1

BOOK 1434

No. 1434

1434

4–671

FIELD NOTES

GENERAL LAND OFFICE.

Extensions

North bdy Tp: 22 N. R. 1. E.

North bdy Tp: 23 N. R 1. E.

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No. 1434

Field Notes of the Survey of the North Boundary of Tp. No 22 N. R. 1 E. of the Gila and Salt River Meridian in the Territory of Arizona as surveyed by Francis W. Oury. U.S Deputy Surveyor.

Charles E. Perkins.
Compassman & U.S. Dep. Surv.
Under contract No 31
Dated June 21, 1893

Survey commenced May 5 1894
Survey completed May 5 1894

N. Bdy. of T. 22 N. R. 1 E.

Chains Survey commenced May 5th 1894 with a W. & L. E. Gurley Solar transit. At the cor. to Tps. 22 & 23 North R's 1 & 2 E. I take a solar observation and find my instrument in perfect adjustment and the

Variation 14° 47' E.

From the cor. to Tp's. 22 & 23 N. R's 1 & 2 E. which is a post firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General, I run West on a random line between said townships the variations of my compass being 14° 47' E. I set temporary half mile and mile cor's at each 40 chs

Chains 80 chains and find the Tp. line to be 5 miles and 78.52 chains long, and the falling to be 25 lks. N. of cor. to Tp's. 22 & 23 N. R's. 1 E. & 1 W. The correction for the true line will therefore be 4 1/6 lks. S. and per mile and its true course will be N. 89 58 E. From the cor. to Tp's 22 & 23 N. R's. 1 E. & 1 W, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General

I run

N. 89° 58' E. on a true line bet. secs. 6 & 31

Va. 14° 47 E.

N. Bdy. of T. 22 N. R. 1 E. - Contd.

Chains

Over gently rolling land through dense Cedar and pinon brush.

38.52 Set a malpais stone 18 x 14 x 12 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 1½ ft. high 2 ft. base alongside from which

A cedar 12 ins. in diam. brs. S. 49° 31' W. 27 lks. dist. marked 1/4 S. B. T.

A cedar 13 ins. in diam brs. N. 54° 20 E. 41 lks. dist. marked 1/4 S. B. T.

Ascend gradually 100 ft.

73.00 Top of ascent.

78.52 Set a malpais stone 20 x 16 x 10 ins. 15 ins. in the ground for cor to secs. 5, 6, 31 & 32 marked with 5 notches on E. and 1

N. Bdy. of T. 22 N.R. 1 E= Contd.

Chains. notch on W. edges, and raised a mound of stone 1½ ft high 2 ft. base alongside, from which

A cedar 12 ins. in diam. brs. N. 80° 07' E. 100 lks. dist. marked T. 23 R 1 E. S. 32 B. T.

A cedar 6 ins. in diam. brs. N. 23° 45' W. 110 lks. dist. marked T. 23 N.R. 1 E. S. 31 B.T.

A cedar 20 ins. in diam. brs. N. 19° 15' W. 111 lks. dist marked T. 23 N.R. 1 E. S. 31 B. T.

A cedar 9 ins. diam. brs. S. 9° 36' W. 67 lks. dist. marked T. 22 N.R. 1 E. S. 6 B.T.

Land rolling.

Soil stony 3rd rate.

No timber.

Dense cedar and pinon

N. Bdy. of T. 22 N. R. 1 E.-Contd.

Chains. brush 78.52 chs.

N. 89° 58' E. on a true line bet. secs. 5 and 32.

Var. 14° 47' E.

Over rolling land, through dense brush.

7.00 Ascend 100 ft.

15.00 Top of ascent, ridge, course N. W. & S. E.

Descend 160 ft.

39.00 Foot of descent.

40.00 Set a malpais stone 17 x 15 x 12 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 1 1/2 ft. high 2 ft. base alongside, from which

A cedar 8 ins in diam. brs. S. 86° 20' W. 160 lks. dist.

N. Bdy of T. 22 N. R. 1 E. - Cont'd.

Chains. ft. high 2 ft. base alongside from which
A pinon 16 ins. in diam brs. S. 45° 19' W. 28 lks. dist marked 1/4 S. B. T.
A pinon 8 ins in diam brs. N. 73° 13' E. 49 lks. dist. marked 1/4 S. B. T.
Descend 200 ft.
76.00 Foot of descent.
80.00 Set a malpais stone 22+18+12 ins, 16 ins. in the ground for cor. to secs. 3, 4, 33 & 34 marked with 3 notches on E. and W. edges, and raised a mound of stone 1 1/2 ft. high 2 ft. base alongside, from which
A Juniper 48 ins. diam

N. Bdy. of T. 22 N.R. 1 E= Cont'd.

Chains brs. N. 73° 30' E. 73 lks. dist.
marked T. 23 N. R. 1 E. S. 34
B.T.

A cedar 6 ins. diam brs.
S. 36° 27' E. 104 lks. dist. marked
T. 22 N.R. 1 E. S. 3 B.T.

A cedar 10 ins. diam
brs. S. 63° 25' W. 200 lks dist
marked T. 22 N.R. 1 E. S 4
B.T.

A pine 8 ins. diam brs.
N. 70° 15' W. 220 lks. dist.
marked T. 23 N. R. 1 E. S.
33 B.T.
Land broken.
Soil rocky 4th rate.
No timber.
Dense brush 69 chs.

N. Bdy of T. 22 N. R. 1 E. - Contd.

Chains. N. 89 58 E. on a true line bet secs. 3 & 34

Var. 14° 47' E.

Over rolling land through dense brush.

35.00 Leave brush.

40.00 Set a malpais stone 16 x 14 x 14 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 1 1/2 ft. high 2. ft. base alongside Pits impracticable

45.00 Dry creek 5 ft. deep, course N.

66.00 Enter dense brush

69.00 Leave brush

80.00 Set a malpais stone 24 x 20 x 18 ins. 17 ins. in the ground for cor. to secs. 2, 3, 34 & 35 marked with 2 notches on the E. and 4 notches on W. edges and

N. Bdy. of T. 22 N. R. 1 E. Contd.

Chains. raised a mound of stone 1½ ft. high 2 ft base alongside from which

A cedar 8 ins. diam brs. N. 40° 09' E. 102 lks. dist. marked T. 23 N. R. 1 E. S. 35 B. T.

A cedar 24 ins. diam brs. N. 5° 07' E. 98 lks. dist. marked T. 23 N. R. 1 E. S. 35 B. T.

A cedar 24 ins. diam. brs. N. 9° 16 W. 115 lks. dist. marked T. 23 N. R. 1 E. S. 34 B. T.

A cedar 8 ins. diam. brs. N. 65° 15' W. 132 lks dist. marked T. 23 N. R. 1 E. S. 34 B. T.

Land rolling.

Soil stony 3rd rate.

No Timber

Dense brush 38 chains

N. Bdy. of T. 22 N. R. 1 E. - Contd.

Chains. N. 89° 58' E. on a true line bet. secs. 2 and 35.

Var. 14° 47' E.

Over mountainous land.

Ascend 200 ft.

36.00 Top of ascent and descend 250 ft. through dense brush.

40.00 Set a malpais stone 16 x 14 x 12 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 1 1/2 ft. high 2 ft. base alongside, from which

A pine 14 ins. diam. brs. S. 17° 20 W. 87 lks. dist. marked 1/4 S. B. T.

A pine 10 ins. diam. brs. S. 63° 11 E. 21 lks. dist. marked 1/4 S. B. T.

This cor. is on S. W. slope

N. Bdy. of T. 22 N. R. 1 E. Contd.

Chains. of mountain.

63.00 Foot of descent.

Thence over rolling land

Leave brush.

80.00 Set a malpais stone 24 x 20 x 18 ins. 15 ins in the ground for cor to secs. 1, 2, 35 and 36 marked with 1 notch on E. and 5 notches on W. edges. And raised a mound of stone 1 1/2 ft. high 2 ft base alongside.

Pits impracticable.

Land mountainous & rolling.

Soil stony 3rd and 4th rate.

No timber, cedar and pinon brush.

Mountainous land or dense brush 63 chains.

N. 89° 58' E. on a true line bet. secs. 1 and 36.

N. Bdy. of T. 22 N. R. 1 E= Contd.

Chains.	
	Var. 14° 47' E.
	Over rolling land.
40.00	Set a malpais stone, 14+10 x 8 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 1 1/2 ft. high 2 ft. base alongside, from which
	A cedar 8 ins. in diam. brs. S. 21° 30 W. 195 lks. dist. marked 1/4 S. B. T.
	A pine 30 ins. in diam brs. S. 51° 17' W. 140 lks. dist. marked 1/4 S. B. T.
46.00	W. branch of Cataract creek (dry) 10 ft. deep course N.
	Ascend 60 ft.
50.00	Top of ascent.
80.00	The cor. to Tps. 22 & 23 N. Rs 1 & 2 E.

Latitudes, Departures and closing errors.

Lines designated	True bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
W. bdy.	North	479.90	479.90			
N. bdy.	N. 89°58' E.	478.52	.25		478.52	
E. bdy	South	480.		480.00		
S. bdy	S. 89°48' W.	478.80		1.67		478.80
Convergency					.52	
	Totals		480.15	481.67	479.04	478.80
				480.15	478.80	
	Error in latitude			1.52	Error in dep. 0.24	

N. Bdy of T. 22 N. R. 1 E. Cont'd.

Chains Land rolling.

Soil stony 3rd rate.

No timber, some scattering brush.

General Description
This township is rough
and broken covered
with dense brush
and contains little
or no water.
There are no settlers.

Charles E Perkins
Compassman and
U.S. Deputy Surveyor

Field Notes
of the survey of the
North Boundary
of
Tp. No 23 North Range 1 E.
of the
Gila & Salt River Meridian
in the
Territory of Arizona
as surveyed by
Francis W Cury
U.S Deputy Surveyor
Charles E Perkins
Compassman & U.S. Dep. Surv.
Under contract No 31.
Dated June 21 1893.

Surveyed commenced May 6. 1894
Surveyed completed May 6 1894.

N. Bdy. of T. 23 N. R. 1 E.

Chains

Survey commenced May 6th 1894, with a W. & L. E. Gurley solar transit.

At the cor to Tps. 23 and 24 N. Rs 1 and 2 E. I take a solar observation and find my instrument in perfect adjustment and the

Variation 14° 51' E

From the cor to Tps. 23 and 24 N. Rs 1 & 2 E. which is a post firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General. I run West on a random line between said Tps. the variation of my compass being 14° 51' E.

N. Bdy. of T. 23 N. R. 1 E. - Contd.

Chains. I set temporary half mile and mile cors at each 40 and 80 chains and find the T p. line to be 5 miles and 78.40 chains long and the falling to be 45 lks N. of cor. to Tps. 23 and 24 N. Rs 1 E. and 1 W. The correction for the true line will therefore be 7 1/2 lks. south per mile and its course will be N. 89° 57' E.

From the cor. to Tps. 23 and 24 N. Rs 1 E. and 1 W. which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General

N. Bdy. of T. 23 N. R. 1 E. - Contd.

Chains Irun

N. 89° 57' E. on a true line bet. secs. 6 and 31

Var. 14 51 E.

Over rolling land through dense cedar and pinon brush.

38.43 - Set a post 3 ft. long 3 ins. square 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dug pits 18 x 18 x 12 ins E. and W. of post 5 1/2 ft. dist. and raised a mound of earth 1 1/2 ft. high 3 1/2 ft. base around post from which.

A cedar 10 ins. diam. brs. S. 70° 11 W. 23 lks. dist. marked 1/4 S. B. T.

A cedar 8 ins. diam. brs. N.

N. Bdy. of T. 23 N. R. 1 E= Contd.

Chains

67° 28 E. 85 lks. dist. marked 1/4 S. B. T.

78.43 Set a limestone 20 x 16 x 10 ins. 15 ins. in the ground for cor. to secs. 5, 6, 31 and 32, marked with 5 notches on E. and 1 notch on W. edges and raised a mound of stone 1 1/2 ft. high 2 ft. base alongside from which

A cedar 12 ins. diam brs. N. 61° 19' E. 32 lks. dist. marked T. 24 N. R. 1 E. S. 32 B. T.

A cedar 12 ins diam. brs. S. 51° 23' E. 42 lks. dist. marked T. 23 N. R. 1 E. S. 5 B. T.

A pinon 6 ins. diam brs. S. 43° 33' W. 81 lks. dist. marked T. 23 N. R. 1 E. S. 6 B. T.

N. Bdy. of T. 23 N. R. 1 E = Contd.

Chains. A cedar 8 ins. diam brs.
N. 63° 22' W. 18 lks. dist. marked
T. 24 N. R. 1 E. S. 31 B.T.
Land gently rolling.
Soil stony 2nd and 3rd rate.
No timber.
Dense cedar and pinon
brush 70.43 chs.

N. 89° 57' E. on a true line
bet. secs. 5 and 32.
Var 14° 51' E.
Over rolling land through
dense brush
21.10 Descend 100 ft.
26.50 Foot of Descent, ravine 4 ft.
deep course E.
Ascend 60 ft.
40.00 Top ascent, ridge, course

N. Bdy of T. 23 N. R. 1 E= Cont'd

Chains N. E. x S. W.

Set a limestone 16+14×12 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 1½ ft high 2 ft base alongside from which

A pinon 6 ins diam brs S. 80° W. 31 lks. dist. marked 1/4 S. B. T.

A pinon 12 ins in diam brs N. 81° 30' W. 16 lks. dist. marked 1/4 S. B. T.

Descend 60 ft.

51.00 Foot of descent, small ravine, course N.

Ascend 200 ft.

71.00 Top ascent

80.00 Set a limestone 20×16×9

N. Bdy of T. 23 N. R. 1 E. - Contd.

Chains ins. 15 ins in the ground for cor to secs. 4, 5, 32 and 33 marked with 4 notches on E. and 2 notches on W. edges, and raised a mound of stone 1½ ft. high 2 ft base alongside, from which

A cedar 6 ins in diam brs. N. 5° 09 E. 32 lks. dist. marked T 24 N. R. 1 E. S. 33 B. T.

A cedar 8 ins diam brs. S. 12° 30' E. 27 lks. dist. marked T. 23 N. R. 1 E. S. 4 B. T.

A pinon 9 ins diam brs. S. 65° 23' W. 39 lks dist. marked T. 23 N. R. 1 E. S. 5 B. T.

N. Bdy. of T. 23 N. R. 1 E. Contd.

Chains. A pinon 8 ins. diam brs.
N. 73° 11' W. 22 lks. dist. marked
T. 24 N. R. 1 E. S. 32 B. T.
Land broken and rolling.
Soil stony 4th rate.
No timber.
Dense pinon and cedar
brush 80 chs.

N. 89° 57' E. on a true line
bet. secs. 4 and 33.
Var 14° 51' E.
Over rolling land, through
dense brush.

12.00 Descend 150 ft.
31.00 Foot of descent
35.40 Ascend 100 ft.
40.00 Top of ascent.
Set a limestone

N. Bdy. of T. 23 N. R. 1 E = Contd.

Chains. 14 + 10 + 8 ins. 9 ins in the ground for 1/4 sec cor marked 1/4 on N. face and raised a mound of stone 1½ ft high 2 ft base along side from which

A cedar 8 ins. diam brs. S. 17° 19' W. 31 lks. dist. marked 1/4 S. B. T.

A cedar 6 ins. diam brs. S. 5° 20 E. 12 lks. dist. marked 1/4 S. B. T.

61.00 Descend, 150 ft. into Cataract creek

62.00 Bed of creek (dry) course N. E.

69.00 Leave creek bottom. Ascend 600 ft.

76.00 Top of ascent. Thence over nearly

N. Bdy of T. 23 N. R. 1 E. - Cont'd.

Chains. level land.

80.00 Set a limestone 16 x 14 x 10 ins. 11 ins. in the ground for cor. to secs. 3, 4, 33 & 34 marked with 3 notches on E. and W. edges, and raised a mound of stone 1 1/2 ft. high 2 ft. base alongside from which

A pinon 9 ins. in diam brs. N. 73° 20' E. 43 lks. dist. marked T. 24 N. R. 1 E. S. 34 B. T.

A pinon 8 ins. in diam brs. S. 65° 31' E. 71 lks. dist. marked T. 23 N. R. 1 E. S. 3 B. T.

A pinon 8 ins diam brs. S. 13° 45' W. 85 lks. dist. marked T. 23 N. R. 1 E. S. 4 B. T.

N. Bdy. of T. 23 N. R. 1 E = Contd.

Chains. A cedar 8 ins. diam brs.
N. 37° 22' W. 55 lks. dist.
marked T. 24 N. R. 1 E. S. 33.
B. T.
Land rolling and
mountainous.
Soil rocky 4th rate.
Timber, some scattering
pine along creek
Mountainous or land
covered with dense brush 80 chs.

N. 89° 57' E. on a true line
bet. secs. 3 & 34
Var. 14° 51' E
Over rolling land
through dense brush
40.00 Set a limestone 14x10x8
ins. 9 ins. in the ground

N. Bdy. of T. 23 N. R. 1 E. - Cont'd

Chains. for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 1 1/2 ft high 2 ft. base alongside, from which,

A pinon 8 ins. in diam brs. S. 65° 19' W. 85 lks. dist. marked 1/4 S. B. T.

A cedar 10 ins in diam brs. S. 71° 13' W. 71 lks. dist. marked 1/4 S. B. T.

80.00 Set a limestone 20x16x12 ins. 14 ins. in the ground for cor to secs. 2, 3, 34 and 35 marked with 2 notches on E. and 4 notches on W. edges and raised

N. Bdy of T. 23 N. R. 1 E - Contd

Chains. a mound of stone 1½ ft high 2 ft. base alongside, from which

A cedar 10 ins diam brs. N. 73° 35' E. 32 lks. dist. marked T. 24 N. R. 1 E. S. 35 B. T.

A pinon 10 ins. diam brs. S. 63° 19' E. 37 lks. dist. marked T. 23 N. R. 1 E. S. 2 B. T.

A pinon 10 ins diam. brs. S. 47° 36' W. 45 lks. dist. marked T. 23 N. R. 1 E. S. 3 B. T.

A pinon 8 ins diam. brs. N. 37° 16' W. 66 lks. dist. marked T 24 N. R. 1 E. S. 34 B. T.

Land gently rolling.

N. Bdy of T. 23 N. R. 1 E. Cont'd.

Chains Soil stony 3rd & 4th rate.
No Timber.
Dense, cedar and
pinon brush 80 chs.

N. 89° 57' E. on a true line
bet. secs. 2 and 35.
Var. 14° 51' E.
Over rolling land, through
dense brush.

4.70 Road from Williams
to Grand Canon, course
N. W. & S. E.

40.00 Set a limestone 16 x 10 x 8
ins. 11 ins. in the Ground
for 1/4 sec. cor. marked 1/4 on
N. face and raised a
mound of stone 1½ ft
high 2 ft. base along-

N. Bdy of T. 23 N. R. 1 E. Contd.

Chains. Side from which
a pinon 8 ins in diam
brs. N. 47° 2½' W. 65 lks. dist.
marked 1/4 S. B. T.
A pinon 10 ins diam
brs. N. 76° 3½' E. 85 lks. dist.
marked 1/4 S. B. T.
80.00 Set a limestone 18x12x10
ins. 12 ins. in the ground
for cor. to secs. 1, 2, 35 and
36 marked with 1 notch on
E. and 5 notches on W.
edges, and raised a
mound of stone 1½ ft.
high 2 ft. base alongside,
from which
A cedar 8 ins diam
brs. N. 47° 10' E. 65 lks dist.
marked T. 24 N. R. 1 E. S.

N. Bdy. of T. 23 N. R. 1 E. - Cont.

Chains. 36 B.T.

A cedar 9 ins. diam brs. S. 67° 22' E. 93 lks. dist. marked T. 23 N. R. 1 E. S. 1 B.T.

A cedar 7 ins in diam brs. S. 47° 30' W. 85 lks. dist. marked T. 23 N. R. 1 E. S. 2 B.T.

A cedar 6 ins in diam brs. N. 63° 19' W. 72 lks. dist. marked T. 24 N. R. 1 E. S. 35 B.T.

Land rolling.

Soil, rocky 3rd & 4th rate.

No timber.

Dense cedar and pinon brush 80 chs.

N. Bdy of T. 23 N. R. 1 E = Cont'd.

Chains. N. 89° 57' E. on a true line bet secs. 1 and 36.

Var 14° 5' E.

Over rolling land, through dense brush

40.00 Set a limestone 13 x 9 x 7 ins 8 ins in the ground for 1/4 sec. Cor. Marked 1/4 on N. face and raised a mound of stone, 1 1/2 ft high 2 ft base alongside. from which

A cedar 11 ins. in diam brs. N. 9° E. 13 lks. dist. marked 1/4 S. B. T.

A junior 12 ins in diam brs. S. 16° 23' W. 71 lks. dist marked 1/4 S. T. B.

N. Bdy T. 73 N. R. 1 E. Contd.

Chains	
63.00	Leave dense cedar and pinon enter scattering brush.
80.00	The cor. to Tps. 23 & 24 N. Rs 1 and 2 E. Land rolling. Soil stony 3rd & 4th rate. No timber Dense brush 63 ch.

May 6, 1894

Latitudes, departures and closing errors.

Lines designated	True bearing	Dist	Latitudes N.	Latitudes S.	Departures E.	Departures W.
W. bdy.	North	480.00	480.00			
N. bdy	N. 89°57' E.	478.43	.42		478.43	
E. bdy	South	480.00		480.00		
S. bdy	S. 89°58' W.	478.52		.28		478.52
Convergency					.52	
			480.42	480.28	478.95	478.52
	Totals		480.28		478.52	
	Error in lat.		.14	Error in dep.	.43	

General Description

This township is rough and broken and contains little or no water. It is covered with dense brush There are no settlers.

Charles E Perkins

Compassman and

U.S. Deputy Surveyor

U. S. Surveyor-General's Office,

TUCSON, A. T., July 13, 1895

The foregoing Field Notes of the Surveys of

North Exterior bdy of Tps 22 & 23 N. R 1 E

Gila and Salt River Meridian

in Arizona *executed by*

F. W. Oury

U. S. Deputy Surveyor, under his contract dated

June 21st 1893.

having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

Levi Ruggles

U. S. Surveyor-General
for the Territory of Arizona.