

SUBDIVISIONS
T20S R12E

2

CONTRACT-78
PH. CONTZEN
U.S. DEP. SUR

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No. 974

BOOK 974

4-671

974

FIELD NOTES
GENERAL LAND OFFICE.

60

Indexed, Book 973

Township 20S R. 12E

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Subdivision of Township 20 S.

Chains	Sits impracticable
	Land, mountainous
	Soil gravelly, 3 rd and 4 th rate
	Timber, some scattering mesquite
	Mountainous land, 69.00 chs
	$N 89^{\circ} 59' E$. On a random line bet ^{5/8} 22 and 27
40.00	Set kump $1/4$ sec cor
80.00	Intersect N and S line 10 lbs S of cor of sees 22, 23, 26 and 27 Thence Run $S 89^{\circ} 55'$ West on a true line bet sees 22 and 27
.00	Over mountainous land
19.00	Ascending
2.00	Top of ridge, bears N E and S W.
2.00	Down
35.20	Fort; width 10 lbs wide, course

Range 12 East Continued

- Chain
4000 N easterly
Set a malpais stone 18x12x5 in,
12 in in the ground for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 22 on N face and 27
on S face, from which a mesquite
8 in diam, bears N 39° W, ^{106 lbs dist} marked
 $\frac{1}{4}$ S 22, B T.
- A mesquite 8 in diam, bears S
24 $\frac{1}{2}$ W, 193 lbs dist, marked $\frac{1}{4}$ S
27, B T.
- 66.00 Top and descend, ridge bears N E
- 70.60 Wash 10 lbs wide, course N easterly
ascend.
- 8000 The cor of 21, 22, 27 and 28.
Land mountainous.
Soil gravelly; 3rd rate
timber, some scattering mesquite.
Mountainous land, 80 lbs

April 3, 1901.

Subdivision of Township 20 S

Chains

April 4, 1901, at 7^h 40^m a.m. C.M.C.,
 P set off 31° 40' on Lat are, 5° 35' N on decl
 are, and determine a true meridian
 with the solar at the cor to sees 21, 22,
 27 and 28.

Thence I run

N 0° 1' W bet sees 21, and 22

Over mountains and level land

Ascending

1.00

Top, bears E and W

2.00

Descent

15.00

Foot

16.44

Wash 20 lks wide, course N easterly

19.60

Wash 80 lks wide, course easterly

23.00

Ascend

26.00

Top

36.00

Wash 10 lks wide course easterly

37.60

Wash 10 lks wide, course easterly

40.00

Set a granite stone 18 x 14 x 4 ins,

Range 12 East - Continued

Chain

12 ins in the ground for $\frac{1}{4}$ sec cor,
marked 14 21 on W face and 22
on E face, and raise a mound of
stone $2\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high W of
cor. Pits impracticable; ascend

48.00 Legend

49.00 Prospect hole, bears 2 chs W

53.00 Foot

54.00 Wash 10 lks wide, course easterly;
ascend

57.00 Top, bears E and W.

60.00 Descend, bears N E and S W.

68.00 Foot

69.00 Wash 10 lks wide, course S easterly,
descend

77.00 Top of ridge, bears S E; descend

81.00 Set a granite stone $18 \times 8 \times 7$ ins, 12
ins in the ground for cor of sec
15, 16, 21 and 22, marked with 3

Subdivision of Township 20 S.

Chains

notches on S and 3 notches on E
edges, and raise a mound of stone
2 ft base, 1 1/2 ft high W of cor. Pitt
impracticable.

Land, mountainous and level
Soil, gravelly and rocky, 3rd and
4th rate.

No timber

Mountainous land, 6000 chs

N 89° 55' E, on a random line bet sees
15 and 22

4000 Set trap 1/4 sec cor

8000 Put west N and S line 10 lbs W of
of the cor of sees 14, 15, 22 and 23.

Thence P run west on a true line
bet sees 15 and 22

Over rolling and mountainous land.
Ascending

Range 12 East - Continued

Chains
5.00

Pop, bear N.E.

7.00

Kessend

13.00

Enter (wash) small valley and enter
draw undergrowth

14.00

Wash 40 lks wide, course N easterly

15.00

Same wash, course S easterly

26.00

Same wash 40 lks wide, course easterly

40.00

Point for $\frac{1}{4}$ sec falls in wash 40 lks
wide, course S. easterly; leave dense
undergrowth

43.00

Set a sandstone $18 \times 12 \times 8$ ins, 12 ins in
the ground for witness cor to $\frac{1}{4}$ sec cor
marked W.C. $\frac{1}{4}$ 15 on N face and 22
on S face, from which a mesquite 8
ins diam, bears N $57\frac{1}{2}^{\circ}$ W, 233 lks dist,
marked ^{W.C.} $\frac{1}{4}$ S 18' B 7'

A mesquite 8 ins diam, bears S $31\frac{1}{2}^{\circ}$
W, 25 lks dist, marked W.C. $\frac{1}{4}$ S 22
B. 7'

Subdivision of Township 20 S.

Chain 48.00	Wash 10 lks wide, Course N easterly
59.20	Wash 20 lks wide, Course N easterly
65.00	Ascend gradually
80.00	The cor of sees 15, 16, 21 and 22 Land rolling and mountainous Soil gravelly, 3 rd rate Timber, mesquite; undergrowth, mesquite, texas and yucca. Mountainous land and land covered with heavy timber, 55.00 lks.

1	N ^o 01 N, bet sees 15 and 16. Ascending gradually.
111.80	Wash 10 lks wide, Course S. easterly
15.80	Wash 10 lks wide, Course S. easterly
22.00	Top of ascent; descend
40.00	Set a granite stone 16x8x3 ins, 10 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ 16 on W face and

Range 12 East - Continued

Gains

15 on E face, from which a mesquite
6 ins diam, bears $N 83\frac{1}{2}^{\circ} E$, 98 lks dist,
marked $\frac{1}{4} S 15 13 7$

A mesquite 12 ins diam, bears S
 $35^{\circ} W$, 95 lks dist, marked $\frac{1}{4} S 16 B. T.$

40.30

Wash 20 lks wide, course N easterly

42.40

Wash 20 lks wide, course N . easterly.
ascend

64.00

Top of ridge, bears $N W$ and $S E$

66.00

Wash 10 lks wide, course N . easterly

69.00

Ascend

71.00

Top, bears $N W$ and $S E$

72.00

Descend

76.00

Point

78.00

Wash 10 lks wide, course easterly

80.00

Set a granite stone $18 \times 12 \times 6$ ins
12 ins in the ground for cor of sec
9, 10, 15 and 16, marked with 4
notches on S and 3 notches on E

Subdivision of Township 20 S

Grains

edges, from which a mesquite 6
ins diam, bears $N 60^{\circ} E$, 260 lks dist,
marked P 20 S, R 12 E, S 10 B 77

A mesquite 4 ins diam, bears $S 23^{\circ}$
E, 228 lks dist, marked P 20 S, R 12
E, S 15 B 77

A mesquite 14 ins diam, bears S
 $(34^{\circ} W)$, 162 lks dist, marked P 20 S,
R 12 E, S 16, B 77

A mesquite 5 ins diam, bears $N 35^{\circ}$
W, 30 lks dist, marked P 20 S, R 12 E,
S 9 B 77

Land level and rolling
Soil gravelly, 2^d and 3^d rate
Timber, scattering mesquite
Mountainous land 7000 lks

East on a random line bet sec
10 and 15

4000 Set temp 1/4 sec cor

Range 12 East - Continued

- Chains
86.60 Intersect N and S line at cor to
over 10, 11, 14 and 15
Thence Drum
West on a true line bet sees 10 and 15
- 34.60 Enter flat
- 40.00 Set a malpais stone 18x10x6 ins,
12 ins in the ground for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 10 on N face and 15 on
S face, from which a mesquite 8 ins
diam, bears N $51\frac{1}{2}^{\circ}$ W, 49 lbs dist,
marked $\frac{1}{4}$ S 10 B 77
- A mesquite 5 ins diam, bears S,
 $19\frac{3}{4}^{\circ}$ W, 15 lbs dist, marked $\frac{1}{4}$ S 16 B 77
- Malpais Knoll, bears 15' chs S
- 43.50 Leave flat, bears E, N. E
- 46.00 Enter wash
- 51.50 Wash 30 lbs wide, course, N. easterly
- 52.00 Ascend
- 56.00 Top, bears N W and S E

Subdivision of Township 20 S

Chains	
60.80	Wash 10 lks wide, course northerly
67.00	Wash 20 lks wide, course N easterly
76.90	Wash 10 lks wide, course N easterly
80.00	The cor of sees 9, 10, 15 and 16
	Land level and rolling
	Soil gravelly, 2 ^d and 3 rd rate
	Timber, scattering mesquite
	April 4, 1901

April 5, 1901, at 8^h 40^m a.m., lmt
 Port off 31° 42' on Lat are, 5° 59' N on
 declare, and determine a true meridian
 with the solar at the cor to sees 9, 10,
 15 and 16

Thener Brun

N 0° 01' W bet sees 9 and 10

Cor level and rolling land

7.00 Top of ridge, bears E and W,
 drs and

Range 12 East - Continued

- Chains
17.00 Resend
- 25.10 Wash 10 lks wide, course N westerly;
ascend
- 38.60 Pop
- 40.00 Set a granite stone $22 \times 16 \times 4$ ins,
16 ins in the ground for $\frac{1}{4}$ sec' cor,
marked $\frac{1}{4}$ 9 on W face and 10 on
E face, from which a mesquite
8 ins diam, bears N $57\frac{1}{2}^{\circ}$ E, 137 lks
dist, marked $\frac{1}{4}$ S 10 B 7
- A mesquite 8 ins diam, bears N
 $39\frac{1}{2}^{\circ}$ W, 144 lks dist, marked $\frac{1}{4}$ S
9 B 7
- 68.00 Resend
- 80.00 Set a granite stone $18 \times 10 \times 8$ ins
12 ins in the ground for cor of sec
3, 4, 9 and 10, marked with 5' notches
on S and 3 notches on E edges,
from which a mesquite 15 ins

Subdivision of Township 20 S.

Chains
 diam. bears $N 39\frac{1}{2}^{\circ} E$, 40 lks dist,
 marked P 20 S, R 12 E, S 3 B 7

A mesquite 6 ins diam, bears $S 9\frac{1}{2}^{\circ} E$, 200 lks dist, marked P 20 S, R 12 E,
 S 10 B 7.

A mesquite 6 ins diam, bears $S 29\frac{3}{4}^{\circ} W$, 171 lks dist, marked P 20 S,
 R 12 E, S 9 B 7.

A mesquite 8 ins diam, bears
 $N 85^{\circ} W$, 33 lks dist, marked P 20 S
 R 12 E, S 4 B 7

Land level and rolling

Soil gravelly $6\frac{1}{2}$ rats

Timber, scattering mesquite.

Mountainous land 42.00 Chs

East on a random line bet sees

3 and 10

40.00 Set trap 1/4 sec cor

80.04 Intersect N and S line 12 lks

Range 12 East, Continued

Chains

N of cor to sees 2, 3, 10 and 11

Thence Brum

N $89^{\circ}55'$ W, on a true line bet sees
3 and 10

Over level and mountainous land

2.20

Wash 15 lks wide, course N easterly.

5.00

Ascend

6.00

Top; descend

10.00

Foot

12.00

Wash 10 lks wide, course N easterly;
Ascend

16.00

Top of ridge, bears N W and S E.

34.80

Trail, bears N and S.

40.02

Set a malpais stone 18x8x8 ins,
12 ins in the ground for $\frac{1}{4}$, see cor,
marked $\frac{1}{4}$ 3 on N face and 10
on S face, from which a mesquite
4 ins diam, bears N $65^{\circ}2'$ E 14 lks
dist, marked $\frac{1}{4}$ S 3, B 7.

Subdivision of Township 20 S

Chains	A mesquite 3 in diam, bears S 47 $\frac{1}{4}$ ° W, 82 lks dist, marked $\frac{1}{4}$ S 10 B. T.
46.00	Descend.
49.00	Foot.
51.00	Ascend.
53.00	Top, bears N E and S W
56.00	Descend, ridge bears N E, and S W
61.70	Foot
62.10	Wash 15 lks wide, course N easterly
63.90	Wash 15 lks wide, course easterly; ascend
70.00	Top, bears N and S.
80.04	The cor of secs 3, 4, 9, and 10 Land level and mountainous Soil, gravelly; 2 nd and 3 ^d rate Timber, scattering mesquite and palo verde. Mountainous land, 44.00 chs

Range 12 East, continued

Chain

N⁰ 01' W, bet. secs 3 and 4

Over level and mountainous land

5.00 Descend

7.50 Top, and descend

9.70 Foot; wash 10 lks wide, course S
easterly; ascend.

12.30 Top, bears N 6 and S 10.

15.70 Descend

18.00 Foot

20.40 Wash 30 lks wide, course N easterly

33.70 Ascend

34.90 Top

36.30 Descend

40.00 Set a granite stone 18x8x6 in, 12
in in the ground for 1/4 sec cor.,
marked 1/4 4 on W face and 3 on
E face, from which a mesquite 4
in diam, bears N 25° E, 66 lks dist,
marked 1/4 S 3, B. T.

Subdivision of Township 20 S

Chains

- A mesquite 8 in diam, bears N
67 1/4 W, 136 lbs dist, marked 74 S
4 B. T.
- 40.50 Foot
- 40.70 Wash 10 lbs wide, course easterly; ascend.
- 42.30 Top; descend
- 43.60 Foot; wash 10 lbs wide, course S easterly
- 46.30 Top of ridge, bears E and W
- 47.70 Descend
- 61.10 Foot and enter Sopon Valley bears E & W
- 61.30 Road to Arivaca, bears E and W
- 61.54 Brush fence, bears W and E
- 63.63 Wire fence, bears W and S E
- 68.26 Wire fence, bears N W and S E
- 72.10 Wire fence, bears N W and S E
- 72.60 Right bank of Sopon river
- Set a sandstone 18+14x10 ins, 12 ins
in the ground, for ^{meander cor of} frac^s sec^s 3 and 4,
marked M on N face with 3 grooves

Range 12 East. Continued

Chains

on E face from which a willow 18
ins diam bears $S 28\frac{1}{2}^{\circ} W$, 147 lks dist,
marked P 20 S, P 12 E, S 4, M.C. 13 T,
dug pit 36x36x12 ins, 8 ft S of cor
and raised a mound of earth 4 ft
base, 2 ft high S of cor

74.50

Left bank upon river

Set a granite stone 18x12x10 ins,
12 ins in the ground for meander
cor of parcel sees 3 and 4, marked
M.C. on S face with 3 grooves on
E face; dug a pit 36x36x12 ins, 8
ft N of cor and raised a mound
of earth 4 ft base, 2 ft high N of
cor

80.70

Intersect N boundary of Township
2.90 chs N, $89^{\circ} 50' E$, of cor to sees 33
and 34

Set a granite 18x12x4 ins, 12 ins

Subdivision of Township 29 S
 Chains in the ground for closing cor of secs
 3 and 4, marked C on S with 3
 notches on E and 3 notches on W edges,
 from which a willow 24 ins diam
 bears $\text{S } 60^{\circ} \text{ E}$, 7.45 chs dist, marked
 $\text{P } 20 \text{ S}$, $\text{R } 12 \text{ E}$, $\text{S } 3$, $\text{B } 7$

A mesquite ins diam, bears $\text{S } 74^{\circ} \text{ W}$,
 1.53 chs dist, marked $\text{P } 20 \text{ S}$, $\text{R } 12 \text{ E}$,
 $\text{S } 4$, $\text{B } 7$.

Low level and mountainous
 Soil gravelly, 1st and 3^d rate
 Timber, mesquite
 Mountainous land 2610 chs.

April 5, 1901.

April 6, 1901, at 9^h 30^m, a.m., l.m.t.
 Set off $31^{\circ} 40' \text{ N}$ on the Lat arc $6^{\circ} 44'$
 N on the decl arc, a determine a true
 meridian with the solar at the cor

Range 12 East, Continued

Chains

To sees 21, 22, 27 and 28.

Hence Run

West on a true line bet sees
21 and 28

Over mountainous land

6.00 Top, bears N E, and S W

11.50 Legend

18.20 Foot, wash 10 lks wide, course N
easterly

26.00 Top of ridge, bears N E and S W

27.00 Legend

33.00 Foot

33.20 Wash 10 lks wide, course N easterly

34.80 Legend

40.00 Set a granite stone 18x12x10 ins,
12 ins in the ground for 44 sec
Co., marked 44. 21 on N face and
28 on S face, and raise a mound
of stone 2 1/2 ft base, 1 1/2 ft high N

Subdivision of Township 20 S

Chains	of cor, Pits impracticable
45.00	Top of ridge, bears N E and S W
55.00	Foot, and ascend
76.00	Top of slope
77.00	Descend
80.00	Set a granite stone 18x10x6 ins, 12 ins in the ground for cor of secs 20, 21, 28 and 29, marked with 2 notches on S and 4 notches on E edges, and raise a mound of stone 2½ ft base, 1½ ft high W of cor, Pits impracticable!
	Land, mountainous
	Soil, gravelly, 3 ^d rate
	Timber, a few scattering mesquite
	Mountainous land, 80.00 ch

N 0° 02' W, bet secs 20 and 21
Over mountainous land

Range 12 East - Continued

- Chains
- 4.50 Descending
- 6.00 Wash 20 lbs wide, course easterly
- 7.00 Foot; ascend
- 11.50 Top
- 12.50 Descend
- 12.90 Foot
- 16.20 Wash 10 lbs wide, course easterly
- 22.30 Ascend
- 26.30 Top of white ridge, bears E and W
- 28.00 Descend
- 39.50 West slope of 2 hills
- 40.00 Set a granite stone 18+8+7 in.
12 in in the ground for $\frac{1}{4}$ sec
20, marked $\frac{1}{4}$ 20 on W
and 21 on E faces from which
a mesquite 8 ins diam, bears
E, 39 lbs dist, marked $\frac{1}{4}$ S 21,
B.T., no other trees within limits.

Subdivision of Township 20 S,

- Chains and raise a mound of stone $2\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, W of cor. Ots ridge
- 40.90 Same wash, 10 lbs wide, course N easterly.
- 41.30 Same wash, 10 lbs wide, course N easterly
- 42.30 Wash 10 lbs wide, course N easterly
- 43.00 Ascend
- 58.50 Top of ridge, bars E and W
- 59.00 Descend along edge of slope
- 65.00 Foot
- 65.50 Ascend
- 77.30 Top, bars E and W.
- 77.40 Descend
- 80.00 Set a granite stone $18 \times 14 \times 6$ ins, 12 ins in the ground for cor of secs 16, 17, 20, and 21, marked with 3 notches on S and 4 notches on E edges, from which a mesquite 12

Range 12 East, Continued

Chain

Iron diam bears $S 82^{\circ} 4' W$, 92 lbs
 dist, marked $S 20 S$, $R 12 E$, $S 20$
 $B T$, no other trees within limits,
 and raise a mound of stone $2\frac{1}{2}$
 ft base, $1\frac{1}{2}$ ft high W of cor.

~~Pits~~ *improvements*
 Land, mountainous

Soil, gravelly and rocky, 2^d and
 3^d rate.

Timber, a few scattering mesquite
 Mountainous land, 80 chs

East on a random line bet sees
 16 and 21.

4000 Set trip 1/4 sec cor

80.24 Intersect N and S line 5 chs

S of cor to sees 15, 16, 21 and 22

Thence, Run

$S 89^{\circ} 57' W$, on a true line bet sees
 16 and 21

Subdivision of Township 20 S

Chains	Over mountainous land; ascending
7.00	Top; descend
8.00	Foot
8.30	Wash, 10 lks wide, course, S easterly
16.30	Same wash, 10 lks wide, course S easterly
40.12	Set a malpais stone 18x14x8 ins, 12 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ 16 on N face, and 21 on S face, and raise a mound of stone 2 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high, N of cor, pits impracticable
41.60	Top of malpais Mt; round peak, bears 4 chs S; descend
50.40	Foot; wash 20 lks wide, course N easterly; ascend.
56.00	Top; descend
60.40	Wash, 30 lks wide, course N easterly; ascend N slope of hill.

Range 12 East Continued

- Chain
77.80 Top of ascent; descend
- 80.24 The cor of secs 16, 17, 20 and 21.
Land, mountainous
Soil gravelly and rocky, 2nd and
4th rate.
Timber, scattering mesquite
Mountainous land, 80.24 Chs
- 70° 02' W, bet secs 16 and 17.
Over mountainous land
- 30.00 Foot of descent.
- 40.00 Set a granite stone 18x12x12 in.,
12 in in the ground for 1/4 sec cor,
marked 1/4 17 on W face and 16 on
E face, and raise a mound of stone
2 ft base, 1 1/2 ft high W of cor.
Pits impracticable.
- 51.00 Wash 10 lbs wide, course E. N. easterly;
ascend

Subdivision of Township 20 S

Chains 61.00	Top of ridge, bears S E; descend
67.00	Foot
67.60	Wash, 10 lks wide, course S easterly; ascend gradually
80.00	Set a sandstone $18 \times 8 \times 8$ ins, 12 ins in the ground for cor of secs 8, 9, 16 and 17, marked with 4 notches on S and E. edges, and raise a mound of stone $2\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high W of cor. Pits impracticable. Land mountainous Soil gravelly, 3 rd and 4 th rate No timber Mountainous land, ranches April 6, 1901.

\wedge $N 89^{\circ} 57' E$, in a random line bet secs
9 and 16

40.00 Set temp $1/4$ sec cor

Range 12 East, continued

Chain
80.20

Intersect N and S line 8 lbs
N of top of 9, 10, 15 and 16
Thence S, run

West on a true line bet sees 9
and 16.

Over mountainous land

Ascending through scattering brush
16.00 Top of slope, bears S

17.00 Second

25.00 Wash 30 lbs wide, course northerly

28.00 Ascend

40.10 Set a granite stone 18x12x10 ins.
12 ins in the ground for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 9 on N face and 16
on S face, and raise a mound of
stone 2 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high N of
cor. Pits impracticable

46.40 Top of slope, bears N and S

47.00 Second.

51.50 Foot.

Subdivision of Township 20 S

Chain 53.00	Ascend
56.00	Top, bars N.W. and S.E.
57.00	Descend
59.50	Foot; Wash 10 lbs wide, course η easterly
60.00	Ascend
67.00	Top of ridge, bars N.E. and S.W.
68.00	Descend
72.00	Foot; descend
75.00	Top
77.00	Descend
80.20	The cor of secs 8, 9, 16, and 19
	Land mountains
	Soil gravelly and rocky, 3 rd and 4 th rate
	No timber; some scattering pale verde
	Mountainous land, 80.20 chs

η 0° 02' W, bet secs 8, and 9
Over mountainous land

Range 12 East, continued

- Chain Ascending
- 3.00 Top of ridge, bears N. W.
- 4.00 Descend
- 12.00 Foot, ascend
- 16.00 Top of ridge, bears S. E.; descend
- 20.50 Foot
- 27.00 Wash 10 lbs wide, course easterly;
ascend
- 33.00 Top of ridge, bears E and W
- 34.00 Descend
- 40.00 Hit a limestone 18x10x10 ins, 12
ins in the ground for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 8 on W face, and 9
on E face, from which a pale
verde 3 ins diam, bears N 90° E,
84 lbs dist, marked $\frac{1}{4}$ S 9 B.T.
A pale verde 3 ins diam, bears
N 86° W, 86 lbs dist, marked $\frac{1}{4}$ S 8,
B.T.

Subdivision of Township 20 S
 Chains
 40.05 Wash 10 lbs wide, course S easterly;
 feet; ascend

49.50 Top of divide, bears E and W

50.00 Descend

57.40 Wash 10 lbs wide, course N easterly

80.00 Set a sandstone 18x12x4 ins, 12 in
 the ground for cor of sec 4, 5, 8
 and 9, marked with 5 notches on
 S and 4 notches on E edges, from
 which a merquits 4 ins chain, bears
 N 33° W, 153 lbs dist, marked S 20
 S, R 12 E, S 5, R 7; no other trees
 within limits, and raise a mound
 of stone 2½ ft base, 1½ ft high W
 of cor.

Land mountainous

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

Timber, scattering mesquite and

Range 12 East continued

Arrows

Kals Kide

Mountainous land. 80 chs

East on a random line bet sec 4
and 9

40.00 Set trap 1/4 sec cor

80.52 Posterset N and S line at cor
of rps 3, 4, 2 and 10
Dinner 1/4 pmWest on a true line bet sec 4
and 9

Over mountainous land

2.50 Ascend

9.50 Foot of descent; ascend along N
slope of ridge

14.00 Pop, and descend

14.50 Wash 30 lbs wide, crossed westerly

17.50 Ascend

19.00 Ascent steeper

21.00 Pop, bears N & S.W.

Subdivision of Township 20 S

Chains 25.20	Descend
27.00	Foot
27.20	Wash 10 lks wide, course N easterly
33.20 40.245	Top of ridge, bears N and S Set a granite stone 18x12x8 ins, 12 ins in the ground for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ 4 on N face and 9 on S face, from which a mensure 8 ins diam bears S $11\frac{3}{4}^{\circ}$ E, 100 lks dist, marked $\frac{1}{4}$ S 9 B 7 A mensure 6 ins diam, bears N 10° W, 211 lks dist, marked $\frac{1}{4}$ S 4 B. 77
43.80	Wash 10 lks wide, course northerly
54.10	Foot, and wash 10 lks wide, course N. N. easterly
56.45	Wash 20 lks wide, course N easterly; ascend
77.00	Top, bears N E and S. W

Range 12 East, Continued

Chain
50.49

The cor of secs 4, 5, 8 and 9

Land mountains

Soil gravelly, 5th rate

Timber, scattering mesquits

Mountainous land, 50.49 chs

No. 02' W, bet secs 4 and 5

Over level and mountainous land

Descending

3.50

Wash 10 lbs wide, course N easterly;
ascend

9.00

Top, bars N. E. and S. W.

10.50

Ascend

19.90

Wash 10 lbs wide, course N easterly;
ascend

24.90

Top, bars N. E.; ascend

32.00

Wash 10 lbs wide, course N easterly;
foot

34.00

Ascend

Subdivision of Township 20 S.

Chains
40.00

Set a sandstone 18x6x6 ins, 12 ins
in the ground for $\frac{1}{4}$ sec cor, marked
 $\frac{1}{4}$ B on W face and 4 on E face
from which a mosquito 6 ins
diam, bears N $66\frac{1}{2}^{\circ}$ E, 128 lbs dist,
marked $\frac{1}{4}$ S 4 B 7

A mosquito 6 ins diam, bears
N 8° W, $83\frac{1}{2}^{\circ}$ lbs dist, marked $\frac{1}{4}$
S 5 B 7

42.50 Top of ridge, bears N E and S W

45.50 Descend

48.50 Ranch houses and corals, bears 10
chs W

58.50 Enter Sopwi Valley, bears E and W

63.80 Arivaca and Nogales road, bears
N. E. and S. W.

65.50 Corral, bears 10 chs W

J. Ellis house, bears 1 ch E and 1
house 7 chs E

Range 12 East, Continued

Chain
66.911

Wash 50 lbs wide, course N easterly

71.30

Right bank Sopon river

Set a limestone $18 \times 10 \times 6$ ins, 12
ins in the ground for meander cor
of fracl secs 4 and 5, marked
M.C. on N face with 4 grooves
on E face, from which a walnut
30 ins diam, bears $S 31 \frac{1}{2}^{\circ} E$, 64 lbs
dist, marked S 20 S, B 12 E S 4 M.C
B. D.

A walnut 26 ins diam, bears
 $S 54 \frac{3}{4}^{\circ} W$, 49 lbs dist, marked
S 20 S, B 12 E, S 5, M.C, B T

73.60

Left bank Sopon river

Set a sandstone $18 \times 12 \times 3$ ins
12 ins in the ground for meander
cor of fracl secs 4 and 5, marked
M.C. on S face and 4 grooves on E
face, from which a mosquito 4

Subdivision of Township 20 S

Chain ins drain, bears $N 44^{\circ} E$, 40 lks dist, marked P 20 S, R 12 E, S 4, M C B T

A mesquite 3 ins drain, bears $N 28\frac{1}{2}^{\circ} W$, 45 lks dist, marked P 20 S, R 12 E, S 5, ^{M C} B T.

75.00 Wash 50 lks wide, down to S easterly

80.50 Intersect N boundary of Township 2.96 chs, $N 89^{\circ} 50' E$ of cor to sec 32 and 33.

Set a granite stone 18x10x10 ins, 12 ins in the ground for closing cor of sec 4 and 5, marked C C on S with 4 notches on E and 2 notches on W edges, from which a mesquite 12 ins drain, bears $S 39^{\circ} E$, 113 lks dist, marked P 20 S, R 12 E, S 4 B T

A tree 4 ins drain bears $S 23\frac{1}{2}^{\circ} W$, 61 lks dist, marked P 20 S, R 12 E, S 5 B T.

Here

Range 12 East, Continued

Chains

Land level and mountainous
Soil, sandy and gravelly; 2nd and
3rd rate

Timber, mesquite, cottonwood, ash
and walnut

Heavily timbered land and moun-
tainous, 80.50 chs

April 7, 1901

April 8, 1901, at 8^h 34^m, a.m., l.m.t.
I set off 31° 39' on the Lat arc, 7° 4' N
on the decl arc, and determined a true
meridian with the solar at the cor-
to, sees 31 and 32 on the S boundary
of the Township

Shaner Brun

N 0° 02' W, bet, sees 31 and 32

Over mountainous land

Descending along W slope

20.00

Prospect holes, bears 2 chs E

Subdivision of Township 20 S

Chains 34.70	Foot of descent
35.00	Wash 10 lks wide, course N westerly
40.00	Set a masonry stone 18 x 12 x 5 ins, 12 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ 31 on W face and 32 on E face and raise a mound of stone $2\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high N of cor. Pits impracticable.
44.00	Wash 10 lks wide, course westerly; ascend
51.00	Top, bears E and W; descend
55.20	Foot
55.70	Wash 10 lks wide, course N westerly; ascend
58.30	Top, bears N W and S E.
59.00	Ascend
64.20	Wash 20 lks wide, course westerly
64.50	Ascend
71.80	Top, bears N W and S E
72.00	Ascend
76.00	Foot

Range 12 East, continued

Chain
76.40 Run 10 lks wide, course westerly; ascend
79.00 Top, bears N and S

85.00 Set a granite ptone 18x12x8 ins, 12
ins in the ground for cor of secs
29, 30, 31 and 32, marked with 1
notch on S and 5 notches on E
edges, and raise a mound of
stone 2 1/2 ft base, 1 1/2 ft high, w of
cor. Pits impracticable.

Land, mountainous

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

No timber.

Mountainous land, 7000 chs

West on a random line bet secs
30 and 31

40.00 Set temp 1/4 sec cor

86.68 Intersect w boundary of Township

Subdivision of Township 20 S
 Chain 15 lks of cor to secs 30 and 31

Shener Drum

N 89° 54' E, on a true line bet secs
 30 and 31

Over mountainous land

ascend

.30

Gulch 10 lks wide, course northerly

11.10

Wash 20 lks wide, course northerly;
 ascend

46.68

Set a malpais stone 20 x 12 x 10
 ins, 72 ins in the ground for
 1/4 sec cor, marked 1/4 30 on
 N face, and 31 on S face, and
 raise a mound of stone 2 ft

No.

47.00

base 1 1/2 ft high W of cor. Pit's
 ineffective
 Top of high ridge, bears N and
 S. descend

59.70

Foot of descent

60.00

Wash 20 lks wide, course N. Westly

Range 12 East, continued

Trains Ascend

81.70 Top, train N W and S.E.

84.70 Legend

86.68 The cr of secs 29, 30, 31 and 32

Land mountainous

Soil gravelly and rocky, F^d and
4th rate

Smiler a few scattering mesquite
ocotillas and yucca

Mountainous land 86.68 Chs

N^o. 00' N, bet secs 29 and 30

Over mountainous land

Descending

1.00 Foot

1.70 Ascend

5.00 Top

7.00 Foot

8.00 Ascend

Subdivision of Township 20 S

Chain 8.50	Top; descend
11.00	Foot
11.10	Ascend
12.50	Top, bears N W and S E
13.00	Descend
14.00	Foot; ascend
19.00	Top, bears N W and S E
19.50	Descend
25.00	Foot
25.40	Wash 20 lbs wide, course N. westerly; ascend.
31.00	Top of ridge, bears N W and S E
33.00	Descend
34.00	Foot
35.00	Ascend
36.00	Top; descend
40.00	Set a granite stone 18 x 12 x 6 ins, 12 ins in the ground for 1/4 sec cor, marked 1/4 30 on W

Range 12, East, continued.

- Chains
 face and 29 on E face, and
 raise a mound of stone 2 ft
 base, 1 1/2 ft high W of cor. Pits
 impracticable.
- 40.50 Gulch 40 lks wide, course westerly;
 ascend.
- 45.00 Top of W slope of mountain;
 descend.
- 60.30 Gulch 10 lks wide, course westerly
- 78.00 Wash 10 lks wide, course N westerly;
 foot
- 80.00 Set a sandstone 20 x 10 x 5 ins, 12
 ins in the ground for cor of sec
 19, 20, 29 and 30, marked with 2
 notches on S and 5 notches on E
 edges, from which a mesquite 18
 ins diam bears N 60° E, 96 lks dist,
 marked S 20 S, R 12 E, S 20 B 7.
 A mesquite 5 ins diam bears

Subdivision of Township 20 S
 Chain

S $53\frac{3}{4}^{\circ}$ E, 262 lks dist marked
 T 20 S, R 12 E, S 29 B 77.

A mesquite 5 ins diam, bears S 31°
 W, 234 lks dist, marked T 20 S,
 R 12 E, S 30 B 77

A mesquite 8 ins diam bears
 N $58\frac{1}{2}^{\circ}$ W, 68 lks dist, marked T 20
 S, R 12 E, S 19 B 77.

Land mountains

Soil gravelly and rocky, 3rd and
 4th rates

Timber, scattering mesquite and
 undergrowth; mesquite palo verde,
 yucca and ocotillas.

Mountainous land 80 chs

April 8, 1901.

April 9, 1901, at 8^h 50^m a.m. l.m.t. &
 set off $31^{\circ}40'$ on the Cat. arc, $7^{\circ}29'$ N

Range 12 East, continued

Chain on the decl arc and determine a true meridian with the solar at the cor to sees 19, 20, 29 and 30

Thence Run

East on a random line bet sees 20 and 29.

40.00 Set temp 14 s/c cor

80.10 Entersect N and S line 18 lbs

S of cor of sees 20, 21, 28 and 29

Thence Run

S $89^{\circ}52'W$, on a true line bet sees 20 and 29

Over mountainous land
Descending

8.50 Wash 10 lbs wide, course northerly;
foot; ascend.

21.00 Top of ridge, bears N.W. and S.E

26.00 Foot

27.00 Ascend

Subdivision of Township 20 S

Chain 28.00	Top, bears N W and S E
29.00	Ascend
32.80	Foot
33.00	Ascend
40.05	Set a sandstone 18 x 8 x 6 ins, 12 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ 20 on N face and 29 on S face, from which a merquite 3 ins diam bears S 73° E, 113 lbs dist, marked $\frac{1}{4}$ 29 B 7; no other trees within limits and raise a mound of stone $2\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high W of cor.
42.00	Top, bears N and S
46.50	Foot
46.60	Rush 10 lbs wide, courses northwardly
55.50	Top
58.50	Foot
68.90	Top; descend
70.00	Ascend

Range 12, East, continued

- Chain
71.10 Pop; descend
- 75.00 Wash 10 lbs wide, course westerly;
descend
- 76.00 Pop; descend
- 80.10 The cor to secs 19, 20, 29 and 30
Land mountainous
Soil, gravelly and rocky, 3^d and
4th rates,
No timber
- 86-10 Mountainous land, ~~80~~¹⁰ lbs

S 89° 54' W, on a random line bet
secs 19 and 30

- 40.00 Set temp 1/4 sec cor
- 86.80 Intersect W boundary of Township
22 lbs N of cor of secs 19 and 30
Chance Penn
N 89° 45' E, on a true line bet secs
19 and 30.

- Subdivision of Township 20 S
 Chain
- Descend over mountainous land
- 10.80 Foot of descent
- 12.00 Ascend
- 12.10 Wash 10 lbs wide, course N westerly;
 ascend
- 16.00 Pop, bears N W and S E
- 18.00 Descend
- 19.80 Foot, ascend
- 33.80 Pop, bears N W and S E
- 35.00 Descend
- 43.70 Foot
- 43.80 Wash 20 lbs wide, course N westerly;
 ascend
- 46.80 Set a granite stone 18x10x6 ins,
^{17 in. dia}
 drawn in the ground for $\frac{1}{4}$ sec
 cor, marked $\frac{1}{4}$ 19 on N face
 and 30 on S face, from which a
 magnetic 4 ins diam, bears 789°
 E, 129 lbs dist, marked $\frac{1}{4}$ S 19

Range 12 East, continued.

Chain

B F

- A. mesquite 8 in diam, bears S ly;
 12¹/₂° E, 79 lbs dist, marked 1/4 S 30.137.
- 53.00 Top, bears N and S. S.
- 59.00 Ascend
- 63.70 Wash 20 lbs wide, course N westerly; ly.
 ascend 120
- 64.00 Top; ascend 17
- 68.00 Ascend
- 69.00 Foot 10
- 69.40 Wash 20 lbs wide, course N westerly; dist.
 ascend
- 76.30 Top of small ridge bears N and SE S
- 76.80 Ascend S
- 80.40 Foot
- 80.70 Wash 10 lbs wide, course N westerly;
- 80.10 Wash 10 lbs wide, course N westerly,
- 86.80 The cov of sec 19, 20, 29 and 30
 Land mountains

Sub division of Township 20 N

Chains

Soil gravelly and rocky 3rd and 4th rates

Timber, some scattering mesquite, Mountainous land, 80^{86.50} @ 1/2

11.00

Foot
No. 02 W bet sec 19 and 20
Descending over mountainous land

11.50

Wash 10 lbs wide, Course N westerly, ascend

16.00

Top of ridge, bears N W and S E.

16.50

Descend

22.00

Foot

23.50

Wash 10 lbs wide, Course N westerly, ascend

40.00

Set a conglomerate stone 18 x 14 x 8 ins, ¹² ins in the ground for 1/4 sec cor, marked 44. 19 on W face and 20 on E face, front which a

Range 12, East, continued

Chain

From Vicks 5 in chain, bears N
 $52^{\circ}48'$, 99 lbs. dist, marked $\frac{1}{4}$ S
 20 B 77.

A magnite 12 in chain, bears S.
 $S. 20^{\circ}2' W$, 66 lbs. dist, marked $\frac{1}{4}$ S
 19 B. 77.

41.60 Top, descend

52.00 Foot, ascend

59.00 Top, bears N W and S E

59.50 Descend

63.00 Foot

67.00 Ascend

71.50 Top of low ridge, bears N and S

72.00 Land

8.00 Set a granite stone $18 \times 12 \times 5$ in,
 12 in in the ground for each of
 sees 17, 18, 19 and 20, marked with 3
 notches on S and 5 notches on E edges,
 from which a magnite 8 in chain.

Sub-division of Township 20 S

Chains

born $N 4 \frac{1}{4}^{\circ} W 196$ chs dist, marked
 T 20 S, R 12 E, S 18 B 77, no other
 trees within limits, and raise a
 mound of stones 2' x ft base, 1' ft
 high, pits impracticable.

Land mountainous

Soil gravelly and rocky, 4th
rateTimber, scattering magnite
mountainous land 80 chs

$N 89^{\circ} 52' E$, on a random line bet
 sees 17 and 20.

40.00 Set temp $\frac{1}{4}$ sec ev.80.16 Intersect N and S line 18
 chs N of cor of sees 16, 17, 20 ^{9/10}/₂₁
 Hence S runWest on a true line bet sees
 17 and 20

Range 12, East, Continued

- Chumie Descending over mountainous land
 .50 Gulch 10 lks wide, course northerly,
 ascend
 8.50 Top of ridge, bars N and S, descend.
 19.80 Foot
 34.50 Wash 20 lks wide, course northerly.
 40.68 Set a granite stone 18x14x6 ins, 12
 ins in the ground, marked '14 S 17
 on N face and 20 and 20 on S
 face, from which a mesquite 10
 ins diam, bears $75^{\circ} 3' E$, 240 lks dist,
 marked '14 S 17, B 7.
 A mesquite 12 ins diam, bears S
 $63^{\circ} 2' E$, 217 lks dist, marked '14 S
 20 B 7.
 41.00 Ascend
 59.00 Top of ridge, bars N and S
 67.00 Descend
 69.00 Foot

Subdivision of Township 20 S, Range 12 E,
 Grains

89.50 Wash 10 lbs wick, course northw'dly; ascend

71.00 Top, bears N and S.

73.00 Ascend

80.16 The cor of secs 17, 18, 19 and 20

Land mountainous

Soil gravelly and rocky, 6th and
 4th rate

Timber, scattering mesquite
 mountainous land 80.16 chs

S 89° 45' W on a random line bet
 secs 18 and 19

40.00 Set a temp 1/4 sec cor

86.60 Intersect W boundary of Township
 22 chs S of cor of secs 18 and 19

Thence Drum

From cor set N 89° 54' E, on a true
 line bet secs 18 and 19

Over mountainous land

concluded, Book 975.