfactory adjustment.

For complete test and description of the transit, see notes of retracement of S.bdy.of T.14 S., R.9 E., book "C", page 1, and the notes of subdivision of T.15 S., R. 9 E., book "E".

Because of the irregularities already encountered in the old work contiguous to this contract, I proceed to retrace the adjoining work, preliminary to beginning the subdivision of this Tp.

S.0° 18'W.on a random line, retracing bet.secs.2 and 3,

41.69 I fall 3.43 chs.W.of the old established ¼ sec.cor., which is a sandstone 5 x 10 x 9 ins., above ground, firmly set and mkd., and witnessed as described by the surveyor general.

True bearing and distance bet.cprs.S.4° 25'E. 41.81 chs.

81.99 Intersect E.and W.line at 3.82 chs.W.of the old established cor.of secs.2,3,10, and 11, which is a sandstone 7 x 10 x 3 ins., above ground, mkd. and witnessed as described by the surveyor general.

Retracement of Subdivision of T.15 S. R.9 E.

Chains. True bearing and distance bet.cors.S.0° 15'E. 40.30 chs.

As all of the bearing trees are dead, I mark new trees as follows:

A pinon pine, 8 ins.diam., bears S.29° 30'E., 140 lks.dist., mkd.T 15 S R 9 E S 11 B T

A cedar, 26 ins.diam., bears S.33°W.55 lks.dist. mkd.T 15 S R 9 E. S 10 B T

A pinon pine, 10 ins.diam., bears N.4° 20'W. 42 lks.dist., mkd.T 15 S R 9 E S 3 B T

No other trees within limits; raise mound of stone 2 ft. base, 1½ ft.high W.of cor.

I observe N.48° 02'E.to the cupola of Carbon County Court House at Price.

South on a random line, retracing bet.secs.10 and 11,

40.08 I fall 2 lks.W.of the old ¼ sec.cor., which is a sandstone 5 x 10 x 7 ins., above ground, mkd.as described by the surveyor general, and witnessed by two bearing trees as follows, in the new description of cor.

As the cor.is badly dilapidated at the cor.point,

Set an iron post, 3 ft.long, 1 inch diam., 24 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 10 in W. half, and S 11 in E.half; from which

A cedar, 5 ins.diam., bears N.70°E., 8 lks.dist. mkd.¼ S 11 B T

A cedar, 7 ins.diam., bears N.45° W. 39 lks.dist. mkd.¼ S 10 B T

True bearing and distance bet.cors.S.0° 02'E. 40.08 chs.

80.40 Intersect E.and W.line at 7 lks.E.of the old established cor.of secs.10,11,14, and 15, which is a

Retracement of Subdivision of T.15 S., R.9 E.

Chains.

sandstone, 12x12x4 ins. above ground, firmly set, and mkd. as described by the surveyor general.

No bearing trees found, except a dead pinion pine, 7 ins. diam., which bears N.7°W., 92 lks. dist., mkd. T 15 S R 9 E S 10 BT.

I mark new trees as follows:

A pinion pine, 6 ins. diam., bears N.55°40'E., 79 lks. dist., mkd. T 15 S R 9 E S 11 BT.

A cedar, 5 ins. diam., bears S.84°40'E., 180 lks. dist., mkd. T 15 S R 9 E S 14 BT.

A pinion pine, 8 ins. diam., bears N.52°30'W., 151 lks. dist., mkd. T 15 S R 9 E S 10 BT.

No other trees within limits.

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

True bearing and distance bet. cors., S.0°8'W., 40.32 chs.

N.89°49'W. on a random line, retracing bet. secs. 10 and 15.

40.43 I fall 74 lks. S. of the old established ¼ sec. cor., which is a sandstone, 10x10x3 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, except that the N. bearing tree is a pinion pine, 8 ins. diam., which bears N.9°W., 40 lks. dist., mkd. ¼ S 10 BT.

True bearing and dist. bet. cors., N. 88°46'W., 40.44 chs.

80.97 Intersect N. and S. line at 40 lks. S. of the old established cor. of secs. 9,10,15, and 16, which is a sandstone, 7x12x9 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

Retracement of Subdivision of T.15 S., R.9 E.

Chains.

True bearing and dist. bet. cors., S.89°41'W., 40.54 chs.

Nov. 7, 1910: At this cor. I set off 16°12' 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 39°31'N., or within 1' of the proper lat.

West on a random line, retracing bet. secs. 9 and 16.

39.97 I fall 2.17 chs. N. of the old established ¼ sec. cor., which is a sandstone, 5x10x8 ins. above ground, mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., S.86°53'W., 40.03 chs.

80.50 Intersect N. and S. line at 5 lks. N. of the old established cor. of secs. 8, 9, 16, and 17, which is a sandstone, 12x8x6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., N.87°00'W., 40.59 chs.

West on a random line, retracing bet. secs. 8 and 17.

40.40 I fall 54 lks. S. of the old ¼ sec. cor., which is a sandstone, 8x9x6 ins. above ground, firmly set and mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., N.89°14'W., 40.40 chs.

80.95 Intersect N. and S. line at 54 lks. S. of the old established cor. of secs. 7, 8, 17, and 18, which is a sandstone, 10x6x6 ins. above ground, mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., West, 40.53 chs.

Retracement of Subdivision of T.15 S., R.9 E.

Chains.

S.89°45'W., on a random line, retracing bet. secs. 7 and 18.

40.28 I fall 53 lks. S. of the old ¼ sec. cor., which is a sandstone, 10x8x5 ins. above ground, mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., N.89°30'W., 40.28 chs.

79.00 Intersect N. and S. line at 18 lks. S. of the old established cor. of secs. 7 and 18, on W. bdy. of Tp., which is a sandstone, 14x8x7 ins. above ground, mkd. and witnessed as described by the surveyor general.

True bearing and dist. bet. cors., S.89°44'W., 38.72 chs.

I observe South, 2.09 chs., to the C.C. for secs. 12 and 13, T.15 S., R. 8 E., which is a sandstone, 12x9x7 ins. above ground, mkd. with 2 grooves on N., 4 on S., and CC on W. face, with a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Retracement of W. bdy. of T.15 S., R. 9 E.

North on a random line, retracing on W. bdy. of sec. 7.

40.29 I fall 12 lks. W. of the old established ¼ sec. cor., which is a sandstone, 10x6x5 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

77.59 Intersect E. and W. line at 31 lks. W. of the C.C. for secs. 1 and 12, T.15 S., R.8 E., which is a sandstone, 10x8x5 ins. above ground, mkd. with 1 groove on N., 5 grooves on S., and C.C on W. face, with a mound

Retracement of W.bdy. of T.15 S., R.9 E.

Chains.	
	of stone, 2 ft. base, 1½ ft. high, W. of cor.
80.98	Intersect E. and W. line at 23 lks. W. of the old established cor. of secs. 6 and 7, on W. bdy. of Tp., which is a sandstone, 8x9x4 ins. above ground, mkd. and witnessed as described by the surveyor general.
	True bearing and dist. on W. bdy. of sec. 7, N.0°10'E., 80.98 chs.
	North on a random line, retracing on W. bdy. of sec. 6.
40.16	I fall 65 lks. W. of the old ¼ sec. cor., which is a sandstone, 12x8x6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	True bearing and dist. bet. cors., N.0°56'E., 40.17 chs.
80.63	Intersect N. bdy. of T.15 S., R.8 E., at 37 lks. W. of Tp. cor., heretofore described.
	True bearing and dist. bet. cors. N.0°24'W., 40.46 chs.

Nov.7, 1910.

Subdivision of T.15 S., R.9 E., of Salt Lake Base and Meridian.

Survey commenced Nov. 8, 1910, and executed with a Bausch, Lomb, and Saegmuller transit No. 8375, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to thirty seconds of arc; while one minute is the least count of the verniers of the latitude and declination arcs.

That instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on April 27, 1910.

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 observation on Polaris, I proceed as follows:

At the old established cor. of secs. 9,10, 15, and 16, T.15 S., R. 9 E., Salt Lake Base and Meridian; lat. 39°31'17"N.; longitude 110°56'33"W.; I set off 39°31'N. on the lat. arc; 16°29'S. on the decl. arc; and , at 3h 44 m 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 my station.

Nov. 8, 1910.

Nov. 9, 1910: At 4 h 14.1 m a.m., l.m.t., I observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground; 5 chs. N. of the cor.

At 7 h 55 m a.m., l.m.t., I lay off the azimuth of Polaris, 1°31'30" to the east, and mark the meridian

Subdivision of T.15 S., R.9 E.

Chains.

thus determined, by cutting a small groove in the stone set Nov. 8, on which the meridian falls 0.4 ins. east of the mark determined with the solar.

At 7h 44 m a.m., l.m.t., I set off 39°31'N. on the lat. arc; 16°41'S. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'21" west and 0'21" east 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 h 12 m a.m., is N.16°35'W.; the angle thus determined gives the mag. decl. 16°35'E.

To establish the W.bdy. of sec. 10 parallel with the line connecting the E. sec. cors., which is N.0°03'E.,

From the sec. cor. already described, I run N.0°2'E.bet.secs. 9 and 10.

Over mountainous land, thru scattering timber, asc.

11.00 Ridge, 100 ft. above sec. cor., bearsE. and W.

Desc.

11.30 A pinion pine, 5 ins. diam., mkd.2 chops on N.& S.sides.

20.55 Hollow, 150 ft. below ridge, course SE.

Asc.

28.62 Ledge of sandstone and shale, 50 ft. high, bears N.25°W. and S.25°E.

30.40 A pinion pine, 6 ins. diam., mkd.2 chops on N.& S.sides.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 9 in W. half, and S 10 in E. half; from which

Subdivision of T.15 S., R. 9 E.

Chains.

A cedar, 7 ins. diam., bears N.66°E., 20 lks. dist., mkd. ¼ S 10 BT.

A pinion pine, 5 ins. diam., bears S.63°W., 21 lks. dist., mkd. ¼ S 9 BT.

57.17 Ridge, 200 ft. above hollow, bears E. and W.

Desc.

64.00 Gulch, 50 ft. below ridge, course SE.

Asc.

72.00 Leave timber and enter scattering sage, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 3,4,9, and 10, mkd. on brass cap

T 15 S S 4 in NW.,

R 9 E S 3 in NE.,

S 10 in SE., and

S 9 in SW. quadrant; from which

A pinion pine, 6 ins. diam., bears N.36°30'E., 83 lks. dist., mkd. T 15 S R 9 E S 3 BT.

A pinion pine, 10 ins. diam., bears S.87°10'E., 240 lks. dist., mkd. T 15 S R 9 E S 10 BT.

A pinion pine, 7 ins. diam., bears S.50°30'W., 92 lks. dist., mkd. T 15 S R 9 E S 9 BT.

A cedar, 6 ins. diam., bears N.82°W., 83 lks. dist., mkd. T 15 S R 9 E S 4 BT.

Land, mountainous.

Soil, gravelly and stony; 2nd and 3rd rate.

Timber, cedar and pinion pine.

Undergrowth, sage.

A little grass for grazing.

Mountainous land, 80.00 chs.

As the S. bdy. of sec. 10 was found by retracement to be out of limits in alinement as well as measurement,

Subdivision of T.15 S., R.9 E.

Chains.	
	I run E. on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
81.05	Intersect N. and S. line 31 lks.N. of the cor. of secs. 2,3,10, and 11, heretofore described.
	Thence I run
	N.89°47'W., on a true line bet. secs. 3 and 10.
	Over mountainous land, thru scattering timber, asc.
9.07	Descend bluff, 50 ft. high, bears NW. and SE.
17.00	Hollow, 100 ft. below bluff, course SE.
	Asc.
23.00	Foot of bluff, 50 ft. high, bears N.20°W. and S.20°E.
41.05	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 3 in N. half, and S 10 in S. half; from which
	A pinion pine, 8 ins. diam., bears N.81°E., 148 lks. dist., mkd. ¼ S 3 BT.
	A pinion pine, 9 ins. diam., bears S.50°40'E., 142 lks. dist., mkd. ¼ S 10 BT.
46.57	Ridge, 450 ft. above hollow, bears N.30°W. and S.30°E.
	Desc.
81.05	The cor. of secs. 3,4,9, and 10.
	Land, mountainous.
	Soil, gravelly and stony; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	A little grass for grazing.
	Mountainous land, 81.05 chs.
	Nov. 9: At this cor. I set off 16°46'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 39°32'N., or within 1' of the proper lat.

Subdivision of T.15 S., R.9 E.

Chains	
	The E.bdy.of sec.3 being out of alinement; and also because of the previous retracements and surveys made under this contract, I know that closing corners will be necessary along the N.bdy. of this Tp.; therefore I run on sectional guide meridian
	North on a true line bet. secs. 3 and 4.
	Over mountainous land, draining SW., thru scattering timber, asc.
14.00	Spur, 50 ft. above sec. cor., bears E. and W.
	Desc.
17.50	Hollow, 60 ft. below spur, course SW.
	Asc.
22.00	Spur, 50 ft. above hollow, bears NW. and E.
	Desc.
30.00	Hollow, 75 ft. below spur, course E.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 4 in W. half, and S 3 in E. half; from which
	A pinion pine, 4 ins. diam., bears S.42°E., 7 lks. dist., mkd. ¼ S 3 BT.
	A cedar, 7 ins. diam., bears N.72°30'W., 59 lks. dist., mkd. ¼ S 4 BT.
42.00	Begin steep ascent, bears E. and W.
51.20	Top of ascent, 500 ft. above hollow, bears E. and W.
	Leave scattering and enter heavy timber, bears E. and W.
	Thence over flat topped ridge, desc. gradually.
75.00	Leave ridge top and begin steep descent, bears E. and W.
	Leave heavy and enter scattering timber, bears E. and W.
80.75	Hollow, 300 ft. below ridge, course E.
	Asc.
81.84	Intersect N.bdy. of Tp. at 2.40 chs. S.89°53' E. of the cor. of secs. 3,4,33, and 34, heretofore described.
	I destroy all marks on this cor. pertaining to secs.

Chains.

3 and 4, and at the point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 3 and 4, mkd. on brass cap

T 14 S S.33 in NW.,

R 9 E. S 34 CC in NE.,

S 3 in SE.,

S 4 in SW., quadrant, and

T 15 S in S. half; from which

A cedar, 8 ins. diam., bears S.17°E., 45 lks. dist., mkd. T 15 S R 9 E S 3 BT.

A pinion pine, 8 ins. diam., bears S.50°W., 55 lks. dist., mkd. T 15 S R 9 E S 4 BT.

Land, mountainous, and nearly level ridge top.

Soil, gravelly and stony; 2nd and 4th rate.

Timber, cedar and pinion pine.

A little grass for grazing.

Mountainous and heavily timbered land, 81.84 chs.

From the cor. of secs. 8,9,16, and 17, heretofore described, I run

N.0°1'E. bet. secs. 8 and 9.

Over mountainous land, thru scattering timber, desc.

22.40 Hollow, 40 ft. below sec. cor., course SE.

Asc.

25.00 Enter scattering sage, bears E. and W.

32.80 Spur, 60 ft. above hollow, bears NW. and SE.

Desc.

39.50 Hollow, 30 ft. below spur, course S.30°E.

Asc.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in

Chains.

the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 8 in W. half, and S 9 in E. half; from which

A pinion pine, 5 ins. diam., bears S.34°20'E., 238 lks. dist., mkd. ¼ S 9 BT.

A pinion pine, 8 ins. diam., bears N.5°W., 5 lks. dist., mkd. ¼ S 8 BT.

78.00 Spur, 250 ft. above hollow, bears N.20°W. and S.20°E.

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 4,5,8, and 9, mkd. on brass cap

T 15 S S 5 in NW.,

R 9 E S 4 in NE.,

S 9 in SE., and

S 8 in SW. quadrant; from which

A pinion pine, 7 ins. diam., bears N.40°E., 15 lks. dist., mkd. T 15 S R 9 E S 4 BT.

A cedar, 10 ins. diam., bears S.30°E., 11 lks. dist., mkd. T 15 S R 9 E S 9 BT.

A pinion pine, 6 ins. diam., bears S.19°W., 48 lks. dist., mkd. T 15 S R 9 E S 8 BT.

A pinion pine, 5 ins. diam., bears N.36°W., 13 lks. dist., mkd. T 15 S R 9 E S 5 BT.

Land, mountainous.

Soil, gravelly and stony; 2nd and 3rd rate.

Timber, cedar and pinion pine.

A little grass and low white sage for grazing.

Mountainous land, 80.00 chs.

Nov. 9, 1910.

Nov. 10, 1910: At 7 h 44 m a.m., l.m.t., I set off 39° 32'N. on the lat. arc; 16°58'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs.

Subdivision of T.15 S., R.9 E.

Chains.	
	4,5,8, and 9.
	Thence I run
	East on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.50	Intersect the cor. of secs. 3,4,9, and 10.
	Thence I run
	West on a true line bet. secs. 4 and 9.
	Over mountainous land, thru scattering timber and scattering sage, desc.
10.00	Hollow, 75 ft. below sec. cor., course S.
	Asc. gradually.
20.00	Spur, 30 ft. above hollow, bears N. and S.
	Desc.
30.50	Hollow, 60 ft. below spur, course S.
	Asc. gradually.
31.00	Leave timber, bears N. and S.
40.25	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 4 in N. half, and S 9 in S. half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
45.00	Spur, 20 ft. above hollow, bears N. and S.
	Desc.
48.50	Enter scattering timber, and leave sage, bears N. and S.
51.50	Hollow, 30 ft. below spur, course S.30°E.
	Asc.
67.50	Spur, 100 ft. above hollow, bears N.20°W. and S.20°E.
	Desc.
80.00	Hollow, 50 ft. below spur, course S.20°E.
	Asc.
80.50	The cor. of secs. 4,5,8, and 9.
	Land, mountainous.
	Soil, clay loam and stony; 1st and 3rd rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage.

Subdivision of T. 15 S., R. 9 E.

Chains.

A little grass and white sage for grazing.

Mountainous land, 80.50 chs.

For reasons already stated, I run N.0°1'W. on a true line bet. secs. 4 and 5.

Over mountainous land, thru scattering timber, desc.

1.00 Hollow, 20 ft. below sec. cor., course S.20°E.; asc.

29.50 Foot of steep ascent, 200 ft. above sec. cor., bears E. and W.

39.50 Top of steep ascent, 600 ft. above sec. cor., bears E. and W.

Leave scattering and enter heavy timber, bears E. and W.

Thence over nearly flat ridge top.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 5 in W. half, and S 4 in E. half; from which

A pinion pine, 5 ins. diam., bears S.7°30'E., 58 lks. dist., mkd. ¼ S 4 BT.

A pinion pine, 5 ins. diam., bears S.36°W., 37 lks. dist., mkd. ¼ S 5 BT.

50.50 Leave timber, bears NE. and SW.

54.00 Enter heavy timber, bears NE. and SW.

68.50 Leave ridge top and begin steep descent, bears E. and W.

Leave heavy and enter scattering timber, bears E. and W.

82.06 Intersect N. bdy. of Tp. at 1.93 chs. S.89°53'E. of the corner of secs. 4,5,32, and 33, heretofore described.

I destroy all marks on this cor. pertaining to secs. 4 and 5, and at the point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 4 and 5, mkd. on brass cap

T 14 S S 32 in NW.,

R 9 E S 33 CC in NE.,

S 4 in SE.,

Subdivision of T.15 S., R. 9 E.

Chains.

S 5 in SW. quadrant, and

T 15 S in S. half; from which

A pinion pine, 9 ins. diam., bears S.34°E.,

37 lks. dist., mkd. T 15 S R 9 E S 4 BT.

A pinion pine, 9 ins. diam., bears S.15°20'W.,

81 lks. dist., mkd. T 15 S R 9 E S 5 BT.

Land, mountainous and nearly level ridge top.

Soil, gravelly and stony; 2nd and 4th rate.

Timber, cedar and pinion pine.

Good grass for grazing.

Mountainous or heavily timbered land, 77.58 chs.

Nov. 10, 1910: At this cor. I set off 17°03'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 39°33' N., or within 1' of the proper lat.

Because the retracement showed the S. bdy. of sec. 8 out of limits in alinement and measurement, I regard a sectional correction line as necessary, running west from the cor. of secs. 4,5,8, and 9.

Therefore, from this cor. I run

West on a sectional correction line bet. secs. 5 and 8.

Over mountainous land, thru scattering timber, asc.

0.80 Spur, 20 ft. above sec. cor., bears N. and S.30°E.

Desc.

16.50 Hollow, 60 ft. below spur, course S.

Asc.

18.50 Spur, 80 ft. above hollow, bears N. and S.

Desc.

24.00 Hollow, 30 ft. below spur, course S.

Asc.

33.50 Spur, 60 ft. above hollow, bears N. and S.

Subdivision of T.15 S., R. 9 E.

Chains.	
	Desc.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 5 in N. half, and S 8 in S. half; from which
	A pinion pine, 11 ins. diam., bears N.37°E., 34 lks. dist., mkd. ¼ S 5 BT.
	A cedar, 6 ins. diam., bears S.70°W., 79 lks. dist., mkd. ¼ S 8 BT.
47.00	Hollow, 60 ft. below spur, course S.
	Asc.
61.00	Spur, 100 ft. above hollow, bears N. and S.
	Desc.
65.00	Hollow, 70 ft. below spur, course S.
	Asc.
71.00	Spur, 70 ft. above hollow, bears N. and S.
	Desc.
75.00	Hollow, 100 ft. below spur, course S.
	Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 5,6,7, and 8, mkd. on brass cap
	T 15 S S 6 in NW.,
	R 9 E S 5 in NE.;
	S 8 in SE.; and
	S 7 in SW. quadrant; from which
	A cedar, 6 ins. diam., bears N.24°30'E., 87 lks. dist., mkd. T 15 S R 9 E S 5 BT.
	A pinion pine, 8 ins. diam., bears S.45°E., 84 lks. dist., mkd. T 15 S R 9 E S 8 BT.
	A pinion pine, 6 ins. diam., bears S.22°W., 45 lks. dist., mkd. T 15 S R 9 E S 7 BT.
	A pinion pine, 6 ins. diam., bears N.25°W., 79 lks. dist., mkd. T 15 S R 9 E S 6 BT.
	Land, mountainous.

Subdivision of T. 15 S., R. 9 E.

Chains.	
	Soil, gravelly and stony; 2nd and 4th rate.
	Timber, cedar and pinion pine.
	A little grass for grazing.
	Mountainous land, 80.00 chs.
	S.0°01'W. on a true line bet. secs. 7 and 8.
	Over mountainous land, thru scattering timber, desc.
18.00	Hollow, 150 ft. below sec. cor., course S.20°W.
	Asc.
21.00	Spur, 50 ft. above hollow, bears NE. and SW.
	Desc.
28.00	Hollow, 75 ft. below spur, course SE.
	Asc.
	Top of ascent, edge of mesa, 50 ft. above hollow, bears NW. and SE.
	Leave timber and enter dense undergrowth, bears NW. and SE.
40.00	Set an iron post, 13 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 7 in W. half, and S 8 in E. half; from which
	A lone cedar, 5 ins. diam., bears N.10°30'E., 128 lks. dist., mkd. ¼ S 8 BT.
	No other trees within limits.
	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.
64.00	Leave mesa and begin descent, bears NW. and SE.
	Leave undergrowth and enter scattering timber, bears NW. and SE.
68.50	I observe W., 5.65 chs., to NE. cor. of fence enclosing a spring hole of good water, flowing about 2 gallons per minute; fence bears S. 1.50 chs. and W.

Subdivision of T.15 S., R.9 E.

Chains.	
68.60	Leave timber, bears NW. and SE.
69.00	Spring branch, 3 lks. wide, 1½ ins. deep, slightly alkaline water, in bottom of hollow, 150 ft. below mesa, course SE.
	All of this water rises in the bottom of this hollow, within 5 chs. westerly from here.
74.00	Enter dense undergrowth, bears NW. and SE.
	Begin ascent, bears NW. and SE.
78.20	A small spring of good water, flowing about 1 gallon per minute, bears E., 15 lks., course NE.
79.48	Intersect S.bdy. of sec. 8 at 91 lks. E. of the old established cor. of secs. 7,8,17, and 18, heretofore described. I destroy all marks on this cor. pertaining to secs. 7 and 8, and at the point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for. C.C. for secs. 7 and 8, mkd. on brass cap
	T 15 S S 7 in NW.,
	R 9 E S 8 in NE.,
	C C S 17 in SE., and
	S 18 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Pits impracticable.
	Land, mountainous and rolling mesa.
	Soil, gravelly loam and stony; 1st and 4th rate.
	Timber, cedar and pinion pine.
	Undergrowth, sage, greasewood, and willows.
	A little grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 79.48 chs.
	Nov. 10, 1910.

Subdivision of T.15 S., R.9 E.

Chains.	
	Nov. 11, 1910:At 7 h 44 m a.m., l.m.t., I set off 39°32'N. on the lat. arc; 17°15'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 7, and 8, heretofore described.
	Thence I run
	West on a sectional correction line bet. secs. 6 and 7.
	Over mountainous land, thru scattering timber, asc.
0.30	Spur, 10 ft. above sec. cor., bears N. and S.
	Desc. over broken country draining S.
6.00	Hollow, 50 ft. below spur, course S.
	Asc.
30.40	A black volcanic dike, 5 ft. wide, containing some iron oxide, on top of spur, 150 ft. above hollow, bears N. and S.
	Desc.
34.00	Hollow, 150 ft. below spur, course S.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 6 in N. half, and S 7 in S. half; from which
	A pinion pine, 9 ins. diam., bears N.14°30'W., 92 lks. dist., mkd. ¼ S 6 BT.
	A pinion pine, 7 ins. diam., bears S.18°30'W., 93 lks. dist., mkd. ¼ S 7 BT.
45.50	Spur, 70 ft. above hollow, bears N. and S. Desc.
72.30	Hollow, 150 ft. below spur, course S. Asc.
79.70	Intersect W. bdy. of Tp. at 1.67 chs. S.0°10'W. of the old established cor. of secs. 6 and 7, heretofore described.
	I destroy all marks on this cor., mark it WP as a witness point for the C.C. for secs. 1 and 12, T.15 S., R. 8 E., heretofore described; and at the point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 6 and 7, marked on brass cap

Subdivision of T.15 S., R.9 E.

Chains

T.15 S in N.half,

S 1 CC in NW.,

S 6 in NE.,

S 7 R 9 E in SE., and

S 12 R 8 E in SW. quadrant; from which

A pinion pine, 7 ins. diam., bears N.68°E., 81 lks. dist., mkd. T 15 S R 9 E S 6 BT.

A pinion pine, 7 ins. diam., bears S.63°30'E., 122 lks. dist., mkd. T 15 S R 9 E S 7 BT.

The C.C. for secs. 1 and 12, heretofore described, bears S.2°40'W., 172 lks. dist.

Land, mountainous.

Soil, gravelly and stony; 3rd rate.

Timber, cedar and pinion pine.

A little grass for grazing.

Mountainous land, 79.70 chs.

From the cor. of secs. 5,6,7, and 8, heretofore described, I run, for reasons already stated, N.0°1'W. on a true line bet. secs. 5 and 6.

Over mountainous land, thru scattering timber, asc.

15.60 Top of ridge, 500 ft. above sec. cor., bears E. and W.

Desc.

31.00 Gulch, 300 ft. below ridge, course E.

Asc.

32.55 Spur, 100 ft. above gulch, bears E. and W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 inch diam., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 6 in W. half, and S 5 in E. half; from which

A pinion pine, 4 ins. diam., bears N.61°E., 34 lks. dist., mkd. ¼ S 5 BT.

Subdivision of T. 15 S., R. 9 E.

Chains.

A pinion pine, 4 ins. diam., bears N.66°30'W., 14 lks. dist., mkd. ¼ S 6 BT.

45.00 Foot of descent, 300 ft. below spur, bears E. and W.

Leave timber and enter scattering undergrowth, bears E. and W.

Thence over nearly level land.

62.40 Gully, 15 ft. deep, course N.70°E.

82.20 Intersect N. bdy. of Tp. at 1.94 chs. S.89°53'E. of the corner of secs. 5,6,31, and 32, heretofore described. I destroy all marks on this corner pertaining to secs. 5 and 6, and at the point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for C.C. for secs. 5 and 6, mkd. on brass cap

T 14 S S 31 in NW.,
R 9 E S 32 CC in NE.,
S 5 in SE., and
S 6 in SW. quadrant, and
T 15 S in S. half; dig pits, 24x18x12 ins. crosswise on each line, E. and W., 3 ft. dist., and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, mountainous and nearly level.

Soil, sandy and clay loam and stony; 1st and 3rd rate.

Timber, cedar and pinion pine.

A little grass for grazing.

Undergrowth, sage and shadscales.

Mountainous land, 45.00 chs.

Nov. 11, 1910: At this cor. I set off 17°19'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 39°33'N., or within 1' of the proper lat.

Nov.11, 1910.

Bdrs. of frac. T.15 S., R.9 E., included in Contract No. 317.

Latitudes, departures, and closing errors.

Line designated	Course	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
N.bdy.T.15 S.,R.9 E.	S.89°53'E.	317.33		0.64	317.33	
E.bdy.Sec.3	S.4°25'E.	41.81		41.69	3.22	
E.bdy.Sec.3	S.0°15'E.	40.30		40.30	0.18	
E.bdy.Sec.10	S.0°02'E.	40.08		40.08	0.02	
E.bdy.Sec.10	S.0°08'W.	40.32		40.32		0.09
S.bdy.Sec.10	N.88°46'W.	40.44	0.87			40.43
S.bdy.Sec.10	S.89°41'W.	40.54		0.22		40.54
S.bdy.Sec.9	S.86°53'W.	40.03		2.17		39.97
S.bdy.Sec.9	N.87°00'W.	40.59	2.10			40.53
S.bdy.Sec.8	N.89°14'W.	40.40	0.54			40.40
S.bdy.Sec.8	West	39.62				39.62
S.bdy.Sec.7	West	0.91				0.91
S.bdy.Sec.7	N.89°30'W.	40.28	0.35			40.28
S.bdy.Sec.7	S.89°44'W.	38.72		0.18		38.72
W.bdy.Sec.7	N.0°10'E.	79.31	79.31		0.23	
W.bdy.Sec.6	N.0°10'E.	1.67	1.67			
W.bdy.Sec.6	N.0°56'E.	40.17	40.16		0.65	
W.bdy.Sec.6	N.0°24'W.	40.46	40.46			0.28
Convergency					0.10	
Totals			165.46	165.60	321.73	321.77
				165.46		321.73
Error in lat				0.14		
Error in dep						0.04

GENERAL DESCRIPTION.

This fractional township, included in this survey, is generally very rough and broken, except in secs. 7 and 8, and occasional small tracts , where the ground is nearly level.These areas may be found suitable for dry farming operations; but the absence of good water for domestic supply will prove a great hindrance to such development.

General description of T.15 S., R.9 E.

Only one spring was found with water suitable for domestic supply; this is near the SE. cor. of Sec. 7.

One settler is in this frac. Tp.; M.A.Norman of Mt. Pleasant, Utah, was camped at the spring described in Sec. 7, and had worked at improving the same, and fencing it against livestock, with the view to using this water supply while plowing. Value of the improvement, $10.

The timber in this frac. Tp. is cedar and pinion pine, mainly of a scrubby growth, and of little value except for fuel and fence posts.

The undergrowth is sage, with some shadscale and greasewood.

Clarence S. Jarvis,
U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of .....

.....

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "E" T. 14 S., R. 9 E.

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

Subscribed and sworn to before me this ..... day of ....., 190

SEAL

.....

.....

6—151

BOOK A-372

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of deputy see book "E" T. 14 S., R. 9 E.

..... of the ..... meridian, in the ..... of ....., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....
United States Deputy Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 190 }

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 13, 1912 190-

The foregoing field notes of the survey of Fractional Subdivision and retracements and resurveys of Township No.15 South, Range No. 9 East of the Salt Lake Base and Meridian, Utah.

executed by Clarence S. Jarvis under his contract No. 317, dated January 15,1910 ~~190~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor General.

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

United States Surveyor General.