

400
Est

Confined -

No 112

P. 1

Field Notes

OF THE SURVEY OF THE

SUBDIVISION LINES

- OF -

Township 12 N. Range 24 E.

Gila and Salt River Base and Meridian

ARIZONA.

By O. D. Wheeler D. S.

under contract dated May 31 1882

Survey commenced Aug 16 1882

Survey completed Aug 18 1882

No - 112

112

Township..... 12. North.

Range..... 24 East.

6	108.	5	80.	4	61.	3	41.	2	20.	1
106.	104.	78.	60.	39.	18.					
7	103.	8	77.	9	58.	10	37.	11	16.	12
101.	100.	75.	56.	36.	15.					
18	99.	17	74.	16	55.	15	33.	14	13.	13
97.	95.	72.	53.	32.	11.					
19	94.	20	71.	21	51.	22	30.	23	9.	24
92.	90.	69.	50.	28.	8.					
30	88.	29	68.	28	48.	27	27.	26	5.	25
87.	85.	66.	46.	25.	4.					
31	83.	32	64.	33	44.	34	23.	35	2.	36

Gila and Salt River, Arizona.

ARIZONA.

S. 2 N. R 24 E. D. & S. R M.

Chains

Survey made with Burt's
Patent Improved Solar-
Compass. nearly new
and in first rate order.
made by Otto Fessel
of Basle, Germany in 1881.
Survey commenced -

Aug 16-1882.

Before proceeding to
subdivide this Sp. I made
a change of 5-minutes in
the latitude arc of my
solar compass - by adding
the same to the reading
previously given - and
at noon I verified
and corrected the same
by observations on the
sun - and also further

BOOK

112

No-112

10

S: 2 N. R 24 E. G + S. R W.

Survey made with Burt's
Patent Improved Solar
Compass - nearly new
and in first rate order -
made by Otto Fenzl
of Basel Germany in 1881 -
Survey commenced -

Aug 16-1882.

Before proceeding to
subdivide this Sp. I made
a change of 5 minutes in
the latitude arc of my
solar compass - by adding
the same to the reading
previously given - and
at noon I verified
and corrected the same
by observations on the
sun - and also further

S. 12. N. R. 24 E. G. S. R. M.

Lehmanis

tested instrument by reversing -

From the Cor to Secs -
35-36-142 on S boundary
of T₁ - which is a
basalt stone 13 x 4
was set firmly in
the ground properly
notched + with notch
of stone alongside

From North bet. Secs 35 + 36

to 13° 12' E.

(app. observation with solar compass)
and nearly level.

28.00 Edge of mesa bet E + W +
deserts.

40.00 Set a basalt stone 20 x

L. 12. W. R. 24 E. G. + S. R. Me.

Behavio

10 x 4 ins 16 ins in the
ground for $\frac{1}{4}$ Sec Cor, marked
 $\frac{1}{4}$ on W. face + raised a
mound of stone along side
Pits impracticable f

8000 Set a basalt stone 16 x

10 x 4 ins 12 ins in the
ground for Cor to Secs -
25 - 26 - 35 + 36 - marked
with 1 notch on S +

E edges - Dug pits 18 x 18
x .2 ins in each Sec $5\frac{1}{2}$
ft. dist. + raised a mound
of earth 2 ft. high $4\frac{1}{2}$
ft. base along side.
Sand gently falling
Soul 3^2 rate -
Timber juniper - scattering

L. H. B. 24 E. G. + S. R. M.

Lehman

East on a random line
bet. Secs 25 + 36

b_a 13° 28' E.

Over level mesa

40.00

Set a temporary 1/4 Sec
Cor.

79.85

Intersect E. By of Sp
20 lbs of Cor lot Secs
25-30-31 + 36 which is a
basalt stone 9 x 4
ins set firmly in the
ground - properly
isolated + with a
mound of stone
along side

from which Cor I run
N 89° 51' W on a true line

S. 12. T6. R. 24 E. G. & S. R. M.

behavis

bet. Secs 25 + 36 -

ba 13° 28' E.

39.92- Set a basalt stone 18x9
x 4 ins 12 ins in the ground
for 1/4 Sec Cor. marked
1/4 on N. face, Dug pits
18x18x12 ins E + W of stone
5 1/2 ft. dist. + raised a
mound of earth 1 1/2 ft.
high 3 1/2 ft. base along side

79.85- The Cor. to Secs 25-26-35+36
Land slightly rolling
soil rocky 3^d rate,
Timber scrub juniper

North bet. Secs 25 + 26 -

ba 13° 28' E

S. 12. N. 24 E. R. 110

Lehans.

- 40.00 Over level mesa -
 Set a basalt stone 18
 x 9 x 3 ins 14 ins in the
 ground for $\frac{1}{4}$ Sec Cor,
 marked $\frac{1}{4}$ on W face -
 Dug pits 18 x 18 x 12 ins
 N + S of stone $5\frac{1}{2}$ ft.
 dist, & raised a mound
 of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft.
 base alongside
- 80.00 Set a sand stone 18 x 8
 x 3 ins 10 ins in the
 ground for Cor. to Secs
 23 - 24 - 25 - & 26, marked
 with 2 notches on S
 & 1 notch on E edges
 & raised a mound of
 stone alongside, Pits

L. 12. 76. R 24 E. H. + S. P. M.

Chamisso

unpracticable from which
a juniper 16 mid drain hrs
N 40 E. 71 lbs dist. marked
S. 2 N. R 24 E. S 24 B. J.

a juniper 12 mid drain hrs
S 71 0 E. 45 lbs dist. marked
S. 2 N. R 24 E. S 25 B. J.

a juniper 9 mid drain hrs
S 87 W. 35 lbs dist. marked
S 12 N. R 24 E. S 26 B. J.

a juniper - 14 mid drain hrs
N 49 0 W. 44 lbs dist. marked
S. 2 N. R 24 E. S 23 B. J.

band slightly rolling
soil 2 1/2' water

Smaller juniper



L. 12. W. R. 24 E. H. + J. R. K.

Leharris

East on a random line
bet. Secs. 24 + 25 -

ba 13° 15' E,

Band rolling

40.00

Set a temporary 1/4 Sec
Cor.

80.10

Intersect E. By of 5 p
21 lks N of Cor to Secs -
19 - 24 - 25 + 30 which is a
basalt stone set firmly
in the ground - properly
notched - with mound of
stone alongside + bearing trees N.E
+ S.W - properly marked -

from which Cor. I run
N 89° 51' W on a true line
bet. Secs. 24 + 25 -

ba 13° 15' E.

S. 12. N. 24 E. H. + J. R. K.

Chains

- 40.05 Set a basalt stone $16 \times 8 \times 3$ ins 12 ins in the ground for $\frac{1}{4}$ Sec Cor. - marked $\frac{1}{4}$ on N. face - & raised a mound of stone alongside, Pits impracticable
- 80.10 The for to Secs. 23-24-25+26 -
 Land slightly rolling
 Soil 2nd rate -
 Timber juniper

North Pt. Secs 23+24 -
 $\tau = 130^\circ 17' E.$

Ascend

- 8.00 Top of ridge - 380 ft. high
 hrs $\tau 180^\circ E$ + deached -
- 37.00 Enter valley hrs $\tau 46^\circ E$

S. 12. N. R. 24 E. G. & S. R. 10

Lehavis.

40,000 Set a basalt stone
 $22 \times 14 \times 9$ ins 15 ins in
 the ground for $\frac{1}{4}$ Sec
 Cor. marked $\frac{1}{4}$ on W
 face & raised a mound.
 Off stone along side, Pits
 impracticable -

80,000 Set a sand stone 32×18
 $\times 9$ ins 20 ins in the
 ground for Cor to Secs
 $13-14-23+24$ - marked
 with 3 nolets on S
 & 1 nolet on E edges -
 Dug pits $18 \times 18 \times 12$ ins
 in each Sec $5\frac{1}{2}$ ft. dist,
 & raised a mound of earth
 2 ft. high $4\frac{1}{2}$ ft. base
 along side -

S. 12. N. P. 24 E. S. 1. + S. P. N.

Observations

South half broken & rocky
 North half level valley
 Fair grazing on North half
 Juniper bush.

East on a random line
 bet. Secs 13 & 24.

To a 13° 16' E,

Over rolling hills -

40.00 Set a temporary 1/4 Sec Cor.

80.10 Intersect E Ry of Sp -

14 lbs S of Cor to Secs 13 -

18-19 & 24 - which is a -

post set firmly in a mound
 of earth - properly marked
 & watched & with bearing
 lines N. E. S. E & S. W
 properly marked

L. 12. 96. B. 24 E. G. + J. B. K.

Behrens

from which Cor. Iron
 S 89° 54' W on a true line
 bet. Secs 13 + 24

to 13° 16' E.

40,07

Set a sand stone
 30 x 16 x 6 ins 20 ins
 in the ground for $\frac{1}{4}$
 Sec Cor. marked $\frac{1}{4}$ on
 the face - Dug pits 18 x
 x 48 x 12 ins E + W of stone
 $5\frac{1}{2}$ ft. dist. + raised a
 mound of earth $1\frac{1}{2}$
 ft. high $3\frac{1}{2}$ ft. base -
 along side

80,15

The Cor. to Secs 13-14 -
 23 + 24 -

S. 12. N. B. 24 E. G. & D. B. 2

Chains

Level rolling hills -
 Soil 2nd rate,
 Timber Juniper + Pine,

North bet. Secs 13 & 14
 T₁ 13° 16' E,

Over slightly rolling land.

40.00

Set a post 4 ft. long 4
 ins sq. with marked stone
 12 ins on the ground for
 1/4 Sec Cor. marked 1/4 S on
 W face. Dug pits 18 x 18
 x 12 ins N + S of post 5 1/2
 ft. dia. + raised a mound
 of earth 1 1/2 ft. high 3 1/2
 ft. base around post.

80.00

Set a sand stone 15 x 10

L. 12. W. B. 24 E. G. & S. B. W.

Lehavis

+ 3 ms 10 ms in the
ground for Cor. to Sec-
11-12-13+14 - marked
with 4 notches on S &
1 notch on E edges - &
raised a mound of stones
alongside, Pits impracticable
from which
A yellow pine 10 ms
in D. pin bed N. 69° 30' W
11 lbs dirt, marked 5, 2
N. R 24 E. S 11 B. 5.

Land rolling
Soil 3° rate,

Fair grazing

Scattering juniper &
pines -

S. 12, N. 34 E. H. + J. R. W.

Behrens

East on a random line
bet. Secs 12 + 13 -

ba 13° 14' E,

Over rolling land -

40.00

Set a temporary 1/4 sec cor.

80.04

Intersect E. By of Sp

14 lbs of cor to Secs - 7

12-13 + 18 which is a

sand stone 12 x 3 ins properly
notched + with a

mound of stone
along side -

from which cor. I run
S 89° 05' 4" W on a true line
bet. Secs - 12 + 13

ba 13° 14' E

S. 12. N. R. 24 E. G. S. R. K.

Observations

40,02 Set a sand stone 18 +
10 x 7 ins 12 ins in the
ground for $\frac{1}{4}$ Sec Cor -
marked $\frac{1}{4}$ on the face
& raised a mound of
stone along side,
Pits unpracticable

80,04 The Cor - to Sec -
11-12-13 + 14 -

Land rolling
Soil @ rate
Fair grazing
Timber Juniper,
—————

North bet. Sec 11 + 12
to 13 + 14 E,
Descend gradually

S. 12. N. R. 24 E. G. S. R. N.

Shawis

40,00

Set a sand stone 24×10
 $\times 7$ ins 15 ins in the
 ground for $\frac{1}{4}$ Sec Cor -
 marked $\frac{1}{4}$ on W face -
 Dug pits $18 \times 18 \times 12$ ins
 $\frac{1}{2}$ + $\frac{1}{2}$ of stone $5\frac{1}{2}$ ft. dia.
 + raised a mound of earth
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
 along side.

41,160

Cross wash 11 lks wide
 Course $N 30^{\circ} E$ + ascend

80,000

Set a sand stone $36 \times$
 9×6 ins 24 ins in the
 ground for Cor to Sec
 $1-2-11$ + 12 marked with
 8 notches on S + 1 notch
 on E edges + raised a
 mound of stone alongside

S. 12 N. R. 24 E. T. & S. R. 16.

Behavio

Pits unpracticable -
 Band rolling
 Soil 3^d rate
 Fair grazing
 Timber - Juniper

East on a random
 line bet. Secs 1 + 12.

ba 13° 15' E,

Descend gradually

40.00 Set a temporary $\frac{1}{4}$
 Sec Cor.

45.60 Cross wash 15-lbs
 wide, course N. E +
 ascend.

79.65 Intersect E. Bay
 of Sp 19 lbs S of Cor.

L. 12 W. R. 24 E. H. + S. R. 10.

Lehman

to Secs 1-6-7 + 12 which is
a basalt stone 10
x 14 ins set firmly in
the ground properly
notched & with mound
of stone alongside.

from which Cor. D. 11
D 8905-2' W on a true line
bet. Secs 1 + 12,

to 13° 15' E,

39.32 - Set a sand stone 40
x 20 x 8 ins 30 ins in
the ground for $\frac{1}{4}$ Sec
Cor. marked $\frac{1}{4}$ on the
face + raised a mound
of stone alongside, Pits

S. 12. W. R. 24 E. N. 4 S. R. 10

Behavio

79.65 impracticable
 The Cor to Secs 1-2-11+12
 Road rolling
 Soil 3rd rate
 Fair grazing
 Double bumper

North on a true line
bet. Secs 1+2,

bearing 130° 15' E.

40,00 Set a sand stone 30 x
 11 x 6 ins 20 ins in the
 ground for 1/4 Sec Cor,
 marked 1/4 on W face
 + raised a mound of
 stone alongside. Pit
 impracticable

L. 12. N. B. 24 E. No. 1. R. N.

W. 12

7375 Intersect the 3^d Standard
 Parallel North at a
 point 17.62 chs west
 of standard Cor. to Secs
 35 + 36 - which is a
 sand stone set firmly in the
 ground properly notched &
 with pits in each Sec &
 bearing tree S. E. of stone
 properly marked -
 at which point I set
 a post 4 ft long 4 ins
 sq. with marked stone
 1 1/2 ins in the ground -
 for closing Cor. to Secs 1 + 2
 marked S. 12. N. 24 E. on S.
 S. 1 on E. S 2 on
 S. W. with notch on E

L. 12 W. P. 24 E. G. S. B. N.

Chairs

45 notches on W faces -
 Dug pits 18 x 18 x 12 ins
 S. E. of W of post 5 1/2 ft,
 diam. & raised a mound
 of earth 2 ft. high 4 1/2
 ft. base around post

Band rolling

Soil 3rd rate

Fair grazing

Aug 16th 1882

From the cor. to Secs -
 2-3-34+35 which is a
 basalt stone 12 x
 6 ins set firmly in
 the ground properly
 notched & with

S. H. R. 24 E. H. R. 16

Lebanis

mound of stone alongside
 Drum γ . bet. Sics 34 & 35,
 Va $13^{\circ} 14' E$.

31,61 Ascend gradually,
 Edge of Mesa bet E
 + W + descend.

40,00 Set a basalt stone
 $15 \times 8 \times 4$ ins 10 ins in
 the ground for $\frac{1}{4}$ Sec
 Cor. I marked $\frac{1}{4}$ on W
 face, + raised a mound
 of stone alongside, Pts
 impracticable.

68,10 Cross wash 25-lbs
 wide Course γ $40^{\circ} E$, ascend.

80,00 Set a sand stone
 $16 \times 10 \times 3$ ins 12 ins in
 the ground for Cor to

S. 12. N. R. 24 E. T. 1. S. 12. N.

Lehman's

secs.
 ^ 26 - 27 - 34 + 35 marked
 with 1 notch on S +
 2 notches on E edges.
 Dug pits 18 x 18 x 18 ins
 in each sec 5 1/2 ft.
 dia. + raised a mound
 of earth 2 ft. high
 4 1/2 ft. base along edge
 from which -
 A pinon pine 10 ins diam
 bro S 50 E, 15-4 lbs dist.
 mark S. 2 N. R. 24 E.
 S 35. B. 5.

A juniper 6 ins diam bro
 N 10 W - 15-4 lbs dist, marked
 S. 2 N. R. 24 E. S 27 B. 5.

Land gently rolling
 Soil of 2 rather

S. 12. N. 6. R. 24 E. T. 1. S. 1. W.

Chassis

Scattered Pine
+ Juniper

East on a random line
bet. Secs 26 + 35,
T. 1. S. 1. W. 130° 32' E,
Descend.

- 19.00 Cross wash 25 lbs wide
Course N. — + ascend.
- 33.00 Foot of bluff — ascend —
abruptly.
- 40.00 Set a temporary $\frac{1}{4}$ Sec Cor.
- 64.00 Top of bluff 400 ft. high
bet N + S + descend
gradually.
- 79.89 Intersect N + S. line
16 lbs N of base to Secs

S. 12. N. R. 24 E. G. S. R. 16

Lehavis

25-26-35+36 from -
which cor. I run -
N. 89° 5-3' W. on a true
line bet. Secs. 26+35,
T. 13° 32' E.

39.94

Marked pinion pine in
place 6 rods from for
1/4 Sec Cor. 1/4 S and N
side - from which
a pin 7 rods from
N 43° E, 18 lbs dist, marked
1/4 S. B. 5

A pin 8 rods from
8° E, 104 lbs dist, marked
1/4 S. B. 5.

79.89

The Cor to Secs - 26-27
39+35,

Land broken + rocky

S. 12. N. R. 24 E. G. + S. R. 16.

Chassis

Soil 3^d rate
 Timber Pine + Juniper.

North bet. Secs 26 + 27
 to 130° 32' E.

Ascend.

9.19 Top of ridge bet E+W
 380 ft. high descend.

40.00 Set a sand stone 14 x

9 x 6 ins 10 ins in the
 ground for 1/4 Sec Cor,
 marked 1/4 on W face
 + raised a mound of
 stones along side, pits
 impracticable -


80.00 Set a basalt stone
 18 x 10 x 4 ins 12 ins in

S. 12. W. R. 24 E. S. 4. T. 16. M.

Lehain

the ground for Coote
 Secs 22-23-26+27-
 marked with 2 holes
 on S + E edges - raised
 a mound of stones
 alongside, Pits
 unproductive -
 Band very rocky
 with steep hills & deep
 canons -

Soil 3rd rate.

Scattering junipers -


East on a random line
 bet. Secs. 23 + 26.

to a 13040' E.

Descend.

S. 12, N. 6, E. 24, S. 1, + S. 6, N.

Chassis

- 37.10 Cross wash 20 lbs wide
course N + ascend.
- 40.00 Set a temporary $\frac{1}{4}$ Sec Cor
- 74.19 Top of bluff 200 ft high
hrs N 20° E. + descend.
- 80.34 Intersect N + S line 22
lbs N of bar to Secs - 23
- 24 - 25 + 26 - from which
Cor - I run
N. 89° 51' W on a true line
bet, Secs - 23 + 26
to 13040' E.
- 40.17 Set a basalt stone
16 x 12 x 4 ins 12 ins in the
ground for $\frac{1}{4}$ Sec Cor, marked
X on N face + raised a
mound of stone alongside
Pits impracticable.

S. 12. N. R. 24 E. R. 4. S. R. 16

Lehavis

40,34 The Cor. to Secs 22-23-
26+27.

Land broken + rocky,
Graying fair -
soil 3rd rate
Juniper brush

North bet. Secs 22 + 23,
T₁₃ 130° 40' E.

40,00 Descend gradually,
Set a sand stone
14 x 10 x 7 ins 10 ins in the
ground for $\frac{1}{4}$ Sec Cor
marked $\frac{1}{4}$ on W face
Dug pits 18 x 18 x 12
ins W + S of stone 5 $\frac{1}{2}$
ft. dist. + raised a

S. 12 N. B. 24 E. H. + S. B. N.

Lehavis

80,000

mound of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base along side
 with a post 4 ft. long
 4 ms sq. with marked
 stone 12 ms in the
 ground for Cor to Sec -
 4-10--22+23, marked
 S 12 N. S 14 on N. E. R 24 E
 S 23 on S. E. S 22 on S. W
 + S 15 on N. W faces +
 with 3 notches on S + 1
 notch on E edges. Dug
 pits $18 \times 18 \times 12$ ms in
 each Sec $5\frac{1}{2}$ ft. dia.
 + raised a mound of
 earth 2 ft. high
 $4\frac{1}{2}$ ft. base around post
 Band level valley

L. 12, N. B. 24 E. G. & S. R. 16

Lehman

Soil 1st rate,
Good grazing -
Timberful growth.

East on a random
line bet. Secs 14 + 23,
to a 15° 14' E.

37.25 Descend gradually
Cross track 20 ft's
wide course N + ascend

40.00 Set a temporary
1/4 Sec Cor.

79.87 Intersect N + S line
13 lbs N of Cor - to Secs
13-14-23 + 24 from which
Cor. Runs
N 89° 54' W on a true

S. 12, T. 6 R. 24 E. H. + J. B. H.

Lebanon

- line bet. Secs 14 + 23
 Va $13^{\circ} 14' E$,
- 39.93 Set a basalt stone
 $18 \times 12 \times 7$ ins 12 ins in
 the ground for $\frac{1}{4}$ Sec
 Cor. marked $\frac{1}{4}$ on N
 face & raised a mound
 of stone alongside -
 Pits impracticable.
- 79.87 The Cor. to Secs 14-15-22 +
 23,
 land rolling - hills
 Soil 1st rate
 Good grazing
 Timber scattering juniper
-

North bet. Secs 14 + 15
 Va $13^{\circ} 14' E$

S. 12, 16, 24 E. R. + S. R. 16.

Lehman's

Descend

26,17 Cross-wash 10 lbs
wide course N. E +
ascend.

40,00 Set a sand stone 16
x 8 x 8 ins 11 ins in the
ground for $\frac{1}{4}$ See Cow
marked $\frac{1}{4}$ on W
face - Dig pits 18 x 18
2.2 ins N + S of stone $5\frac{1}{2}$
ft. dist, & raised a mound
of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base alongside

80,00 Set a post 4 ft. long
4 ins sq. with marked
stone 12 ins in the
ground for Cow to
see - 10 - 11 - 14 + 15 - -

S. 12, T. 6, R. 24 E., G. & S. Co. Mo.

Chassis

marked S. 12 St. S. 11 on
St. E. R. 24 E. S. 14 on S. E.
S. 15 on S. W. + S. 10 on N. W.
faces - with 4 nolets
on S. + 2 nolets on E
edges - Dug pits 18 x 18
x 12 ins in each side
5 1/2 ft. dist. + raised a
mound of earth 2 ft.
high 4 1/2 ft. base around
pits.

Band gently rolling
soil, 1st rate
good grey mg
thick yellowish Brn

East on a random

S. 12, N. R. 24 E. S. 1, T. 10 N.

Lehman

line bet. Secs 11 & 14 -
T_a 13° 30' E,

Descend -

39.80 Cross wash 16 lbs wide
course N. E. & ascend
gradually.

40.00 Set a temporary $\frac{1}{4}$
Sec Cor.

79.63 Intersect N + Shinn
14 lbs of bor to Secs
11-12-13 & 14 from which
Cor Drunk

N. 89° 54' W. on a true
line bet. Secs - 11 & 14
T_a 13° 30' E,

39.81 Set a post 3 ft. long
4 ins sq. with marked
stone 12 ins in the

L. 12. W. R. 24 E. G. + S. R. M.

Lehmanis

ground for $\frac{1}{4}$ Sec Cov
 marked $\frac{1}{4}$ S on the
 face - Dug pits $18 \times 18 \times$
 12 ins E + W of post
 $5\frac{1}{2}$ ft. dia. + raised a
 mound of earth $1\frac{1}{2}$
 ft. high $3\frac{1}{2}$ ft. base around
 post.

79.63

The Corto Secs - 10-11-14+15 -
 land gently rolling
 soil 1st. rate,
 Good grazing -
 vegetation prairie brush

North hbr. Secs 10 + 11 -
 Va 130 30' E,
 land slightly rolling -

S. 12. W. R. 24 E. N. 1 S. R. 16

Behrens

40,000

Set a post 3 ft. long
4 ins sq with mark
stone 12 ins in the ground
for $\frac{1}{4}$ Sec Cov. marked
 $\frac{1}{4}$ S on W. face, Dry
pits 18 x 18 x 12 ins N &
S of post $5\frac{1}{2}$ ft. dist.
& raised a mound of
earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base around
post.

80,000

Set a sand stone 14
x 12 x 3 ins 10 ins in
the ground for Cov.
to Secs 2-3-10-11 -
marked with 5
noleties on S & 2 noleties
on E edges, & raised

S. 12. N. R. 24 E. G. & S. R. 16.

Chamis

a mound of stone
alongside Pita
imperfectly
land gently rolling
soil 1st water,
Good grazing
vegetation of juniper brush.

East on a random line
bet. Secs 2 + 11

to a 13027' E.

Over rolling valley -
40.00 hit a temporary $\frac{1}{4}$
Sec Cor.

79.58 Intersect N + S line
27 lbs S. of Cor to Secs
1-2-11 + 12 from which

S. 12. 76. B. 24 E. G. & D. Co. Co.

Chassis

Cor - Iron -

S 89° 48' W on a true
line bet. Secs 17-12

to a 13° 27' E.

39.79 Set a sand stone 18-12

x 7 ins 12 ins in the
ground for $\frac{1}{4}$ Sec Cor-
marked $\frac{1}{4}$ on N face
& raised a mound of
stone alongside, Pits
unpracticable.

79.58 The Cor. to Secs 2-3-10-11-
Land broken & rocky.
Soil 2nd rate
Good grazing

North on a true line

S. 12 N. R. 24 E. N. S. R. M.

Shanis

bet. Secs 2 & 3.

ba $130^{\circ}27' E.$

4090

Rolling valley
 hit a sand stone $20 \times$
 10×6 ms 14 ms in the
 ground for $\frac{1}{4}$ Sec Cor
 marked $\frac{1}{4}$ on W face
 & raised a mound of
 stone alongside, Pits
 impracticable.

72.22

Intersect the 3^d standard
 parallel north at a point
 15.57 ^{chs.} West of Standard Cor
 to Secs 34 & 35. Which
 is a sand stone set
 firmly in the ground &
 properly notched &
 with pits in each
 Sec. $5\frac{1}{2}$ ft. dia.

S. 12, T. 6. R. 24 E. N. 1/2 S. 10. 16

Lehmann

at which point I set
 a post 4 ft long 4 ins
 sq. with marked stones
 12 ins in the ground for
 blowing coils to see -
 2 + 3 unmarked b. c.
 S. 12. R. 24 E. on S
 --- S 2 on - E. ---
 S 3 on. W + with 2
 notches on E + 4 notches
 on W faces - Dig pits
 15 x 15 x 14 ins E. W + S
 of post 5 1/2 ft. dia. +
 raised a mound of
 earth 2 ft. high 4 1/2
 ft. base around post
 Sand gently rolling
 Soil 2nd rate

S. 12. W. B. 24 E. G. + S. R. W.

Lehmanis

Good evening -
 I carefully examined
 the adjustments of my
 solar compass to, day,
 particularly the latitude
 & reversing apparatus &
 found them correct,
 Aug 16 1882.

From the box to
 Dees 3-4-33+34 which
 is a basalt stone
 10 x 8 ins set firmly
 in the ground properly
 notched & with
 a mound of stones
 alongside

S. 12. N. R. 24 E. N. + S. R. 16

Lehman

Trun N. bet. Seas 33 + 34
to 130° 15' E

Over slightly rolling
mesa

40.00

Set a basalt stone
16 x 9 x 5 ins 12 ins in
the ground for 1/4 Sec
Cor. marked 1/4 on W
face. Dug pits 18 x 18 x
12 ins N + S of stone 5 1/2
ft. dist. & raised a mound
of earth 1 1/2 ft. high 3 1/2
ft. base along side.

80.00

Set a sand stone 17 x
9 x 6 ins 12 ins in the
ground for Cor to Seas
27-28-33 + 34 marked
with 1 notch on S +

L. 12. H. B. 24 E. A. S. P. W.

Pchavis

3 nolettes on E edge
 Dug pits 18x18x12 ins
 in each see 5 1/2 ft.
 dist. & raised a mound
 of earth 2 ft. high 4 1/2
 base along side - from which
 a juniper 10 ins diam base
 at 60° E. 19 lbs dist. marked
 S 12 N. R 24 E. S 27 B. S.

a juniper 16 ins diam base
 at 74° E. 5-5 lbs dist. marked
 S 12 N. R 24 E. S 34 B. S.

a juniper 8 ins diam base
 at 70° W. 50 lbs dist. marked
 S 12 N. R 24 E. S 33 B. S.

a Pinion pine 12 ins diam
 base at 70° W. 99 lbs dist.
 marked S 12 N. R 24 E. S 28
 B. S.

S. 12. N. R. 24 E. S. 1. R. 11 E.

Belvaire

Land slightly rolling
 Soil 3^d feet
 Fair grazing
 Timber juniper & pine

East on a random line
 bet. Secs 27 & 34
 to a 13° 30' E,

Over level land

40.00 Set a temporary 1/4 Sec
 Cor.

58.20 Begin to descend.

80.35 Intersect N + S line
 28 lbs S of Cor. to Secs
 26-27-34 & 35, from
 which Cor. I then
 S 89° 48' W on a true

L. 12. W. B. 24 E. H. & S. B. B.

Wharris

line bet. Secs - 27 & 34
Va 130° 30' E.

40.17 Set a sand stone 76 x
8 x 4 ins 12 ins in the
ground for $\frac{1}{4}$ Sec Cor,
marked $\frac{1}{4}$ on N face
Dug pits 18 x 18 x 12 ins
E & W of stone 5 $\frac{1}{2}$ ft,
dist. & raised a mound
of earth $\frac{1}{2}$ ft. high 3 $\frac{1}{2}$
ft. base along side
from which -
A juniper 29 ins diam
bet S 22° E 42 lbs
dist. marked $\frac{1}{4}$ S. B. B
A juniper 24 ins diam bet
N 48° W 100 lbs dist. marked
 $\frac{1}{4}$ S. B. B

S. 12. N. R. 24 E. T. & S. R. 16.

Lehmanis

80,35- The Cor. to Secs - 27-28-
33 + 34 -

Land slightly rolling
soil 3rd rated.

Timber juniper

North bet. Secs 27 & 28,
T. 13 & 30' E.

Descend -

4000 Hit a basalt stone 15 x
10 x 5 ins 10 ins in the
ground for 1/4 Sec Cor.
marked 1/4 on W face.
Dug pits 18 x 18 x 12 ins
1/2 ft of stone 5 1/2 ft,
dist. & raised a mound
of earth 1 1/2 ft. high

L. 12, N. B. 24, E. G. S. B. 16

Charris

3 1/2 ft. base along side
 from which
 a pinion pine 10 ins diam
 bis S 85° E, 4 2 lbs dist.
 marked 1/4 S. B. T

a juniper 12 ins diam
 bis N 87° W 26 lbs dist.
 marked 1/4 S. B. T.

77.11 Top of ridge 200 ft. high
 bis N 80° E. & descend

80.00 Set a basalt stone 15
 x 10 x 4 ins 10 ins in the
 ground for Cor to Seas
 21-22-27 & 28 marked
 with 2 notches on S
 & 3 notches on E edges
 & raised a mound of
 stones alongside

L. 12. N. P. 24 E. G. + S. R. M.

Lehman's

Pits impracticable
band rolling
Soil 3rd ratf.
Timber scrub juniper

East on a random line
bet. Secs 22 + 27

ba 20° 35' E.

7.17

Top of ridge 250 ft. high
br. at 80° E. decl. ↓

40.00

Set a temporary 1/4 Sec. Cor.

79.86

Intersect at W line 4 lbs
S of Cor. to Secs - 22 - 23 -
26 + 27 from which Cor.
Dred -

S 89° 5' W on a true line
bet. Secs - 22 + 27.

ba 20° 35' E.

S. 12: H. R. 24 E. G. + S. R. H.

Ichavio

3993 Set a basalt stone $16 \times 9 \times 4$ ins 12 ins in the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ on N. face + raised a mound of stone alongside, Pitt impracticable.

7986 The Cor. to Secs. 21-22-27 + 28,
 Sand broken + rocky
 Soil 3^d rate
 Some juniper brush

North

bet. Secs 21 + 22

to $12^{\circ} 30' E$

Descend gradually

L. 12. N. P. 24 E. G. 1 S. P. 70. W.

Chassis

- 40.00 Set a sand stone 16x12
x 4 ins 10 ins in the
ground for $\frac{1}{4}$ Sec Cor-
marked $\frac{1}{4}$ on W face
& raised a mound of
stone alongside. Pit
Pits unpracticable.
- 69.75 Cross wash 14 lbs wide
Course at 60° E & ascend
gradually.
- 80.00 Set a post 4 ft. long
4 ins sq. with marks
stone 12 ins in the
ground for Cor- to
Heas 15-16-21 & 22 marked
S 12 on S. 15 on N. E.
R 24 E. S 22 on S. E.
S 21 on S W and
S 16 on N. W. faces with

S. 12. N. R. 24 E. 4. + S. R. 16

Chassis

3 notches on S + E edges
 Dig pits $15 \times 15 \times 12$ ins
 in each Dec $5\frac{1}{2}$ ft,
 dist + raised - mound
 of earth 2 ft. high
 $4\frac{1}{2}$ ft. base around
 post.

Band rough + rocky -
 Good grazing
 Soil 2nd date
 Timber Juniper

East on a random
 line bet. Decs 15 + 22

to $12^{\circ} 35' E$

40.00

Set a temporary $\frac{1}{4}$ sec cor.

55.20

Cross Wash 13 lbs wide

S. 12. N. B. 24 E. G. & S. P. 76.

Lehavis

80.17

course N E ascend
 Intersect N & S line
 21 lbs N of bar, to
 Secs 14-15-22 & 23 - from
 which cor. I run
 N 89° 51' W on a true line
 bet. Secs 15 & 22.
 on 12° 30' E,

40.08

Set a post 4 ft. long
 4 ins sq. with marked
 stone 12 ins in the
 ground for $\frac{1}{4}$ sec cor.
 marked $\frac{1}{4}$ on N face.
 Dug pits 18 x 18 x 12 ins E
 + W of post 5 $\frac{1}{2}$ ft. dist.
 + raised a mound of
 earth 1 $\frac{1}{2}$ ft. high 3 $\frac{1}{2}$
 ft. base around post

S. 12 N. R. 24 E. T. 4 S. R. 16 W.

Chassis

80.17 The Cor. to Secs 15-16-21
+ 22 -

Band rough & rocky.
Fair grazing -
Soil 2nd rate

Tooth bet. Secs 15 & 16 -

to a 12° 30' E

ascend gradually.

40.00

Set a blue limestone
24 x 12 x 9 ins 18 ins in
the ground for 1/4 Sec
Cor. marked 1/4 on W
face & raised a mound
of stone alongside, Pts
impracticable

42.16

Top of ridge 78 ft. high

S. 12 N. 6: R 24 E. S. 4 + S. P. 110.

Lehman's

80,000

has E + W + Decend
 Set a blue lime stone
 14 x 11 x 6 ins 10 ins in
 the ground for Cor to
 Dec - 9 - 10 - 15 + 16 - marked
 with 4 nolets on S +
 3 nolets on E edges
 + raised a mound of
 stone along side, Pts
 impracticable -

Land rough & rocky,
 Soil 2 1/2 ft rate

Timber scattering juniper

East on a random
 line, bet. Decs 10 + 15

to a 130 25' E

S 12. N. R. 24 E. T. 4. P. C. N.

Chambers

- 40.00 Descend over rolling ground
Set a temporary $\frac{1}{4}$ Sec
Cor.
- 79.80 Intersect N + Shire 32
lbs Sof Cor to Secs - 10 -
11 - 14 + 15 - from which
Cor - I run -
S. $89^{\circ} 46' W$ on a true
line bet. Secs - 10 + 15 -
to a $13^{\circ} 25' E$.
- 39.40 Set a sand stone 15 x
10 x 6 ins 10 ins in the
ground for $\frac{1}{4}$ Sec Cor.
Marked $\frac{1}{4}$ on N face,
& raised a mound
of stones alongside
Pits impracticable -
- 79.80 The Cor. to Secs 9-10-15

L. 12. H. B. & E. H. + J. B. H.

Behavis

+ 16 -

Land rolling + rocky.
Good grazing
Soil 2 1/2 feet.

North bel. Secs 9 + 10
T₁₄ 13° 25' E,

40,00

Over rolling rocky hills
Set a blue pine stone
14 x 10 x 7 ins 10 ins in
the ground for 1/4 sec Cor
marked 1/4 on W face
& raised a mound of
stone alongside, Pit
impracticable, from
which -
A juniper 12 ins diam br

T. 2 N. R. 24 E. S. 8 & S. R. M.

blains

80.00

S 83° 30' W 34 lbs dist
marked 1/4 S. B. T.
Set a post 4 ft. long 4
ins sq with marked plate
12 ins in the ground for
cor to Secs 3 & 4 - 9 & 10 -
marked -

T. 2 N. S 3 on N. E.

R 24 E. S 10 on S. E.

S 9 on S. W and

S 4 on N. W. faces - and
with 5 notches on S &
3 notches on E edges -

Dug pits 18 x 18 x 12 ins
in each Sec 5 1/2 ft.
dist. & raised a mound
of earth 2 ft. high 4 1/2
ft. base around post.

Land rough & rocky

S. 12, N. R. 24 E. G. + S. R. N.

Lehman's

Soil 2nd rate,
vegetation juniper bush

East on a random
line bet. Secs 3 + 10 -

to a 13° 12' E.

Descend over rolling ground

40.00

Set a temporary $\frac{1}{4}$
Sec Cor.

79.55

Intersect N + S line
12 lbs S of Cor to Secs
2-3-10 + 11 from which
Cor. found -

S 89° 57' W on a true
line bet. Secs - 3-10 -

to a 13° 12' E.

39.77

Set a sand stone
16 x 10 x 3 ins 12 ins in

S. 12. T6. R 24 E. G. & S. R. 10

Shanis

the ground for $\frac{1}{4}$ Sec
Cor. marked $\frac{1}{4}$ on N face
and raised a mound of
stone alongside, Pitt
impracticable -

79.55 The Cor. to Secs. 3-4-9+10.

East half - valley land
west half - broken & rocky
Good grazing -
Soil 1 ft $\frac{1}{2}$ 2 ft rate
vegetation juniper brush

North on a true line
bet. Secs 3 & 4.

b a 130 14' E.

Descend gradually
Set a sand stone 14 x
11 x 6 ins 10 ins in the

40.00

S. 12. N. P. 24 E. G. & S. P. N.

Lehavis

ground for $\frac{1}{4}$ Sec Cor -
 marked $\frac{1}{4}$ on W face
 & raised a mound of
 stone along side, Pits
 impracticable -

70,86

Intersect 3^d Standard
 Parallel North at a
 point 18.52 chs. west of
 standard cor. to Secs
 33 + 34 which is a
 post set firmly in
 the ground properly marked
 + notched + with pits in
 each Sec + bearing
 trees N. E. S. E + S. W - properly
 marked -

at which point I set
 a post 4 ft. long 4 ins
 sq. with marked stone

S. 12. N. R. 24 E. N. S. P. K.

Lehavis

12 ins in the ground for
blowing for. top Secs 3 & 4
marked B.C. S. 12 N. R. 24 E
on S, S 3 on E + S 4 on W
with 3 nolets on E + W
faces. Dug pits 18 x 18 x
12 ins S. E + W of post
5 1/2 ft. dist. and raised
a mound of earth 2 ft.
high 4 1/2 ft. base around
post.

Rolling hills
Fair grazing
Soil ~~poor~~ ~~hate~~

Juniper
I carefully examined
the adjustment of my
solar compass particularly
the latitude & reversing

L. 12. N. R. 24 E. G. & S. R. 16.

Lehavis

apparatus & found them
correct,

Aug 17 '1882

From the Cor. to Secs.
4-5-32 & 33 which is a
basalt stone set
firmly in the ground
properly notched
& with a mound
of stone along side

Thence I run N. bet.
Secs - 32 & 33

to 13° 30' E

ascend -

40.00

Set a post 3 ft. long

L. 12. W. P. 24 E. H. + S. P. H.

Behavis

4 ins sq. with marked
stone 12 ins in the
ground for $\frac{1}{4}$ Sec Cor.
Marked $\frac{1}{4}$ S on W face
Dug pits 18 x 18 x 12 ins
N + S of post $5\frac{1}{2}$ ft. dist.
& raised a mound of
earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
ft. base around post.
Edge of mesa brok $\text{N} 28^{\circ} \text{W}$
Set a basalt stone
21 x 10 x 6 ins 15 ins
in the ground for Cor.
to Secs 28-29-32+33
marked with 1 notch
on S & 4 notches on E
edges & raised a mound
of stone alongside -
Pits impracticable

48,00

80,00

L. 12. N. P. 24 E. G. S. P. 70

Lehavis

Band rolling
 Soil 3rd rate.
 Good grazing
 Timber - Junipers

East on a random
 line bet. Secs 28 + 33
 to 10° 30' E.

Over rolling mesa.

40.00 Set a temporary 1/4 Sec Cor

80.32 Intersect N + S line 12

lbs N of Cor. to Secs 27
 - 28 - 33 + 34 from which
 Cor. Draw

N. 89° 55' W on a true
 line bet. Secs 28 + 33

to 10° 30' E.

40.16 Set a sand stone

S. 12 N. R. 24 E. S. 4. S. R. 116.

Lehman

14 x 12 x 10 ins 10 ins
 in the ground for $\frac{1}{4}$ sec
 Cor. marked $\frac{1}{4}$ of $\frac{1}{4}$ -
 face & raised a mound
 of stone along side - Pits
 of *practigalbe* -
 of *practigalbe* -
 A pine 10 ins diam hrs
 N 40 E, 32 lbs dist - -
 marked $\frac{1}{4}$ S. B. S.,
 A pine 6 ins diam hrs -
 S 49 W 25-lbs dist, marked
 $\frac{1}{4}$ S. B. S.

80.32

The Cor. to Secs 28-29-32 & 33

Land rolling

Soil 3^d rate

Good grazing

Timber Pine & Juniper

S. 12. N. R. 24 E. T. & S. P. M.

Behan's

North bet. Secs 28 + 29
 on $10^{\circ} 30' E$

Ascend

40,00

Set a blue lime stone
 $16 \times 10 \times 6$ ins 12 ins in
 the ground for $\frac{1}{4}$ Sec Cor
 marked $\frac{1}{4}$ on W face
 & raised a mound of
 stone alongside, Pitts
 impracticable.

69,50

Top of ridge 200 ft. high
 bet. N. W. 1/4 Sec 20 + 29

89,00

Set a blue lime stone
 $24 \times 10 \times 4$ ins 16 ins in
 the ground for Cor. to
 Secs 20 - 21 - 28 + 29 -
 marked with 2 notches
 on S + 4 notches on E
 edges & raised a mound

S. 12. W. R 24 E. G. & J. R. M.

Chambers

of stone alongside, Pits
 impracticable from which
 a piñon pine ^{10 mts diam} ~~tree~~ $S 35^{\circ} 30' E$
 32 lbs disk, marked 512
 N. R 24 E. S 28 B. S.
 a piñon pine 8 mts diam
 base N 42° W. 5-6 lbs disk,
 marked 512 N. R 24 E
 S 20 B. S.

Round mesa.
 Soil 2nd rate
 Good grazing
 Timbered Pinus & Juniper -

East on a random
 line bet. Secs 21 & 28,
 to $13^{\circ} 30' E$,
 Descend -

S. 12. N. B. 24 E. S. 4 + S. B. 7 N.

Behrens

- 33,00 Cross canon 30 ft. deep
Course N. W + ahead
- 40,00 Set a temporary $\frac{1}{4}$ Sec. corner
- 80,22 Intersect N. + S. line
28 lks S. of Cor. to Secs.
21-22-27 + 28 from
which Cor. I run.
S 89° 48' W on a true line
bet. Secs 21 + 28
ba 130 30' E,
- 40,11 Set a sand stone 15 x
11 x 6 ins 10 ins in the
ground for $\frac{1}{4}$ Sec. Cor.
marked $\frac{1}{4}$ on N. face
+ raised a mound of
stone alongside, pits
unpracticable.
- 80,22 The Cor. to Secs. 20-21-
28 + 29.

S. 12. 76. B 24 E. G. S. R. M.

Leharris

Band rough & rolling
Soil 2nd rate
Good grazing

North bet. Secs 20 & 21
to a 130° 30' E.

Descend gradually.

40.00 Set a sand stone 2 1/4 x 12
x 8 ins 16 ins in the ground
for 1/4 Sec Cor. marked 1/4
on W face & raised a
mound of stone alongside
Pits unfracturable

47.60 Cross wash 13 lbs wide
course N. W. ascend -

89.00 Set a sand stone 26
x 14 x 10 ins 20 ins in
the ground for Cor. to

S. 12. N. E. P. 24 E. H. + J. R. M.

Lehman's

Secs - 16-17-20 + 21 -
marked with 3 notches
on S + 4 notches on E
edges + raised a mound
of stone along side, Pits
unpracticable.

Round rough + rocky -
soil 2nd rate

Good grazing
Timber scattering juniper

East on a road one
line bet. Secs 16 + 21 -
to a 13° 18' E.

Ascend gradually
40,00 Set a temporary 1/4 sec
con.
57,80 Top of ridge 100 ft high

S. 12. T6. R. 24 E. G. & R. M.

Chassis

80.40
 hrs N 20° E, descend
 intersect N + line 13
 lbs S of Cor to Secs 15-
 16-21 + 22 from which
 Cor. Drunk

S 89° 54' W on a true
 line bet. Secs 16 + 21
 Va 130 18' E.

40.20
 Set a sandstone 20 x 10
 x 7 ins 16 ins in the
 ground for 1/4 Sec Cor,
 marked 1/4 on N. face
 + raised a mound of stone
 alongside, Pits unfracturable

80.40
 The Cor. to Secs 16-17-20 + 21
 Sand rough + rocky
 Soil 2nd rate
 Good grazing

S. 12. N. R. 24 E. G. S. R. M. 6

Lehman's

North bet. Secs 16 + 17
 Va $13^{\circ} 18'$ E.

Ascend gradually,

40.00

Set a sand stone 20×20
 $\times 15$ ins 16 ins in the
 ground for $\frac{1}{4}$ Sec Cor.
 marked $\frac{1}{4}$ on W face
 Dig pit $18 \times 18 \times 12$ ins
 N + S of stone $5\frac{1}{2}$ ft.
 diam. raised a mound
 of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
 ft. base along side -
 Top of spur 70 ft. high
 bet E + W descend.

70.60

79.90

Cross Canon 30 ft. deep
 Course N. W + ascend

80.00

Set a sand stone $25 \times$
 12×7 ins 18 ins in the
 ground for Cor. to Secs

S. 12. N. R. 24 E. S. 10. R. 76

Sharris

8-9-16+17. marked with
4 notches on S + E edges -
+ raised a mound of stone
alongside, Pits impracticable
Sand rough + rocky
Soil 2nd rate,
Good grass.

Timber Scattered Pine + juniper

East on a random line
bet. Secs 9 + 16
ba 13° 15' E.

Ascend.

40.00 Set a temporary $\frac{1}{4}$ Sec
Cor.

63.20 Top of spur 70 ft. high
has 1st S + descend

79.10 Intersect N + S line 16

S. 12 N. B. 24 E. 1/4 + S. R. 16

Lehman's

W. 1/4 of Cor. to Secs -
9-10-15 + 16 from which
Cor - Drum

N. 89° 53' W on a true
line bet. Secs 9 + 16

to a 13° 15' E.

39.55-

Set a sand stone 24 x
12 x 8 ins 16 ins in the
ground for 1/4 Sec Cor
marked 1/4 on 1/4 face
& raised a mound of
stone alongside, Pits in-
practicable.

79.10

1/4 Sec Cor. to Secs. 8-9-16+17

Land rolling

Soil 2nd ref

Good grazing

Timber for paper

S. 12. N. R. 24 E. G. R. R. 16.

Chassis

North bet. Secs 8 + 9

Tr. 13° 15' E,

Ascend,

22,80

Top of spur 70 ft. high
bet. E + W descend,

40,00

Set a sand stone 30 x 14
x 9 ins 20 ins in the
ground for $\frac{1}{4}$ Sec Cor.
Marked $\frac{1}{4}$ on W face
+ raised a mound of
stone alongside, Pits
unpracticable -

59,51

Cross wash 10 lbs wide
Course N. W + ascend,

64,00

Top of ridge 100 ft high
bet. N 15° 30' W + descend,

80,00

Set a blue lime stone
14 x 10 x 7 ins 10 ins in the
ground for Cor. to Secs

S. 12. N. 6. R. 24 E. G. & S. R. N.

Lehman's

4-5-8+9 marked with
 5 nolettes on S + 4 nolettes
 on E edges, & raised a
 mound of stone alongside
 Pits impracticable
 Sand rough & rocky -
 Soil 2nd grade
 Fair grazing
 vegetation juniper brush.

East on a random
 line bet. Secs 4+9
 to 13° 16' E.

ascend gradually
 Set temporary 1/4 Sec Cor.
 Top of ridge bet 10° W +
 descend!

40.00

77.00

78.48

Intersect N + S line

L. 12. W. R. 24 E. G. S. R. W.

Chassis

24 lbs of Cor. to Secs
3-4-9+10 from which
Cor. I run

At 89°50' W on a true
line bet. Secs - 4 + 9,

to a 13°10' E,

39.24

Set a sand stone 18 x
12 x 3 ins 12 ins in the
ground for $\frac{1}{4}$ Sec Cor,
marked $\frac{1}{4}$ on N. face
& raised a mound of
stone alongside, Pits
infractible from which
a juniper 10 ins diam has
N 60° E 32 lbs dist. marked
 $\frac{1}{4}$ S. B.T.

A juniper 12 ins diam has
S 45° E 33 lbs dist marked
 $\frac{1}{4}$ S. B.T.

78.48

The Cor to Secs 4-5-8+9

L. 12. N. R. 24 E. S. 1 + S. R. 70.

Schamis

Band broken & rocky
 Soil 2nd rate,
 Good grazing
 Timber juniper

North on a true line
 bet. Secs 4 & 5

ba 13° 10' E

Descend gradually,
 40.00 Set a sand stouf 24
 x 10 x 4 ins 16 ins in the
 ground for 1/4 Sec Cor-
 marked 1/4 on W face
 & raised a mound of
 stone alongside, pits
 unpracticable.

69.00 Intersect 3rd Standard
 Parallel North 12.07

S. 12. N. R. 24 E. S. 4. T. 16. N.

Wharris

chs. W of standard Cor,
to Secs 32 + 33 which
is a limestone 12 x 12 ins
set firmly in the ground
properly notched & with
pits in each Sec 5 1/2
ft. dist.

at which point I set
a post 4 ft. long 4 ins.
sq. with marked stone
12 ins in the ground
for blowing bar to
Secs 4 + 5 - marked
B.C. 5. 12 N. R. 24 E on
S. S. 4 on ~~ST~~
S 5 on W faces -
with 2 notches on W
& 4 notches on E edges

S. 12. N. E. 24 E. N. + S. B. N.

Lehman's

- Dug pits $18 \times 18 \times 12$
 in. S. E. + W. of post
 $5\frac{1}{2}$ ft. dia. + raised
 a mound of earth 2
 ft. high $4\frac{1}{2}$ ft. base
 around post.

Band rough & rocky
 Soil 2nd rate

Fair grey mg.

I carefully examined
 the adjustment of my
 solar compass today
 particularly the latitude
 & reversing apparatus
 & found them correct

Aug 17-1882

S. 12. N. R. 24 E. N. + S. R. 10.

Chambers.

From the Cor. to Sec
5-6-31+32 which is a
basalt stone set
firmly in the ground
properly marked
with mound of
stone alongside

Thence I run North
bet. Secs 31+32

to 13038' E

ascend.

4000

Set a granite stone 15x10
x 4 ins 10 ins in the
ground for $\frac{1}{4}$ Sec Cor.
marked $\frac{1}{4}$ on W. face
and raised a mound
of stone alongside -
This impracticable

S. 12. N. R. 24 E. G. & S. R. 76.

Lehman's

43,60

Top of ridge 320 ft. high hrs N 21° E & declined

80,00

Set a basalt stone
 16 x 8 x 3 ins 12 ins in
 the ground for Cor.
 to Secs - 29 - 30 - 31 & 32
 marked with 1 notch on
 & 5 notches on 2 edges -
 Dug pits 18 x 18 x 12 ins
 in each Sec 5 1/2 ft.
 dist. & raised a mound
 of earth 2 ft. high 4 1/2
 ft. base alongside -
 Band rolling & rocky
 Soil 32 rate,
 Timber juniper

East on a random

S. 12. N. R. 24 E. G. R. 76.

Lehman

line bet. Secs 29 + 32

ba 130° 30' E,

ascend gradually,

37.00 Top of ledge 240 ft. high
bes N 50° E + descend

40.00 Set temporary 1/4 Sec Cor.

80.12 Intersect N 50° E 1/4 Sec

South of Cor. to Secs. 28 + 29

32 + 33 from which Cor.

I run,

S 89° 53' W on a true line

bet. Secs 29 + 32,

ba 130° 30' E,

40.06 Set a basalt stone 14 x

10 x 6 ins 9 ins in the

ground for 1/4 Sec Cor.

marked 1/4 on N face

+ raised a mound of

stone alongside. Pits

impracticable

S. 12 76. R. 24 E. T. 4. S. 10 N.

Chassis

~~80.12 Intersect of 2 lines~~

~~17 lbs S of Cor. to Secs -
28-29-32 & 33 from which
Cor. I run -~~

~~S 89° 53' W on a true line
bet. Secs 29 & 32
to be 13° 30' E.~~

40.06

~~hit a basalt stone
14 x 10 x 6 ins 10 ins in
the ground for 1/4 Sec Cor
marked 1/4 on N face
& raised a mound of
stone alongside -
Pits impracticable~~

80.12

The Cor. to Secs -
29-30-31 & 32.

Band rolling & rocky
soil 2nd after
Fair grazing

S. 12. N. R. 24 E. N. S. R. 10.

Lhamis

West on a random line
bet. Secs - 30 & 31

Via $130^{\circ}30'E$

Descend gradually.

39.20 cross wash 25 lbs wide
course S 76° W. & ascend.

40.00 Set temporary $\frac{1}{4}$ Sec Cor.

78.94 Intersect W. boundary
of Sp- 16 lbs S of cor. of
Secs. 25-30-31 & 36, which
is a sand stone 14×10 ins

set firmly in the
ground - properly notched
& with pits & marks
in each sec - $5\frac{1}{2}$ ft
dist.

from which Cor. Down

S. 12. N. R. 24 E. G. + S. R. 76.

Lehans

S 89° 53' E on a true
line bet. Secs. 30 + 31.
Va 13° 30' E

38.94

Set a sandstone 17 x 8 x
4 ins 12 ins in the ground
for 1/4 Sec Cor. marked
1/4 on N. face + raised
a mound of stone alongside
Pits unpracticable.

78.94

The Cor. to Secs 29-30-31
+ 32

band rolling
Soil 3rd rate,
Good grazing
vegetation Juniper Bush,

North bet. Secs 29 + 30.

S. 12. N. R. 24 E. G. + J. R. M.

chains

ba 130°30'E,

Descend,

- 8,111 Cross wash 35 lbs
wide course W + ascend.
- 40,000 Set a post 3 ft. long
4 ins sq. with marked
stone 12 ins in the ground
for $\frac{1}{4}$ Sec Cor. marked
N + S on W face, dug pits
N + S of post $5\frac{1}{2}$ ft. apart,
raised a mound of earth
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
around post
- 80,000 Set a lime stone $18 \times$
 10×6 ins 12 ins in the ground
for Cor. to Secs 19-20-29 + 30
marked with 2 notches
on S + 5 notches on
E edges + raised a

S. 12. N. R. 24 E. G. + S. P. 16

Lehavis

mound of stone alongside
Pits unpracticable
from which -

A juniper 12 mis diam
brs of N. 51° E. 51 lbs -
dist. marked S 12 N.
R 24 E. S 20 B, S.

A juniper 8 mis diam brs
N 69° W 20 lbs dist.
marked S 12 N. R 24 E
S 19 B, S.

Band broken & rocky -
Soil 3^d rate.

Timber juniper

East on a random line
bet. Secs 20 & 29.

to a 13° 10' E

S. 12. T. 6. R. 24 E. S. + D. P. M.

Chamis

- 40.00 Set a temporary $\frac{1}{4}$ Sec Cor.
- 44.00 Top of ridge bro $\text{N } 20^{\circ} \text{ W}$
 & descended gradually
- 80.16 Intersect $\text{N } 8$ line 22 lbs
 of cor. to Secs - 20 - 21 -
 28 + 29 from which Cor.
 I run
 $\text{N } 89^{\circ} 51' \text{ W}$ on a true
 line bet. Secs 20 + 29
 to $13^{\circ} 10' \text{ E}$
- 40.08 Set a sand stone 20 x
 10 x 7 ins. 16 ins in
 the ground for $\frac{1}{4}$ Sec Cor.
 marked $\frac{1}{4}$ on N face
 & raised a mound of
 stone alongside - Also
 impracticable
- 80.16 The Cor. to Secs - 19
 20 - 29 + 30 -

S. 12. No. R. 24 E. G. + S. R. No.

Delaware

Band rough + rocky
 Soil 3rd state.
 Fair grazing

West on a random
 line bet. Secs 19 + 30
 to 13010' E.

Descend gradually,

23.70

Cross which 20 lbs W-
 course descend gradually

40.00

Set temporary 1/4 Sec Cor.

63.24

Top of spur hrs. S 45° E 280
 ft. high + descend.

79.19

Intersect W. boundary
 of Sp - 22 lbs Sof Cor 150
 Secs 19-24-25 + 30 which
 is a sand stone
 18 x 12 ins - properly
 notched + marked

L. 12. 76. R. 24 E. G. & S. R. M.

Churnis

a mound of stone
alongside

from which Cor. I run -
S 89° 51' E on a true line
bet. Secs 19 + 30

to 13° 10' E.

39.19

Set a sand stone 19 x 10 x
4 ins 12 ins in the ground
for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$
on N face & raised a
mound of stone alongside
Pits unfracturable

79.19

The Cor to Secs - 19 - 20
29 + 30

Sand rolling & rocky.
Soil 3² rates

S. 12. 26. R. 24 E. N. 4. R. 26

Lehman's

Fairly ragging
 Timber, scatter with juniper

North bet. Secs 19 + 20
 on 130° 10' E

Ascend.

40.00

Set a line stone 18 x 10
 + 6 ins 12 ins in the
 ground for 1/4 Sec Cor.
 marked 1/4 on W face
 + raised a mound of
 stone alongside, Pitts
 impracticable.

80.00

Set a basalt ^{stone} 20 x 9 x
 4 ins ^{15 ins} in the ground
 for Cor to Secs 17-18-19
 + 20 marked with
 3 notches on S + 5 notches

S. 12. 76. R. 24 E. G. S. R. W.

Chamis

on 2 edges + raised a
 mound of stone alongside
 pits unreachable
 Band rough + rocky,
 Soil 3^d state,
 Timber juniper brush

East on a random
 line bet. Secs 17 + 20
 on 150 30' E

Descend -

- 40.00 Set temporary 1/4 Sec
 Cor.
- 54.10 Cross wash 25 lbs wide
 corner N 210 W ascend
- 80.26 Intersect N + S line
 14 lbs N of Cor to Secs
 16-17-20 + 21 from which

S. 12. N. R. 24 E. N. + S. P. M

Schamis

Cor. I run

N $89^{\circ} 54'$ W on a true
line bet. Secs 17 + 20
- Va $13^{\circ} 30'$ E.

40.13

Set a sand stone 20
 $\times 14 \times 4$ ins 16 ins in
the ground for $\frac{1}{4}$ Sec
Cor. marked $\frac{1}{4}$ on N
face + raised a mound
off stone alongside
P to impracticable

80.26

See Cor to Secs 17-
18-19 + 20.

Land rolling
Soil 3rd rate

Good grazing

Timber yew

S. 12. N. R. 24 E. H. & S. R. M.

Linnis

Went on a random
line bet. Decs 18 + 19
to a $130^{\circ}30' E$.

40,000 Descend gradually,
4815 Set a temporary $\frac{1}{4}$ sec. cor.
Top of ridge 450 ft,
high bet $\frac{1}{4}$ 140 E
descend,

63,10 Cross wash 30 lbs-
wide, Course $\frac{1}{4}$ $41^{\circ} W$
ascend,

79,40 Intersect W. By of
Sp 23 lbs S of cor
to Decs 13-18-19 + 24
which is a sand
stone 9×6 ms set
firmly in the ground
properly notated
with a mound

L. 12. 76. R. 24 E. G. S. R. M. 6

Chassis

of stone alongside -

from which Cor. Drive
 D 89° 50' E on a true
 line bet. Secs 18 + 19,
 to a 130° 30' E.

39.40

hit a basalt stone
 16 x 10 x 3 ins 10 ins in
 the ground for $\frac{1}{4}$ Sec
 Cor marked $\frac{1}{4}$ on the
 face + raised a mound
 of stone alongside -
 Pit's unpracticable.

79.40

The Cor to Secs 17-18-19
 + 20 -

Band + rolling rocky
 Soil 32 rate, ✓
 Timber
 Scrubby juniper

J. 12. 76. R. 24 E. S. 16. M

Chassis

North bet. Secs 17 + 18
Tn 13030'E.

Descent -

40.00

Set sand stone 18 x 11 x
3 ins 12 ins in the ground
for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$
in W face - Dig pits
18 x 18 x 12 ins N + S of
stone $5\frac{1}{2}$ ft. dist. + raised
a mound of earth $\frac{1}{2}$
ft. high $3\frac{1}{2}$ ft. base alongside

80.00

Set sand stone 20 x 14 x 8
ins 15 ins in the ground
for Cor. to Secs - 7-8 + 17 + 18,
marked with 4 notches
on S + N - notches on E
edges + raised a mound
of stone alongside, Pits
irretrievable

S. 12. N. R. 24 E. N. 1/4 S. R. 7. N.

Lehman's

Band rough & rocky.
 Fair grazing
 Soil 3/4 rife
 Vegetation juniper brush

East on a random
 bet. Secs 8 & 17,
 to a 12° 30' E.

28.00

cross wash 300 lbs wide
 course N + ascend -

40.00

Set temporary Sec. Cor.

79.71

Intersect N + E line 18 lbs
 S of Cor. to Secs 8-9-16 & 17
 from which Cor. Run
 S 89° 5' 2" W on a true line
 bet. Secs - 8 & 17
 to a 12° 30' E.

Descend -

L. 12. N. R. 24 E. N. & S. P. M.

Lehman's

39.85

Set a sand stone 17 x 1.0 x 4 ins. 12 ins. in the ground for 1/4 Sec Cor. Marked 1/4 on N face & raised a mound of stone alongside, Pits impracticable

79.71

The ~~top~~ 6 Secs. 8, 9, 10 & 11 Sand broken & rocky - Soil 2nd rate Timber scattering juniper very little of yepes

Went on a random line bet. Secs 7 & 18. Va 120 30' E.

Ascend -

40.00

Set a temporary 1/4 Sec Cor. Top of ridge 1450 fts.

47.18

S. 12. 76. R. 24 E. 4. S. R. M.

Lehman's

7 1.15- high bis to D + descend
Cross wash 20 lbs wide
Course to 540 W + ascend

79.91 Intersect W. By of Sp-
22 lbs N of Cor. to Secs
7-12-13+18 which is a
line stone 10 x 4 ins
set firmly in the
ground properly
patented & with
a mound of stone
alongside

from which Cor. Iron
At 890 51' E on a true line
bet. Secs 7+18
to 120 30' E.

39.91 Set a sand stone 16 x 12
x 4 ins - 10 ins in the

S. 12. N. R. 24 E. M. + J. R. M.

Cham's

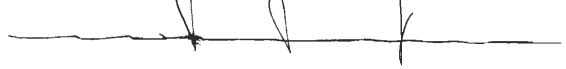
ground for $\frac{1}{4}$ Sec Cor. marked
N on W face & raised a
mound of stone alongside
Pits unpracticable.

79.91

The Cor. to Secs 7-8-17
& 18.

Land rolling & rocky
Soil 2nd rate.

Game grazing



North hbr. Secs 7 & 8
ba $12^{\circ} 30' E$.

40.00

Descend gradually,
Set a safe stone 21×13
 $\times 6$ ins 15 ins in the
ground for $\frac{1}{4}$ Sec Cor
marked $\frac{1}{4}$ on W face
& raised a mound of

S. 12. T6. R. 24 E. N. 1 S. R.M.

Lohman's

stone alongside Pit's unpracticable
from whichA juniper 12 mis diam hrs
S 85° E. 8 lbs dist. marked 4 S. B 5.

8200

Set a sandstone 17 x 9 x 4
mis & 2 mis in the ground
for con. to Secs 5-6 & 7 & 8
marked with 5 nolets
on S & E edges & raised a
mound of stone alongside
Pit's unpracticable -

Sand broken & rocky

Soil 30% water

Timber juniper in bunches

East on a random line
bet. Secs 5 & 8.

to a 13010' E.

S. 12. N. P. 24 E. N. + S. P. M.

Shawis

- Descend gradually,
 4000 Set temporary $\frac{1}{4}$ Sec Cor.
 42.24 Cross wash to the wide -
 course N + ascend,
 68.18 Top of spur 60 ft. high
 bis N 20° W + descent,
 79.46 Intersect N + S line
 23 lbs S of Cor. to Secs -
 4 - 5 - 8 + 9 from which
 Cor. Dred
 S 89° 50' W on a truck line
 bet. Secs - 5 + 8,
 Va 13° 10' E,
 39.73 Set a sand stone 16 x
 10 x 4 ins 10 ins in the
 ground for $\frac{1}{4}$ Sec Cor.
 marked $\frac{1}{4}$ on N. face
 Dug pits 18 x 18 x 12 ins
 E + W of stone 5 $\frac{1}{2}$ ft.

S. 12. T. 16. R. 24 E. S. 1. S. P. 116

Shaw's

dist. & raised a mound of
earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft.
base along side.

79.46

The Cor. to Secs 5-6-7+8.

Land rolling & rocky.

Soil 3^d rate.

vegetation juniper brush



West on a road on
line bet. Secs 6+7

to a 10' x 10' E

S. 12. 76. R. 24 E. G. & S. B. M. 6

Lehman

40,00

54,16

80.11

Ascend,
 Set a temporary $\frac{1}{4}$ Sec Cor.
 Top of ridge bet Sec 8 & 9
 descend - 400 ft. high -
 Intersect W. By of Sp-
 24 lbs N of Cor. to Secs
 1-6-7+12, which is a
 basalt stone set
 firmly in the ground
 properly notched
 & with a mound
 of stone alongside

from which Cor. I run -
 N. 89° 50' E on a true
 line bet. Secs - 6 & 7,
 to 130 10' E,

40,05-

Set a sand stone 16

S. 12. N. R. 24 E. T. 4 S. R. M.

Lehman

+ 10 x 4 ms 12 ms in the
 ground for $\frac{1}{4}$ Sec Cov.
 marked $\frac{1}{4}$ on N. face
 + raised a mound of
 stone alongside -
 Pits unpracticable
 The Cov. to Secs. 5-6-7+8
 is sand broken + rocky
 Soil 3^d rate,
 Timber scattering juniper

80.11

North on a true line
 bet. Secs 5 + 6

ba 13° 10' E,

Descend

37.15

Cross wash 20 lbs wide
 course to 64° E + ascend

40.00

Set a sand stone 15x

S. 12. N. R. 24 E. G. + S. R. W.

Sharris

8 + 3 ins 10 ins in the ground for 1/4 Sec Cor, marked 1/4 on W face and raised a mound of stone along side - Pits impracticable

67.40

Intersect 3^d Standard - Parallel North at a point 10.98 chs west of Standard Cor. to Secs 31 + 32, which is a post set firmly in a mound of earth - properly marked + notched + with pits in each Sec - + bearings properly marked at which point

S. 12, No. R. 24 E. N. + S. P. M.

Chum's

set a post 4 ft. long
4 ins sq, with marked
stone 1/2 ins in the
ground for blowing
for. to bees 5 + 6
marked B.C. S. 2 N. R
24 E on S.

S 5 on E and

S 6 on W faces -
and with 1 notch on W
+ 5 notches on E faces -

Dug pits 18 x 18 x 12 ins
S. E + W of post 5 1/2 ft.
diam. + raised a
mound of earth 2
ft. high 4 1/2 ft. base
around post.

Band broken + rocky
soil 3^d - rate

S. 12. N. R. 24 E., S. + J. R. M.

Lehavis

very little grass -

Timber scattering junipers -

I carefully examined
the adjustment of my
Solar Compass to day
particularly the latitude
and reversing apparatus
& found them correct
- Aug 18 - 1882.

BOOK 112

General Description -

The South eastern portion of the Tp. is a high mesa - The North eastern part is a valley with very abrupt sides

The central part is very high & broken -
- The western & North western part of Tp. is partly level mesa and partly broken -

A heavy growth of - Juniper in greater part of Tp. - with some Pinon -

Found no water except in tanks in Secs 11-26-27 and 32.

Good grass in nearly all parts of Township -

The stone throughout
the T_p is Basaltic &
sand formation.

The soil is of 2nd & 3rd rate
Josi Jaravilla has a
house, corral and
about 30 acres fenced
in Sec 32 valued at \$4000.00

U. S. Surveyor General's Office,
Tucson, Arizona, February 7, 1883,

The foregoing Field Notes of the survey of the
Subdivision lines
of
Township 19 North,
Range 24 East,

of the Gila and Salt River Base and Meridian, Arizona,
executed by C. W. Wheeler,

D. S., under his contract of the 31st day of
May, 1882, having been critically ex-

amined and the necessary corrections and explanations
made, the said Field Notes and the surveys they de-
scribe, are hereby approved.

J. W. Robinson

Surveyor General.