

# 1678

1678

BOOK 1678

F I E L D     N O T E S  
OF THE SURVEY OF THE  
5TH STANDARD PARALLEL NORTH THRU

Ranges 4, 5, 6, 7, 8, 9, 10, 11,  
12, 13, 14, 15, 16, 17, 18, 19,  
20, 21 & 22 W.

(See 5th Stand. Resurvey thru  
Rs. 6, 7, 8, 9, 10 E., & retracing  
thru Rs. 4 and 5 West.)

Gila and Salt River Base and  
Meridian,

ARIZONA.

By Omar H. Case, D. S., under  
Contract dated July 29, 1872.  
Survey commenced Nov. 25, 1872.  
Survey completed Dec. 7, 1872.

A

BOOK 1678

*Between Towns like Standard North.*

31	32	33	4	34	35	36
9	9	9	6	5	8	
31	32	33	5	34	35	36
16	15	14	15	12	11	
31	32	33	6	34	35	36
24	23	21	20	19	18	
31	32	33	7	34	35	36
30	29	29	28	27	26	
31	32	33	8	34	35	36
36	36	35	34	33	32	
31	32	33	9	34	35	36
42	42	42	40	39	38	
31	32	33	10	34	35	36
50	50	49	47	47	48	
31	32	33	11	34	35	36
60	59	58	56	55	54	
31	32	33	12	34	35	36
68	67	66	65	64	63	
31	32	33	13	34	35	36
75	74	73	72	71	70	
31	32	33	14	34	35	36
80	79	78	77	76	76	
31	32	33	15	34	35	36
88	87	86	84	83	82	
31	32	33	16	34	35	36
96	95	94	93	92	91	
31	32	33	17	34	35	36
105	104	103	102	100	99	
31	32	33	18	34	35	36
110	109	108	108	107	107	
31	32	33	19	34	35	36
116	115	114	113	113	112	
31	32	33	20	34	35	36
124	123	122	121	120	119	
31	32	33	21	34	35	36
129	129	128	127	126	126	
31	32	33	22	34	35	36
			133	132	131	

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BOOK 1678

5<sup>th</sup> Standard Parallel North  
(through)

S. Bely.	T21	N	R	4	W	2
"	"	"	"	"	5	W 11
"	"	"	"	"	6	" 18
"	"	"	"	"	7	" 26
"	"	"	"	"	8	" 32
"	"	"	"	"	9	" 38
"	"	"	"	"	10	" 46
"	"	"	"	"	11	" 54
"	"	"	"	"	12	" 63
"	"	"	"	"	13	" 70
"	"	"	"	"	14	" 76
"	"	"	"	"	15	" 82
"	"	"	"	"	16	" 91
"	"	"	"	"	17	" 99
"	"	"	"	"	18	" 107
"	"	"	"	"	19	" 112
"	"	"	"	"	20	" 119
"	"	"	"	"	21	" 126
"	"	"	"	"	22	" 130

S. Bely. T21 N R 4 W 2  
 " " " " " " 5 W 11  
 " " " " " " 6 " 18  
 " " " " " " 7 " 26  
 " " " " " " 8 " 32  
 " " " " " " 9 " 38  
 " " " " " " 10 " 46  
 " " " " " " 11 " 54  
 " " " " " " 12 " 63  
 " " " " " " 13 " 70  
 " " " " " " 14 " 76  
 " " " " " " 15 " 82  
 " " " " " " 16 " 91  
 " " " " " " 17 " 99  
 " " " " " " 18 " 107  
 " " " " " " 19 " 112  
 " " " " " " 20 " 119  
 " " " " " " 21 " 126  
 " " " " " " 22 " 130



O. H. Case, U.S. Deputy Surveyor

Field Notes

of  
5<sup>th</sup> Standard Parallel

boundary of Townships 21 North

of  
 Range No 4 West to the  
 Colorado River in Range 22  
West

Surveyed by Omar H. Case  
 U.S. Deputy Surveyor  
 under his contract of July  
 29<sup>th</sup> 1872

Survey commenced Nov: 25<sup>th</sup> 1872

Survey completed Dec: 7<sup>th</sup> 1872

No of Miles



5<sup>th</sup> Standard Parallel  
South boundary of Twp 21 North  
Range 4 West- BOOK 1678

From the closing cor to Twp  
20 North between ranges 3  
and 4 West I run

West along the 5<sup>th</sup> Standard  
Parallel

Ch Va 15<sup>o</sup> East

600 I established the Standard  
cor to Township 21 North range  
3 and 4 West by planting a  
post in a mound of stone as per  
instruction and properly  
inscribing thereon the Township  
Range Section and Latitude  
of point which I obtained by  
a meridional altitude of the sun  
on the 25<sup>th</sup> day of Nov: 1872  
the suns declination being  
20<sup>o</sup> 56.'04".6 the deduction for  
the observation showing a  
latitude of 34<sup>o</sup> 05' and 24"  
this latitude I set off on the

2 25<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 4 West

BOOK 1678

Ch

latitude arc of Burts  
improved Telescopic Solar  
Compass and proceeded to  
run and establish the 5<sup>th</sup>  
Standard Parallel as per  
instructions the divergency  
of a straight line or one run  
with fore and back sights  
from the Parallel will be  
25 links for a distance of  
miles or the side boundary  
of a Township - this divergency  
I obtained by a calculation  
of tangent angles of the 30<sup>th</sup>  
Parallel of Latitude therefore  
to counteract the tendency  
of the Standard line to  
leave a line parallel to the  
Parallel of Latitude I shall  
take an observation every  
mile I run as the divergency

5<sup>th</sup> Standard Parallel  
 South boundary of Township 21 North  
 Range 4 West

BOOK 1678

Ch is as follows per mile

1 <sup>st</sup>	mile divergency	0 links
2 <sup>nd</sup>	"	2 "
3 <sup>rd</sup>	"	5 "
4 <sup>th</sup>	"	11 "
5 <sup>th</sup>	"	17 "
6 <sup>th</sup>	"	25 "

From the corner to Sp 21  
 North Range 4 West I run  
 West on true line on the  
 South boundary of sec 36

At 15<sup>o</sup> East as per  
 Burts improved Solar Compass  
 2000 a canon bears N 0 chains  
 wide 4 feet deep

4000 Set a post in a mound with  
 puts for 1/4 Sec cor as per  
 instruction from which  
 a cedar 8 in dia bear N 20<sup>o</sup> E 34 links



4 5<sup>th</sup> Standard Parallel  
South boundary of T<sub>1</sub> 21 North  
Range 4 West

Ch  
6000 Steep bluff walls of a  
cañon bear N and S

6200 Partridge Creek runs south

6500 Steep walls of cañon bear N  
and S about 10 chains north  
the cañon comes from the E  
steep rugged walls almost  
impassible.

BOOK 1678

8000 Set a post in a mound of  
stone as per instruction for  
the Standard corner to Sec  
35 and 36 from which  
a Pinon in dia bear S 22° W 32 links  
no others near. Sand rough  
and broken by cañons  
Soil Volcanic scoriae  
Lumber scattered stunted  
cedars and Pinon

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 4 West

BOOK 1678

5

Ch West on true line on south  
boundary of Sec 35  
To 15<sup>th</sup> east

12,00 Begin ascent of high range  
of hills covered with dense  
growth of Cedars. general  
bearing of hills E and W

4,900 Set a post in a mound with  
pits as per instruction for  
1/4 Sec cor from which  
a Cedar 8 in dia bears S 18° E 40 lbs  
" " 10 " " S 31° W 28 "

6,00 Opposite side of hill bear N E  
and S. W.

7,800 Steep walls of canon bear N. W.  
and S. E. 40 feet high.

8,000 Set a Stone 18 x 10 x 8 in in a  
mound with pits as per instruction  
for the Standard corner to Sec  
34 and 35. No trees  
Land very much broken, soil

16 5 <sup>1/2</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 4 West

Ch Volcanic scoriae - Lumber  
Cedar

BOOK 1678

West on true line on South  
boundary of Sec 34  
Va 15<sup>th</sup> East

0,00 Partridge Creek flows N.W.  
10 links wide

8,00 Opposite wall of Canon 50  
feet high perpendicular  
ascent bear N.W. and S.

4,000 Set a stone 16 x 16 x 10 in in  
a mound of stone as per  
instruction for 1/4 Sec. 00T

4,300 Canon bear N.W. line crosses  
near the mouth of canon  
entering into Partridge Creek  
Canon

5,000 Point of bluff at mouth of  
Canon bear N.W.

5,200 Partridge Creek Canon bear



5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 4 West

BOOK 1678

Ch S.W. and N.

6000 Partridge Creek flows S.W. 100  
links wide.

6900 Opposite Wall of Partridge  
Canon bear S.W. & N.E. 60 feet  
high.

7300 Left Canon bear S.W.

7650 Road bear South to Chino Valley  
probably Lieut Whipples road  
or road of Railway Engineers

8000 Set a Stone 18x15x10 ins in a  
mound of Volcanic rock for  
the Standard corner to Sec 33  
and 34 = No trees = Land  
very much broken by canons  
Soil Volcanic Scoriae = No  
timber =

Nov: 25<sup>th</sup> 1872

West on true line on South  
boundary of Sec 33.

To 15 + 3' East

8 8 5 <sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 4 West

BOOK 1678	Ch 500	Canon bear S.E. and N.W.
	1200	Opposite side bear S.E. & N.W. wall about 20 feet high
	2300	Crossed proposed Railway line of 35 <sup>th</sup> Parallel.
	4000	Set a Stone 18 x 16 x 6 ins in a mound of stone as per instruction for 1/4 sec cor. - No trees near
	4800	arroyo flows S.E. 25 links wide
	6100	Trail bear N.E. and S.W.
	7075	arroyo flows S.E. 25 links wide
	7100	Begin ascent of hill 200 feet high red sandstone bear N.W. and S.E.
	8000	Set a Stone 30 x 10 x 10 ins in a mound with pits as per instruction for the Standard cor to Sec 32 and 33 - No trees, Sand rolling and broken by canons, Soil Volcanic Scoriae, No timber

5<sup>th</sup> Standard Summit  
South boundary of Tp 21 North  
Range 4 West

BOOK 1678

Ch West on true line on South  
boundary of Sec 32

Va 15 + 5' East

7,00 Summit of hill bear NW & S. Co.

9,00 Begin descent

30,00 Foot of hill and entered Churio  
Valley bear NW and S. Co.

40,00 Set a Stone 20 x 16 x 14 ins in  
a mound with pits as per  
instruction for 1/4 Sec cor

No trees

8,000 Set a Stone 10 x 8 x 6 ins in a  
mound with pits as per  
instruction for the Standard  
Cor to Secs 31 and 32 = No trees

Land mostly level, Soil  
1<sup>st</sup> and 2<sup>nd</sup> rate = No timber

West on true line on South  
boundary of Sec 31

Va 15 + 5' East



10

5<sup>th</sup> Standard Parallell  
 South boundary of Twp 21 North  
 Range 4 West

Ch  
 4000

BOOK 1678

8000

Set a post in a mound with  
 pits as per instruction for 1/4  
 Sec cor = No trees

Set a Stone 18x14x10 ins in  
 a mound with pits as per  
 instruction for the Standard  
 Cor to Secs 31 and 36 and  
 of Twp 21 North between  
 ranges 4 and 5 West =

Land level, Soil 1<sup>st</sup> rate  
 No timber =

General Description of  
 Township 21 North Range 4  
 West contains but a very  
 small quantity of arable  
 land probably about 2 or 3  
 Secs the remainder of the Twp  
 lies wholly in the Black  
 mesa mountains =

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5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 4 West

BOOK 1678

General Description of

Tp 20 North Range 4 West  
about  $\frac{1}{2}$  of this Tp contains  
fine arable land lying in  
Chino Valley - Partridge  
Creek runs through this Tp  
from N. to in Sec 4 to Sec 8  
thence S. to through Tp

Quinn Release Def. Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 5 West

Ch West on true line on South  
boundary of Sec 36

Va 15<sup>th</sup> East

4000 Set a post in a mound with  
pegs as per instruction for  $\frac{1}{4}$   
Sec. cor. - No trees

8000 Set a post in a mound with  
pegs as per instruction for the

5<sup>th</sup> Standard Parallel  
 South boundary of Tp 21 North  
 Range 5 West

Ch Standard corner to Sec 35  
 and 36 = No trees =  
 Land level, Soil 1<sup>st</sup> rate =  
 No timber = red sandstone  
 bluffs about 3 miles North

BOOK 1678

West on true line on South  
 boundary of Sec 35.

Go 15<sup>th</sup> East

4000 Set a stone 10x10x10 ins in a  
 mound with pits as per  
 instruction for 1/4 sec cor  
 No trees.

5300 Entered little Lagoon dry  
 bed bear N.W. and S.E.

7500 Little dry creek flows S.E.  
 20 links wide.

8000 Set a stone 12x10x6 ins in a  
 mound with pits as per  
 instruction for the standard  
 cor: to Sec 34 and 35. Land



5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 5 West

13

BOOK 1678

Ch level = Soil 1<sup>st</sup> rate = No  
timber.

West on true line on South  
boundary of Sec 34  
Va 15<sup>th</sup> East.

2100 Entered mesa lands bear  
N. W. and S. E.

2700 Wagon road an old trail bear  
N. W. and S. E.

4000 Set a stone 18 x 16 x 14 ins in a  
mound of stone as per instruction  
for 1/4 Sec cor: No trees

8000 Set a stone 10 x 10 x 6 ins in a  
mound with putz as per  
instruction for the Standard  
cor to Sec 33 and 34. No trees  
Land gently rolling = Soil 2<sup>nd</sup>  
rate = No timber.

I obtained a meridian  
altitude of the Sun at this

14  
14  
5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 5 West

BOOK 1678

Ch corner.  
Sun's declination  $21^{\circ} 07' 23''$   
Find the latitude to be  $35^{\circ}$   
 $5' 24''$   
Nov. 26<sup>th</sup> 1870

West on true line on South  
boundary of Sec 33  
Va  $15^{\circ}$  east

3300 Road of Railroad Surveyors  
bear N.W. S to.

4000 Set a stone  $18 \times 16 \times 12$  in in  
a mound with pits as per  
instruction for 1/4 Sec cor  
No trees -

8000 Set a post in a mound with  
pits as per instruction for the  
Standard cor. to Secs 32 and  
33, from which  
a cedar 16 in dia bear  $S 32^{\circ} 15' 07''$   
line - no others near -  
Land gently rolling, soil

5<sup>th</sup> Standard Parallel 415  
South boundary of Sp 21 North  
Range 5 West BOOK 1678

Ch 2<sup>nd</sup> rate = No timber =

West on true line on South  
boundary of sec 32.

Ca 15° East

4,00 Entered cedar timber bear  
N. and S.

20,00 Begin ascent of N end of  
Juniper mountain bear N.W. & S.E.

40,00 Set a stone 16 x 16 x 16 ins in a  
mound of stone as per instruction  
for 1/4 sec cor from which  
a Cedar 18 in dia bear N. 30° E 16 links

" " 4 " " " 189° E 9 "

43,00 Begin descent into ravine bear  
N. E.

53,00 Foot of hill bear N. E. S.W. and  
entered little Valley =

70,00 Begin ascent of another spur  
bear N. E. and S.W.

80,00 Set a stone 18 x 8 x 8 ins in a



116 5<sup>th</sup> Standard Parallels  
South boundary of Sp 21 North  
Range 5 West

BOOK 1678

Ch mound of stone as per  
instruction for the Standard  
cor to Secs 31 and 32 from which  
a Pinon 18 in dia bear North 25 lbs  
No others near - Sand hilly  
soil 3<sup>rd</sup> rate, Timber Cedar

West on true line on South  
boundary of Sec 31

Ya 15° 6' East

2000 Summit of range of Juniper  
mountains

2200 Begin descent bear N.W. and  
left Cedar timber

3000 Foot of range and entered Valley  
bear N and S

4000 Set a post in a mound with  
pins as per instruction for 1/4  
Sec cor from which  
a Cedar 10 in dia bear N 5° 6' 18' like  
" " 8 " " " N 20° W 27 "

5<sup>th</sup> Standard Parallel  
South boundary of Sp. 21 North  
Range 5 West

BOOK 1678

Ch  
75,00 Little Valley bear North  
78,00 Opposite side bear North  
8000 Set a Stone 36 x 18 x 16 in in  
a mound of stone as per instruction  
for the Standard cor to Sec 21  
and 36 and of Sp 21 North  
between ranges 5 and 6 West  
No trees near = Sand hilly  
and broken, Soil 2<sup>nd</sup> rate  
Lumber Cedar on East end  
of line and on West end of  
Valley =

General Description of  
Sp 21 N. Range 5 W. contains  
a large amount of arable  
land probably  $\frac{2}{3}$ <sup>ds</sup> of the  
Sp the N. W. portion is broken  
by the Black mesa mountains  
and the S. W. by the Juniper  
mountains the line of the

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 5 West

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35 Parallel Railroad as  
surveyed runs through Chinio  
Valley - I was unable to  
find the stakes of the road  
in crossing Chinio Valley

Quar H Case Dep Surveyor

General description of  
Sp 20 North Range 5 West  
the arable land in this  
Sp lies to of juniper mt<sup>s</sup>  
and is exceedingly good  
farming land.

Quar H Case Dep Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 6 West

West on true line on south  
boundary of Sec 36

Ch Va 15<sup>th</sup> 8' east as per  
Burt's improved solar compass  
4000 set a post in a mound of stone as



5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 6 West BOOK 1678

Ch per instruction for 1/4 Sec cor  
from which -  
a Cedar 10 ins dia bear N90°W 60 lks  
8000 Set a Stone 20x16x8 ins in a  
mound of stone as per instruction  
for the Standard corner to Sec  
35 and 36 from which  
a Cedar 16 in dia bear S85°W 285 lks  
No others near - Land gently  
rolling, Soil 1<sup>st</sup> and 2<sup>nd</sup> rate  
Some scattering Cedars South  
of line - Spire of juniper  
mountain lie south - open  
Valley North -

West on true line on South  
boundary of Sec 35.

To 15<sup>th</sup> 8' East

4000 Set a Stone 20x10x10 in a  
mound of stone as per instruction  
for 1/4 Sec cor, No trees

1820  
5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 6 West

Ch  
4400 Head of Canon bear W.S.W.  
5000 Opposite mouth of Canon bear S  
6000 Canon turns N.W. 50 ft deep  
6300 Opposite side of Canon  
8000 Set a Stone 30 x 12 x 10 ins in  
a mound of stone as per instruction  
for the Standard cor to sec  
34 and 35 from which  
a Cedar 8 in dia bear S40° E 200 ft  
no others near. Land rolling  
and broken, Soil Volcanic  
Scoriae 2<sup>nd</sup> and 3<sup>rd</sup> rate  
Lumber scattered Cedar -  
Land North open valley  
South hilly -

West on true line on South  
boundary of Sec 34

To 15° 9' East

Begin ascent of hill at corner

500 Summit

BOOK 1678

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range to West

BOOK 1678

- Ch
- 2100 Foot of hill an arroyo flows  
N to dry bed 50 links wide
- 2600 Begin ascent of hill 20 feet high  
bear N and S. E.
- 4000 Set a Stone 18 x 16 x 8 ins in a  
mound of stone as per instruction  
for 1/4 sec cor = No trees
- 4300 Summit and begin descent  
bear N. W. and gently sloping.
- 8000 Set a Stone 30 x 16 x 8 ins in a  
mound of stone as per instruction  
for the standard cor to Secs  
33 and 34 = No trees near  
Land mostly gently sloping  
West. Soil 2<sup>nd</sup> rate = no timber  
a fine valley lying North  
Spurs of Juniper mt. South
- Nov. 26<sup>th</sup> 1872

West on true line on South  
boundary of Sec 33  
Va 15 + 8' East



5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 6 West

- Ch  
1800 Entered little Valley bear N.W.  
34,50 Little Creek 10 links wide  
flows N.W. dry bed  
36,50 Same little creek flows S.W.  
10 links wide, dry bed  
4000 Set a post in a mound  
with pits as per instruction  
for 1/4 Sec cor. No trees  
41,50 Little Creek dry bed flows  
N.W. 10 links wide =  
4300 Left Valley entered mesa  
lands bear N.W.  
8000 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Sec 32 and  
33 = No trees = Land gently  
rolling = Soil 1<sup>st</sup> and 2<sup>nd</sup>  
rate = No timber =

BOOK 1678

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 6 West

BOOK 1678

230

Ch West on true line on South  
boundary of Sec 32 -  
Va 15° 8' East

4,00 Begin ascent of hill 50 feet  
high bear N.W.

14,00 Summit of hill

24,00 Foot of hill bear N.W. and S.E.

40,00 Set a post in a mound with  
pits as per instruction for 1/4  
sec cor from which

a cedar 10 in dia bear S 200 links

No other trees =

80,00 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 31 and  
32 = No trees near.

Land gently rolling = Soil  
1<sup>st</sup> and 2<sup>nd</sup> rate = no timber

5<sup>th</sup> Standard Parallel  
South boundary of Twp 21 North  
Range 6 West

BOOK 1678

Ch West on true line on south  
boundary of Sec 31  
Va 15° 8' East

2400 Entered mesa lands bear N  
and S for about 40 chains N  
of line then mountains bear  
N. E., mountains covered  
with dense growth of cedar

4000 Set a stone 12 x 12 x 6 ins in a  
mound of stone as per instructions  
for 1/4 sec cor - from which  
a cedar 6 in dia bear E 12 links

7000 Divide bear N and S - south  
face of divide an abrupt wall  
200 feet above Valley

8000 marked a cedar 5 in dia for  
the Standard cor to Sec  
31 and 36 and the cor to Twp  
21 North between ranges 6  
and 7 West, Land hilly  
and mountainous = Soil



5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range to West

BOOK 1678

3<sup>rd</sup> rate = Lumber Cedar =

General Description  
of Sp 21 North Range to West  
contains a considerable  
quantity of arable land, the  
precise amount I am unable  
to judge. It is well  
timbered with Cedar & Pinon

Onas H Case Dep Surveyor

General Description  
Sp 20 North range to West  
is almost entirely covered  
by juniper mountains it is  
well timbered with juniper  
Cedar and Pinon.

Onas H Case Dep Surveyor

26 5<sup>th</sup> Standard Parallel  
South boundary of T<sub>p</sub> 21 North  
Range 7 West

BOOK 1678

- Ch West on true line on South boundary of Sec 36  
Va 15<sup>th</sup> 9' East  
Begin descent of little spur at corner
- 2000 Summit
- 3300 ravine bears North
- 4000 Set a Stone 20x16x4 ins in a mound of stone as per instruction for 1/4 Sec cor from which a Pinon 10 in dia bear S 89° E 4 1/2 W
- 4300 Gulch bear N. E.
- 4600 Left Gulch bear N. E. and entered mesa.
- 5000 marked a cedar 12 in dia as per instruction for the Standard cor to Sec 35 & 36  
Sand hilly and broken soil poor = Timber cedar and Pinon =

5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 7 West

BOOK 1678

Ch West on true line on south  
boundary of sec 35

Via 15° 9' East

4000 marked a Pinon *Quercus asper*  
instruction for 1/4 sec cor

6000 Dry gulch bearing S. E.

6200 High red sandstone peak  
North of line 20 chains.

6300 Flat top hill south 20 chains.

7800 Gulch running E. S. E.

8000 marked a sandstone boulder

3 feet square and built a  
mound of stone upon it as  
per instruction for the  
Standard cor to sec. 34 and

35 = Sand very much broken  
Soil decomposed sandstone  
and Volcanic scoriae

Timber cedar



28 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 7 West

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Ch West on true line on South  
boundary of Sec 34  
Val 159' east

1300 Summit of Divide between the  
sandstone Buttes bear S and S.

2000 Entered head of Valley, line  
follows down Valley low  
range of hills S and S.

4000 Set a stone  $30 \times 10 \times 4$  ins in  
a mound of stone as per  
instruction for  $\frac{1}{4}$  sec cor. No  
trees

8000 Set a stone  $24 \times 18 \times 4$  ins in a  
mound of stone as per instruction  
for Standard corner to Secs  
33 and 34 from which  
a Cedar 4 in dia bear  $S40^{\circ}$  to  $N40^{\circ}$  W  
No others near - Sand gently  
sloping West, soil 2<sup>nd</sup> rate  
Timber Cedar on hills S and  
S.

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
range 7 West

BOOK 1678

Ch West on true line on South  
boundary of Sec 30.

Yd 15<sup>+</sup> 9' East

2000 Crossed little ravine bear N.W.

4000 Set a post in a mound with  
pits as per instruction for 1/4  
Sec cor. No trees

8000 Set a post in a mound with  
pits as per instruction for  
Standard cor to Secs 32 and  
33 No trees near. Land  
sloping West along line  
Hilly N and S = Soil 2<sup>nd</sup>  
rate = Lumber Cedar on hills

West on true line on South  
boundary of Sec 30

Yd 15<sup>+</sup> 9' East

600 Entered Cedar timber

1300 " Little Valley and  
left Cedar timber bear N.W.

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 7 West

ch

4000 Set a post in a mound with  
pits as per instruction for 1/4  
Sec cor = No trees near - an  
Oak bush 50 links S of cor:

4900 Entered Cedar timber bear  
N. and S.

8000 Set a Post in a mound with  
pits as per instruction for  
the Standard cor to Secs  
31 and 32 from which  
a Cedar 10 in dia bear S 30° W 40 W  
" " 10 " " " E 112 links

No others near - Land gently  
rolling along line, Soil  
2<sup>nd</sup> rate = Timber Cedar  
rolland land South table  
land North.

West on true line on South  
boundary of Sec 31  
Ed 15° 9' East



5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 7 West

BOOK 1678

- Ch  
3,30 Left Cedar timber bear N.E.S.  
4,000 Set a post in a mound with  
futs as per instruction for  
1/4 sec cor. No trees near  
4,700 Begin ascent of mesa bear  
N.W.  
7,000 Summit bears N.W.  
8,000 Set a stone 12 x 10 x 8 in  
in a mound of stone as per  
instruction for the Standard  
cor to Secs 31 and 35 and of  
Tp 21 North Range 7 & 8 West  
from which  
a Cedar 18 in dia bear 675 links  
Sand rolling soil 2<sup>nd</sup> rate  
Lumber scattering Cedar.

General Description  
of Township 21 North Range  
7 W, The land in this Tp  
is very much broken by

5<sup>th</sup> Standard Parallel  
South boundary of T<sub>2</sub> 21 North  
Range 7 West

BOOK 1678

mountains and mesa lands  
it is well timbered with  
Cedar and Pinon

Omar H. Case Dep. Surveyor

General Description  
of T<sub>2</sub> 20 N. Range 7 W. In  
the Northern portion of this  
T<sub>2</sub> the land is rolling -  
the hills are pretty generally  
covered with Cedar - the  
Southern portion opens out  
into large table lands -

Omar H. Case Dep. Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of T<sub>2</sub> 21 North  
Range 8 West

West on true line on South  
Boundary of Sec 36

Ch Va 15<sup>o</sup> 5' East

800 Foot of Spur bears North

5<sup>th</sup> Standard Parallel  
South boundary of T<sup>1</sup> 21 North  
Range 8 West

BOOK 1678

Ch  
2600 arroyo bear N and S 10 links wide  
4000 marked a cedar 14 ins dia as  
per instruction for 1/4 sec cor  
8000 set a stone 24 x 12 x 4 ins in  
a mound of stone as per  
instruction for the standard  
cor to sec 35 & 36 from which  
a grease wood 6 ins dia bear N 12 the  
" " " " " " " N 10<sup>th</sup> W 36 "  
No others near = Land gently  
rolling = Soil 2<sup>nd</sup> and 3<sup>rd</sup>  
rate = Timber mostly cedar.

West on true line on South  
Boundary of sec 35

1/4 15<sup>th</sup> 5 East

600 Entered level lands bear N & S  
2800 Left level lands bear N & S  
4000 marked a cedar 4 ins dia  
as per instruction for 1/4 sec cor  
from which a cedar 12 ins



34

5<sup>th</sup> Standard Parallel  
 South boundary of Sp 21 North  
 Range 8 West

BOOK

1678

- ch dia bear S 34° 4' 10 links  
 4,600 Indian trail bears N. 6° S. W.  
 5,000 arroyo flows N. 6° 10 lbs wide  
 8,000 marked a Cedar 18 in dia  
 as per instruction for the  
 Standard cor to Secs 34 & 35  
 No others near, Land rolling  
 Soil poor - Timber Cedar -

West on true line on south  
 boundary of Sec 34

4a 15° 5' east

- 4,000 Set a Stone 16 x 10 x 8 ins in a  
 mound of stone as per instruction  
 for 1/4 sec cor from which  
 a Pinon 8 in dia bear N 37<sup>1</sup>/<sub>2</sub> W 36 links  
 7,300 Entered little Valley bear N. & S  
 8,000 Set a post in a mound with  
 pits as per instruction for the  
 Standard cor to Secs 33 & 34  
 No trees, Land gently

5<sup>th</sup> Standard Parallel  
South boundary of T<sub>1</sub> 21 North  
Range 8 West

35

BOOK 1678

Ch rolling - soil 3<sup>rd</sup> rate - Lumber  
scattering cedar.

Nov 27<sup>th</sup> 1872

Went on true line on South  
boundary of sec 33

Ca 15° 5' east

5,000 Left Valley entered mesa lands

4,000 Set a Stone 10x10x10 ins in  
a mound of stone as per  
instruction for 1/4 Sec cor  
No trees

5,200 Entered Valley bear S.W. & S.E.

8,000 Set a Post in a mound with  
pits as per instruction for the  
Standard cor to sec<sup>s</sup> 32 & 33  
No trees, Land rolling - soil  
poor on east end better on  
West - Lumber Cedar on east  
end of line

36 5<sup>th</sup> Standard Parallel  
South boundary of T<sub>1</sub> 21 North  
Range 8 West

BOOK 1678

Ch West on true line on South  
boundary of Sec 32  
Va 15° 5' <sup>east</sup> West

4000 Set a post in a mound with  
pik's as per instruction for 1/4  
Sec cor. No trees near.

8000 marked a Cedar 20 ins dia  
asper instruction for the  
Standard cor to Secs 31 & 32  
No others near. Land level  
Soil 1<sup>st</sup> and 2<sup>nd</sup> rate  
Timber Cedar south none  
North

West on true line on South  
boundary of Sec 31  
Va 15° 5' east

4000 Set a stone 10x10x6 ins in  
a mound with pik's as per  
instruction for 1/4 Sec cor  
No trees =



5<sup>th</sup> Standard Parallel  
South boundary of Sp. 21 North  
Range 8 West

37

Ch

BOOK 1678

46,00 Entered Cedars bear N. W.

80,00 Set a Stone 13 x 12 x 10 ins and  
marked a little cedar 3 in  
dia as per instruction for  
the Standard cor to Secs  
31 and 36 - and the cor  
to Sp. 21 North Range 8  
and 9 West.

General Description

Sp. 21 N. Range 8 W. contains  
considerable arable lands  
from Sec 35 to the West  
boundary of Sp it is well  
timbered = mostly with  
Cedars and Pinon = the soil  
is generally 2<sup>nd</sup> rate and  
well adapted for grazing

Omar H. Case  
Dep. Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 8 West

BOOK 1678

General Description  
of Township 20 North range  
8 West most of this Sp is  
open table lands well  
adapted for grazing - the  
timber is cedar and Pinon  
the soil is of Volcanic origin  
Omar H. Case Sep. Survey

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 9 West

West on true line on South  
boundary of Sec 36

ch Va 15° 5' East

35,00 Bluff overlooking Valley  
bear N. & S. left cedars

37,00 Foot of Bluff

40,00 Set a Stone 14 + 8 + 8 in a  
mound with pits as per

5<sup>th</sup> Standard Parallel  
South boundary of 3<sup>d</sup> of North  
Range 9 West

BOOK 1678

Ch instruction for 1/4 sec cor  
No trees -

5000 Entered Cedars bear N. & S

8000 Set a Stone 16 x 8 x 8 ins in a  
mound of stone as per instructions  
for the Standard Cor. to Secs  
35 and 36 from which a  
bunch of Cedars bear North  
20 links - No others near -  
Sand rolling - Soil 1<sup>st</sup> and  
3<sup>d</sup> rate - Timber Cedar -

West on true line on South  
boundary of Sec 35

To 15 + 5' east

4000 Set a Stone 10 x 10 x 10 ins in  
a mound with pits as per  
instruction for 1/4 sec cor  
from which

a Pinon 4 in dia bear S 45° E 35 links

8000 Set a Stone 16 x 10 x 10 ins in



5<sup>th</sup> Standard Parallel  
South boundary of Twp 21 North  
Range 9 West

BOOK 1678

Ch a mound with pits as per  
instruction for the Standard  
cor to Secs 34 and 35 from  
which a Mulberry 6 mi dia  
bear North 6 links a Pinon  
8 mi dia bear S 10° 6 100 links  
Sand rolling, soil poor  
Timber Cedar.

West on true line on South  
boundary of Sec 34  
Va 15° 5' East

4000 Set a Stone 12 x 12 x 12 mi in  
a mound of stone as per instruction  
for 1/4 Sec cor from which  
a Cedar 6 mi dia bear North 15 lks  
" " " " " N 89° W 15.

8000 Set a Stone 14 x 8 x 8 mi in  
a mound of stone as per instruction  
for the Standard Cor to Secs 33  
and 34 from which

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 9 West

BOOK 1678

Ch a greasewood & india bear N40° 620 lbs  
Sand rolling - Soil 2<sup>nd</sup> rate  
Timber Cedar and Pinon

West on true line on South  
boundary of Sec 33 -

1/4 a 15° 5' east

1000 Begin ascent of hill bear North  
300 feet high -

3000 Summit and begin descent  
West slope clothed with dense  
growth of Cedar -

4000 marked a Cedar & india as  
per instruction for 1/4 sec cor

5700 Valley bear S.W. and foot of  
hill

6500 arroyo flows South 10 links wide

6800 Begin ascent of Cross mountain  
or spur bearing South

8000 Set a Stone 30 + 24 + 20 in in  
a mound of stone as per

5<sup>th</sup> Standard Parallel  
South boundary of T<sub>2</sub> 21 North  
Range 9 West

Ch  
BOOK 1678

instruction for the Standard  
cor to Sec. 33 and 32 = No  
trees = Land hilly = Soil  
3<sup>rd</sup> rate = Timber Cedar  
on West side of spur =  
Cross mountain about 12  
chains N. to bluff bear S.W.

West on true line on South  
boundary of Sec 32  
Ta 15° 15' East

18,00 Top of spur bear South  
Cross mountain 8 chains North  
bear S.W. 700 feet high  
Walls perpendicular.

27,00 Begin descent bear S.W. & S.E.

36,00 arroyo flowing South from  
mountain

40,00 Set a stone 36 x 24 x 10 in. w.  
a mound of stone as per  
instruction for 1/4 Sec cor.



5<sup>th</sup> Standard Parallel

43

South boundary of Sp 21 North  
Range 9 West

BOOK 1678

- Ch  
4600 Arroyo runs S. 10 links wide  
4700 Left cross mountain N. W.  
Entered rocky mesa  
7500 Watercourse in ravine runs South  
7800 " " " " " S. 6  
8000 Set a Stone 24 x 12 x 4 in in  
a mound of stone as per  
instruction for the Standard  
Cor. to Sec 32 and 31 - No trees  
Land broken and hilly  
No soil - No timber =

West on true line on South  
boundary of Sec 31  
Va 15<sup>o</sup> 15' East

- 08,00 Arroyo runs South  
4000 Set a Stone 12 x 10 x 4 in a  
mound of stone as per instruction  
for 1/4 Sec cor - round Cedar  
2 links East =

59,00 Begin descent from mesa N. W.

5<sup>th</sup> Standard Parallel  
 South boundary of T<sub>p</sub> 21 North  
 Range 9 West

Ch

6800 Foot of hill entered red mesa  
 land.

8000 Set a Stone 24 x 20 x 20 ins in  
 a mound of stone as per instruction  
 for the Standard cor to Sec  
 31 and 36 and of T<sub>p</sub> 21 North  
 Range 9 and 10 West  
 from which a Cedar 4 ins  
 in dia bears S 30° E 28 links  
 a Cedar 8 in dia bear East 35.  
 Sand broken - Soil worthless

At the Standard cor of Sec  
 32 and 33 - I obtained a  
 meridian altitude of the Sun  
 Sun's declination 21° 27' 50"  
 I find the Latitude to be  
 35° 5' 24"

5<sup>th</sup> Standard Parallel  
with boundary of Sp 21 North  
range 9 West BOOK 1678

General Description  
of Township 21 North range  
9 West = The arable land in  
this township lies E and  
S. E of Cross mountain =  
Cross mt and its Spurs are  
in Secs 31, 32, 33 & 34 There is  
considerable timber in the S E  
& E portion = Cedar & Pinon  
soil 2<sup>nd</sup> rate = good grazing  
C. W. H. Case S. P. Surveyor

General Description  
of Sp 20 North range 9 West  
The N.W. portion is covered  
with low hills Spurs of Cross  
mt. and the remainder of the  
Sp are level table lands = Several  
streams head in this Sp the muddy  
Trout Creek &c = Soil is of  
Volcanic formation = Timber scarce  
C. W. H. Case S. P. Surveyor



5<sup>th</sup> Standard Parallel  
 South boundary of Sp 21 North  
 Range 10 West

Ch 1678  
 BOOK

West on true line on South  
 boundary of Sec 34  
 Va 15<sup>th</sup> 18<sup>th</sup> East

5,50 arroyo runs S. E 10 links wide

4,000 Set a Post in a mound of stone as  
 per instruction for 1/4 sec cor  
 No trees

58,00 Begin ascent of hill 40 feet high  
 bear N. W. S. E.

69,00 Summit and begin descent 200 feet

77,00 Hardyville road about 10 chains  
 South bear West

8,000 Set a Stone 16 x 14 x 10 ins in a  
 mound of stone as per instruction  
 for the Standard cor to Sec 35  
 and 36 - No trees - Sand rolling  
 Soil worthless - Some cedars  
 North of line -

5<sup>th</sup> Standard Parallel  
South boundary of T<sup>2</sup> 21 North 47  
Range 10 West

BOOK 1678

Set West on true line on South  
boundary of Sec 35  
Va 15<sup>+</sup> 19' East  
Foot of hill

23,00 Entered Valley bear N. 6. S. W.

28,00 Trail bears N. 6. S. W.

4,000 Set a Post in a mound with  
pits for 1/4 Sec cor. No trees

8,000 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Sec 34 and 35  
from which

a Cedar 24 mi bear N 86<sup>+</sup> 65 1/2 the  
No others near.

Sand mostly level - Soil 2<sup>nd</sup> rate  
Some scattering cedars.

West on true line on South  
boundary of Sec 34

Va 15<sup>+</sup> 19' East

31,00 Trail bear North

48 5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 10 West

BOOK 1678

- | Ch    | th   |
|-------|--|
| 36,00 | Summit of little hill with<br>aztec ruins 50 links North of line   |
| 40,00 | Set a Stone 10x10x10 ins volcanic<br>Secundæ as per instruction in a<br>mound of same for 1/4 Sec cor<br>No trees. |
| 50,50 | Reef of Sandstone rocks 100 links<br>wide bear N. & S.   |
| 55,00 | another Reef bear N. & S.  |
| 60,00 | other side bear N. & S.  |
| 64,00 | Spring 3 chains South  |
| 64,00 | Fort Rock ranche and House<br>40 chains South  |
| 6800  | Hardyville Road bear North   |
| 71,00 | Fort Rock creek flows S. to 30<br>links wide.  |
| 74,00 | Entered bottom land bears<br>S. to N. W.   |
| 8,000 | Set a post in a mound with<br>pits as per instruction for  |



5<sup>th</sup> Standard Parallel  
South boundary of T<sub>20</sub> 21 North  
Range 10 West

BOOK 1678

Ch the Standard cor to Secs 33  
and 34. No trees near.

Land rolling, soil 1<sup>st</sup>  
and 2<sup>nd</sup> rate, some timber  
on foot hills.

Nov<sup>r</sup> 28<sup>th</sup> 1870

West on true line on South  
boundary of Sec 33.

Wa 15° 05' east

1000 Crossed point of rocky hill  
bear N. W.

2500 Entered rocky mesa bear S. E. N. W.

4000 Set a stone 10 x 10 x 10 ins in a  
mound with pits as per  
instruction for 1/4 sec cor  
from which

• a cedar 16 ins dia bear N 8 1/2° E 45 ft

5800 Ravine bears South

6500 Begin descent into ravine bear S. E.

6700 Gulch

7000 opposite side bear S. E.

5<sup>th</sup> Standard Parallel  
 South boundary of Sp 21 North  
 Range 10 West

Ch

7400 Canon 30 feet deep bears South.

7500 opposite side.

8000 Set a Stone 30 + 30 + 30 ins in a  
 mound of stone as per instructions  
 for the Standard cor to Sec 30,  
 and 33 = No trees

Sand hilly - Soil conglomerate  
 rock except in Fort-rock Valley  
 1<sup>st</sup> rate.

BOOK 1678

West on true line on the South  
 boundary of Sec 30 =

To 15<sup>th</sup> 9' East

500 Begin descent into hollow bear  
 S. E.

900 opposite side

2000 Begin ascent of hill <sup>Sec 30</sup> N. W. S. E.

2800 Summit

3800 One of the Buttes called the  
 Swine South of the line about  
 1/2 a mile =

South boundary of Sp 21 North  
range 10 West

BOOK 1678

Ch

4,000 Set a Stone 14 x 8 x 8 ins in a  
mound of stone as per instruction  
for 1/4 Sec cor

5,500 Begin descent bear N. E. S. W.

6,000 Foot of hill bear N. E.

6,800 Entered cedars N. E.

7,000 Left cedars bear N. E. entered  
Granite Boulders -

8,000 marked a Granite Boulder  
5 ft x 3 ft x 2 ft as per instruction  
for the Standard cor to Sec  
30 and 31 = No trees = Land  
broken and hilly = Soil  
volcanic and granite formation

West on true line on the South  
boundary of Sec 31

Go 15<sup>0</sup> 9' east

Begin descent into ravine at cor:

500 Centre of ravine bear N. E.

1,000 Second Sister Butte South 1/2 mile



5<sup>th</sup> Standard Parallel  
 South boundary of T<sub>1</sub>P 21 North  
 Range 10 West

Ch

3400 Third Sister Butte South  $\frac{1}{2}$  mile

4000 marked a granite Boulder 4 ft

+ 4 ft + 4 ft as per instruction

for  $\frac{1}{4}$  sec cor and built a

mound of stone thereon. No trees

4200 opening among the granite  
 boulders bear N. E.

4500 opposite side bear N. E.

5200 Begin ascent of mesa

6600 Summit of mesa

7500 Begin descent bear N. E.

8000 marked a granite boulder 40 x

x 36 x 20 feet as per instruction

for the Standard cor to Sec 21

and 36 and T<sub>1</sub>P 21 N. R 10 and

11 W. and built thereon a

monument of stone

Land broken and rocky

soil worthless. Timber None

South boundary of Tp 21 North  
Range 10 West

BOOK 1678

61

General Description of  
Tp 21 North range 10 West

There is some arable land in  
this Tp on Fort Rock creek -  
the eastern and western  
portions are broken by  
mountain Ranges - aquarius  
mountains on the West and  
Cross mt<sup>s</sup> on the East - the  
timber is scattering and is  
mostly cedar

Omar H. Case Dep Surveyor

General Description of  
Tp 20 north range 10 West

There is some arable Land in  
this Tp on Fort rock creek  
and some farms under  
cultivation In the West portion  
are the aquarius mt<sup>s</sup> the East  
rolling lands

Omar H. Case Dep Surveyor

- Ch. West on true line on South  
boundary of Sec 36  
Sec 15<sup>th</sup> 08' East
- 11,00 Foot of hill and ravine N.E.
- 13,00 Ravine bear N. E. E.
- 21,00 Summit of hill bear N.E. S.W.
- 3000 Line runs along N. Slope of hill  
Range of mountains North 20  
chains parallel
- 4000 Set a stone 12 x 12 x 12 ins in a  
mound of earth and stone  
with pits as per instruction  
for 1/4 Sec cor = No trees
- 4800 Line runs along South Slope of mt.
- 5800 Begin descent towards West
- 7800 Foot of mountain bear N. & S.
- 8000 Set a stone 18 x 8 x 4 ins in a  
mound of stone as per instruction  
for the Standard cor to Secs  
35 and 36 = No trees  
Land very broken = Soil worthless



5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 11 West

BOOK 1678

Ch No timber.

West on true line on the South  
boundary of Sec 35

To 15<sup>th</sup> 09' east

- 0.10 East branch of Cottonwood  
Creek flows N.W. 15 links wide
- 1.00 Begin ascent of a spur bearing  
North
- 2.00 Cedar tree near line wide spreading
- 19.00 Summit of spur
- 22.00 Ravine flows North 10 links wide
- 23.00 Begin ascent of steep mesa 400  
feet high bear N & S.
- 36.00 Summit bears N.W.
- 40.00 Set a Stone 16 x 14 x 8 ins in a  
mound of stone as per instruction  
for 1/4 sec cor - No trees
- 46.00 Begin descent from mesa bear  
N. and S.
- 80.00 Set a Stone 18 x 18 x 16 ins in

5<sup>th</sup> Standard Parallel  
 South boundary of Tps 21 North  
 Range 11 West

BOOK 1678

Ch a mound of stone as per instruction  
 for the standard cor to Secs  
 34 and 35 - a dry cedar  
 16 ins dia bear S 40° E 75 links  
 No other near - Land broken  
 Soil worthless

West on true line on the South  
 boundary of Sec 34

To 15<sup>th</sup> 08' east

- 2,00 Ravine bears N.W. and foot of  
 mesa
- 2,75 Begin descent of spur of mesa  
 bear N.W.
- 10,00 Summit of spur bear N.W. -
- 20,00 Begin descent into ravine "
- 22,00 Gulch bear North and entered  
 Valley of East Fork of Cottonwood
- 4,000 Set a stone 14 x 8 x 6 ins in  
 mound of stone as per  
 instruction for 1/4 Sec cor

5<sup>th</sup> Standard Parallel 35  
South boundary of Sp 21 North 57  
Range 11 West

- Ch from which
- 5400 Dry arroyo 25 links wide  
empties into Cottonwood creek  
3 chains North flows from S to  
6000 Dry bed of east fork of Cotton  
wood creek 40 links wide flows  
South
- 6200 Trail bear N. to and S. W. and  
entered mesa lands
- 8000 Set a stone 12 x 10 x 6 ins in  
a mound with pub's as per  
instruction for the Standard  
cor to Sec 33 and 34 from which  
a Pinon 8 ins dia bear N 70° to 20 lbs  
" " 14 " " " 578° to 20 "  
no others near. Sand rolling  
and hilly. Soil worthless.  
Some scattering Cedars along  
line

at this corner I obtained

BOOK 1678

78



5<sup>th</sup> Standard Parallel  
 South boundary of Sp 21 North  
 Range 11 West

BOOK  
 Ch

1678

a meridian altitude of the  
 Sun.

Sun's declination  $21^{\circ} 37' 59'' - 2$

Latitude  $35^{\circ} 5' 04''$

West on true line on South  
 boundary of Sec 33

To  $15^{\circ} 8'$  East

500 Crossed little arroyo flows S.E.  
 10 links wide.

1000 Crossed same little arroyo  
 flows N.E.

1500 Begin ascent of mt<sup>s</sup> 500 feet  
 high bear N.E. & S.W.

3400 Summit of mt<sup>s</sup> bear N.E. & S.W.

4000 marked a cedar 10 mi dia  
 as per instruction for  $\frac{1}{4}$  sec  
 cor: No others near.

4400 Begin descent of bluff bear  
 N. and S.

5000 Deep ravine bear North 2

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 11 West

59

1678

BOOK

Ch chains wide = settlements  
in Willow Valley about 2  
miles North

5050 Begin ascent of mt. 500 ft high

8000 Set a Stone 24 x 20 x 16 in in  
a mound of Stone as per  
instruction for the Standard  
cot to Sec 32 and 33 = No trees =  
Sand broken and lilly = Soil  
worthless = timber scattering  
Cedars = mining District South  
Willow Valley North =

West on true line on the  
South boundary of sec 32  
To 15<sup>th</sup> 8' East

1500 Summit of mountain the  
mesa sloping North =

2000 Begin descent bears S 67 N. W.

2800 Round hill 1/2 mile South  
with 2 tunnels for mineral

60

5<sup>th</sup> Standard Parallel  
 South boundary of Sp 21 North  
 Range 11 West

BOOK

1678

- Ch in North face
- 4000 Set a Stone 24 x 12 x 8 ins in a mound of stone as per instructions for 1/4 sec cor. No trees
- 4400 High bluff of rocks bears to W 8 chains North - Hardyville road about 2 miles North bears to W.
- 5000 Foot of mountain and an arroyo bears S 6 E begin ascent of spur bears S 6 E
- 4800 Summit of spur bears S 6 E
- 8000 Set a Stone 24 x 20 x 20 ins in a mound of Stone as per instructions for the Standard cor to Sec 31 and 32 - No trees - Land very broken, Soil worthless South of line mineral - No timber

West on true line on South  
 boundary of Sec 31  
 Va 15<sup>th</sup> 8' to

2000 Line runs along South slope



5<sup>th</sup> Standard Parallel 61  
South boundary of Tps 21 North  
Range 11 West

BOOK 1678

- cr of hill -
- 3000 Begin descent bear S. W.
- 4000 marked a Granite Boulder 5 ft  
x 4 ft x 4 ft and built a mound  
of stones thereon as per instruction  
for 1/4 Sec cor - No trees -
- 4400 Foot of hill - Gulch flows South  
begin ascent of spur bear South
- 4800 Summit of spur and begin descent
- 5200 Gulch flows S. E. and begin ascent  
of spur of Granite rock
- 5900 Summit of spur and begin  
descent -
- 6600 Foot of spur and begin ascent  
of mt. of Granite boulders
- 7100 Summit bear South
- 8000 marked a Boulder 20 feet square  
and built a mound of stone  
thereon as per instruction for  
the Standard cor to Sec 31  
and 36 and of Tps 21 North

62

5<sup>th</sup> Standard Parallel  
 South boundary of Sp 21 North  
 Range 11 West

BOOK

1678

Ch

11 and 12 West = no trees. corner  
 on Summit of spur, Sand very  
 much broken, Soil worthless  
 No timber.

General Description of Sp 21 north  
 range 11 West. all of the arable land  
 of this Sp lies along Cottonwood Creek  
 about 2 miles North of the South  
 boundary of Sp. there are several  
 farms along this creek under cultivation.  
 the timber of this Sp is cedar and  
 Cottonwood. aquarum mt.<sup>s</sup> are struck  
 throughout the whole of the Sp.

General description of Sp 20  
 North Range 11 West. The aquarum  
 mt.<sup>s</sup> cover the entire portion of  
 this Sp as far as explored. there are  
 some mineral veins located in  
 this Sp said to be quicksilver.

Omar H. Case

Dep. Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 12 West

BOOK 1678

63

West on true line on South  
boundary of Sec 36

1/4 15<sup>th</sup> 4' East

- 800 Line runs along South slope  
of mountain - the mountain  
range North bear E & N.
- 2000 Summit of a little hill bear  
S.W.
- 4000 Set a Stone 15 x 12 x 12 ins in a  
mound of stone as per instruction  
for 1/4 Sec cor. No trees
- 4100 Begin descent towards West
- 5200 a Divide bears N.W.
- 7200 another Divide bear S.W.
- 8000 Set a Stone 36 x 18 x 18 ins in a  
mound of stone as per instruction  
for the Standard cor to Secs  
35 and 36 = No trees = Land very  
much broken and mountainous  
Soil mineral decomposed Granite  
and Quartz. No timber



04  
62  
60  
BOOK 1678  
5<sup>th</sup> Standard Parallel  
South boundary of Sp. 21 North  
Range 12 West

- Ch West on true line on the south  
boundary of Sec 35  
Va 15° 4' East
- 2,00 Begin descent of mt bear S.W.
- 4,000 Set a stone 36 x 20 x 24 ins in  
a mound of stone as per  
instruction for 1/4 Sec cor  
No. trees.
- 48,00 Foot of mountain bear S.W.  
and N.E. and Cottonwood  
Creek runs S.W. 50 links  
wide - Cottonwood trees  
growing on banks.
- 50,00 Begin ascent of spur of high  
granite mountain bearing  
South
- 79,00 Summit bear S.W.
- 80,00 marked a granite Boulder  
6 x 3 x 2 ft and built a  
mound of stone thereon as  
per instructions for the

5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 12 West

65

BOOK 1678

ch Standard cor to Sec 34 and 35  
No trees - Sand mountainous  
Soil mineral - No timber

West on true line on the South  
boundary of Sec 34 -

Go 15<sup>+</sup> 10' East

Begin descent at corner bear  
S.W.

1200 Foot of mt bear S.W. and  
entered valley with small  
rolling hills

4000 Set a Stone 18 x 18 x 6 ins in a  
mound of stone as per instruction  
for 1/4 Sec cor - an arroyo flows  
S.W. by cor 10 links wide

7200 Trail bear N. & S.

7300 arroyo bears South

8000 Set a Stone 10 x 8 x 4 ins in a  
mound with pit's as per  
instruction for the Standard

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100

5<sup>th</sup> Standard Parallel

South boundary of T<sub>2</sub> 21 North  
Range 12 West

BOOK

Ch

cor to Sec 33 & 34 - No trees -  
Sand mostly rolling - soil  
3<sup>rd</sup> rate - No timber -  
Granite mt. North about  
1/2 mile and Hardyville  
road bear West -

Nov: 29<sup>th</sup> 1872

West on true line on the  
south boundary of Sec 33  
Ta 15<sup>th</sup> East

26,000 Row of full bears south

30,000 arroyo bears S.W. Trend of  
mt. South. S.W. 2 1/2 miles

36,000 arroyo bear south east

40,000 Set a Stone 12 x 8 x 8 ins in a  
mound with pits as per  
instruction for 1/4 sec cor  
No trees - cor on east slope  
of hill -

43,000 Summit of Full bear south

52,000 Road bear N. & S. Hardyville



5<sup>1/2</sup> Standard Parallel  
South boundary of Tps 21 North 96.  
Range 12 West

BOOK 1678

- Ch road 1/2 mile North  
7,100 Cattle trails bear N. & S.  
8,000 Set a Granite Stone 24 x 10 x 8 ins  
in a mound of stone as per  
instruction for the Standard cor  
to Secs 32 and 33 = Sand rolling  
Soil Granite Gravel = No timber.

West on true line on the South  
boundary of Sec 32 =

Va 16<sup>th</sup> East

- 5,000 arroyo bears South  
4,000 Set a Post in a mound with pits  
as per instruction for 1/4 sec cor  
No trees = Valley about 50 miles  
long North = 12 miles South  
Trend of mountain North N. West  
8,000 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 32 and 31  
No trees = Sand rolling Soil

68  
5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 12 West

BOOK

1678

BC

Ch

Granite gravel - No timber  
Trend of hills S.W. about 4  
miles, a valley with Cedar  
timber

West on true line on the South  
boundary of Sec 31

$\frac{1}{4}$  Sec 16<sup>th</sup> East

4000 Set a post in a mound with  
pits as per instruction for  
 $\frac{1}{4}$  Sec cor - No trees

8000 Set a post in a mound with  
pits and marked a stone  
24+14+14 ins as per  
instruction for the Standard  
cor to Secs 31 and 36 and of  
Sp 21 N. Range 12 and 13  
West.

Sand gently rolling - Soil  
decomposed Granite - No timber.

5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
range 10 West

BOOK 1678

## General Description

Township 21 North range  
10 West - The arable land of  
this Tp lies N & SW of the  
Aquarius mountains. The  
Valleys are adapted for farming  
the Uplands for grazing - there  
is not much timber in the  
Southern portion

Omar A Case

Dep. Surveyor

General Description of  
Tp 20 North range 10 West  
Only a small portion of this  
Tp is unfit for cultivation  
the Aquarius mt. lies in the  
Eastern part from Sec 1 to 36  
the remainder of Tp is rolling  
and excellent grazing =

Omar A Case Dep Surveyor



6  
70  
BOOK 1678  
5<sup>th</sup> Standard Parallel  
South boundary of T<sub>4</sub> N<sub>1</sub> North  
Range 13 West

- OK West on true line on the South  
boundary of Sec 36  
Va 15° 34' East
- 3000 Arroyo 10 links South of line  
flows West.
- 3400 Arroyo flows S.W. 10 links wide
- 3900 Trail bears S.W.
- 4000 Set a post in a mound with  
pits as per instruction for 1/4 sec  
cor = No trees near.
- 8000 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 35 and 36.  
No trees. Sand rolling  
Soil decomposed granite  
2<sup>nd</sup> rate = No timber.

West on true line on the  
South boundary of Sec 35.

Va 15° 34' East

3400 Arroyo flows S.W. by W.

5<sup>th</sup> Standard Parallel 71  
South boundary of Sp 21 North  
Range 13 West BOOK 1678

4,000 Set a post in a mound with  
pits as per instruction for 1/4  
sec cor = cor on point of little  
Spur bearing South

5,500 Bluff overlooking bottom on  
Creek

5,900 Bottom land entered bears S.W.  
and N.E.

6,850 Trail bear SW and North

7,000 Willow Creek 100 links wide  
bears N and S = flows toward  
S.E.

7,450 Trail bear N & S.

8,000 Set a Post in a mound with pits  
as per instruction for the  
Standard cor to Secs 34 and 35  
No trees.

Sand rolling = Soil 3<sup>rd</sup> rate  
No timber.

5<sup>1/2</sup> Standard Parallel  
 South boundary of Sp 21 North  
 Range 13 West

BOOK

1678

BC

Ch

No trees - Sand generally  
 rolling - Soil 1<sup>st</sup> & 3<sup>rd</sup> rate  
 No timber of any account  
 some small paloverde and  
 stunted cedars -

Sand North rolling  
 " South "

West on true line on the  
 South boundary of Sec 39  
 Va 15<sup>th</sup> 35' East

800 Entered bottom full of cacti  
 choyos.

2100 Dry arroyo flows S by E 100  
 yards wide

4000 Set a Post in a mound with  
 pits as per instruction for  
 1/4 Sec cor. No trees

4500 Wagon road bears N.W. old  
 trail

8000 Set a Post in a mound



5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 13 West

BOOK 1678

Ch with pits as per instructions  
for the Standard cor to Secs  
31 and 32 - No trees - Land  
gently sloping east - Soil 1<sup>st</sup>  
rate - No timber - bottom full  
of cacti =

West on true line on the South  
boundary of Sec 31

To 15<sup>th</sup> 35' east

14,00 arroyo flows S.E. by to 25 links  
wide =

30,00 Same arroyo S.E.

40,00 Set a Post in a mound with  
pits as per instructions for 1/4  
Sec cor = Arroyo runs up Creek

42,00 Left arroyo bear S.W. by W.

70,00 arroyo about 5 chains South

80,00 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 31 and 36

75 <sup>1/2</sup> 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 13 West

BOOK  
Ch

1678

and of Sp 21 North between  
ranges 13 and 14 West

Land rolling - Soil 2<sup>nd</sup> rate  
a few scattering Cedars -  
Black Volcanic mt. N.E. Trend  
Land mostly rolling on both  
sides of line -

x - General Description of  
Sp 21 North Range 13 West - The  
surface of this Sp is rolling &  
affords excellent grazing -

Omar H. Case

Dep. Surveyor

General Description of  
Sp 20 North Range 13 West -  
The surface of this Sp is  
rolling and affords  
excellent grazing -

Omar H. Case

Dep. Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 14 West

76

BOOK 1678

Ch West on true line on the South  
boundary of Sec 36.

Va 15<sup>th</sup> 37' East.

11,50 Sand Creek ~~again~~ 50 links wide  
flows S.E. from S.W.

19,00 Sand Creek 50 links wide flows  
N.E.

40,00 Set a Post in a mound with pits  
as per instruction for 1/4 Sec cor  
No trees =

Sand Creek about 50 links South

47,00 " " 1 Chain wide flow S.E.

64,00 South Fork of Sand Creek flows N.E.

79,00 Sand Creek flows N.E. by E  
25 links wide.

80,00 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 35 and 36

No trees = Land sloping East  
Soil 2<sup>nd</sup> rate = Cedar timber  
scattering on both sides of line



18  
6  
6  
5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 14 West

BOOK  
Ct

1678

West on true line on the south  
boundary of sec 33 =

Wa 15 + 39' East

22,00 Arroyo flows N.E. 10 links wide

40,00 Set a post in a mound with  
pits as per instruction for 1/4  
Sec cor: No trees

Dry creek flows 25 links North  
N.E.

66,00 Dry arroyo flow North 16 links  
wide =

76,00 Dry granite wash bear N.E. 20  
links

80,00 Set a Post in a mound with  
pits as per instruction for the  
Standard corner to sec. 32 and  
33 = No trees = Sand rolling  
Soil 2<sup>nd</sup> rate = No timber =

30<sup>th</sup> Nov 1872

5<sup>th</sup> Standard Parallel 79  
South boundary of Tp 21 North  
Range 14 West

BOOK 1678

- Ch West on true line on the South  
boundary of Sec 32  
Va 15<sup>th</sup> 39' East
- 13.00 Entered rolling foot hills  
tend N.E. of Hualapai mt<sup>s</sup>
- 15.00 Arroyo flows N.E. 10 links wide
- 32.50 " " " 15 " "
- 40.00 Set a Stone 24 x 20 x 16 ins in a  
mound of stone as per instructions  
for 1/4 Sec cor. - No trees near
- 42.00 Arroyo flows N.E. 15 links wide
- 78.00 " " " " " "
- 80.00 Set a Stone 16 x 14 x 14 ins in a  
mound of stone as per instruction  
for the Standard cor to Secs  
32 and 31 - No trees
- Land rolling - Soil 3<sup>rd</sup> rate  
Oak brush on West end of  
Line -

80 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 14 West

BC

BOOK 1678

West on true line on the south  
boundary of Sec 31

Va 15° 39' east

14,50 Valley bears N. E.

24,00 Arroyo bears N. E. 10 links wide

40,00 Set a Stone 10x10x8 ins in a  
mound of stone as per instruction  
for 1/4 sec cor. No trees near.

47,00 Granite Wash flows N. W. 100 links  
wide.

58,00 Arroyo bears N. E. 15 links wide

66,00 Trail bear N. E.

76,00 Begin ascent of Huadpai M<sup>t</sup>

80,00 Set a post in a mound with  
pegs as per instruction for the  
Standard cor to Sec 31 and 36  
and to Sp 21 North Range 14  
and 15 West.

Sand rolling Soil 2<sup>nd</sup> rat  
No timber



5<sup>th</sup> Standard Parallel 81  
South boundary of Sp 21 North  
Range 14 West BOOK 1678

General Description of  
Sp 21 North Range 14 West  
the surface of this Sp is  
rolling and affords  
excellent grazing - there  
is considerable timber in  
this Sp. chiefly cedar  
Omar H. Case  
Dep. Surveyor.

General Description  
of Sp 20 North range 14 West  
most of this Sp is rolling  
land except in the northern  
portion where it is broken  
by mountains - the general  
trend of the mt. is E & W.  
the timber is chiefly cedar  
Omar H. Case  
Dep. U.S. Surveyor

82 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 15 West

BOOK  
Ch

1678

West on true line on the South  
boundary of Sec 36 -

To 15° 30' east

4,00 Spur bears North

8,00 Arroyo flows North 15 links wide  
Spur of Hualpai mt. bears North

16,00 Hardys road about 1/2 mile North

46,00 Arroyo flows N.E. 25 links wide

40,00 Set a Stone 20 x 12 x 10 ins in a  
mound of stone as per  
instruction for 1/4 sec cor. No  
tree -

48,00 Begin ascent of Hualpai mt.  
bears N and S - Proper -

56,00 Granite wash 25 links wide  
flows N.E. thence N.W. into  
Hualpai Valley

80,00 Set a Stone 20 x 18 x 18 ins in  
a mound with pits as per  
instruction for the Standard  
cor to Secs 35 and 36. No tree

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 15 West

83  
BOOK 1678

Ch Sand mountainous - Soil  
mineral - No timber.

North of line Hualpai Valley  
South Hualpai mountains

West on true line on the South  
boundary of sec 35

7a 15° 33' east

8,00 Summit of first spur and  
begin descent into gulch bear  
Sand S.

20,00 Gulch bear North junction of  
two one N.W. and other N.E.

24,00 Spur bears North

27,00 Gulch flows N.W.

37,00 Spur bears N.W. and begin  
descent

40,00 Set a stone 5 ft x 4 ft x 12 in in  
a mound of stone as per instruction  
for 1/4 sec cor - No trees

44,00 Gulch flows N.W.



84 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 15 West

BOOK

1678

7000

Gulch flows N.W.

8000

Set a stone 16 x 14 x 12 in in  
a mound of stone as per  
instruction for the Standard  
cut to Secs 34 and 35 - No  
trees - Land broken, soil  
mineral - No timber -

West on true line on the south  
boundary of Sec 34

Wa 15<sup>th</sup> 33' east

150

Gulch flows North

Water about 8 chains South

2000

Begin ascent of range 300 feet  
high

2000

Summit of Range bear N.W. S to

2600

High pinnacle of rocks opposite  
this point South 1 chain  
Hualpai Springs nearly North  
of this point

3500

Summit of spur bear N.W. 300

5<sup>1/2</sup> Standard Parallel 185  
South boundary of Sp 21 North  
Range 15 West.

BOOK 1678

- Ch feet high
- 4000 Set a Stone 36 by 24 by 12 in  
in a mound of stone as per  
instruction for 1/4 Sec cor  
No trees.
- 4200 Gulet bear N.W.
- 5000 Spur bear N.W.
- 5600 Deep ravine bear N.W.
- 7000 Spur bear N.W.
- 7800 " " "
- 8000 marked a Granite Boulder 6ft x  
4 ft x 3 ft and built a mound  
of stone thereon as per instruction  
for the Standard Cor to Secs  
34 and 33. No trees. Sand  
very broken = Soil mineral  
Some pine timber South of line  
1 mile = Valley North =

at this corner I obtained a  
meridian altitude of the Sun

86 5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 15 West

BOOK

1678

Ch True declination  $22^{\circ} 05' 56''$   
Latitude  $35^{\circ} 5' 24''$

West on true line on the South  
boundary of Sec 33.

Ca  $15^{\circ} 33'$  East

4,00 Begin descent bear N.W.

15,00 Foot of Spout and entered  
rolling land in Valley bear  
N.W.

27,00 Grand Wash of Waterspout  
immense Granite Boulders  
and Pine trees washed down  
bear N.W. 5 chains wide.

34,00 Begin ascent of hill 200 feet  
high line runs along North  
Slope.

40,00 Set a Stone  $16 \times 12 \times 12$  ins in a  
mound of stone as per instruction  
for  $1/4$  Sec cor. No trees

44,00 Begin descent of hill South of



5<sup>th</sup> Standard Parallel 8.  
South boundary of T<sub>3</sub> 21 North  
Range 15 West- BOOK 1678

Ch line some timber Pinon & Cedar -  
4,900 Summit of Spur bear N.W.  
8,000 Set a post in a mound with  
pits as per instructions for the  
Standard cor to Secs 32 and  
33 from which  
a cedar 12 in dia bear N40<sup>o</sup> W 17  
links = No others =  
Land mostly rolling - Soil  
mineral = No timber on line

West on true line on South  
boundary of Sec 32

Va 15<sup>o</sup> 33 East-

2,000 Trail cattle bear North  
3,000 " " " "  
4,000 " " " "  
7,000 " " " "  
9,000 " " " "  
15,000 Granite Wash watershed 150  
links wide - flows North -

3888 5<sup>th</sup> Standard Parallel  
South boundary of Twp 21 North  
Range 15 West

BOOK 1678  
Ch

2500 Trail bear N.E. S.W.

2600 Wash 10 links wide entered  
scattering Cedars

4000 marked a Cedar tree 4 ins  
in dia' as per instruction  
for 1/4 sec cor - No others

4700 arroyo flows N.E.

8000 Set a Stone 12 x 12 x 8 ins in a  
mound of stone as per instruction  
for the Standard cor to Sec  
31 and 32 - No trees - Sand  
rolling - Soil poor - a few  
scattering Cedar.

West on true line on the  
South boundary of Sec 31  
Twp 15<sup>th</sup> 33' East

800 Begin ascent of range of  
mountains bearing N.E. & S.W.  
Porphyritic Granite

3800 Summit bear N.E. & S.W.

5<sup>th</sup> Standard Parallel 89  
South boundary of Sp 21 North  
Range 15 West

BOOK 1678

Ch

4000 marked a Pinon 6 ins dia as  
per instruction for 1/4 sec cor  
No other near.

Begin descent into cañon at ee  
corner bears N.W. S.W.

6500 Ravine bear S.W.

8000 marked a Pinon 8 ins in dia  
asper instruction for the  
Standard cor to Secs 31 and  
36 - and the cor to Sp 21  
North between ranges 15  
and 16 West - No other trees  
Land mountainous - Soil  
mineral - some Pinon timber  
on West slope of mountain -

General Description  
of Sp 21 North range 15 West  
the Huachuca m<sup>t</sup> extend  
towards the North about 2  
miles - then the country



1890  
South 5<sup>th</sup> Standard Parallel  
boundary of Sp 21 North  
range 15 West

6  
BC

BOOK

1878

opens into Hualpai Valley  
a magnificent Prairie  
clothed with a rich verdure  
of growing grass affording  
excellent pasturage for  
large herds of cattle  
grazing thereon

Omar H. Case  
Dep. Surveyor

General Description  
of Sp 20 North Range 15 West  
In this Sp is the famous mining  
District noted for its rich deposits  
of Silver and lead - The mt  
range is the highest crossed  
in the survey about 7000 feet  
the mt sides are clothed with  
a fine growth of Pine timber  
south of line =

Omar H. Case Dep. Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 16 West

91  
BOOK 1678

Ch West on true line on the  
South boundary of Sec 36  
1/4 a 15° 40' East

550 arroyo flows N.W. 25 links  
wide

X 600 Begin ascent of rocky point  
3310 Summit and begin descent gentle slopes.

4000 Set a Stone 18 x 6 x 6 ins in  
a mound of stone as per  
instruction for 1/4 Sec cor  
No trees.

4300 Trail bear North

5300 arroyo flows S.W. 25 links

7300 " " " 10 "

8000 Set a post in a mound with  
pits as per instruction for  
the cor to Secs 35 and 36  
No trees

Land rolling - Soil poor  
a few scattering cedars

6  
6  
92 5<sup>th</sup> Standard Parallel  
South boundary of Twp 21 North  
Range 16 West

BOOK 1678

BC BC

Ch West on true line on the South  
boundary of Sec 35

Ca 15 + 40' East

1000 Steep bank above dry creek  
bears N.W. & S.E.

1200 Creek bed flows N.W. 50 links

2200 Road from Sawmill to Beal  
Springs - bears N.W. & S.E.

2400 Creek bed flows N.W. 150 links  
wide.

3200 Entered Volcanic Scoriae b  
N.W. and left Granite formation

4000 Set a Stone 12 x 8 x 6 ins in  
mound of stone as per instruction  
for 1/4 Sec cor = No trees

5000 Ridge of Volcanic rocks b  
nearly N and S.

6800 Summit of ridge N & S

7100 Valley N. E. S.

8000 Set a Stone 30 x 15 x 6 ins  
a mound of stone as per



South boundary of Sp 21 North  
Range 16 West

BOOK 1678

Instruction for the Standard  
cor to sec 34 and 35 corner  
on summit of ridge =

No trees = Land broken by  
Ridges and canons = Soil  
Volcanic scoriae = No timber

West on true line on the  
South boundary of sec 34  
Va 15° 36' east

0,50 Begin descent into canon  
bear North

6,00 Ravine flows North

11,00 Summit of mesa bear N. & S.

14,00 Begin descent.

20,00 Ravine flows North

30,00 Summit of mesa bear N. & S.

33,00 Little ravine flows North.

4,000 Set a stone 24 x 12 x 12 in via  
mound of stone as per instruction  
for 1/4 sec cor = No trees

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 16 West

BOOK  
Ch

1678

B

4400 Ravine bears N.W. and begin  
ascend

BOOK

1678

5000 Summit of mesa bears N.E.S

6200 Begin descent " "

6700 Ravine bear N.W.

7000 Begin ascent bear N.W.

7900 Summit bears N.W.

8000 Set a stone 18x12x12 ins in a  
mound of stone as per instruction  
for the Standard cor to Sec

33 and 34 = No trees =

Sand broken - Soil volcanic

Securui - No timber =

West on true line on the South  
boundary of Sec 33

To 15<sup>th</sup> 36' East

800 Brow of Bluff over Canon  
bear N.W.

1500 Arroyo bear N.W.

2000 Brow of mesa over Canon on

5<sup>th</sup> Standard Parallel 95  
South boundary of Sp 21 North  
Range 16 West

BOOK 1678

- Ch West bears N.W. S.E.  
40,00 marked a Paloverde 8 ins in  
dia as per instruction for  $\frac{1}{4}$   
Sec cor.  
50,00 Entered arroyo bear West  
60,00 Left " " N.W.  
7,000 Summit of Lava hill  
80,00 Set a Stone 14 x 12 x 10 ins in  
a mound of stone as per instruction  
for the Standard cor to Recs  
32 and 33 = No trees =  
Sand Volcanic formation  
Soil Worthless = No timber =

Dec 2<sup>nd</sup> 1872

West on true line on the South  
boundary of Sec 32

Ca 15<sup>th</sup> 36' East

- 10,00 arroyo flows N.W.  
20,00 Begin ascent of hill bear N.W.  
39,00 arroyo bear N.W.  
40,00 Set a Stone 24 x 12 x 3 ins in a



96 5<sup>th</sup> Standard Parallel  
South boundary of T<sup>p</sup> 21 North  
Range 16 West

BOOK 1678

Ch mound of stone as per instruction  
for  $\frac{1}{4}$  Sec cor. from which  
a Palosverde 4 in dia bear  $S 30^{\circ}$   
to 16 links = No others

5,100 mouth of a Canon 4 chains  
south, bear N. E.

8,000 Set a Stone  $20 \times 18 \times 8$  ins in  
a mound of stone as per instruction  
for the Standard cor to Secs  
31 and 32 = No trees = Land  
broken = Soil Volcanic Scoriae  
No timber = Canon Wall North

West on true line on the South  
boundary of Sec 31

Via  $15^{\circ} 36'$  East

10,000 Begin descent of hill sloping  
West N. W.

35,000 Foot of hill bear N. W.

40,000 Set a Stone  $24 \times 12 \times 2$  ins in  
a mound of stone as per instruction

5<sup>th</sup> Standard Parallel 1897  
South boundary of Sp 21 North  
Range 16 West  
BOOK 1678

- Ch for  $\frac{1}{4}$  sec cor = No trees
- 54,00 Bluff of deep canon 300 feet  
bear N.W. by W.
- 67,00 Dry wash flows N.W. by W 30 lks<sup>ee</sup>
- 75,00 " " " " " "
- line runs down creek
- 78,00 Left Creek bear N.W.
- 80,00 marked a Palo Verde tree 9 ins  
in dia as per instruction for  
the Standard cor to Secs 31  
and 36 and of Sp 21 North  
between ranges 16 and 17 W  
Land broken = Soil Volcanic  
teoriae = No timber =

General Description  
of Sp 21 North range 16 West  
this Sp contains a large  
amount of first rate land  
for farming lying in the  
Hualpai Valley. The

5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 16 West

BOOK

1678

Southern portion is broken  
by canons - and is  
destitute of timber except  
in the eastern portion.

Omar H Case  
Dep. Surveyor

General Description  
of Tps 20 North range 16 West  
The land in this Tps  
is worthless it is broken  
by canons - the soil is of  
Volcanic loessal - there  
is no timber.

Omar H Case  
Dep. Surveyor



5<sup>th</sup> Standard Parallel 39  
South boundary of Tp 21 North  
Range 17 West

BOOK 1678

- Ch West on true line on the  
South boundary of Sec 36  
Va 15 + 28' East
- 6,00 Begin ascent of West Wall of  
Canon 200 feet high bear N.W.
- 12,00 Summit
- 19,00 Western Summit and begin descent bear N
- 2000 Foot of Butte
- 2300 Arroyo flows North 20 links wide
- 4000 Set a Stone 24 x 10 x 4 ins in a  
mound of stone as per instruction  
for 1/4 sec cor = No tree -
- 53,00 Canon bears North 40 feet deep
- 56,00 Opposite side -
- 8000 Set a Stone 24 x 18 x 6 ins in a  
mound of stone as per instruction  
for the Standard cor to Secs 35  
and 36. Land broken. Soil  
worthless = No timber -

100 5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
BOOK 1678 Range 17 West

Ch West on true line on the South  
boundary of Sec 35

Cor 15<sup>2</sup> 28' East

1000 Canon walls bear N.W. 100 ft high

2200 Walls of Canon 300 feet high N.S.

3600 Foot of Walls of Canon bear N.W.

4000 Set a Stone 16 x 12 x 6 ins built  
on a Volcanic Boulder as per  
instruction for 1/4 sec cor. No trees

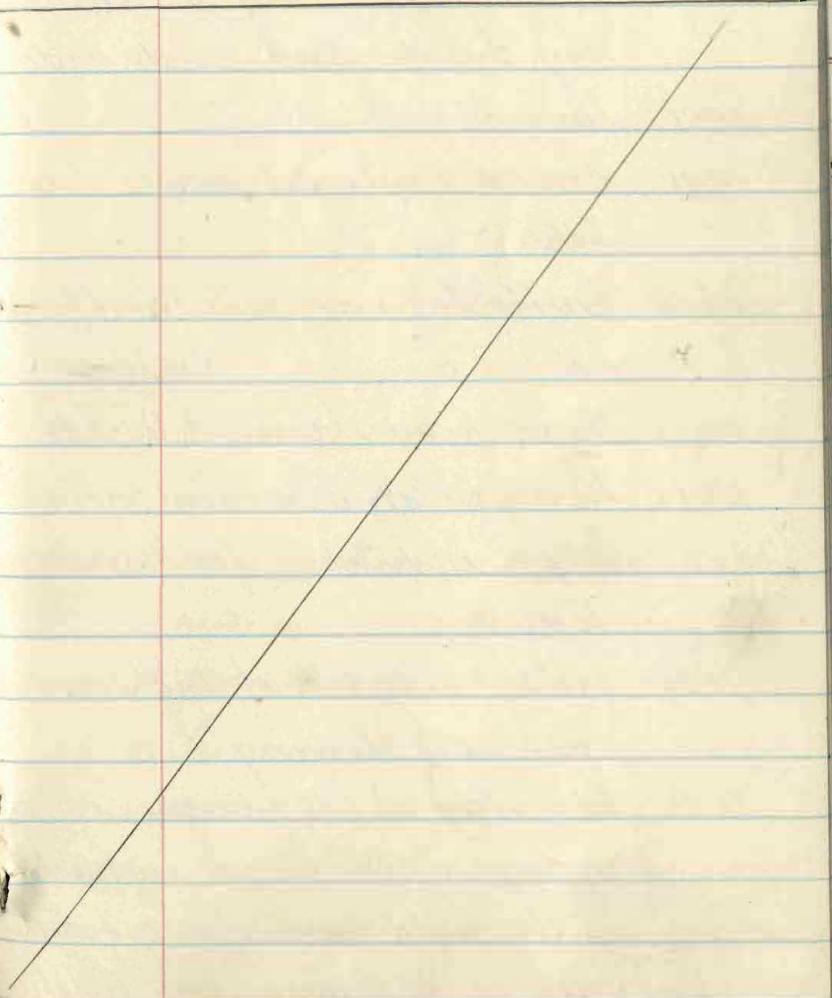
6000 Begin ascent of slope of Canon  
Walls bear South 200 feet high

6900 Canon running North 300  
feet wide.

8000 Set a Stone 18 x 12 x 8 ins in a  
mound of stone 3 feet high as per  
instruction for the Standard  
cor to Sec 34 and 35. Land  
very much broken. Soil  
worthless. No timber.

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 17 West BOOK 1678

at this corner I obtained a  
meridian altitude of the sun  
Sun's declination  $22^{\circ} 14' 34''.5$   
Latitude  $35^{\circ} 5' 24''$





102 5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
BOOK 1678 range 17 West

Ch West on true line on the South  
boundary of Sec 34 =

Ya 15° East

Begin ascent of spur of bluff  
at cor bears N and S bottom of  
Big Sandy North 20 ch wide

10,00 Summit

19,00 Crossed Railroad Survey bear  
S.W.

26,00 Entere<sup>d</sup> bottom of Big Sandy bear  
S.W. N.E.

30,50 Wagon road bears N.E. S.W.

40,00 Set a post in a mound of stone  
as per instructions for 1/4 sec cor.  
No trees =

7,000 Entered dry bed of Big Sandy  
Creek S.W. flowing =

8,000 Set a Stone 16 x 12 x 12 ins in a  
mound of stone as per instructions  
on the right bank of Big Sandy  
Creek as a Witness cor. to the

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 17 West

103

BOOK 1678

Ch Standard cor 50 links South  
in bed of Creek = of Secs 33 & 34  
Sand mostly level = Soil  
washed Volcanic gravel = No  
timber =

West on true line on the South  
boundary of Sec 33 =

Ca 15° East

6,00 Left bottom of Big Sandy bear  
S.W.

26,00 Begin ascent of Spur of mesa  
bear S & N.W. 100 feet high

40,00 Set a post in a mound with  
pits as per instruction for 1/4 sec  
cor - No trees =

48,00 Summit of Spur rocky point  
about 10 chains South

60,00 Foot of Spur bear N & S and  
entered Sacramento Valley bears  
N and S.

104 5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 17 West

BOOK 1678

8000 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 32 and  
33. Sand sloping to NW. Soil  
Gravel = No timber.

West on true line on the South  
boundary of Sec 33.

Via 15° 07' East

4000 Set a post in a mound with  
pits as per instruction for 1/4  
Sec cor. No trees

8000 Black Mt. North bear N. W.

8000 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 31 and 32.  
No trees = Sand level = Soil  
of 2<sup>nd</sup> rate = No timber



5<sup>th</sup> Standard Parallel  
South boundary of T<sub>2</sub>P 21 North  
Range 17 West

BOOK 1678

Ch West on true line on the South  
boundary of Sec 31

Va 15° 6' East

4000 Set a Stone 10x10x10 ins in a mound with pits as per instruction for 1/4 Sec cor. No trees

6700 Arroyo flows nearly West 30 links wide line follows down Creek.

7000 Left Creek bear N.W.

8000 Set a post in a mound with pits as per instruction for the Standard cor to Sec 31 and 36 and of T<sub>2</sub>P 21 N. Range 17 and 18 West. No trees. Sand level soil 2<sup>nd</sup> rate. No timber.

West on true line on the South  
boundary of Sec 36

Va 15° 06' East

4000 Set a Stone 10x10x8 ins in

106 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
range 17 West

BOOK 1678

General Description  
of Sp 21 North range 17 West  
Camp Beale Springs is in  
this Sp it is only a camp  
by order having no  
reservation established the  
Hualpai Mining District is  
embraced in this Sp & the Sp  
North there is no arable land  
in this Sp. It is of granite  
and volcanic formation  
there is no timber.

Omar H Case

Dep. Surveyor

General Description  
of Sp 20 North range 17  
West. This Sp is worthless  
being broken by almost  
impassible canons

Omar H Case

Dep. Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 18 West

BOOK 1678

Ch West on true line on the South  
boundary of Sec 36

Va 15° 6' East

4000 Set a Stone 10x10x8 ins in a  
mound with pits as per instruction  
for 1/4 Sec cor. No trees

8000 Set a post in a mound with  
pits as per instruction for the  
Standard Cor to Secs 35 and 36  
No trees. Sand level. Soil 1<sup>st</sup>  
rate. No timber.

West on true line on the South  
boundary of Sec 35

Va 15° 6' East

4000 Set a Stone 10x8x8 ins in a  
mound with pits as per instruction  
for 1/4 Sec cor. No trees

8000 Set a post in a mound with  
pits as per instruction for the  
Standard cor to Secs 34 and 35



108 5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 18 West

ch No trees - Sand level - Soil  
1<sup>st</sup> rate = No timber

BOOK 1678

West on true line on the South  
boundary of Sec 34

Ya 15° 6' East

4000 Set a Stone 12 x 10 x 8 ins in a  
mound with pits as per instruction  
for 1/4 Sec cor = No trees

5500 Little Arroyo flows S.W. 10 links wide

6350 Dry bed of Creek flows S.W. 30 " "

7900 " " " " " " 75 " "

8000 Set a post in a mound with  
pits as per instruction for the  
Standard cor: to Secs 33 and  
34 = No trees - Sand level  
Soil 1<sup>st</sup> rate = No timber

West on true line on the South  
boundary of Sec 33

Ya 15° East

5<sup>th</sup> Standard Parallel 109  
South boundary of Sp 21 North  
Range 18 West

BOOK 1678

Ch  
2600 Dry Creek flows South 30 links  
wide -

4000 Set a post in a mound with pits  
as per instruction for 1/4 sec cor  
No trees -

8000 Set a post in a mound with pits  
as per instruction for the  
Standard cor to sec 32 and  
33 - No trees -

Sand level

Soil 1<sup>st</sup> rate

No timber

Dec: 3<sup>rd</sup> 1872

West on true line on the South  
boundary of Sec 32

To 15<sup>th</sup> 16' East

4000 Set a post in a mound with  
pits as per instruction for 1/4  
sec cor = No trees

79.75 Little Creek flows South 15 links  
wide -

110 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 18 West

Ch

8000

BOOK 1678

Set a post in a mound with  
pits as per instruction for the  
Standard cor to Sec 31 and  
32 = No trees = Sand level  
Soil 1<sup>st</sup> rate = No timber =

West on true line on the South  
boundary of Sec 31

To 15<sup>th</sup> 6' east

15,00

N

Dry bed of creek flows a  
little east of South 40 links  
wide =

18,00

West branch of same creek bearing  
810 links wide =

40,00

Set a post in a mound with  
pits as per instruction for 1/4  
Sec cor = No trees =

62,00

Dry bed of creek flows S. E.  
40 links wide

80,00

Set a post in a mound with  
pits as per instruction for



5<sup>th</sup> Standard Parallel  
South boundary of Tp 21 North  
Range 18 West

BOOK 1678

Ch the Standard cor to Sec 31 and  
36 and of Tp 21 N. Range 18  
and 19 West - No trees  
Land level - Soil 1<sup>st</sup> rate  
No timber -

at this corner I obtained a  
meridian altitude of the Sun  
Sun's declination  $22^{\circ} 22' 15'' 6$   
Latitude  $35^{\circ} 5' 24''$

General Description  
of Tp 21 North range 18 West  
all of this Tp lies in the  
Sacramento Valley - the  
land is level and well  
adapted for farming -  
there is no timber -

Omar A. Case  
Dep. Surveyor -

112 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 18 West.

BOOK 1678

General Description  
of Sp 20 North Range 18 West  
all of this Sp lies in the  
Sacramento Valley - the  
land is level and well  
adapted for farming - there  
is no timber.

Omar H. Case  
Dep. Surveyor.

5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range 19 West.

West on true line on the South  
boundary of Sec 36  
Va 15° 5' East

4000 Set a Post in a mound with  
pits as per instruction for 44  
Sec cor - No trees

8000 Set a Post in a mound with  
pits as per instruction for the

South boundary of Sp 21 North  
Range 19 West

Ch. Standard Cor to Secs 35 & 36

BOOK 1678

No trees - Sand level. Soil 2<sup>nd</sup>  
rate - No timber -

West on true line on the South  
boundary of Sec 35 -

Va 15° 5' East

2300 an arroyo flows S to 20 lbs wide

4000 Set a Post in a mound with  
pits as per instruction for 1/4

Sec cor - No trees -

8000 Set a Stone 10 x 10 x 6 in in a  
mound of earth with pits as  
per instruction for the Standard  
cor to Secs 34 & 35 - Sand  
level - Soil 2<sup>nd</sup> rate. No timber.

West on true line on the South  
boundary of Sec 34 -

Va 15° 5' East

2000 an arroyo flows S to.



114 5<sup>th</sup> Standard Parallel  
South boundary of T<sup>o</sup> 21 North  
Range 19<sup>th</sup> West

BOOK 1678

Ch

4000 Set a post in a mound with  
pits as per instruction for  
1/4 Sec cor. No trees.

8000 Set a Stone 10 x 10 x 10 ins in  
a mound with pits as per  
instruction for the Standard  
cor to Secs. 33 & 34.

Sand level - Soil 1<sup>st</sup> rate  
No timber.

West on true line on the South  
boundary of Sec 33.

Via 15<sup>th</sup> g' East

4000 Set a Stone 16 x 10 x 3 ins in a  
mound of earth with pits as  
per instruction for the 1/4 Sec  
cor - No trees

6000 There is a cave with water  
in it 10 chains North-mouth  
facing East 20 feet wide

5<sup>th</sup> Standard Parallel 115  
South boundary of Tp 21 North  
Range 19 West BOOK 1678

Ch 50 feet high and 100 feet deep

6200 Left Sacramento Valley and entered Black mountains bearing S & S.W.

8000 Set a Stone 12 x 10 x 10 ins in a mound of stone as per instruction for the Standard Cor to Sec 32 & 33 - No trees - Land mostly level - Soil 3<sup>rd</sup> rate - No timber -

West on true line on the South boundary of Sec 32.

Wa 15° 9' East

Begin ascent of precipitous mountain at corner

4000 Set a Stone 16 x 10 x 6 ins in a mound of Stone as per instruction for 1/4 Sec cor - No trees

6000 Summit of ridge bear Standard

- Ch and begui descent
- 6900 Ravine flows North and  
begui ascent of another ridge.
- 7600 Summit of ridge and a high  
parapet mt 50 links South  
perpendicular Walls 300 feet  
high
- 8000 Set a Stone 16 x 12 x 10 in in  
a mound of stone as per  
instruction for the Standard  
cor to Sec 31 and 32. No trees.  
Sand mountains. Soil  
worthless. No timber.

West on true line on the  
South boundary of Sec 31  
To 15<sup>th</sup> 20' east

- 500 Surveyors Sprung in a cave  
facing N.E. 42 feet wide by  
40 feet high square entrance
- 600 Perpendicular Wall 132 feet



5<sup>th</sup> Standard Parallel 116  
South boundary of Sp 21 North  
Range 19 West

BOOK 1678

- Ch high by measurement bears  
N and E.
- 2000 Summit of high rocky point  
bear N and N.W.
- 3950 a ravine flows North
- 4000 Set a Stone  $48 \times 10 \times 2$  ins in  
a mound of stone as per  
instruction for  $\frac{1}{4}$  sec cor  
No trees.
- 4100 a ridge bear N. & S.
- 4300 a ravine " N. & W.
- 5000 a ridge " " "
- 5650 a ravine flows North and  
begins ascent of spur bearing  
N.W.
- 6000 Summit of spur of range  
very rocky bear South  
another spur joins this  
bears West lying North
- 6500 Begins descent bear South
- 8000 Set a Stone  $24 \times 16 \times 12$  ins a

118 5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
Range 19 West

BOOK 1678

mound of stone as per instructions  
for the standard cor to Secs  
31 and 36 and of Tps 21 N  
Range 19 and 20 W. No trees  
Land very rough and  
broken with rocky mt<sup>s</sup> -  
Soil worthless - No timber

General Description  
The South portion of this  
Tps is worthless - in Sec 31  
32 and 33 there is some  
good arable land also in  
the N and E portions of the  
Tps - There is no timber -

Quar & Case Dep. Surveyor

General Description  
of Tps 20 N - only about  
1/2 of this Tps is arable land  
that lying in the eastern  
part in Sacramento Valley

5<sup>th</sup> Standard Parallel 119  
South boundary of T<sub>3</sub> 21 North  
Range 19 West

BOOK 1678

there is no timber.

Cesar Chavez

Dep. Surveyor

5<sup>th</sup> Standard Parallel

South boundary of T<sub>3</sub> 21 North  
Range 20 West

West on true line on the  
south boundary of Sec 36

Ch Va 15° East

1000 arroyo flows S. E. 15 links wide

2500 Summit of Spur bearing S. E.

3500 " " " " South

4000 Set a Stone 12 x 10 x 6 ins in  
a mound of stone as per instruction  
for 1/4 Sec cor. - No trees

4700 Trail bears N. E. & S. W  
Secret Cañon N. S. W.

5800 Deep arroyo South 40 links

70,50 " " " " 100 "

8000 Set a Stone 14 x 10 x 8 ins in a  
mound of stone as per instruction



120 5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
BOOK 1678 Range 20 West

Ch for the Standard cor to  
Sec. 35 and 36. Land  
broken. Soil worthless  
No timber =

West on true line on the south  
boundary of Sec 35 =

To 15° east

- 1,500 Begin ascent of high craggy  
spur of Mt. Range bearing  
N.W. and S.E.
- 5,000 Two arroyos forming a sharp  
spur bearing N.E.
- 4,000 Set a stone 14 x 13 x 10 in in  
a mound of stone as per instructions  
for 1/4 sec cor. = No trees =
- 6,500 Summit of range bearing  
N.W. and S.E.
- 8,000 marked a natural monume  
50 feet high and built a  
mound of stone at base as

5<sup>1</sup>/<sub>2</sub> Standard Parallel  
South boundary of Tps 21 North  
Range 20 West

BOOK 1678

Ch per instruction for the  
Standard cor to Secs 34 &  
35 - Land very rough and  
broken - No soil - No timber - see

West on true line on the  
South boundary of Sec 34  
To 15<sup>0</sup> 10' East

7,00 Highest point on the Black  
mountains -

1000 Begin descent, a steep bluff,  
the descent is in parapets 20  
feet at a jump -

2000 Foot of spur rocky mountain  
North bear West

4000 Set a Stone 48 x 10 x 8 ins in  
a mound of stone as per instruction  
for 1/4 sec cor: No trees -

4800 Ravine flows North and  
begin ascent of spur bearing North

6000 Summit of spur a rocky point -

122 5<sup>th</sup> Standard Parallel  
South boundary of T<sub>2</sub> 21 North  
BOOK 1678 Range 20 West

Ch

8000 Set a stone 15 x 10 x 4 ins in  
a mound of stone as per  
instruction for the Standard  
cor to Sec 33 & 34 = Land  
very rough and broken =  
No Soil = No timber =

Dec: 5<sup>th</sup> 1872

West on true line on the South  
boundary of Sec 33

To 15<sup>th</sup> 10' East

500 Begin descent of ridge line  
runs along North slope of  
mt<sup>n</sup> = Steep side =

4000 Set a stone 16 x 8 x 4 ins in a  
mound of stone as per instruction  
for the 1/4 Sec cor: = No trees

6000 A ravine flows North of spur

6200 Begin ascent of another spur  
bear N.W.

8000 Set a stone 12 x 12 x 12 ins in a  
mound of stone as per instruction



5<sup>th</sup> Standard Parallel  
South boundary of T<sub>2</sub> 21 North  
Range 20 West

BOOK 1678

Ch for the Standard corner to  
Sec 32 & 33 - Land very  
broken - Soil worthless -  
No timber -

West on true line on the  
South boundary of Sec 32  
To 15<sup>th</sup> 10' East

15,00 An arroyo flows N.E. about  
10 chain then N.W.

32,00 a rocky point North of line  
about 5 chain bearing South

40,00 Set a Stone 16 x 8 x 4 ins in a  
mound of stone as per instruction  
for 1/4 Sec - No trees

60,00 Round Conical mt<sup>s</sup> with  
tricolor rock red brown and  
yellow near summit.

80,00 Set a Stone 18 x 12 x 10 ins in a  
mound of stone as per instruction  
for the Standard cor. of Secs

124 5<sup>th</sup> Standard Parallel  
South boundary of Tps 21 North  
BOOK 1678 Range 20 West

Ch 31 and 32 = Sand very broken.  
No soil = No timber =

West on true line on the South  
boundary of Sec 31

Wa 16<sup>th</sup> 5' East

1200 Entered dry sand wash flow W.

4000 Set a Stone 20 x 16 x 14 in in a  
mound of stone as per instruction  
for 1/4 sec cor = No trees = and  
placed a Witness cor North 50  
links on right bank of sand  
wash 10 chains wide =

5000 Sand wash flow S.W. and commenced  
the ascent of another spur =

6000 Summit of spur gently sloping W.

7600 Dry Wash flow S.W.

8000 Set a Stone 12 x 10 x 8 in in  
mound of stone as per  
instruction for the Standard  
cor: to Secs 31 & 36 and of

5<sup>th</sup> Standard Parallel 125  
South boundary of Sp 21 North  
Range 20 West

BOOK 1678

Sp 21 North Range 20 and  
21 West - No trees - Sand  
very broken - Soil worthless  
No timber.

### General Description

of Sp 21 North Range 20 West

The land in this Township  
is utterly worthless - No  
timber.

Omar H Case

Dep. U. S. Surveyor

### General Description

of Township 20 North R 20 W.

The land in this Township  
is utterly worthless - No  
timber

Omar H Case

Dep. U. S. Surveyor



5<sup>th</sup> Standard Parallel  
South boundary of Sp 21 North  
Range of West

BOOK 1678

ch West on true line on the  
South boundary of Sec 36  
Va 15° East

33,00 arroyo flows S.W. of ch wide

40,00 Set a Stone 10 x 10 x 6 in in  
a mound of stone as per  
instructions for 1/4 Sec cor  
No trees =

80,00 Set a Stone 10 x 10 x 8 in in  
a mound of stone as per  
instruction for the Standard  
cor to Sec 35 and 36 N. W. 1/4  
Sand sloping West - Soil  
worthless - No timber =

West on true line on the  
South boundary of Sec 35  
Va 15° East

20,00 arroyo flows N.W. of ch  
wide

40,00 Set a Stone 20 x 8 x 6 in in

5<sup>th</sup> Standard Parallel 127  
South boundary of T<sub>1</sub> N<sub>1</sub> North  
Range 21 West  
BOOK 1678

Ch a mound of stone as per  
instruction for 1/4 Sec cor.  
No trees

8,000 Set a Stone 18 x 12 x 10 ins in  
a mound of stone as per  
instruction for the Standard  
cor to Secs 34 and 35 No trees  
Sand sloping West, Soil  
Worthless - No timber.

West on true line on the  
South boundary of Sec 34 -  
Va 15<sup>o</sup> East

4,000 Set a Stone 10 x 10 x 8 ins in  
a mound of stone as per  
instruction for 1/4 Sec cor.  
No trees.

4,100 arroyo flow S.W. 15 lks wide

7,400 Entered large Wash flow S.W.

8,000 Set a Stone 16 x 15 x 10 ins  
in a mound of stone as per

5<sup>th</sup> Standard Parallel  
South 128 boundary of T<sub>1</sub> 21 North  
Range 21 West

Ch 1678 instruction for the Standard  
cor to Sec 33 and 34.  
No trees - Sand rolling  
Soil worthless - No timber.

West on true line on the  
South boundary of Sec 33  
Va 15° East

4,00 Left Wash beare S.W.

4,000 Set a Stone 10 x 9 x 8 in in a  
mound of stone as per  
instruction on the North  
slope of mesa for 1/4 Sec  
cor - No trees

8,000 Set a Stone 9 x 9 x 9 in in  
a mound of stone as per  
instruction for the Standard  
cor to Sec 33 and 33. No trees  
Sand rolling - Soil Volcanic  
gravel worthless - No  
timber



5<sup>th</sup> Standard Parallel  
South boundary of T<sub>1</sub> S<sub>1</sub> North  
Range of West  
BOOK 1678 129

Or West on true line on the South  
boundary of Sec 32.

Va 15<sup>th</sup> East

3800 Entered Grand Wash bear S.W.

4000 Set a Stone 14 x 10 x 6 ins in a  
mound of stone as per instruction  
for 1/4 Sec cor. No trees =

7000 Entered Wash again line  
runs along South side about  
6 chains wide =

8000 Set a Stone 10 x 10 x 10 ins in a  
mound of Stone as per instruction

for the Standard cor to Sec  
31 and 32. <sup>No trees</sup> = Land worthless  
Soil Volcanic formation

No timber =

Dec<sup>r</sup> 6<sup>th</sup> 1872

West on true line on the  
South boundary of Sec 31

Va 15<sup>th</sup> East

130 5<sup>th</sup> Standard Parallel  
South boundary of T<sub>1</sub> North  
range of West

Ch  
3000 Line nearly in centre of  
Wash to chains wide

BOOK 1678

4000 marked a Boulder 36 x 36 x  
24 ins and built a mound  
of stone on it for 1/4 sec cor  
near centre of Wash as per  
instructions. No trees

6400 Left Wash bank bear NW.

8000 Set a Stone 16 x 10 x 10 ins in  
a mound of stone as per  
instruction for the Standard  
cor to Secs 31 and 36. No trees  
Sand rolling, Soil worthless  
Volcanic scoriae. No  
timber.

General Description of  
T<sub>1</sub> N. Range of W  
the land in this T<sub>1</sub> is  
worthless. No timber.

Omar H. Case  
U. S. Dept. Surveyor

5<sup>th</sup> Standard Parallel 131  
South boundary of T<sub>1</sub> N<sub>1</sub> North  
Range 21 West BOOK 1678

General Description  
of T<sub>1</sub> N<sub>1</sub> Range 21 W  
the land in this T<sub>1</sub> is  
worthless - No timber

Omar Chase

U. S. Dep: Surveyor

5<sup>th</sup> Standard Parallel  
South boundary of T<sub>1</sub> N<sub>1</sub> North  
Range 22 West

Ch West on true line on the  
South boundary of Sec 36  
T<sub>1</sub> N<sub>1</sub> West

4000 Set a stone 10x10x10 ins in  
a mound of stone as per  
instruction for 1/4 Sec. cor:  
No tree -

4300 Little arroyo flow N.W. 50  
yards wide -



5<sup>th</sup> Standard Parallel  
South boundary of T<sub>1</sub> North  
132<sup>ch</sup> Range 20 West

5,000 Little arroyo again flow S.W.

150 links wide.

5,400 arroyo 150 links wide flow  
S.W.

6,000 Left arroyo flow N.W. 150 links

8,000 Set a Stone 16 x 12 x 8 ins  
in a mound of stone as  
per instruction for the  
Standard cor to Sec 35  
and 36. No trees. Sand  
rolling. Soil worthless.  
No timber.

---

West on true line on the  
south boundary of Sec 35  
Va 15<sup>o</sup> East

2,600 Entered Big Wash again  
bear N.W.

4,000 Set a Stone 12 x 12 x 4 ins  
in a mound of stone as  
per instruction for 1/4 sec

5<sup>14</sup>/<sub>16</sub> Standard Parallel

South boundary of Fr 21 North  
range 22 West

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BOOK 1678

Ch cor = No trees

54.00 a regular monument 4 feet  
square at base and 4 feet  
high 1 chain South.

70.50 Road bear N and S.

80.00 Set a stone 18 x 10 x 10 ins  
in a mound of stone as  
per instruction for the  
Standard cor to Sec 34  
and 35 = No trees. Land  
rolling = Soil @ <sup>no</sup> rate.  
No timber =

West on true line on the  
South boundary of Sec 34

To 15<sup>th</sup> east

7.50 Set a stone 18 x 8 x 8 ins in  
a mound of stone as per  
instruction for the Standard  
cor to fractional Sec 34, <sup>no trees</sup> on  
left bank of the Colorado

5<sup>th</sup> Standard Parallel  
South boundary of Twp 21 North  
Range 22 West  
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BOOK 1678

river - the river flows south.  
Width 1850 chains by  
triangulation - a cottonwood  
tree on right bank I obtained  
for the forward sight - I  
turned an angle of  $90^\circ$   
and measured along the  
left bank a distance of  
18.50 chains where the  
cottonwood has a bearing  
of  $N 45^\circ W$ . therefore the  
distance across the river  
is 1850 links.

at this corner I obtained  
a meridian altitude of the  
sun - suns declination  
 $22^\circ 29' 56''$  Latitude  $35^\circ 5' 24''$



5<sup>th</sup> Standard Parallel  
South boundary of Fr 21 North  
Range 22 West

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General Description of  
fractional Fr 21 N range  
22 W. there is a little  
arable land on the Colorado  
river in this Township

Omar Chase  
U. S. Dep: Surveyor

General Description  
of fractional Fr 20 N  
range 22 W. Hardyville  
lies in this Fr. there  
is a little arable land  
on the Colorado river  
in this Township

Omar Chase  
U. S. Dep Surveyor

slaps

136 General Description  
of the 5<sup>th</sup> Standard Parallel

BOOK 1678

The Landscapes of all the line are varied & beautiful, with a great diversity of surface generally rolling lands predominating -

The margins of the Streams are well timbered and Groves and Woodlands are plentiful and extensive.

The mineral resources of several of the Townships though but just beginning to be developed have given the Country about the Huapai mountains the well merited reputation of being very rich in minerals - Lead, Iron Silver and Gold are found in extensive deposits. Stone suitable for building

General Description  
of the 5<sup>th</sup> Standard Parallel

BOOK 1678

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purposes crop out on every bluff and hill side. Hualpai and Sacramento Valleys are quite extensive and offer to the emigrant every inducement in the way of good soil and a healthful climate. A country possessing so many beauties and advantages must of a necessity prove attractive and soon become thickly settled.

Omar Chase

U.S. Dep: Surveyor

Dec<sup>r</sup> 7<sup>th</sup> 1872



U. S. Surveyor General's Office  
Tucson Ariz. March 1. 1873

BOOK

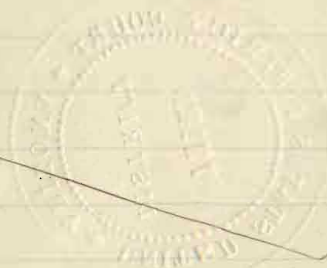
1678

The foregoing field notes of  
the survey of the Fifth  
Standard Parallel N.  
of the Gila and Salt River  
Meridian, Arizona, executed  
by Omar H. Case, U. S. Dep.  
Surveyor, under his contract  
of July 29. 1872, having been  
critically examined and the  
necessary corrections and  
explanations made, the  
said field notes and the  
surveys the describe are  
hereby approved.

John Massman  
Surveyor General

ral Oath of Deputy Surveyor.

I, *H. Case*, United States  
 Surveyor, do solemnly swear that, in pursuance  
 of an Act of Congress, passed March 3rd 1877,  
 and with *John Mason*  
 Surveyor-General for Arizona, bearing date  
 of July 1872, I have well, faithfully  
 examined the field notes of  
 my own proper person, and in strict con-  
 formance with the instructions furnished by the Surveyor-  
 General, and the laws of the  
 Territory, surveyed all those parts or portions of the  
 Standard Parallel  
 boundary of Townships 21  
 Range 4<sup>th</sup> West to the  
 River in Range 22 West  
 and Salt River base and  
 in



mentioned in the foregoing Field Notes as having

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BOOK 1678

been surveyed under my directions; and I solemnly swear that all the corners of said section have been established and perpetuated in strict accordance with the Surveying Manual and printed instructions. The foregoing are the true and original Field Notes of said survey.

Omar Chase

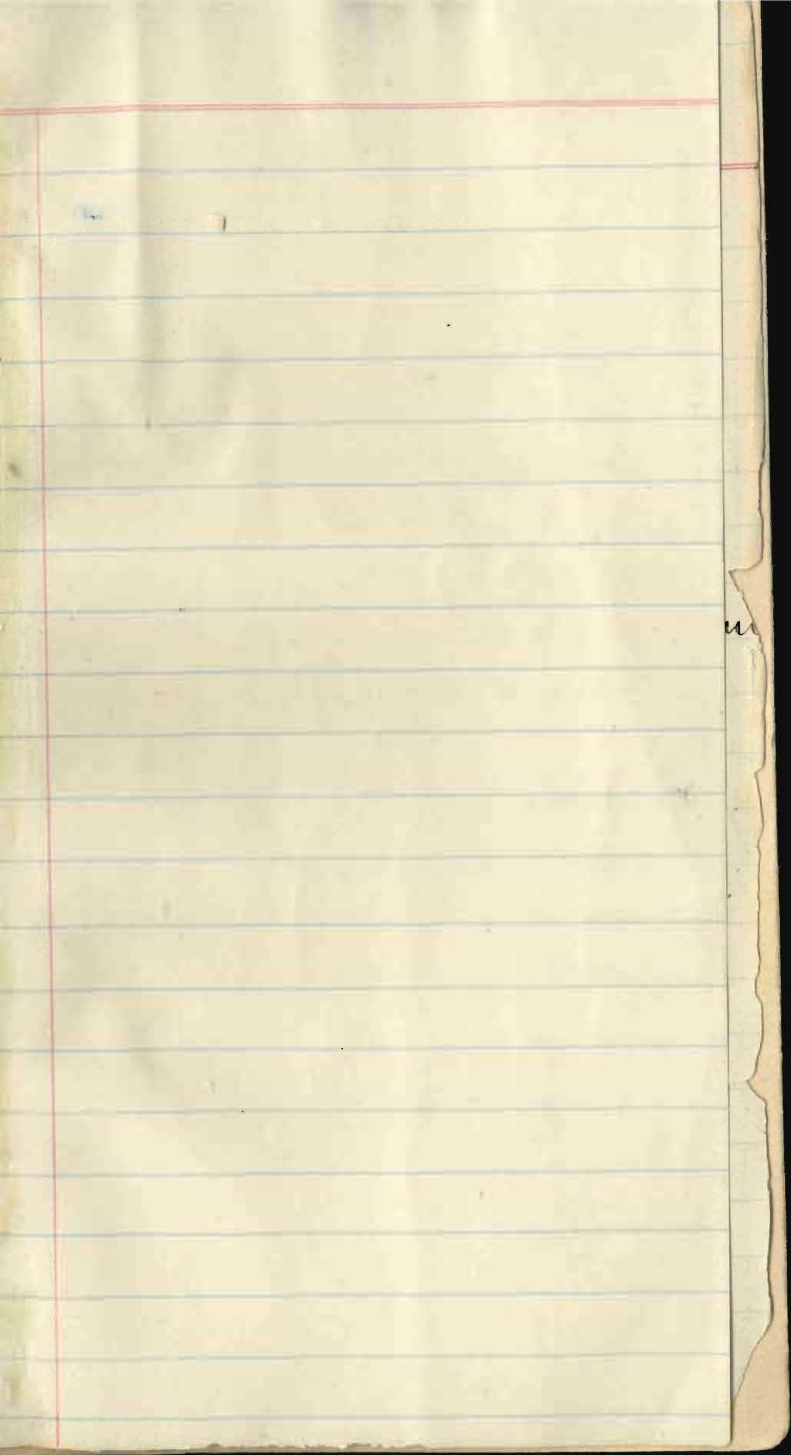
U. S. Deputy

Subscribed and sworn to before me, this  
day of January 1873

C. C. Wells  
Tenth Dist Court  
3<sup>d</sup> Dist. Arizona







List of Names.

Names of the individuals employed to assist  
ing, measuring, or marking the lines and corners  
in the foregoing Field Notes of the 5<sup>th</sup>  
and Parallels

South boundary of Townships 21  
of Range N<sup>o</sup> 4 West to the  
River in Range 22 West  
and Salt River Base and Meridian  
respective capacities in which they acted.

- |                  |             |
|------------------|-------------|
| Andrew J. Strope | Compassman. |
| Edward Byrne     | Chainman.   |
| Richard Celler   | Chainman.   |
|                  | Axeman.     |



Final Oaths of Assistants.

We hereby certify that we assisted Omar do for  
 United States Deputy Surveyor, surveys  
 The 5<sup>th</sup> Standard Parallel distance  
 The South boundary of Towns, and  
 North of Range No 4 West Notes of  
 Colorado river in Range 22  
 Gila and Salt river Basins and n

and that said Survey has been in all re'y Surveys  
 best of our knowledge and belief, well and fa  
 vored, and the boundary monuments planted  
 the instructions furnished by the Surveyor-General 6<sup>th</sup>

- Lydney Shropshire 3
- George Pappas 3
- Richard Keller 30

Subscribed and sworn to be  
 the 6<sup>th</sup> day of January 18

E. W. Wells  
 Clerk Dist Court  
 3<sup>rd</sup> Dist Arizona.