

WEST + SOUTH
BOUNDARIES

~~11~~
T 18 S R 20 E

CONTRACT 65

PHILIP CONTZEN

U.S.D. SUR

~~11~~

1529

1529

4-671

FIELD NOTES
GENERAL LAND OFFICE.

1529 BOOK

1529

1.

Field Notes
Of the survey of the
West and South Boundaries
Of
Township No 18 South
Range No 20 East
Of the
Sixth and Salt River Basins and Meridian
In the
Territory of Arizona
As surveyed by

Philip Cortzer
U. S. Deputy Surveyor

Under his contract No. 25
Dated May 22, 1900.

Survey commenced February 15, 1901.
Survey completed February 21, 1901.

BOOK 1529

Index

1 37 6

12 34 7

13 31 18

T 185; R 20 E.

South Bdry

4

24 29

19 West "

24.

25 26

30

BOOK 1529

36 24

32	33	34	35	36
18	16	14	12	10

20

6 5 4 3 2 1

South Boundary of Sp 18 South
Chavis

Survey commenced February 15, 1901, and executed with a Gregory light mountain transit, No. ⁴¹⁰⁰⁷ with a Burt's solar attachment. The instrument was examined and tested on the true meridian at Pineson and found correct, and was approved by the Surveyor General for Arizona.

Begin at the corner of Sp 17 and 18 S, R 19 and 20 E, which is a decayed post with marks obliterated. Destroy the same and reestablish the corner in the original place as follows.

Set a granite stone 18 x 10 x 10 ins, 12 ins in the ground for cor of Sp 17 and 18 S, R 19 and 20 E, marked with 6 notches on each edge, from which a mesquite 6

Range 20 East-Cumtongue

Chairs
ins diam, bears $N 74^{\circ} W$, 396 lbs
dist, marked S 17 S, R 19 E, S 36.
B.T., dug pits $30 \times 24 \times 12$ ins on each
line, N. E and W, 4 ft, and S of
stone 8 ft dist, and raised a
mound of earth 5 ft base $2\frac{1}{2}$ ft
high, S of cor.

In order to test the solar ap-
proxiatus by comparing the re-
sults of observations made on
the sun during a m. and p.m.
hours, with a true meridian de-
termined by observations on Polaris,
I proceed, as follows:

At the above described corner and
at $7^{\text{h}} 25^{\text{m}}$ p.m. local mean time, I
set off $31^{\circ} 54'$ on the latitude arc,
 $12^{\circ} 40'$ on the declination arc,
and mark the true meridian

South Boundary of Amships 18 South,
Chairs

Lines determined with the solar
by a cross wire stone, firmly set
in the ground, 5 chs north of the
instrument

At 9^h 30^m p.m., local mean time,
I observed Polaris at western elonga-
tion, in accordance with instru-
tions in the manual, and mark
the line thus determined by a
tack driven in a wooden plng,
set in the ground, 5 chs N of
my position.

February 15, 1901

February 16, 1901. At 7^h 30^m a.m.
local mean time, I lay off the
azimuth of Polaris $1^{\circ} 26'$ to the
east, and mark the true meri-
dian thus determined, by cutting

Range 20 East - Continued
Chain

a small groove cutting a small
groove in the stone set yesterday,
on which the true meridian
falls 0.2 in west of the mark de-
termined by the solar

At 9^h 15ⁱⁿ a.m., local mean time,
I set off 31° 54' on the latitude arc
12° 24' S on the declination arc, and
mark the true meridian, de-
termined with the star by a cross
on the stone already described,
5 chs north of my station. This
mark falls 0.15 ins west of the
true meridian determined by the
Polaris observation. The solar ap-
paratus by a number of observa-
tions, defines position for true
meridian about 0' 11" east, and
0' 8" west of the meridian de-

South Boundary of Ponslip 18 South,
 Chances terminated by the Polaris observa-
 tion. Therefore conclude that
 the adjustments of the instrument
 are satisfactory. The magnetic
 bearing of the true meridian at
 9.30 a.m. is $12^{\circ}31'$ west, the angle
 thus determined, reduced by the
 table, page 100, gives the mean
 magnetic declination $12^{\circ}27'$ East.

Thence I run south on a ran-
 dom line bet Sps 18 S, Pos 19 and
 20 ^{N.E.} as per instructions, setting temp
 $\frac{1}{4}$ sec and see cov. At 480 chs set
 temp cov to Sp 18 and 19 S, Pos 19
 and 20 E.

February 17, 1901

February 18, 1901. Thence I run
 East on a random line on south

Range 20 East - Continued

Chain Boundary of the Township, setting
 temp & sec and sec ens. At 478
 chs intersect E. bdy 66 lks S of
 the cor of Tps 18 and 19 S, R 20
 and 21 E, which is a decayed post
 lying on the ground. To establish
 the cor in the original place as
 follows:

Set a granite stone 18 x 8 x 5 ins,
 12 ins in the ground, for cor of
 Tps 18 and 19 S, Rs 20 and 21 E,
 from which old bearing tree, which
 is a mesquite 7 ins diam, bears S
 5° W, 9 lks dist, marked T 19 S,
 R 20 E, S 1 B. T. dug pits 30 x 24 x 12
 ins on each line, N, E and W, 4
 ft, and S of stone 8 ft dist, and
 raised a mound of earth 5 ft
 base, 2½ ft high, S of cor.

South Boundary of Township 18 South
February 18, 1901

February 20, 1901. The falling of the
random line answers to a correction
of $0^{\circ}05'$ or 11 lbs N per mile, and 2
lbs W, counting from the S.W. cor
of Sp, through P run
N $89^{\circ}55'$ W, on a true line bet
1 and 36

Over level and mountainous land
Descending

- | | |
|-------|--|
| 13.70 | Foot of descent |
| 20.20 | Top of little Knoll |
| 24.00 | Point |
| 27.00 | Top of ridge, bears N W and S E;
descend |
| 31.00 | Point |
| 35.00 | Ascend through dense grass and
and mesquite undergrowth |

Range 20 East - Continued

Chains

4000

Set a granite stone $18 \times 10 \times 6$ ins, 12 in the ground, for $\frac{1}{4}$ sec cov marked $\frac{1}{4}$ 36 on N and 1 on S faces, and raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft high, N of cov. Pits impracticable.

5000

Reserve

52.50

Wash 10 lbs wide, course southerly

8000

Set a granite stone $18 \times 12 \times$ ins, 12 ins in the ground, for cov of sec 1, 2, 35 and 36, marked with 1 notch on E and 5 notches on W edges, from which a mesquite 4 ins diam, bears $S 8^\circ E$, 153 lbs dist, marked S 19 S, R 20 E, S 1 B. T.

A mesquite 4 ins diam, bears $S 19\frac{1}{2}^\circ W$, 174 lbs dist, marked S 19 S, R 20 E, S 2, B. T.; no other trees within limit, and raise a

South Boundary of Township 18 South
Chain

round of stone 2 ft base, 1½ ft
high, W of cor. Pits impracticable
Land level and mountainous
Soil, gravelly; 3rd rate
Timber, some musquitos
Mountainous land or land covered
with dense undergrowth, 8000 chs

N 89° 55' W, on a true line bet sec
21 and 35.

Over level, rolling and mountainous
land

Through dense undergrowth

40.00

Set a granite stone 18 x 12 x 8, ins,
12 ins in the ground, for ¼ sec cor,
marked ¼ 35 on N and 2 on S face,
and raise a round of stone 2
ft base, 1½ ft high, N of cor.
Pits impracticable.

Range 20 East Continued

- Chains
48.00 Descend
- 50.25 Ravine, 15 lbs wide, course N westerly;
ascend
- 51.90 Spur, bears N W; descend.
- 56.60 Enter wash, course N easterly
- 67.50 Leave wash, course N easterly
- 69.00 Ravine 10 lbs wide, course S easterly
ascend
- 63.00 Head of ravine, top of ridge, bears
N E.
- 72.00 Top of spur, bears N. E.
- 73.30 Enter wash, 30 lbs wide, course
N easterly
- 76.60 Leave wash, course N easterly
- 77.50 Descend steep banks
- 8.00 Set a granite stone 18 x 10 x 6 ins,
12 ins in the ground for cor of
secs 2, 3, 34 and 35, marked with
2 notches on E and 4 notches on

South Boundary of Township 18 South
Chain

Wedges, from which a mesquite
3 ins diam, bears S $68\frac{1}{2}^{\circ}$ E, 68 lbs
dist, marked P 19 S, P 20 E &
a B. 7. dig pits 18x18x12 ins, in
secs 3, 34 and 35, $5\frac{1}{2}$ ft dist, and
raise a mound of earth 4 ft high,
a ft base, W of cor.

Land, level, rolling and mountainous
Soil, gravelly; 2^d and 3^d rates.

Timber, a few mesquites and cedar
undergrowth, toota and grasswood
Mountainous land or land covered
with dense undergrowth, 8000 chs

N $89^{\circ} 55'$ W, on a true line bet secs
3 and 34

Over level and rolling land
through dense toota and grass-
wood undergrowth

Range 20 East - Continued

- Chains
50 Wash 40 lbs wide, course N easterly
- 10.00 Wash 30 lbs wide, course S easterly;
ascend
- 14.00 Top of low ridge, S slope
- 33.00 Enter mesa
- 45.00 Set a granite stone 18x14x6 ins,
10 ins in the ground, for $\frac{1}{4}$ sec
cov. marked $\frac{1}{4}$ 34 on N and 3 on
S faces from which a mosquito
6 ins diam, bears S 82° E, 271 lbs
dist, marked $\frac{1}{4}$ S 3, B.T.
- A mosquito 3 ins diam, bears
N 46° W, 60 lbs dist, marked $\frac{1}{4}$
S 34, B.T.
- 46.00 Old road, bears S E and N W.
- 57.00 Road, bears S.E. and N W
- 63.10 Road, bears S E and N W
- 79.00 Old road, bears S E and N W
- 8.00 Set a granite stone 18x8x5 ins,

South Boundary of Township 18 South,
6 chains

12 ins in the ground for cor of sec
3, 4, 33 and 34, marked with 3
notches on E and 3 notches on W
edges; dig pits 18x18x12 ins in each
sec, 52 ft dist, and raise a mound
of earth 4 ft base, 2 ft high W
of cor.

Land, level and rolling

Soil, gravelly; 2^d rate

Timber, a few musquites; under-
growth, grasswood

Land covered with dense under-
growth, 8,000 lbs.

February 20, 1901.

February 21, 1901.

N 89° 55' W, on a true line bet
secs 4 and 33.

Over level and rolling land

Range 20 East (continued)

Chains

Through dense grasswood and
tesota undergrowth

10.70

Wash 10 lks wide, course S easterly

4.000

Set a sandstone 18 x 10 x 6 ins,
10 ins in the ground, for $\frac{1}{4}$ sec
cor, marked $\frac{1}{4}$ 33 on N and
4 on S faces, from which a
mesquite 10 ins diam, bears
N 85° E, 100 lks dist, marked $\frac{1}{4}$
see 33 B. 7.A mesquite 14 ins diam, bears
S 74° E, 162 lks dist, marked $\frac{1}{4}$
S 4, B. 7.

55.40

Leave dense undergrowth ~~and~~
~~undergrowth~~ and enter wash,
course S easterly

6.000

Leave wash, course S easterly
and reenter dense undergrowth

67.80

Island

South Boundary of Township 18 South
 Chains

68.80 Top of mesa, bears N W and S E.

8.00 Set a sandstone 18 x 6 x 6 ins, 12
 ins in the ground, for cor of sec
 4, 5, 32 and 33, marked with 4 notches
 on E and 2 notches on W edges
 from which a pale negro, 6 ins diam,
 bears S 54° E, 146 lbs dist, marked
 N 19 S, P 20 E, S 4, B. T., dug pits
 18 x 18 x 12 ins, in each sec 5 1/2 ft
 dist, and raised a mound of earth
 4 ft base, 2 ft high, W of ea
 land, level and rolling
 Soil, gravelly; 2^d and 3^d rates
 No timber, undergrowth, tesota
 and grasswood
 Land covered with dense un-
 dergrowth, 75.40 chs

N 89° 55' W, on a true line bet

Range 20 East-Continued

6 chains

secs 5 and 32

Over level land

Through dense trestle and grass
road underground

400

Set a sandstone $18 \times 8 \times 6$ ins, 12
ins in the ground, for $\frac{1}{4}$ sec cor,
marked 435 on N and 5 on S
faces, and raise a mound of
stone 2 ft base $1\frac{1}{2}$ ft high, N
of cor. Pit impracticable.

8000

Set a granite stone $18 \times 8 \times 8$
ins, 12 ins in the ground, for
cor of secs 5, 6, 31 and 32, marked
with 5 notches on E and \times notches
on W edges, from which a
somb mesquite 3 ins diam,
bears $S 35\frac{3}{4}^{\circ} E$, 155 lbs dist,
marked P 19 S, P 20 E, S 5, B. 7.

A mesquite 5 ins diam, bears

South Boundary of Township 18 South

Chanis S 21 $\frac{3}{4}$ ° W, 178 $\frac{1}{2}$ lks. dist, marked
P 19 S, R 20 E, S 6, B. 7.

A mesquite 3 ins diam, base
N 45 $\frac{1}{2}$ ° W 213 lks. dist, marked
P 18 S, R 20 E, S 31, B. 7, no other trees
within limit, and raise a mound
of stone 2 ft base, 1 $\frac{1}{2}$ ft high, W
of cor. Pits impracticable.

Land level.

Soil, gravelly, 2^d rate

No timber, undergrowth, greas-
wood and trestle.

Land covered with dense under-
growth, 8,000 chs.

X N 89° 55' W, on a true line bet sec
6 and 21

Over level land

Through dense trestle, grassland

Ranga 20 East Continued

Chains

and ocotilla

- 32.00 Enter wash, course N easterly
- 33.20 Leave wash, course N easterly
- 37.00 Wash 20 lbs wide, course N easterly,
Turner easterly
- 40.00 Set a sandstone 18x8x6 ins, 12
ins in the ground, for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ ~~30~~³¹ on N and $\frac{1}{4}$ ~~30~~³¹ on S
faces, from which a jumbo ins
drain, bears S 28° E 85 lbs
dist, marked $\frac{1}{4}$ S 6, B. 7.
- A mesquite 6 ins chain, bears
N 55 $\frac{1}{2}$ ° W, 75 lbs dist, marked
 $\frac{1}{4}$ S 31, B. 7.
- 67.90 Old road, bears S E and N W.
- 68.90 Wash 5 lbs wide, course S easterly
bears dense and enter scattering
ocotilla
- 78.00 Set a sandstone 20x10x6 ins, 12

South Boundary of Township 18 South
Chain

ins in the ground for cor. of Nos
18 and 19 S, Pos 19 and 20 E, marked
with 3 notches on each edge, from
which a scrub mesquite 3 ins diam,
bears S $80\frac{1}{2}^{\circ}$ W 316 lbs dist, marked
A 19 S, B 19 E, S 1 B. T. dug pits:
30 x 24 x 12ⁱⁿ, on each line, N, E and
W, 4 ft, and S of stones 8 ft, and
raised a mound of earth 4 ft base,
2 ft high, S of cor. San Jose
Prak, Sonna, bears S $28^{\circ} 53'$ E;
Dos Cabayas Prak bears N 54° E.
Land, Impl.

Soil, gravelly; 2^d rate

No timber; mangrowth grass-
land and toota, and some mesquite

Land covered with dense under-
growth, 68.90 chs.

February 21, 1901.

Range 20 East - Guelph
chain

General Description.

This line runs over level and rolling land and through dense undergrowth. There are occasional clumps of mesquite timber. There is no water along the line and the grass is poor.

The land south of the line is level and rolling and covered with dense undergrowth.

Philip Contzen
U. S. Deputy Surveyor

West Boundary of Township 18, South

Chains

C

February 23, 1901. I now proceed to establish the west boundary as a true line, therefore I run North on a true line bet sees 31 and 36

Over level and rolling land

Through scattering undergrowth

1.50

Old road, bears E and W

6.20

Wash 5 lks wide, course S easterly

20.20

Grch 10 lks wide, course S easterly and enter dense sotillo and mescal undergrowth

40.00

Set a granite stone 18x14x3 ins, 12 ins in the ground, for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ 36 on W and 31 on E faces, and raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft high, W of cor. Pitts impracticable.

43.00

Wash 10 lks wide, course S easterly

Range 20 East - Continued

- Chains
49.60 Old road, bears N W and S E.
- 53.40 Old road, bears N east
- 60.50 Wash 10 lks wide, course N easterly
- 65.70 Wash 5 lks wide, course N easterly
- 77.85 Enter wash, course easterly
- 79.60 Leave wash
- 80.00 Set a granite stone 18x10x6 in.,
10 ins in the ground for cor of
secs 25, 30, 31 and 36, marked with
1 notch on S and 5 notches on N
edges, from which a pine 8 ins
chain, bears S 35° E, 65 lks dist,
marked S 18 S, B 20 E, S 31, B 37
no other trees within limit,
and raise a ~~ground~~^{high} of stone 2
ft base, 1/2 ft ^{high} W of cor. Pile
impracticable.
- Land, level and rolling
Soil, gravelly and rocky; 3rd

West Boundary of Pinnslip 18 South
Chain

and 4th rats

Pinon, a few mesquites, tusote
and jano along washes; under-
growth, cecillo, mesquite and
grassland

Land covered with dense under-
growth, 59.80 chs

North and true line bet secs 25
and 30.

Over mountainous land

through dense undergrowth

8.80 Wash 5 lks wide, course easterly

9.40 Road, bears N.E. and S.W

22.60 Descend from mesa

23.00 Foot and enter draw, bears N.E.
and S.W.

27.70 Wash 30 lks wide, course N easterly

28.00 Leave wash, course N easterly and

Range 20 East - Continued
Chains

- ascend along E slope of spur
of Whetstone Mountains; leave
dense undergrowth
- 39.00 Top of slope; descend
- 39.60 Shaft 4 x 6 x 10 ft on line
- 40.00 Set a granite stone 18 x 10 x 7 ins,
12 ins in the ground, for $\frac{1}{4}$ sec
cov, marked $\frac{1}{4}$ 25 NN W and
31 NN E faces, from which a
marginal 20 ins grain bears
S 81 $\frac{1}{2}$ ° E, 259 lbs dist, marked
 $\frac{1}{4}$ S 30, B. T., and raise a mound
of stone 2 ft base, 1 $\frac{1}{2}$ ft high,
W of cov. Pit impracticable.
- 43.00 Old shaft, bears 30 lbs E;
Old shaft bears 2 lbs W
- 46.00 Foot of descent; wash 20 lbs
wide, course easterly; ascend
- 55.30 Wash 15 lbs wide, course S

West Boundary of Township 18 South
Chains

- eastly
- 65.11 Dip of limestone ridge, bears
C and W, descend.
- 74.00 Wash 30 lbs wide, course N
eastly; ascend
- 80.00 Set a sandstone 18x12x6 ins, 12
ins in the ground, for cor of sec
19, 24, 25 and 30, marked with
2 notches on S and 4 notches
on N edges, and raise a mound
of stone 2 ft base, 1 1/2 ft high, W
of cor. Pits impracticable.

Land mountainous
Soil, gravelly, rocky and mineral.
3^d and 4th rates

Timber, a few mesquite; un-
dergrowth, mesquite and
ocotillo.

Mountainous land or land covered

Range 20 East - Continued
 chain with dense undergrowth, 30.00 ch

North on a true line bet secs
 19 and 24.

Over mountainous land
 Descending along E slope of
 ridge.

- 11.00 Top; descend
- 17.10 Gulch 40 lbs wide, course easterly;
 thence southerly
- 21.35 Road, bears N W and S. E.
- 26.00 Top of ridge, bears E and W;
 descend
- 27.70 Gulch 10 lbs wide, course easterly,
 ascend
- 33.00 Top of ridge, bears E and W
- 33.00 Descend
- 36.00 Gulch 5 lbs wide, course easterly
- 40.00 Set a granite stone 18x12x6

West Boundary of Township 18 South
Chains

ins, 12 ins in the ground for $\frac{1}{4}$
sec cor, marked $\frac{1}{4}$ 24 on W and
19 on E edges, and raise a mound
of stone 2 ft base, $1\frac{1}{2}$ ft high W of
cor. Pits impracticable.

44.00 Descend

51.80 Wash 20 lbs wide, course easterly
ascend

59.00 Dip of ascent; ascend

60.30 Foot and into rolling land and
dense *tesota* undergrowth

71.70 Wash 30 lbs wide, course easterly

78.90 Wash 10 lbs wide, course N easterly

80.00 Set a sandstone 18 x 8 x 5 ins, 12
ins in the ground, for cor of sec
13, 18, 19 and 24, marked with 3
notches on S and 3 notches on N
edges, from which a mesquite
12 ins diam, bears S $41\frac{1}{2}$ E, 81

Range 20 East - Continued

Chains

lbs dist, marked S 18 S, R 20 E,
S 19 B. 7; dug pits 18x18x12
ins in secs 13, 18 and 24, 5 1/2 ft
dist, and raised a mound of
earth 4 ft base, 2 ft high, W
of cor.

Land, mountainous

Soil, gravelly and rocky; 3rd
and 4th rates

Timber, a few mesquite; in-
distinguishable, teotas and mesquite

Mountainous land or land
covered with dense under-
growth, 8,000 lbs.

February 23, 1901

February 24, 1901.

North on a true line bet secs
13 and 18,

West Boundary of Township 18 South
Chassis

- Overrolling land
- 5.40 Entrenched *trisetosa* undergrowth
- 13.00 Wash 30 lbs wide, course easterly
- 16.70 Wash 20 lbs wide, course easterly
- 26.00 House, brass 27 lbs W
- 35.10 Wash 20 lbs wide, course N
easterly
- 41.00 Set a granite stone 18x12x6
ins, 12 ins in the ground for $\frac{1}{4}$
sec cor, marked $\frac{1}{4}$ 13 on W and
18 on E faces, from which an
oak 7 ins diam, bears N $79^{\circ}\frac{3}{4}$ E,
97 lbs dist, marked $\frac{1}{4}$ S 18 B. 17.
An oak 10 ins diam, bears N
 81° W, 53 lbs dist, marked $\frac{1}{4}$ S
13, B. 17.
- 43.40 Wash 5 lbs wide, course easterly
- 46.00 Low dense *trisetosa* undergrowth

Range 20 East - Continued

- chains
50.90 Wash 11 lks wide, course easterly
57.90 Wash 10 lks wide, course N easterly
58.30 Bond, bears N E and S W
61.00 Loral, bears 11 lks N
64.70 Wash 15 lks wide, course N easterly
66.00 Wash 20 lks wide, course N easterly
71.00 Wash 5 lks wide, course easterly
81.00 Set a granite stone 18x8x8 ins,
12 ins in the ground for 2 or 3 ins
7, 12, 13 and 18, marked with 4
notches on S and 2 notches on N
edges, from which a mesquite
14 ins diam, bears N 15° E, 142
lks dist, marked P 18 S, R 20 E,
S 7 B. 7.

A mesquite 11 ins diam,
bears S 33 3/4° E, 389 lks dist,
marked P 18 S, R 20 E, S 18,
B. 7.

West Boundary of Township 18 South
 Chanis

A mesquite 8 ins diam, base
 N 66 $\frac{1}{4}$ ° W, 161 lks dist, marked
 S 18 S, R 19 E, S 12, B. 77 dug pit
 28 x 18 x 12 ins in S 13, 5 $\frac{1}{2}$ ft dist
 from stem and raised a mound
 of earth 4 ft base, 2 ft high,
 top of soil.

Land, rolling.

Soil, gravelly; 2^d and 3^d rate
 timber, scattering oak; under-
 growth, *tristia*.

Land covered with dense un-
 dergrowth, 41.00 chs

North water line bet sec
 7 and 12

Over mountainous land

Asceresing

.50 Wash 50 lks wide, course N nearly

Range 20 East-Continued

- Chain
13.80 Wash 15 lks wide, course N easterly
- 19.00 Wash 30 lks wide, course S easterly
- 21.20 Bend, bears N W and S E.
- 24.50 Old road, bears E and W
- 28.20 Top of ascent
- 32.90 Foot of descent; wash 5 lks wide, course N easterly
- 35.50 Wash 28 lks wide, course easterly
- 37.00 Foot; ascent
- 39.00 Top of ridge, bears E and W
- 40.00 Set a granite stone 18x8x8 ins 12 ins in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ 12 on W and 7 on E faces, from which an oak 4 ins diam, bears N $19\frac{1}{4}^{\circ}$ E, 51 lks dist, marked $\frac{1}{4}$ S 7 B 7
- An oak 4 ins diam, bears N $74\frac{1}{4}^{\circ}$ W, 81 lks dist, marked $\frac{1}{4}$ S 12, B. T.

West Boundary of Township 18 South

- Chains
- 41.20 Wash 10 lks wide, course easterly
- 43.50 Top of ridge, bears E and W
- 53.60 Wash 5 lks wide, course westerly
- 61.30 Wash 10 lks wide, course N easterly
- 63.80 Old road, bears E and W
- 71.00 Wash 25 lks wide, course N easterly
- 76.30 Top of ridge, bears N E and S W
- 79.30 Wash 10 lks wide, course N E.
- 81.1111 Set a granite stone 18 x 8 x 6
ins, 12 ins in the ground for
cor of secs 1, 6, 7 and 12, marked
5 notches on S and 1 notch on N
edges, from which an oak 4 ins
diam, bears S $72\frac{1}{2}^{\circ}$ E, 66 lks dist,
marked P 18 S, R 20 E, S 7, B. T.
- An oak 4 ins diam, bears
S $36\frac{1}{2}^{\circ}$ W, ^{103 lks dist} marked P 18 S, R
19 E, S 12, B. T., no other trees
within limit, and raised a

Range 20 East - Continued

Chain

mound of stone 2 ft base, 1 1/2 ft high, top of cor. Pits impracticable.

Land, mountainous

Soil, gravelly; 3^d rate

Timber, scattering oak

Mountainous land, 8000 chs

Northern a true line bet sec 1 and 6.

Over mountainous and level land

Ascending

0.00 Top of ridge, bears E and W; descend

1.40 Wash 30 lks wide, course easterly; ascend

18.50 Top of ridge, bears E and W; descend

West Boundary of Farmslip 18 South

- Chains
26.00 Top of ridge, bears N E and
S W, descend
- 29.70 Wash 5 lks wide, course N easterly
- 32.50 Top of ridge, bears N E and S W,
descend
- 36.20 Wash 10 lks wide, N easterly;
ascend
- 41.50 Top of ridge, bears N E and S W,
descend;
- 40.00 Set a granite stone 18 x 10 x 4 ins,
12 ins in the ground, for $\frac{1}{4}$ sec cor.
marked $\frac{1}{4}$ 1 on W and 6 on E faces,
dug pits 18 x 18 x 12 ins, N and S of
stone, 3 ft dist, and raised in mound
of earth, $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high.
W of cor.
- 51.50 Wash 100 lks wide, course N
easterly
- 54.00 Ascend

Range 20 East - Continued

Chams
58.50 Top of ascent, bears E and W,
road bears NE and SW, and
enters level land

8000 The cor of the 17 and 18 S, Pos 19
and 20 ~~x~~^{NE.} as heretofore described
Land, mountainous and level
Soil, gravelly; 2 and 3 rats
Timber, scattering oak
Mountainous land, 58.50 ch

General Description

This line runs over mountainous
land along the eastern slope of
the Whetstone mountains. The
soil is generally gravelly. Oak tim-
ber abounds along the line. There
is a good growth of nutritious grass
along the whole line. In Sec 13
there is a fair spring of water.

West Bdy of S 18 S, R 20 E - Concluded
6 chains

The land west of the line is
mountainous.

Philip Conzen
W. S. Deputy Surveyor.

185 Q20 C.

Boundaries of T. 20. S. R. 4. E.
Latitudes, Departures and Closing Errors

LINE DESIGNATED	True Bearing	Distance	Latitudes		Departures	
			N	S	E	W.
✓ S. Boundary	N 89° 55' W	478.00	69			478.00
✓ W. Boundary	North	480.00	480.00			
N. Boundary	East	478.95				478.95
E. Boundary	South	81.91		81.91		
"	"	39.70		39.70		
"	S 0° 39' W	39.33		39.33		45
"	SOUTH	160.00		160.00		
"	S 0° 39' W	79.14		79.14		.90
"	SOUTH	80.05		80.05		45
" CONVERGENCY						
ERROR IN LAT			480.69	480.13	480.13	479.40
			480.13			479.35
			.56			ERROR IN DEP. 05