General Land Office • Original Field Notes

Book Number

680

The images in this file are photographs of the notes of the original surveys of the State of Nebraska on file in the Office of the Nebraska State Surveyor located in Lincoln, Nebraska.

The original surveys in Nebraska began in the mid 1850's and were completed in the mid 1880's. The Nebraska office of the Surveyor General was closed June 30, 1886.

Ex^d to 30 [illegible]

(69)

T.29-32 N.
R.48 W.

T 29-32 N
R 48 W

Index Diagram to Town 29 N R 48 W

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Field Notes of the Survey of the Subdivisional lines of Township No 29 North of the Base line, of Range 48 West of the 6th Principal Meridian in Nebraska, Surveyed by Charles R. Starkweather, under joint Contract No. 44 wherein Nicholas J. Paul and Charles R. Starkweather are joint Contractors with Geo. S. Smith United States Surveyor General for the District of Nebraska and Iowa, bearing date the 30th day of June AD 1879

Survey Commenced Sept 8th 1879

Survey Completed Sept 9th 1879

Township 29 N. R 48 W. 6th P.M.

Begin at the Standard Corner to Sections 35 and 36 Found Corner Standing and cut post 2x2x24 in in East pit and run North between Sections 35 and 36

va 14° 50' E

40.00 Deposited Charred Stake raised mound of earth 2½ ft high from pits 18x24x12 in deep for ¼ Sec Cor

80.00 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18x24x12 in deep for Corner to Sections 25. 26. 35 and 36.

Drove ~~[illegible]~~ Cottonwood post 2x2x24 in 1 ft deep in SE pit

South 40 chains undulating first rate Column Gritty rolling Second rate

Township 29 N. R. 48 W. 6th P.M.

East on a random line between Sections 25 and 36

va 13° 05' E

4000 Set temporary ¼ Sec Cor

7978 Intersected the East boundary of the Township 48 links South of the Corner to Sections 25 and 36, which is a mound with pits in good condition from which Corner

Run

South 89° 39' West on a true line between Sections 25 and 36

va 15° 05' E

3989 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18x24x12 in deep for ¼ Sec Cor

7978 The Corner to Sections 25. 26. 35 and 36

Gritty rolling Surface clay and Sandy Soil Second rate

Township 29 N. R 48 W. 6 P.M.

North between Sections 25 and 26
va 15° 15' E
300 Leave Table and enter River bottom
brs E and W
4000 Deposited Charred Stake
raised mound of earth 2½
feet high from pits 18 x 24
x 12 in deep for ¼ Sec Cor
4060 Niobrara River runs S.E.
4260 North bank of River Course S.E.
7875 Wagon Road brs East & west
8000 Deposited Charred Stake
raised mound of earth 2½ ft
high from pits 18 x 24 x 12 in
deep for Corner to Sections 23.24
25 and 26. Drove Cottonwood
post 2x2x24 in 1 ft deep in
S.E. pit

River valley, dark Sandy loam
Secondrate
Balance Clay and Sandy Soil
Secondrate

Township 29 N. R 48 W. 6th P.M.

East on a random line
between Sections 24 and 25
va 15° 35' E
4000 Set temporary ¼ Sec Cor
7988 Intersected the The East
boundary of the Township 6 links
South of the Corner to Sections
24 and 25 which is a mound of earth pits in good condition from which Corner is
Drum
South 89° 57' West on a true line
between Sections 24 and 25
va 15° 35' E
3994 Deposited Charred Stake
raised mound of earth 2½ feet
high from pits 18 x 24 x 12 in
deep for ¼ Sec Cor
7988 The Corner to Sections 23.24
25 and 26

Undulating dark Sandy Soil
Secondrate land

Township 29 N. R 48 W. 6th P.M.

North between Sections 23 and 24
Va 15° 15' E

300 Leave river Valley and enter upland Vrs. E and W.

4000 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec Cor

8000 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 13. 14. 23 and 24 Drove Cotton wood post 2 x 2 x 24 in 1 ft deep in S.E. pit.

Gently rolling Clay and Sandy Soil
Second rate

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 13 and 24
Va 15° 38' E

1330 Ravine Course South

4000 Set temporary ¼ Sec Cor

7970 Intersected the East boundary of the Township 12 links North of the Corner to Sections 13 and 24 which is a mound with pits in good condition from which Corner Drum

North 89° 55' West on a true line between Sections 13 and 24
Va 15° 35' E

3985 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec Cor

7970 The Corner to Sections 13. 14 23 and 24

Rolling Clay and Sandy land
Second rate

Township 29 N. R 48 W. 6th P.M.

North between Sections 13 and 14
va 15° 20' E

1.50 Ravine Course East

4000 Deported Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8000 Deported Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 11, 12, 13 and 14

Drove Cottonwood post 2 x 2 x 24 in, 1 foot deep in S E pit

Rolling Clay ~~[illegible]~~ Sandy land Secondrate

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 12 and 13
va 15° 40' E

4000 Set temporary 1/4 Sec. Cor.

7980 Intersected the East boundary of the Township 20 links North of the Corner to Sections 12 and 13 which is a mound with pits in good condition from which Corner.

Drum

North 89° 51' West on a true line between Sections 12 and 13
va 15° 40' E

3990 Deported Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

7980 The Corner to Sections 11, 12, 13 and 14

Gently rolling Surface Clay and Sandy Soil
Secondrate

Township 29 N. R 48 W. 6th P.M.

North between Sections 11 and 12
va 15° 20' E

4000 Deported Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec Cor Here leave upland and Enter valley bns E and W

4200 Small Drain Course No

8000 Deported charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 1. 2. 11 and 12
Drove Cottonwood post 2 x 2 x 24 in 1 feet deep in S.E. pit

South 40 chains Gently rotting North 40 chs undulating Secondrate

Township 29 N. R. 48 W. 6th P.M.

East on a random line between Sections 1 and 12
va 15° 40' E

3500 Pebble Creek water in holes Co. S.E.

4000 Set temporary ¼ Sec Cor

7986 Intersected the East boundary of the Township 42 links North of the Corner to Sections 1 and 12 which is a mound with pits in good condition from which Corner drew North 89° 42' West on a true line between Sections 1 and 12
va 15° 40' E

3993 Deported Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec Cor

7986 The Corner to Sections 1. 2. 11 and 12

Undulating Clay Land Sandy land Secondrate Soil

Township 29 N. R 48 W. 6 P.M.

North on a random line between Sections 1 and 2
va 15° 20' E

3800 Pebble Creek water in holes Course S.E.

4000 Set temporary 1/4 Sec Cor.

7948 Intersected the North boundary of the Township 20 links East of the Corner to Sections 1 and 2 which is a mound with pits in good condition from which Corner I run South 9' East on a true line between Sections 1 and 2
va 15° 20' E

3948 Deposited Charred stake raised mound of earth 2½ feet high from pits 18x24x18 in deep for 1/4 Sec Cor

7948 The Corner to Sections 1, 2, 11 and 12

Undulating Clay and Sandy soil Secondrate land

Sept 3th 1879

Township 29 N. R 48 W. 6th P.M.

~~From the Corner to Secs 34 & 35 on South boundary of Township which is a mound with pits in good condition~~

North between Sections 34 and 35
va 15° 10' E

4000 Deposited Charred stake raised mound of earth 2½ feet high from pits 18x24x12 in deep for 1/4 Sec Cor

8000 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18x24x12 in deep for Corner to Sections 26, 27, 34 and 35
Drove Pine post 2x2x24 in 1 ft deep in S.E. pit

Gently rolling, Clay and Sandy Soil Secondrate

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 26 and 35
va 15° 30' E

4000 Set temporary 1/4 Sec Cor

8034 Intersected the N. and S. line 12 links South of the Corner to Sections 25. 26. 35 and 36 from which Corner I run South 89° 55' West on a true line between Sections 26 and 35
va 15° 30' E

4017 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8034 The Corner to Sections 26. 27. 34 and 35

Gently rolling Clay Land

Township 29 N R 48 W. 6th P.M.

North between Sections 26 and 27
va 15 10' E

2700 Leave Table for River bottom bns E & W

4000 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

5715 Niobrara river runs S.E.

5885 North bank of River Course SE

7750 Cottonwood Creek, water in holes Course S.E.

8000 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 22. 23. 26 and 27
Drove Cottonwood post 2 x 2 x 2 in 1 ft deep in SE pit

Sand South of the River Clay and Sandy Soil Second rate
North Sandy Third rate land
Small Cottonwood trees along bank of Creek

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 23 and 26
va 15° 30' E

1300 Wagon Trail brs N W and S E

4000 Set temporary 1/4 Sec Cor,

8024 Intersected the N and South line 30 links North of the Corner to Sections 23. 24. 25 and 26 from which Corner drew North 89° 47' West on a true line between Sections 23 and 26
va 15° 30' E

4012 Deposited Charred Stake raised Mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in. deep for 1/4 Sec Cor

8024 The Corner to Sections 22. 23 26 and 27

West 30 chains Thirdrate land balance Clay and Sandy Soil
Secondrate

Ex^d to 30 pos

Township 29 N. R 48 W. 6th P.M.

North between Sections 22 and 23
va 15° 10' E

150 Wagon Trail brs East and West

1500 Leave Valley and enter Rolling prairie brs East and West

4000 Deposited charred Stake, raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8000 Deposited Charred Stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for Corner to Sections 14. 15. 22 and 23

Drove Marked Pine post 2 x 2 x 24 in 1 ft deep in S.E. pit

South 13 chains Clay and Sandy Soil
Secondrate

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 14 and 23 Va 15° 30' E

1 4000 Set temporary 1/4 Sec Cor

4 8040 Intersected the N and S. line 12 links North of the Corner to Sections 13.14.23 and 24 from which Corner I run North 89° 0' West on a true line between Sections 14 and 23 Va 15 30' E

4020 Deposited Charred Stake raised Mound of Earth 2½ feet high from pits 18 x 24 x 12 in dep for 1/4 Sec Cor

4

8040 The Corner to Sections 14.15. 22 and 23

8

Quite rolling Clay and Sandy soil Second rate

Township 29 N. R 48 W. 6th P.M.

North between Sections 14 and 15 Va 15° 15' E

~~4500 Entered river bottom bro E & W.~~

4000 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in dep for 1/4 Sec Cor

~~4530 Niobrara River runs East~~

~~4700 North bank of River bro E & W~~

~~5750 Major trail bro E & W~~

~~7000 Leave Valley for high rolling table bro East and West~~

8000 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in dep for Corner to Sections 10.11.14 and 15. Drove marked ~~cottonwood~~ Pine post 2 x 2 x 24 in 1 ft dep in N.E. pit

Rolling Clay land Second rate

~~Bottom Valley sandy soil Second rate~~

~~South 18 chains Third rate~~

Township 29 N. R 48 W. 6 P.M.

		East on a random line between Sections 11 and 14
		Va 15° 35' E
1	4000	Set temporary 1/4 Sec Cor
4	8040	Intersected the N. and South
8		line 20 links South of the Corner to Sections 11, 12, 13 and 14 from which Corner I run
		South 89° 51' West on a true line between Sections 11 and 14
		Va 15° 35' E
	4020	Deposited charred Stake raised
4		mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
	8040	The corner to Sections 10, 11, 14 and 15
8		
		Rolling clay land and Sandy soil Secondrate

Ex^d to 30 per

Township 29 N R 48 W. 6th P.M.

	North between Sections 10 and 11
	Va 15° 05' E
4000	Deposited charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
8000	Deposited charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 2, 3, 10 and 11
	Drove Marked Pine Post 2 x 2 x 24 in 1 ft deep in S.E. pit
	Rolling Clay land Sandy Soil Secondrate land

Township 29 North Range 48 W. 6th P.M.

East on a random line between Sections 2 and 11

Va 15 35' E

4000 Set temporary 1/4 Sec Cor

8030 Intersected the N and S. line 26 links South of the Corner to Sections 1. 2. 11 and 12 from which Corner I run

South 89° 49' West on a true line between Sections 2 and 11

Va 15° 35' E

4015 Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8030 The Corner to Sections 2. 3. 10 and 11

Gently rolling clay and sandy soil Good Secondrate

Township 29 North Range 48 W. 6th P.M.

North on a random line between Sections 2 and 3

Va 15° 15' E

4000 Set temporary 1/4 Sec Cor

7966 Intersected the North boundary of the Township 14 links East of which is a mound with pits in good condition the Corner to Sections 2 and 3 from which Corner I run

South 6' East on a true line between Sections 2 and 3

Va 15° 15' E

3966 Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

7966 The Corner to Sections 2. 3. 10 and 11

Rolling clay land Secondrate

Township 29 North R 48 W 6 P.M.

From the Corner to Secs. 33 & 34 on South
boundary of Township, which is a mound with
Pits in ~~North~~ Condition I run
Pits in North between Sections 33 and 34
Va 15° 10' E

2540	Drain Course N.E.
4000	Deposited Charred Stake raised mound of earth 2½ feet high from pits 18×24×12 in deep for 1/4 Sec Cor
5200	Same Drain Co N.W.
6460	Same drain Course N.E.
8000	Deposited Charred Stake raised mound of earth 2½ feet high from pits 18×24×12 in deep for corner to Sections 27.28.33 and 34
	Drove Marked willow post 2×2×24 in 1 ft deep in S.E pit

Rolling Sandy Soil
Thirdrate land

Sept 4 1879

Township 29. N.R 48 W 6th P.M.

East on a random line between Sections 27 and 34
Va 15° 30' E

1300	Drain Course North
4000	Set temporary 1/4 Sec Cor
7988	Intersected the Hand South line 14 links North of the Corner to sections 26.27.34 and 35 from which Corner I run
	North 89°54' West on a true line between Sections 27 and 34
	Va 15° 30' E
3994	Deposited Charred Stake raised mound of earth 2½ feet high from pits 18×24×12 in deep for 1/4 Sec Cor
7988	The Corner to Sections 27.28.33 and 34

West 20 chains Sandy Soil
Thirdrate
Balance Clay and Sandy Soil
Secondrate

Township 29 N. R 48 W 6th P.M.

North between Sections 27 and 28
va 15° 15' E

1800 Enter River bottom bro E & W

4000 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec. Cor.

4530 Niobrara River runs East

4700 Leave river ~~bro~~ " East

5950 Wagon trail bro E and W.

7000 Leave valley and enter high rolling prairie bro E, and W.

8000 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 21. 22 27 and 28. Drove marked Cottonwood post 2 x 2 x 24 in 1 ft deep in S.E. Pit

River bottom Sandy Soil
Secondrate land
S. 18 chs Thirdrate land

Township 29 N. R. 48 W. 6th P.M.

East on a random line between Sections 22 and 27
va 15° 35' E

4000 Set temporary 1/4 Sec Cor

7000 wagon trail [illegible]

7670 Cottonwood Creek, water in holes, Course South

8020 Intersected the North and South line 28 links [illegible] Corner to Sections 22. 23. 26 and 27 from which Corner Drum

North 89° 48' West on a true line between Sections 22 and 27
va 15° 35' East

4010 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8020 the Corner to Sections 21. and 22 27 and 28

west 40 chains Clay and Sandy soil Secondrate Soil

Township 29 N. R 48 W. 6th P.M.

North between Sections 21 and 22
va 15° 15' E

4000 Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec cor

8000 Deposited charred stake raised mound 2½ feet high from pits 18 x 24 x 12 in deep for corner to Sections 15, 16, 21 and 22. Drove marked willow post 2 x 2 x 24 in 1 ft deep in S.E. pit

High rolling table Sandy Thin rate land

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 15 and 22
va 15° 35' E

800 Leave rolling prairie for creek bottom N.W.

2200 Cottonwood Creek 10 lks wide Co. S.E.

2860 Leave Valley for Gently rolling table no S.E. & N.W.

4000 Set temporary ¼ Sec Cor

8034 Intersected the N. and S. line 10 links North of the Corner to Sections 14, 15, 22 and 23 from which corner I run

+ See

North 89° 56' West on a true line between Sections 15 and 22
va 15° 35' E

4017 Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec cor

~~803~~

8034 The Corner to Sections 15, 16, 21 and 22

Creek bottom Sandy Second rate Balance, clay and sandy soil Second rate

Township 29 North R 48 W. 6th P.M.

North between Sections 15 and 16
ra 15° 10'6

900 Enter Creek bottom trs 88 and N.W.

1180 Creek 20 lks wide runs S.E.

3900 Leave valley and enter gently rolling
Table lds N.W. and S.E.

4000 Deposited charred stake raised
mound of earth 2½ feet high
from pits 18 x 24 x 12 in deep for
1/4 Sec Cor

8000 Deposited charred stake
raised mound of earth 2½
feet high from pits 18 x 24 x 12
in deep for Corner to Sections
9, 10, 15 and 16

Drove marked Pine post
2 x 2 x 24 in 1 ft deep ~~for~~ in S.E.
pit

valley dark soil first rate
Balance clay and sandy soil
Second rate

Township 29 N. R 48 W. 6th P.M.

East on a random line
between sections 10 and 15
ra 16° 35' E

4000 Set temporary 1/4 Sec. Cor.

8006 Intersected the N. and S. line
14 links South of the Corner to
Sections 14, 11, 14 ra 15, from
which Corner I run
South 89° 54' West on a true line
between sections 10 and 15
ra 16° 35' E

4003 Deposited charred stake
raised mound of earth 2½ feet
high from pits 18 x 24 x 12 in
deep for 1/4 Sec Cor

8006 The Corner to Sections 9, 10, 15 and 16

Surface rolling Clay soil
Second rate land

Township 29 N. R. 8 W. 6th P.M.

North between Sections 9 and 10
Va 15° 05' E

4000 Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 14 in dep for 1/4 Sec Cor

8000 Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in dep for Corner to Sections 3. 4. 9 and 10.

Drove marked pine post 2 x 2 x 24 in ~~dept~~ dep in S.E.

Rolling, Second rate land

Township 29 N. R. 8 W. 6 P.M.

East on a random line between Sections 3 and 10,
Va 15° 35' E

4000 Set temperary 1/4 Sec Cor

7996 Intersected the North ~~boundary of the~~ ~~said~~ South line 10 links South of the Corner to Sections 2. 3. 10 and 11 from which Corner I run
South 88° 56' West on a true line between Sections 3 and 10
Va 15° 35' E

3998 Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in dep for 1/4 Sec. Cor.

7996 ~~The~~ Corner to Sections 3. 4. 9 and 10

Rolling Clay land
Second rate

Township 29 N. R 48 W. 6th P.M.

North ~~[illegible]~~ random line between Sections 3 and 4
va 15° 05' E

4000 Set temporary 1/4 Sec Cor

7970 Intersected the North boundary of the Township 22 links East of the Corner to Sections 3 and 4 which is a mound with pits in good condition from which Corner I run South 9 East on a true line between Sections 3 and 4
va 15° 05' E

3970 Deposited Charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

7970 The Corner to Sections 3. 4 9 and 10

Rolling Clay and Sandy land
Secondrate

Township 29 N. R 48 West 6th P.M.

~~From the Corner to Secs. 32 & 33 on South boundary of Township which is a mound with pits, in good condition~~

North between Sections 32 and 33
va 15° 10' E

4000 Deposited Charred Stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

6430 Enter River valley, Leave table beam East and West

7360 Niobrara River 70 links wide runs East

8000 Deposited Charred Stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for Corner to Sections 28. 29. 32 and 33

Drove Marked Cottonwood post 2 x 2 x 24 in 1 ft deep in S.E. pit

Clay and Sandy Soil
Secondrate land

Township 29 N. R 48 W. 6th P.M.

	East on a random line between Sections 28 and 33
	Va 15° 35' E
2445	Enter Arrabrara River runs N.E.
2530	Leave River Course NE
3130	Leave River Valley and enter upland brs N.E. and S.W.
4000	Set temporary 1/4 Sec Cor
8024	Intersected the N and S. line 24 links South of the Corner to Sections 27. 28. 33 and 34 from which Corner Drawn
	South 89°50' West on a true line between Sections 28 and 33
	Va 15° 35' E
4012	Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 1/2 in deep for 1/4 Sec Cor
8024	The Corner to Sections 28. 29. 32 and 33
	Clay and Sandy Soil
	Secondrate

Township 29 N. R 48 W. 6th P.M.

	North between Sections 28 and 29
	Va 15° 10' E
3490	wagon trail brs E. & W.
4000	Deposited charred stake, raised mound of earth 2 1/2 feet high from pits 18 x 24 x 1/2 in deep for 1/4 Sec Cor
4500	Leave valley and enter rolling table brs E and W.
8000	Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 1/2 in deep for Corner to Sections 20. 21. 28 and 29. Deposited marked Pine post 2 x 2 x 24 in 1 ft deep in S.E. pit
	River valley Secondrate balance Thirdrate
	Sept 5th 1879

Township 29 N. R 48 W. 6 P.M.

East on a random line between Sections 21 and 28
Va 15° 35' E

4000 Set temporary 1/4 Sec Cor

8012 Intersected the North and South line 22 links South of the corner to Sections 21. 22. 27 and 28 from which Corner I run

South 89° 51' West on a true line between Sections 21 and 28
Va 15° 35' E

4006 Deposited Charred Stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8012 The Corner to Sections 20. 21 28 and 29

West 40 chains high rolling Thirdrate land

East 40 chains gently rolling Sandy soil Secondrate

Ex° to 30 Rod

Township 29 N. R 48 W. 6th P.M.

North between Sections 20 and 21
Va 15° 10' E

4000 Deposited Charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8000 Deposited Charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for Corner to Sections 16, 17. 20 and 21 Drove marked Pine post 2 x 2 x 24 in ~~deep~~ deep in S.E. pit

High rolling Sandy Soil Thirdrate Land

Township 29 N. R 48 W. 6th P.M.

	East on a random line between Sections 16 and 21 va 15° 35' E
4000	Set temporary 1/4 Sec Cor
7982	Intersected the N. and S. line 34 links South of the Corner to Sections 15. 16. 21 and 22 from which Corner Drum
	South 89° 45' West on a true line between Sections 16 and 21 va 15° 35' E
3991	Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
7982	The Corner to Sections 16. 17 20 and 21
	West 60 chains high rolling prairie Thirdrate
	East 20 chains Dutty rolling firstrate

Ex^d to 30 Pond

Township 29. N. R 48 W. 6 P.M.

	North between Sections 16 and 17 va 15° 15' E
3800	Leave table and Enter Creek valley brs E and W
4000	Deposited Charred Stake raised Mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor.
5350	Creek, water in holes Course S.E
5450	Leave valley and enter upland brs E, S, W.
8000	Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 8. 9. 16 and 17. Drove marked Cottonwood post 2 x 2 x 2 x in 1 ft deep in S.E. pit.
	Land along Creek Thirdrate Upland Secondrate

Township 29 N. R 4 W. 6th P M

	East on a random line between Sections 9 and 16 Va 15° 40' E
4000	Set temporary 1/4 Sec Cor
7000	Small Drain Course South
7994	Intersected the N and S. line 18 links South of the Corner to Sections 9. 10. 15 and 16 from which Corner Drum
	South 89° 52' West on a true line between Sections 9 and 16 Va 15° 40' E
3997	Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
7994	The Corner to Sections 8. 9. 16 and 17
	Surface Gritty rolling Clay and Sandy Soil Second rate

Ex° to 30 rod

Township 29 N. R 4 W. 6 P M.

	North between Sections 8 and 9 Va 15° 00' E
4000	Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor.
7525	Wagon Trail Trs N E and S W
8000	Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to Sections 4. 5 8 and 9. Brow marked Willow post 2 x 2 x 2 in 1 ft deep in S E pit
	Gritty rolling Surface Clay and Sandy Soil Second rate

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 4 and 9

Va 15° 30' E

310 Wagon Trail brs NE and SW
3800 Drain Course South
4000 Set temporary 1/4 Sec Cor
4900 Ravine Course South
7800 Drain Course South
8020 Intersected the North and South line 28 links North of the Corner to Sections 3.4.9 and 10 from which Corner Drum

North 89° 48' West on a true line between Sections 4 and 9

Va 15° 30' E

4010 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 1½ in deep for 1/4 Sec Cor
8020 The Corner to Sections 4.5.8 and 9

Gusty rolling clay and sandy Soil Second rate

Township 29 N. R 48 W. 6th P.M.

North on a random line between Sections 4 and 5

Va 15° 05' E

4000 Set temporary 1/4 Sec Cor
4750 Deep Ravine Course West
7940 Intersected the North boundary of the Township 20 links west of the Corner to Sections 4 and 5 which is a mound with pits in grove Cedar from which Corner Drum

South 9' West on a true line between Sections 4 and 5

Va 15° 05' E

3940 Deposited Charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 1½ in deep for 1/4 Sec Cor
7940 The Corner to Sections 4.5.8 and 9

Rolling clay Soil Second rate land

Township 29 N. R48 W. 6th P.M.

From the Cor. to Secs 31 & 34 on South boundary of Township which is a mound with pits in good Andrews

	North between Sections 31 and 32
	va 15° 10' E
4000	Deposited Charred stake raised mound of earth 2½ feet high from pits 18x24x12 in deep for ¼ Sec Cor
4100	Niobrara River valley Course N.E. & W
6200	Niobrara River Course N.E. 2.60 chains wide
8000	Deposited Charred stake raised mound of earth 2½ feet high from pits 18x24x12 in deep for Corner to Sections 29. 30. 31 and 32 Drove marked Willow Root 2x2x24 in 1 ft deep for in S.E. pit
	Clay and Sandy Soil
	" " Secondrate land

Township 29 N. R48 W. 6th P.M.

	East on a random line between Sections 29 and 32
	va 15° 35' E
600	Drain Course S.
4000	Set temporary ¼ Sec Cor
7964	Intersected the N and S line 34 links South of the Corner to Sections 28 & 29. 32 and 33 from which Corner I run
	South 89° 45' West on a true line between Sections 29 and 32
	va 15° 35' E
3982	Deposited Charred stake raised mound of earth 2½ feet high from pits 18x24x12 in deep for ¼ Sec Cor
7964	The Corner to Sections 29. 30 31 and 32
	valley land Clay and Sandy Soil
	Secondrate ~~balance~~

Township 29 N. R 4 8 W 6th P.M

West on a random line between Sections 30 and 31
Va 15 35' E

1060 Wagon Trail Course N E & S W
4000 Set temporary 1/4 Sec Cor
8034 Intersected the 6th Guide Meridian 18 links North of the Corner to Sections 30 and 31 which is a mound with pits in good condition from which Corner
True
North 89° 52' East on a true line between Sections 30 and 31
Va 15° 35' E

4034 Deposited Charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
8034 The Corner to Sections 29 30 31 and 32

East 60 Chains river valley
Firstrate land balance
Secondrate

Township 29 N. R 4 8 W 6th P.M

North between Sections 29 and 30
Va 15° 15' E

1100 Wagon Trail bns N.E. and S.W.
1325 Wagon Trail bns N.E. and W
2000 Leave valley and enter high rolling clay table land bns. E & W.
2600 Ravine Course S.E.
4000 Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
6800 Wagon Trail bns S.E. & N.W.
8000 Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for Corner to Sections 19. 20. 29 and 30
Drove marked willow post 2 x 2 x 24 in 1 ft deep in S.E. pit
South 26 chains dark sandy soil Secondrate balance 3th rate

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 20 and 29
Va 15° 35' E

4000 Set temporary 1/4 Sec Cor

7982 Intersected the N and S line 22 links South of the Corner to Sections 20, 21, 28 and 29 from which Corner I run South 89° 57' West on a true line between Sections 20 and 29
Va 15° 35' E

3991 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

7982 The Corner to Sections 19, 20, 29 and 30

Rolling prairie Thin soil

Sept 6th 1874

Township 29 N. R 48 W 6th P.M.

West on a random line between Sections 19 and 30
Va 15° 35' E

3500 Wagon trail bears S.E. and N.W.

3650 Ravine Course S.E.

4000 Set temporary 1/4 Sec Cor

8012 Intersected the 6th Guide Meridian 6 links North of the Corner to Sections 19 and 30, from which Corner I run
which is a mound with pits in good condition

North 89° 57' East on a true line between Sections 19 and 30
Va 15° 35' E

4012 Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor

8012 The Corner to Sections 19, 20, 29 and 30

High rolling prairie
Thin soil

Township 29 N. R 4 8 x 4 r. 6 P. M.

	North between Sections 19 and 20
	va 15° 10' E
900	Wagon trail Vrs N E and S W.
4000	Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec Cor
8000	Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for Corner to sections 17, 18, 19 and 20
	Drove marked willow post 2 x 2 x 24 in 1 ft deep in S. E. pit
	High rolling Clay and Sandy soil Thirdrate

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Township 29 N. R 4 8 W 6th P. M.

	East on a random line between Sections 17 and 20
	va 15° 35' E
1625	Wagon trail Vrs N E and N W
2640	Ravine Course North
3970	~~Same~~ Ravine Course North
4000	Set temporary ¼ Sec Cor
7970	Intersected the N. and S. line 10 links North of the Corner of the Corner to Sections 16, 17, 20 and 21 from which Corner I run
	North 89° 56' West on a true line between Sections 17 and 20
	va 15° 35' E
3985	Deposited Charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for ¼ Sec Cor
7970	The Corner to Sections 17, 18, 19 and 20
	Rolling, broken Clay hills Thirdrate

Township 29 N. R 48 W. 6th P.M.

	West on a random line between Sections 18 and 19 va 15° 35' E
500	Ravine Course N
2200	Ravine Course N.
4000	Set temporary 1/4 Sec Cor
5450	Drain Course North
7950	Intersected the 6th Guide Meridian 10 links North of the corner to which is a mound with pits in good and stone Sections 18 and 19 from which Corner I run
	North 89° 56' East on a true line between Sections 18 and 19 va 15° 35' E
3950	Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
7950	The corner to Sections 17. 18. 19 and 20

Rolling broken prairie Thirdrate

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Township 29. N. R 48 W. 6th P.M.

	North between Sections 17 and 18 va 15° 10' E
4000	Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
5750	Leave table and enter valley Vs E and W
5800	Creek water in holes. Course NE
7800	Leave valley and enter uplands Vs E and W
8000	Deposited charred stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for corner to Sections 7. 8. 17 and 18
	Drove willow post 2 x 2 x 24 in 1 ft deep in S.E. pit

Valley land Secondrate balance Thirdrate

Township 29 N. R 48 W. 6th P.M.

East on a random line between Sections 8 and 17
va 15° 35' E

3400 Drain Course S.E.
4000 Set temporary 1/4 Sec Cor
5000 Dry Creek Course S.E.
6154 wagon trail bus NE and SW
7990 Intersected the N and S. line 24 links North of the Corner to Sections 8.9.16 and 17 from which Corner I run
North 89° 50' West on a true line between Sections 8 and 17
va 15° 35' E

3995 Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
7990 The Corner to Sections 7.8.17 and 18

Gently rolling Clay and Sand soil Secondrate land

Ex^d to 30 per

Township 29. N. R 48 W. 6th P.M.

West on a random line between Sections 7 and 18
va 15° 35' E

4000 Set temporary 1/4 Sec Cor
5400 Drain Course South
7934 Intersected the 6th guide Meridian 20 links North of the Corner to Sections 7 and 18 which is a mound with pits in good condition from which Corner I run
North 89° 51' East on a true line between Sections 7 and 18
va 15° 35' E

~~3934~~
3934 Deposited charred stake raised mound of earth 2 1/2 feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
7934 The Corner to Sections 7.8.17 and 18

Gently rolling Clay soil Secondrate

Township 29 N. R 48 W 6th P.M.

North between Sections 7 and 8
va 15° 10' E

3600 Small drain cross S.E.

4000 ~~Deposited charred stake~~ Set temporary 1/4 Sec Cor
raised mound of earth 2½ feet
high from pits 18 x 24 x 12 in
deep for 1/4 Sec Cor

8000 Deposited charred stake
raised mound of earth 2½
feet ~~high~~ from pits 18 x 24 x 12
in deep for corner to Sections
5. 6. 7 and 8

Drove marked willow
post 2 x 2 x 24 in deep deep in
S.E. pit

Clay Soil Good land
Second rate

Township 29 North R 48 W 6th P.M.

East on a random line
between Sections 5 and 8
va 15° 35' E

3240 Drain or Dry Creek Course S.

4000 Set temporary 1/4 Sec Cor

7974 Intersected the N. and S. line 14
links South of the Corner to Sections
4. 5. 8 and 9 from which Corner
South 89° 54' West on a true line
between Sections 5 and 8
va 15 35' E

3987 Deposited charred stake raised
mound of earth 2½ feet high from
pits 18 x 24 x 12 in deep for 1/4 Sec Cor

7974 The Corner to Sections 5. 6. 7 and 8

Gently rolling Clay land
Second rate

Township 29 N. R 48 W. 6th P.M.

West on a random line between Sections 6 and 7
va 15° 35' E

3440 Small Drain Course S.E.
4000 Set temporary 1/4 Sec Cor
7990 Intersected the 6th Guide Meridian 32 links South of the Corner to Sections 5 and 7 from which Corner I run
which is a mound with pits in good condition
South 89° 46' East on a true line between Sections 6 and 7
va 15 35' E
3990 Deposited charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
7990 The corner to Sections 5. 6. 7 and 8

Gently rolling clay land
Secondrate

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Township 29 N. R 48 West 6th P.M.

North on a random line between Sections 5 and 6
va 15° 10' E

4000 Set temporary 1/4 Sec Cor
5960 Ravine Course S.E.
6400 Ravine (Same) Course S.W.
6900 Same Ravine Course S.E.
7968 Intersected the North boundary of the Township 16 links West of the Corner to Sections 5 and 6
which is a mound with pits in good condition
from which Corner I run
South 7' West on a true line between Sections 5 and 6
va 15° 10' E
3968 Deposited charred Stake raised mound of earth 2½ feet high from pits 18 x 24 x 12 in deep for 1/4 Sec Cor
7968 The Corner to Sections 5. 6 7 and 8
South 40 chains.
Gently rolling Clay Secondrate
N. 40 chs in line Thirdrate
Sept 7th 1879

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General Description

This Township is watered by the Niobrara River and Cottonwood Creek, a small stream in the North East part of the Township. Excepting some cottonwoods along the Creek there is no timber

The land along the river is Clay and Sand, and is good farming land. Between the River and the Creek there is a high broken divide of Clay land, good for Grazing North of the Creek the land is gently rolling Clay and sandy soil and good for farming purpose

Note. Corners on Exterior lines found in good Condition ~~and agreeing with descriptions furnished by the Surveyor General's office~~

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List of Names

A list of the names of the individuals employed to assist in running, measuring, or Marking the lines and corners described in the field Notes of Township No 29 North of the Base Line of Range No 48 West of the 6th Principal Meridian, Showing the respective Capacities in which they acted

David Davis	Chainman
Horace G. Seeley	Chainman
R. R. Crow	Cornerman
Edwin Turner	Cornerman
Jacob Smith	Flagman

We hereby certify that we assisted Charles R Starkweather Deputy Surveyor in surveying and subdividing Township number Seventy nine North of the Base line of Range number Forty Eight West of the 6th Principal Meridian in the State of Nebraska and that said Township has been in all respects to the best of our knowledge and belief, well and faithfully surveyed and the Boundary monuments planted according to the Instructions furnished by the Surveyor General of dimensions, character, construction and marking and in the manner as specifically

Ex^d to 30 pages

described in the foregoing field notes

David Davis Chainman
Horace G. Seeley Chainman
R. R. Crow Cornerman
Edwin Turner Cornerman
Jacob Smith Flagman

Signed in my presence and sworn to before me this 30th day of Sept 1879

A. J. Kendall
Clerk Dist Ch

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I Charles R Starkweather
Deputy Surveyor do solemnly
swear that in pursuance of a
joint Contract wherein Nicholas
J. Paul and Charles R Stark-
weather are joint Contractors
with Smith United
States Surveyor General for
the district of Nebraska and
Iowa, bearing date the 30
day of June A.D, 1879. I have
well faithfully and truly in
my own proper person and in
strict Conformity with the
instructions furnished by
the Surveyor General, the Surveying
manual and the laws of the United
States, Surveyed all those parts
or portions of Township No 29
North of the Base line of Range
No 48 West of the 6th Principal
Meridian in Nebraska, that
are represented in the foregoing
field Notes as having been sur-

veyed under my directions and I do further Solemnly Swear that all the Corners of said Surveys have been established and perpetuated in Strict Conformity with the Surveying Manual, printed instructions and Special Instructions of the Surveyor General of dimensions, Character and construction and Marking and in the manner as specifically described in the foregoing field notes and that the foregoing are the true and original field notes of such Survey

Charles R. Starkweather

Signed in my presence and sworn to before me this 24 day of Nov 1879
A G Kendall
Clerk D.C.

Ex^d to 30 pages

Surveyor General's Office

Plattsmouth Neb. Dec. 18. 1879

The foregoing field notes of the survey and subdivision of Township No. 29 North of the Base Line of Range No. 48 West of the 6th P. M. in Nebraska Executed by Charles R. Starkweather Deputy Surveyor under Joint Contract No. 111 dated June 30th 1879. in the month of Sept. 1879, having been critically examined the necessary corrections and explanations made, the said field notes and the surveys they describe are hereby approved

Geo S. Smith
Surveyor General

Ex^d to 30 pages

D. F. Hickey Deputy Surveyor.

T. 30 **North R.** 48 **West.**

6th Principal Meridian.

FIELD NOTES

OF

THE SUBDIVISION LINES OF

Township 30 North Range 48 West

6th Principal Meridian.

BY

D. F. Hickey Deputy Surveyor.

Under his Contract of Nov. 10th 1881.

Survey Commenced

Survey Completed

Platted,
Copied for Washington,
Copied for Register,

Edward Denny & Co., Stationers & Printers, S. F. Cal.

Township..... Range.....

.....6th Principal Meridian.

6	60	5	44	4	33	3	22	2	11	1
59		58		43		32		21		10
7	57	8	42	9	31	10	20	11	9	12
56		55		41		30		19		8
18	54	17	40	16	29	15	18	14	7	13
53		52		39		28		17		6
19	51	20	38	21	27	22	16	23	5	24
50		49		37		26		15		4
30	48	29	36	28	25	27	14	26	3	25
47		46		35		24		13		2
31	45	32	34	33	23	34	12	35	1	36

Edward Denny & Co., Stationers & Printers, S. F., Cal.

Copyright Secured,

Entered according to Act of Congress, in the Clerk's Office of the Librarian of Congress at Washington, D. C., in the year 1880.

Township..... North..... Range..... West

.....6th Principal Meridian.

Township ..... North ..... Range ..... West

..... 6th Principal Meridian

Township ..... North ..... Range ..... West

..... 6th Principal Meridian.

Survey made with Burt's Patent Improved Solar Compass, nearly new, and in first rate order. Made by W. & L. E. Gurley *of* Troy N. Y. *in* 1879

Township 30 North Range 48 West

(See previous page.) 6th Principal Meridian

Chains	From the corner to Sections 35, 36, 1 and 2 on the South boundary; I run North, between Sections 35 and 36. Variation 15° 05' East.
	Over level land
40.00	Set a sand stone 8 x 8 x 8 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
71.42	Cross Wash, 250 lks. wide, Course S.W.
80.00	Set a sand stone 12 x 8 x 3 ins. 8 ins. in the ground for Cor. to Secs. 26, 25, 35 & 36 marked with 1 notch on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land level.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 25 and 36. Variation 15° 40' East.
	Cross low Sag and ascend.
17.00	Top of Hill bears North and South and descend.
40.00	Set temporary ¼ Sec. Cor.
43.71	Cross Gulch, 250 lks. wide, Course S and ascend.
51.50	Top of Spur, bears North & South and descend.
73.42	Center Ravine course South
80.13	Intersect E. B. of Tp. 20 lks. North of cor. to secs. 25, 30, 31 & 36 from which corner, I run
	N. 89° 51' W on a true line, between sections 25 & 36. Variation 15° 40' East.
40.07	Set a sand stone 12 x 12 x 3 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on North face and raised a mound of stone.
	Pits impracticable.
80.13	The corner to sections 25, 26, 35 & 36.
	Land 73.42 lks mountainous. and 6.71 chs. level
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 25 and 26. Variation 15° 40' East.
	Over level land
3.82	Cross Wash, 20 lks. wide, Course E. 10° S.
34.72	Cross Wash, 10 lks. wide, Course S. W. and ascend.
40.00	Set a sand stone 12 x 8 x 3 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
65.00	Top of Hill bears East & West and descend.
80.00	Set a sand stone 12 x 10 x 7 ins. 8 ins. in the ground for Cor. to Secs. 23, 24, 25 & 26 marked with 2 notches on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 24 and 25. Variation 14° 50' East.
	Enter Flat bears
27.60	Leave Flat bears North & South and ascend.
40.00	Set temporary ¼ Sec. Cor.
44.75	Enter Ravine bears S. 10 E.
53.75	Leave Ravine bears S. 5 E.
80.09	Intersect E. B. of Tp. 6 lks. ~~North~~ of cor. to secs. 19, 24, 25 & 30 from which corner, I run
	S. 89° 57' W. on a true line, between sections 24 & 25. Variation ~~15°~~ 14° 50' East.
40.06	Set a sand stone 14 x 10 x 7 ins., 9 ins. in the grouud, for ¼ Sec. Cor., marked ¼ on North face and raised a mound of stone.
	Pits impracticable.
80.09	The corner to sections 23, 24, 25 & 26.
	Land level. and rolling.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian

Chains	North, between Sections 23 and 24. Variation 15° 40' East.
	Over level land
40.00	Set a sand stone 18 x 12 x 10 ins., 13 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
41.00	Leave Flat bears East & West and ascend.
43.00	Running Water Creek & Spotted Tail. Wagon Road bears N. 83 E. & S. 83° W.
80.00	Set a sand stone 12 x 8 x 8 ins. 8 ins. in the ground for Cor. to Secs. 13, 14, 23 & 24 marked with 3 notches on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 13 and 24. Variation 14° 56' East.
	Descend.
17.23	Cross Gulch, 300 lks. wide, Course S. E. and ascend.
29.60	Top of Spur, bears ~~North & South~~ and descend.
40.00	Set temporary ¼ Sec. Cor.
42.07	Cross Gulch, 150 lks. wide, Course S. 10 W and ascend.
57.00	Top of Hill bears North & South and descend.
63.00	Cross Road, bears, North & South.
80.26	Intersect E. B. of Tp. 11 lks. South of cor. to secs. 13, 18, 19 & 24 from which corner, I run S. 89° 55' W on a true line, between sections 13 & 24
	Variation ~~15°~~ 14° 55' East.
40.13	Set a sand stone 18 x 6 x 6 ins., 13 ins. in the ground, for ¼ Sec. Cor., marked ¼ on North face and raised a mound of stone.
	Pits impracticable.
80.26	The corner to sections 13, 14, 23 & 24
	Land mountainous.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 13 and 14. Variation 15° 45' East.
	Descend.
15.73	Cross Gulch, 250 lks. wide, Course S. E. and ascend.
36.25	Top of Spur, bears N. 30 E. & S. 30 W. and descend.
40.00	Set a sand stone 12 x 8 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
44.90	Cross Gulch, 50 lks. wide, Course S.W. and ascend.
58.00	Top of Spur, bears N. W. & S. E. and descend.
80.00	Set a sand stone 12 x 6 x 6 ins. 8 ins. in the ground for Cor. to Secs. 11, 12, 13 & 14 marked with 4 notches on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 12 and 13. Variation 15° 05' East.
	Descend.
6.63	Cross Gulch, 125 lks. wide, Course S. E. and ascend.
21.50	Top of Spur, bears N. W. & S. E. and descend.
37.62	Cross Gulch, 250 lks. wide, Course S. E. and ascend.
40.00	Set temporary ¼ Sec. Cor.
52.00	Top of Hill bears N. W. & S. E. and descend.
79.90	Intersect E. B. of Tp. 8 lks. North of cor. to secs. 7, 12, 13 & 18 from which corner, I run N. 89° 57' W. on a true line, between sections 12 & 13
	Variation 16° 05' East.
39.95	Set a sand stone 12 x 12 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.90	The corner to sections 11, 12, 13 & 14.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 11 and 12. Variation 15°25' East.
	Descend.
6.50	Cross Gulch, 125 lks. wide, Course S.E. and ascend.
19.00	Top of Spur, bears N.W. & S.E. and descend.
33.25	Cross Gulch, 200 lks. wide, Course S.E. and ascend.
40.00	Set a sand stone 11 x 9 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
60.00	Top of Hill bears East and West and descend.
80.00	Set a sand stone 14 x 10 x 10 ins. 9 ins. in the ground for Cor. to Secs. 1, 2, 11 & 12 marked with 5 notches on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 1 and 12. Variation 15° 00' East.
	Over level land
40.00	Set temporary ¼ Sec. Cor.
79.74	Intersect E. B. of Tp. 19 lks South of cor. to secs. 1, 6, 7 & 12 from which corner, I run S.89° 52' W. on a true line, between sections 1 & 12
	Variation 15° 00' East.
39.87	Set a sand stone 8 x 8 x 3 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.74	The corner to sections 1, 2, 11 & 12
	Land level.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, on a random line between Sections 1 and 2. Variation 16° 10' East.
	Over level land
40.00	Set temporary ¼ Sec. Cor.
79.68	Intersect N. B. of Tp. 25 lks. West of cor. to secs. 1, 2, 35 & 36 from which corner, I run S. 11 W. on a true line, between sections 1 & 2
	Variation 16° 10' East.
39.68	Set a sand stone 12 x 8 x 6 ins.. 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on West face and raised a mound of stone.
	Pits impracticable.
79.68	The corner to sections 1, 2, 11 & 12,
	Land level.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.
	Oct. 20th 1882
	D. F. Hickey

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 34 and 35. Variation 16° 15' East.
	Descend.
40.00	Set a sand stone 8 x 8 x 6 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
43.00	Cross Gulch, 20 lks. wide, Course S. E. and ascend.
80.00	Set a sand stone 18 x 12 x 4 ins. 13 ins. in the ground for Cor. to Secs. 26, 27, 34 & 35 marked with 1 notch on S. and 2 notch es on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 26 and 35.
	Variation 15° 40' East.
	Ascend.
10.00	Top of Spur, bears North & South and descend.
37.75	Cross Wash, 25 lks. wide, Course S. 20 E. and ascend.
40.00	Set temporary ¼ Sec. Cor.
76.00	Running W. Buck & Spotted Tail Wagon Road
79.89	Intersect N. & S. line, 12 lks. South of cor. to secs. 25, 26, 35 & 36 from which corner, I run
	S. 89° ~~44~~ 55' W. on a true line between sections 26 & 35
	Variation 15° ~~25'~~ 40' East
39.95	Set a sand stone 8 x 8 x 6 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
49.89	The corner to sections 26, 27, 34 & 35
	Land ~~Mountainous~~ Rolling
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 26 and 27.
	Variation 15° 25' East.
	Along W. est slope of spur.
20.00	Top of Spur, bears N. W. & S. E. and descend.
46.00	Set a sand stone 8 x 8 x 6 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
51.85	Cross Gulch, 25 lks. wide, Course S. E. and ascend.
80.00	Set a sand stone 14 x 12 x 6 ins. 9 ins. in the ground for Cor. to Secs. 22, 23, 26 & 27 marked with 2 notches on S. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land ~~Mountainous~~ Rolling
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 23 and 26. Variation 15° 40' East.
	Ascend.
1.50	Top of Hill bears N. W. and S. E. and descend.
40.00	Set temporary ¼ Sec. Cor.
69.71	Running Water Creek & S. T. Wagon road, bears N. & S.
79.68	Intersect N. & S. line, 13 lks. North of cor. to secs. 23, 24, 25 & 26 from which corner, I run N. 89° 54' W. on a true line between sections 23 & 26 Variation 15° 48' East
39.84	Set a sand stone 10 x 10 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.68	The corner to sections 22, 23, 26 & 27
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 22 and 23. Variation 15° 25' East.
	Ascend.
1.75	Top of Hill bears N. W. and S. E. and descend.
22.61	Cottonwood Creek & Spotted Tail Wagon Road. bears S. 60° W. & N. 60° E.
40.00	Set a sand stone 13 x 9 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a sand stone 15 x 18 x 11 ins. 10 ins. in the ground for Cor. to Secs. 14, 15, 22 & 23 marked with 3 notches on S. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land ~~mountainous~~ Rolling
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 14 and 23. Variation 15° 45' East.
	Descend.
4.00	Cross Wash, 10 lks. wide, Course N. and ascend.
12.00	Top of Spur, bears N.W. & S.E. and descend.
40.00	Set temporary ¼ Sec. Cor.
79.92	Intersect N. & S. line, 26 lks. North of cor. to secs. ~~13 14 23 & 24~~ ~~14 15 22 23~~ from which corner, I run N.89°49' W. on a true line between sections 14 & 23 Variation 15° 45' East
39.96	Set a line stone 20 x 8 x 8 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.92	The corner to sections 14, 15, 22 & 23.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 14 and 15. Variation 15° 35' East.
	Ascend.
5.00	Top of Spur, bears N.W. and S.E. and descend.
18.51	Cross Wash, 20 lks. wide, Course S.53 E. and ascend.
37.00	Top of Spur, bears N.W. and S.E. and descend.
40.00	Set a line stone 20 x 18 x 14 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
57.40	Cross Wash, 50 lks. wide, Course S.50 E. and ascend.
71.00	Top of Spur, bears N.W. and S.E. and descend.
76.00	Cross Wash, 50 lks. wide, Course S.E., and ascend.
80.00	Set a line stone 20 x 8 x 6 ins. 15 ins. in the ground for Cor. to Secs. 10, 11, 14 & 15 marked with 4 notches on S. and 2 notches on E. edges. dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 11 and 14. Variation 16° 25' East.
	Ascend. gradually
3.00	Top of Spur, bears N. W. and S. E. and descend.
18.00	Cross Wash, 50 lks. wide, Course S. 30 E and ascend.
24.00	Top of Spur, bears N. W. and S. E. and descend.
40.00	Set temporary ¼ Sec. Cor.
79.98	Intersect N. & S. line, 10 lks. North of cor. to secs. 11, 12, 13 & 14 from which corner, I run N. 89° 56' W. on a true line between sections 11 & 14 Variation 16° 25' East
39.99	Set a sand stone 10 x 8 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.98	The corner to sections 10, 11, 14 & 15
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 10 and 11. Variation 16° 20' East.
	Ascend.
9.00	Top of Spur, bears N. W. and S. E. and descend.
30.00	Cross Wash, 30 lks. wide, Course S. 30 E. and ascend.
40.00	Set a sand stone 6 x 12 x 16 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face and raised a mound of stone.
	Pits impracticable.
80.00	Set a sand stone 12 x 10 x 8 ins. 6 ins. in the ground for Cor. to Secs. 2, 3, 10 & 11 marked with 5 notches on S. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land ~~mountainous~~ Rolling
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 2 and 11.
	Variation 15° 00' East.
	Ascend. gradually.
40.00	Set temporary ¼ Sec. Cor.
57.10	Cross Gulch, 50 lks. wide, Course S. and ascend.
62.56	Top of Hill bears North & South and descend.
79.54	Intersect N. & S. line, 16 lks. South of cor. to secs. 1, 2, 11 & 12 from which corner, I run S. 89° 53' W. on a true line between sections 2 & 11
	Variation 15° 00' East
39.77	Set a sand stone 8 x 8 x 3 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.54	The corner to sections 2, 3, 10 & 11
	Land rolling.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian

Chains	North, on a random line between Sections 2 and 3.
	Variation 15° 15' East.
	Along on West slope.
23.72	Cross Wash, 1.25 lks. wide, Course S 20 W and ascend.
40.00	Set temporary ¼ Sec. Cor.
53.00	Top of Spur, bears N. W. and S. E. and descend.
80.17	Intersect N. B. of Tp. 9 lks. W. of cor. to secs. 2, 3, 34 & 35 from which corner, I run S. 4' W. on a true line, between sections 2 & 3.
	Variation 15° 15' East.
40.17	Set a sand stone 11 x 9 x 3 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.17	The corner to sections 2, 3, 10 & 11
	Land mountainous.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Oct. 20th 1882

Henry J. Manning
Compassman

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 33 and 34. Variation 15° 15' East.
	Over level land
40.00	Set a sand stone 10 x 10 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
64.00	Cross Wash, 40 lks. wide, Course N. 10° E.
80.00	Set a line stone 20 x 8 x 4 ins. 15 ins. in the ground for Cor. to Secs. 27, 28, 33 & 34 marked with 1 notch on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land level.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 27 and 34 Variation 15° 25' East.
	Over level land
40.00	Set temporary ¼ Sec. Cor.
57.33	Cross Wash, 50 lks. wide, Course S. 80 E.
80.06	Intersect N. & S. line, 26 lks. North of cor. to secs. 26, 27, 34, 35 From which corner, I run N. 89° 49' W. on a true line between sections 27 & 34 Variation 15° ~~14~~ 25' East
40.03	Set a sand stone 11 x 8 x 5 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.06	The corner to sections 27, 28, 33 & 34.
	Land level.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 27 and 28. Variation 15° 10' East.
	Descend. gradually.
20.00	Cross Wash, 800 lks. wide, Course S. 80 E and ascend.
24.00	Cross Road, bears, S. W. and N. E.
40.00	Set a sand stone 12 x 8 x 4 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
41.50	Cross Road, bears, N. E. and S. W.
50.00	Top of Spur, bears N. W. and S. E. and descend.
54.00	Cross Wash, 80 lks. wide, Course S. 29 E and ascend.
63.00	Top of Spur, bears N. W. and S. E. and descend.
71.00	Cross Wash, 25 lks. wide, Course S. 40 E and ascend.
80.00	Set a sand stone 11 x 8 x 6 ins. 8 ins. in the ground for Cor. to Secs. 21, 22, 27 & 28 marked with 2 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian.

Chains	East on a random line between Sections 22 and 27. Variation 15° 25' East.
	Ascend. gradually.
5.00	Top of Spur, bears N. W. and S. E. and descend.
14.00	Cross Wash, 100 lks. wide, Course S 50 E and ascend.
40.00	Set temporary ¼ Sec. Cor.
61.00	Cross Road, bears, N. E. and S. W.
52.00	Cross Wash, 30 lks. wide, Course South.
79.85	Intersect N. & S. line, 9 lks. North of cor. to secs. 22, 23, 26, 27 from which corner, I run N. 89° 56' W. on a true line between sections 22 & 27. Variation 15° 20' East
39.93	Set a sand stone 10 x 8 x 5 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., S. and E. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.85	The corner to sections 21, 22, 27 & 28.
	Land mountainous.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 21 and 22.
	Variation 15° 20' East.
	Descend. gradually
3.00	Cross Wash, 20 lks. wide, Course S. 10 W and ascend.
38.00	Top of Spur, bears N. 20 E & S. 20 W. and descend.
40.00	Set a sand stone 10 x 8 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
59.00	Cross Wash, 40 lks. wide, Course S. E and ascend.
71.00	Top of Spur, bears N. W. and S. E. and descend.
77.25	Cross Wash, 80 lks. wide, Course S. 50 E and ascend.
80.00	Set a lime stone 10 x 8 x 5 ins. 7 ins. in the ground for Cor. to Secs. 15, 16, 21 & 22 marked with 3 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush and Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 15 and 22.
	Variation 16° 35' East.
	Descend. gradually.
5.00	Cross Wash, 40 lks. wide, Course S. 20 E and ascend.
20.00	Top of Spur, bears N. W. and S. E. and descend.
27.75	Cross Wash, 30 lks. wide, Course S. and ascend.
40.00	Set temporary ¼ Sec. Cor.
60.00	Top of Spur, bears N. E and S. W. and descend.
79.67	Intersect N. & S. line, 29 lks. S. of cor. to secs. 14, 15, 22 & 23 from which corner, I run N. 89° 48' W. on a true line between sections 15 & 22
	Variation 15° ~~20~~ 35' East
39.84	Set a lime stone 10 x 8 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on S. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.67	The corner to sections 15, 16, 21 & 22.
	Land mountainous.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 15 and 16.
	Variation 15° 20' East.
	Ascend. gradually.
11.00	Top of Spur, bears N.W. and S.E. and descend.
16.00	Cross Gulch, 20 lks. wide, Course S.33 E and ascend.
40.00	Set a sand stone 13 x 8 x 8 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., E. and N. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
70.00	Top of Spur, bears S.W. and S.E. and descend.
80.00	Set a sand stone 8 x 20 x 6 ins. 5 ins. in the ground for Cor. to Secs. 9, 10, 15 & 16 marked with 4 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 10 and 15.
	Variation 16° 20' East.
	Along North Slope.
17.50	Cross Wash, 15 lks. wide, Course S.80 E. and ascend.
23.00	Top of Spur, bears N.W. and S.E. and descend.
40.00	Set temporary ¼ Sec. Cor.
77.30	Cross Wash, 39 lks. wide, Course S.E. and ascend.
79.80	Intersect N. & S. line, 13 lks. North of cor. to secs. 10 & 11, 14 & 15 from which corner, I run N.89° 54' W. on a true line between sections 10 & 15.
	Variation 15° ~~15~~ 20' East
39.90	Set a sand stone 10 x 8 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.80	The corner to sections 9, 10, 15 & 16
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 9 and 10. Variation 15° 15' East.
	Descend. gradually.
6.75	Cross Wash 45 lks. wide, Course S.50E and ascend.
35.00	Top of Spur, bears N.20W.S.20E. and descend.
40.00	Set a sand stone 10 x 10 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
41.25	Cross Wash, 40 lks. wide, Course S.40E and ascend.
57.00	Top of Spur, bears N.W. & S.E. and descend.
69.00	Cross Wash, 69 lks. wide, Course S.45E and ascend.
80.00	Set a sand stone 12 x 8 x 6 ins. 8 ins. in the ground for Cor. to Secs. 3, 4, 9 & 10 marked with 5 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East on a random line between Sections 3 and 10. Variation 15° 10' East.
	Along South Slope of spur
37.0	Descend.
37.00	Cross Gulch, 80 lks. wide, Course S.20E and ascend.
40.00	Set temporary ¼ Sec. Cor.
43.00	Top of Spur, bears N.W. and S.E. and descend.
57.22	Cross Gulch, 40 lks. wide, Course S.15E and ascend.
80.10	Intersect N. & S. line, 11 lks. North of cor. to secs. 2, 3, 10 & 11 from which corner, I run N.89° 55 W. on a true line between sections 3 & 10
	Variation 15° 10' East
40.05	Set a line stone 12 x 8 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.10	The corner to sections 3, 4, 9 & 10
	Land 43.10 chs. mountainous. and 37.00 Broken
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, on a random line between Sections 3 and 4. Variation 15° 05' East.
	Ascend. gradually.
1.00	Top of Spur, bears N. W. and S. E. and descend.
23.50	Cross Wash, 40 lks. wide, Course S. 35 E. and ascend.
34.00	Top of Ridge, bears N. W. & S. E. and descend.
40.00	Set temporary ¼ Sec. Cor.
42.00	Cross Wash, 60 lks. wide, Course S. 33 E. and ascend.
71.00	Top of Spur, bears N. 65 W. & S. 65' E. and descend.
79.83	Intersect N. B. of Tp. 38 lks. West of cor. to secs. 3, 4, 33 & 34 from which corner, I run S. 16 W. on a true line, between sections 3 & 4. Variation 15° 05' East.
39.83	Set a limestone 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.83	The corner to sections 3, 4, 9 & 10
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct. Oct. 21st 1882
	D. L. Hickey

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 32 and 33. Variation 15° 30' East.
	Descend. gradually.
14.00	Cross Wash, 60 lks. wide, Course S. 70 E. and ascend.
23.00	Top of Spur, bears East & West and descend.
40.00	Set a sand stone 6 x 6 x 10 ins., 4 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
76.06	Enter Valley, bears East & West.
80.00	Set a sand stone 6 x 8 x 12 ins. 4 ins. in the ground for Cor. to Secs. 28, 29, 32, 33 marked with 1 notch on S. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land ~~mountainous~~ Rolling
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 28 and 33. Variation 15° 10' East.
	Over Valley
40.00	Set temporary ¼ Sec. Cor.
51.15	Cross Road, bears, North & South
79.81	Intersect N. & S. line, 32 lks. South of cor. to secs. 27, 28, 33, 34 from which corner, I run S 89° 46' W. on a true line between sections 28 & 33
	Variation 15° ~~20~~ 10 East
39.91	Set a sand stone 4 x 12 x 9 ins., 3 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.81	The corner to sections 28, 29, 32 & 33
	Land level.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 28 and 29. Variation 15° 20' East.
	Over Valley
~~31.20~~	~~Cross Running Valley, to the, wide course E.~~
40.00	Set a sand stone 6 x 8 x 9 ins., 4 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
56.12	Cross Road, bears, East & West.
60.00	Leave Valley, bears East & West and ascend.
65.06	Top of Spur, bears N. W. and S. E. and descend.
80.00	Set a sand stone 7 x 9 x 13 ~~ins.~~ 5 ~~ins.~~ in the ground for Cor. to Secs. 20, 21, 28, 29 ~~marked~~ with 2 notches on S. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land Rolling and level.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 21 and 28. Variation 15° 20' East.
	Descend gradually.
3.50	Cross Wash, 200 lks. wide, Course S and ascend.
14.00	Top of Spur, bears North & South and descend.
32.00	Cross Wash, 40 lks. wide, Course South
40.00	Set temporary ¼ Sec. Cor.
70.00	Cross Wash, 20 lks. wide, Course S. 15° W and ascend.
79.90	Intersect N. & S. line, 17 lks. South of cor. to secs. 21, 22, 27, 28 from which corner, I run S. 89° 53' W. on a true line between sections 21 & 28
	Variation 15° 20' East
39.95	Set a sand stone 4 x 8 x 13 ins., 3 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.90	The corner to sections 20, 21, 28 & 29,
	Land 4490 lks mountainous. and 38.00 lks flat
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 20 and 21. Variation 15° 10' East.
	Descend gradually.
15.15	Cross Wash, 15 lks. wide, Course S. 20 E and ascend.
21.40	Top of Spur, bears East & West and descend.
37.85	Cross Wash, 80 lks. wide, Course S 20 E and ascend.
40.00	Set a sand stone 12 x 8 x 7 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
44.83	Cross Road, bears, N. 70 E & S. 80 W.
80.00	Set a sand stone 6 x 8 x 11 ins. 4 ins. in the ground for Cor. to Secs. 16, 17, 20, 21 marked with 3 notches on S. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 40 West

6th Principal Meridian.

Chains	East, on a random line between Sections 16 and 21. Variation 16° 26' East.
	Descend. gradually.
10.50	Cross Wash, 30 lks. wide, Course S. and ascend.
15.50	Top of Spur, bears N. W. & S. E. and descend.
40.00	Set temporary ¼ Sec. Cor.
50.00	Cross Wash, 30 lks. wide, Course S. 10 E. and ascend.
63.00	Top of Spur, bears North & South and descend.
79.77	Intersect N. & S. line, 4 lks. South of cor. to secs. 15, 16, 21, 22 from which corner, I run S 89° 58' W. on a true line between sections 16 & 21 Variation ~~15° 30'~~ 16° 28' East
39.89	Set a sand stone 4 x 6 x 9 ins., 3 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.77	The corner to sections 16, 17, 20 & 21
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 16 and 17. Variation 15° 10' East.
	Ascend. gradually.
10.50	Top of Spur, bears N. E. and S. W. and descend.
20.00	Cross low Sag and ascend. S. E. & N. W.
34.00	Top of Ridge, bears East & West and descend.
40.00	Set a sand stone 4 x 15 x 13 ins., 3 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
	Descend. gradually.
80.00	Set a sand stone 8 x 10 x 12 ins. 5 ins. in the ground for Cor. to Secs. 8, 9, 16 & 17 marked with 4 notches on S. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land 34.00 lks. mountainous. and 46.00 lks. Rolling
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 9 and 16.
	Variation 16° 00′ East.
	Ascend. gradually
3.00	Top of Ridge, bears North & South and descend.
12.00	Cross low Sag and ascend.
15.00	Top of Spur, bears North & South and descend.
40.00	Set temporary ¼ Sec. Cor.
62.00	Cross low Sag and ascend.
79.93	Intersect N. & S. line, 8 lks. North of cor. to secs. 9, 10, 15 & 16 from which corner, I run N. 89° 57′ W. on a true line between sections 9 & 16
	Variation 16° 00′ East
39.97	Set a Sand stone 4 x 6 x 10 ins., 3 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.93	The corner to sections 8, 9, 16 & 17
	Land mountainous.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 8 and 9.
	Variation 15° 00′ East.
	Ascend. gradually.
18.00	Top of Ridge, bears East & West and descend.
39.00	Enter Hly wash course East.
40.00	Set a Sand stone 14 x 12 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on E. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
42.26	Leave Hly Wash course East
48.00	Top of Spur, bears East & West and descend.
80.00	Set a Sand stone 12 x 8 x 12 ins. 8 ins. in the ground for Cor. to Secs. 4, 5, 8 & 9 marked with 5 notches on S. and 4 notches on E. edges. dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 4 and 9.
	Variation 15' 15' East.
	Descend. gradually.
7.00	Cross Wash, 20 lks. wide, Course S. 20 E. and ascend.
15.00	Top of Spur, bears S. 20 E. & N. 20 W. and descend.
23.00	Cross Wash, 80 lks. wide, Course S. 45 E. and ascend.
40.00	Set temporary ¼ Sec. Cor.
66.00	Top of Spur, bears North & South and descend.
71.13	Cross Wash, 20 lks. wide, Course S. 10 E. and ascend.
79.85	Intersect N. & S. line, 19 lks. North of cor. to secs. 3, 4, 9 & 10 from which corner, I run N. 89° 52' W. on a true line between sections 4 & 9
	Variation 15° 15' East
39.93	Set a sand stone 8 x 14 x 12 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.85	The corner to sections 4, 5, 8 & 9.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, on a random line between Sections 4 and 5.
	Variation 15' 00' East.
	Descend. gradually.
12.20	Cross low Sag and ascend. Course E.
15.00	Top of Spur, bears East & West and descend.
40.00	Set temporary ¼ Sec. Cor.
77.00	Cross low Sag and ascend.
79.53	Intersect N. B. of Tp. 20 lks. West of cor. to secs. 4, 5, 32 & 33 from which corner, I run S. 9 W. on a true line, between sections 4 & 5.
	Variation 15° 00' East.
39.53	Set a sand stone 6 x 8 x 10 ins., 4 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.53	The corner to sections 4, 5, 8 & 9
	Land Rolling
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass.

Oct. 21st. 1882

Henry J. Manning.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 31 and 32. Variation 15°00' East.
	Descend.
8.00	Cross Wash, 30 lks. wide, Course N. E. and ascend.
20.00	Top of Spur, bears N. E. & S. W. and descend.
35.00	Cross Wash, 40 lks. wide, Course S. 35 E. and ascend.
40.00	Set a sand stone 12 x 12 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
43.00	Top of Spur, bears S. E. & N. W. and descend.
52.00	Cross Wash, 20 lks. wide, Course S. 35 E. and ascend.
76.00	Top of Spur, bears East & West. and descend.
80.00	Set a line stone 18 x 16 x 9 ins. 13 ins. in the ground for Cor. to Secs. 29, 30, 31 & 32 marked with 1 notch on S. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 29 and 32. Variation 15° 20' East.
	Descend. gradually.
11.00	Cross Wash, 80 lks. wide, Course S. 40 E. and ascend.
27.00	Top of Spur, bears N. W. and S. E. and descend.
30.00	Cross Wash, 20 lks. wide, Course S. 40 E. and ~~ascend.~~
40.00	Set temporary ¼ Sec. Cor.
59.19	Cross Wash, 20 lks. wide, Course South.
79.74	Intersect N. & S. line, 20 lks. North of cor. to secs. 28, 29, 32, 33 from which corner, I run N. 89° 51' W. on a true line between sections 29 & 32
	Variation 15° 20' East
39.87 ~~40.00~~	Set a sand stone 18 x 8 x 9 ins., 13 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.74	The corner to sections 29, 30, 31 & 32. Land 30.00 lks mountainous. and 49.74 lks level.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Oct. 23rd 1882

D. F. Hickey

Township 30 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 30 and 31. Variation 15° 20' East.
	Ascend. gradually.
4.00	Top of Spur, bears N. 85 W. S 85' E. and descend.
17.00	Cross Wash, 70 lks. wide, Course S. E. and ascend.
28.00	Top of Spur, bears N. 40 W. & S 40 E. and descend.
40.00	Set temporary ¼ Sec. Cor.
42.00	Cross Wash, 10 lks. wide, Course S. E. and ascend.
79.00	Intersect W. B. of Tp. 45 lks. North of cor. to secs. 25, 30, 31 & 36 from which corner, I run N. 89° 40' E. on a true line, between sections 30 & 31 Variation 15° 20' East.
39.00	Set a line stone 16 x 8 x 6 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.00	The corner to sections 29, 30, 31 & 32.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.
	Oct. 23rd. 1882
	Henry J. Manning
	Compassman.

Township 30 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 29 and 30. Variation 15° 15' East.
	Descend.
13.60	Cross Wash, 100 lks. wide, Course S. 65 E. and ascend.
40.00	Set a sand stone 8 x 12 x 15 ins., 5 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
48.00	Top of Spur, bears East & West and descend.
53.00	Cross Wash, 50 lks. wide, Course S. 60 E. and ascend.
64.00	Top of Spur, bears East & West and descend.
74.00	Cross Wash, 20 lks. wide, Course E. and ascend.
80.00	Set a line stone 16 x 6 x 4 ins. 7 ins. in the ground for Cor. to Secs. 19, 20, 29 30 marked with 2 notches on S. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 20 and 29. Variation 15° 16' East.
	Descend.
16.00	Cross Wash, 40 lks. wide, Course S 40 E and ascend.
36.00	Top of Spur, bears North & South and descend.
40.00	Set temporary ¼ Sec. Cor.
56.00	Cross Wash, 60 lks. wide, Course S. 40 E. and ascend.
80.15	Intersect N. & S. line, 6 lks. North of cor. to secs. 20, 21, 28 & 29 from which corner, I run N. 89° 57' W. on a true line between sections 20 & 29
	Variation 15° 16' East
40.08	Set a Iron stone 20 x 16 x 12 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.15	The corner to sections 19, 20, 29 & 30.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Oct. 23rd. 1882.
D. F. Hickey.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 19 and 30. Variation 16° 15' East.
	Ascend. gradually.
20.00	Top of Spur, bears N. W. & S. E. and descend.
39.00	Cross Wash, 80 lks. wide, Course S. 64 E and ascend.
40.00	Set temporary ¼ Sec. Cor.
47.00	Top of Spur, bears N. W. & S. E. and descend.
78.70	Intersect W. B. of Tp. 26 lks. North of cor. to secs. 19, 24, 25 & 30 from which corner, I run S. 89° 49' E on a true line, between sections 19 & 30
	Variation 15° 15' East.
38.70	Set a sand stone 19 x 12 x 8 ins., 14 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
78.70	The corner to sections 19, 20, 29 & 30
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Oct. 23rd. 1882
Hury J. Manning
Compassman.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 19 and 20.
	Variation 15° 15' East.
	Ascend. gradually.
9.00	Top of Spur, bears N. W. & S. E. and descend.
27.35	Cross Wash, 40 lks. wide, Course S. 50 E and ascend.
40.00	Set a Iron stone 10 x 10 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
58.00	Top of Spur, bears S. 50 E. N. 50 W and descend.
61.70	Cross Wash, 45 lks. wide, Course S 55 E and ascend.
76.00	Top of Spur, bears S. E & N. W. and descend.
80.00	Set a Iron stone 20 x 16 x 4 ins. 15 ins. in the ground for Cor. to Secs. 17, 18, 19 & 20 marked with 3 notches on S. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East. on a random line between Sections 17 and 20.
	Variation 15° 10' East.
	Descend. gradually.
21.30	Cross Creek 15 lks wide, Course S. 25 E and ascend.
33.00	Top of Ridge, bears N. W. & S. E. and descend.
40.00	Set temporary ¼ Sec. Cor.
53.27	Cross Wash, 30 lks. wide, Course S. and ascend.
79.92	Intersect N. & S. line, 21 lks. North of cor. to secs. 16, 17, 20 & 21 from which corner, I run N. 89° 51' W. on a true line between sections 17 & 20
	Variation 15° 10' East
39.96	Set a Sand stone 18 x 12 x 2 ins., 13 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.92	The corner to sections 17, 18, 19 & 20
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Oct 22nd. 1882
D. L. Hickey.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 18 and 19.
	Variation 15° 00′ East.
	Ascend. gradually.
3.00	Top of Spur, bears N. W. & S. E. and descend.
18.00	Cross Wash, 20 lks. wide, Course S. 40° E and ascend.
21.00	Top of Spur, bears N. W. & S. E. and descend.
37.00	Cross Gulch, 20 lks. wide, Course S. E. and ascend.
40.00	Set temporary ¼ Sec. Cor.
43.00	Top of Spur, bears N. W. & S. E. and descend.
78.36	Intersect W. B. of Tp. 12 lks. North of cor. to secs. 13, 18, 19 & 24 from which corner, I run S. 89° 55′ E on a true line, between sections 18 & 19
	Variation 15° ~~17~~′ East.
38.36	Set a granite stone 20 x 11 x 8 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. : of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
78.36	The corner to sections 17, 18, 19 & 24.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Oct. 23rd. 1882

Henry H. Manning

Compassman.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 17 and 18.
	Variation 15° 15′ East.
	Descend.
33.20	Cross Creek 15 lks wide Course S. 40° E and ascend.
40.00	Set a limestone 10 x 8 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
61.00	Top of Spur, bears S. E. & N. W. and descend.
66.00	Cross Wash, 40 lks. wide, Course S. 30° W and ascend.
80.00	Set a sandstone 12 x 8 x 9 ins. 8 ins. in the ground for Cor. to Secs. 7, 8, 17 & 18 marked with 4 notches on S. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land Rolling.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 8 and 17.
	Variation 16° 00' East.
	Descend. gradually.
14.00	Cross Wash, 40 lks. wide, Course S. 40° E. and ascend.
28.00	Top of Spur, bears S. E. & N. W. and descend.
40.00	Set temporary ¼ Sec. Cor.
44.00	Cross Wash, 25 lks. wide, Course S. 15° E. and ascend.
80.03	Intersect N. & S. line, 34 lks. North of cor. to secs. 8, 9, 16 & 17 from which corner, I run N. 89° ~~55'~~ 45' W. on a true line between sections 8 & 17.
	Variation 16° 00' East
40.02	Set a sand stone 12 x 12 x 7 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.03	The corner to sections 7, 8, 17 & 18.
	Land mountainous.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Oct. 23rd. 1882
H. L. Hickey.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 7 and 18.
	Variation 16° 55' East.
	Descend.
28.00	Cross Creek 40 lks. wide. Course S. 40 E. and ascend.
40.00	Set temporary ¼ Sec. Cor.
71.00	Top of Spur, bears S. E. & N. W. and descend.
78.08	Intersect W. B. of Tp. 27 lks. North of cor. to secs. 7, 12, 13 & 18 from which corner, I run N. 89° 48' E. on a true line, between sections 7 & 18
	Variation 16° ~~55~~ East.
38.08 ~~39.04~~	Set a sand stone 20 x 8 x 6 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
78.08	The corner to sections 7, 8, 17 & 18
	Land Rolling.
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass.

Oct. 23rd. 1882
Henry J. Manning
Compassman

Township 30 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 7 and 8. Variation 15° 00' East.
	Descend.
16.00	Cross low Sag and ascend. Course S. 40 E.
38.60	Top of Spur, bears S. E. & N. W. and descend.
40.00	Set a sand stone 10 x 8 x 8 ins., 7 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
43.60	Cross Wash, 30 lks. wide, Course S. 40 E and ascend.
51.00	Top of Spur, bears N. W. & S. E. and descend.
65.60	Cross Wash, 80 lks. wide, Course S. E. and ascend.
78.70	Top of Spur, bears N. W. & S. E. and descend.
80.00	Set a sand stone 20 x 8 x 6 ins. 16 ins. in the ground for Cor. to Secs. 5, 6, 7 & 8 marked with 5 notches on S. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 2nd. & 3rd rate
	Vegetation Sagebrush & Bunchgrass
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 30 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 5 and 8. Variation 15° 10' East.
	Descend.
8.00	Cross Wash, 45 lks. wide, Course S. 30 E and ascend.
15.00	Top of Spur, bears S. E. & N. W. and descend.
40.00	Set temporary ¼ Sec. Cor.
79.66	Intersect N. & S. line, 10 lks. North of cor. to secs. 4, 5, 8 & 9 from which corner, I run N. 89° 56' W. on a true line between sections 5 & 8
	Variation 15° 00' East
39.83	Set a sand stone 16 x 10 x 8 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.66	The corner to sections 5, 6, 7 & 8
	Land Broken
	Soil 2nd. & 3rd. rate
	Vegetation Sagebrush & Bunchgrass
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Oct. 23rd. 1882

D. F. Hickey

Township 30 North Range 48 West
6th Principal Meridian.

Chains	West, on a random line between Sections 6 and 7. Variation 14° 50' East.
	Descend.
4.00	Cross Wash, 20 lks. wide, Course S. 30 E and ascend.
27.00	Top of Spur, bears S. E. & N. W. and descend.
40.00	Set temporary ¼ Sec. Cor.
77.83	Intersect N. B. of Tp. 8 lks. North of cor. to secs. 1, 6, 7 & 12 from which corner, I run N. 89° 57' E on a true line, between sections 6 & 7. Variation 14° 50' East.
37.83	Set a sand stone 14 x 6 x 4 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
77.83	The corner to sections 5, 6, 7 & 8. Land Rolling; Soil 2nd. & 3rd rate Vegetation Sagebrush & Bunchgrass.

Township 30 North Range 48 West
6th Principal Meridian.

Chains	North, on a random line between Sections 5 and 6. Variation 14° 50' East.
	Descend. gradually.
10.00	Cross Wash, 45 lks. wide, Course S. 30 E and ascend.
27.00	Top of Spur, bears N. W. & S. E. and descend.
40.00	Set temporary ¼ Sec. Cor.
79.28	Intersect N. B. of Tp. 56 lks. West of cor. to secs. 5, 6, 31 & 32, from which corner, I run S. 24 W. on a true line, between sections 5 & 6. Variation 14° 50' East.
39.28	Set a sand stone 20 x 18 x 8 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.28	The corner to sections 5, 6, 7 & 8 Land Rolling. Soil 2nd. & 3rd rate Vegetation Sagebrush & Bunchgrass. I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct. Oct. 23rd. 1882 Henry J. Manning Compassman.

GENERAL DESCRIPTION.

The land in this Township is generally mountainous and rolling

The Soil is 2nd & 3rd rate

The township is well watered by numerous creeks & streams

The township is covered with an abundant growth of Bunch grass which renders it valuable as a grazing region

U. S. Surveyor General's Office.

Plattsmouth Neb. 1883

The foregoing Field Notes of the surveys of

the subdivisional lines of Township No 30 North of Range No 48 West of the Principal Base and

Meridian

in the State of Neb. *executed by*

D F Hickey

U. S. Deputy Surveyor, under his contract No 4 *dated*

Nov 11 1881 in the Year Oct 1882

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

L V Stephenson

U. S. Surveyor-General for

D. F. Hickey Deputy Surveyor.

T. 31 **North R.** 48 **West.**

6th Principal Meridian.

FIELD NOTES

OF

THE SUBDIVISION LINES OF

Township 31 North Range 48 West

6th Principal Meridian.

BY

D. F. Hickey Deputy Surveyor.

Under his Contract of November 10 1881

Survey Commenced Oct. 24th 1882

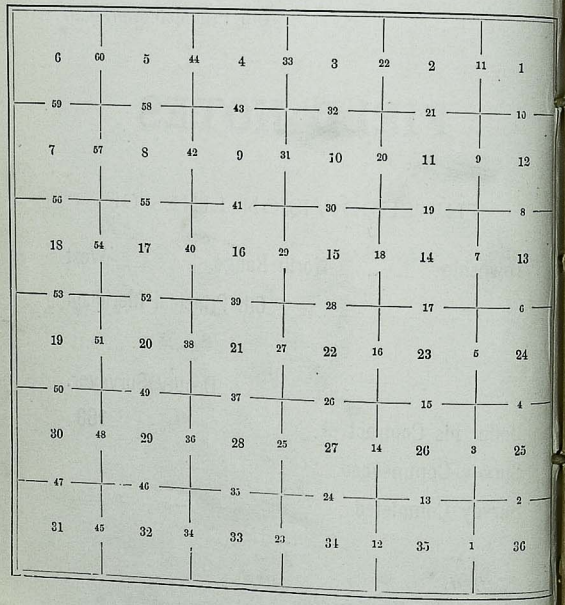
Survey Completed Oct. 26th 1882.

Platted,
Copied for Washington,
Copied for Register,

Edward Denny & Co., Stationers & Printers, S. F. Cal.

Township.....Range.....

.....6th Principal Meridian.



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Township.....North.....Range.....West

.....6th Principal Meridian.

Township ..... North ..... Range ..... West

..... 6th Principal Meridian.

Township ..... North ..... Range ..... West

..... 6th Principal Meridian.

Survey made with Burt's Patent Improved Solar Compass, nearly new, and in first rate order. Made by W. & L. E. Gurley of Troy N. Y. in 1879

Before proceeding to subdivide this Tp., I made a change of 5 minutes in the latitude arc of my solar compass by same the reading previously given, and at noon verified and corrected same by observation on the sun. I also further tested instrument by reversing.

Township 31 North Range 48 West
(See previous page.)
6th Principal Meridian.

Chains	From the corner to Sections 35, 36, 1 and 2 on the South boundary; I run North, between Sections 35 and 36. Variation 15° 20' East.
	Over level land
40.00	Set a Sand stone 12 x 8 x 3 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
63.00	Top of Hill bears N.W. & S.E. and descend.
69.00	Cross Gulch, 150 lks. wide, Course S. E. and ascend.
75.50	Top of Hill bears N.W. & S.E. and descend.
80.00	Set a Sand stone 17 x 12 x 6 ins. 11 ins. in the ground for Cor. to Secs. 25-26-35 & 36 marked with 1 notch on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 25 and 36. Variation 15° 20' East.
	Over level land
40.00	Set temporary ¼ Sec. Cor. & S.
45.00	Top of Hill bears and descend.
64.60	Cross Gulch, 25 lks. wide, Course S. and ascend.
67.00	Top of Spur, bears N. & S. and descend.
74.00	Cross Wash, 20 lks. wide, Course S10 E and ascend.
80.11	Intersect E B. of Tp. 10 lks. N of cor. to secs. 25-36-30 & 31 from which corner, I run N 89° 56' W on a true line, between sections 25 & 36 Variation 15° 15' East.
40.46	Set a Sand stone 12 x 6 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.11	The corner to sections 25-26-35 & 36
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 25 and 26. Variation 15° 20' East.
	Over level land
40.00	Set a Sand stone 10 x 8 x 6 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a Sand stone 18 x 16 x 10 ins. 12 ins. in the ground for Cor. to Secs. 23-24-25-26 marked with 2 notch 25 on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land level.
	Soil 3rd. rate
	Vegetation Bunchgrass

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random linebetween Sections 24 and 25. Variation 15° 20' East.
37.00	Over flat & ascend hill trans N. & S.
40.00	Set temporary ¼ Sec. Cor.
49.	Top of Hill bears N. & S. and descend.
56.14	Cross Wash, 85 lks. wide, Course S60 E and ascend.
79.92	Intersect E. B. of Tp. 27 lks. N of cor. to secs. 24-25-19-30 from which corner, I run N89° 48 W on a true line, between sections 24 & 25
	Variation 15° 20.' East.
39.96	Set a Sand stone 14 x 10 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., S and N. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.92	The corner to sections 23-24-25 & 26
	Land Rolling.
	Soil 3rd. rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 23 and 24. Variation 15° 20' East.
30.00	Top of Hill bears E. & W. and descend.
40.00	Set a Sand stone 12 x 6 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
45.40	Cross Gulch, 20 lks. wide, Course E and ascend.
66.60	Top of Spur, bears N40W & S40E and descend.
80.00	Set a Sand stone 20 x 10 x 10 ins. 15 ins. in the ground for Cor. to Secs. 13-14-23-24 marked with 3 notches on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 13 and 24. Variation 15° 20' East.
	Descend.
21.32	Cross Gulch, 20 lks. wide, Course S. E and ascend.
37.00	Top of Hill bears N.W. & S.E. and descend.
40.00	Set temporary ¼ Sec. Cor.
80.29	Intersect E B. of Tp. 43 lks. N. of cor. to secs. 13-24-19-18 from which corner, I run N89°42'W on a true line, between sections 13 & 24
	Variation 15° 00 East.
40.15	Set a Sand stone 16 x 8 x 8 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.29	The corner to sections 13-14-23 & 24
	Land rolling.
	Soil 3rd. rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 13 and 14. Variation 15° East.
	Descend.
13.10	Cross Gulch, 20 lks. wide, Course S. E and ascend.
40.00	Set a Sand stone 14 x 12 x 10 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
47.50	Top of Spur, bears N.W. & S.E. and descend.
80.00	Set a Sand stone 12 x 12 x 6 ins. 8 ins. in the ground for Cor. to Secs. 11-12-13-14 marked with 4 notch es on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 12 and 13. Variation 15° 20' East.
	Descend.
3.22	Cross Gulch, 20 lks. wide, Course S40 E and ascend.
19.50	Top of Spur, bears N.W. & S.E. and descend.
31.43	Cross Gulch, 250 lks. wide, Course S40 E and ascend.
40.00	Set temporary ¼ Sec. Cor.
44.00	Top of Spur, bears N.W. & S.E. and descend.
79.85	Intersect E B. of Tp. 12 lks. N. of cor. to secs. 7-12-13-18 from which corner, I run N89°, 57W on a true line, between sections 12 & 13
	Variation 15° 15' East.
39.93	Set a Sand stone 10 x 10 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits 18 x 18 x 12 ins., N and S: of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.85	The corner to sections 11-12-13 & 14
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 11 and 12. Variation 15° 20′ East.
	Descend.
3.42	Cross Gulch, 20 lks. wide, Course S. E and ascend.
21.60	Water shed, between Running Water & White River bears N 70° E & S 70° W descend
33.47	Cross Gulch, 20 lks. wide, Course N 10 W and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
43.55	Top of Spur, bears N 10 W & S 10 E and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs, 1-2-11-12 marked T. 31 N S. 1 on N. E. R. 48 W. S. 12 on S. E. S. 11 on S. W. and S. 2 on N. W. face, cs with 5 notch cs on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins, in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	A Yellow Pine 11 ins diam. bears N 20 E 41 lks. dist. from which marked T. 31 N R. 48 W S. 1 B. T.
	A Yellow Pine 9 ins diam. bears S 61 1/4 W 1 lks. dist. marked T. 31 N R. 48 W S. 11 B. T.
	A Yellow Pine 12 ins diam. bears S 69 E 20 lks. dist. marked T. 31 N R. 48 W S. 12 B. T.
	Land rolling.
	Soil 3rd Vegetation. Bunchgrass
	Timber of Pine.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 1 and 12. Variation 15° 20′ East.
	Along Slope, scattering Pine timber
9.62	Cross Gulch, 10 lks. wide, Course N 18 W and ascend.
40.00	Set temporary ¼ Sec. Cor.
56.16	Cross Wash, 40 lks. wide, Course N.
79.91	Intersect E B. of Tp. 14 lks. S of cor. to secs. 1-12-6-7 from which corner, I run S 89° 54′ W on a true line, between sections 1 & 12
	Variation 15° 20′ East.
39.96	Set a Sand stone 10 x 10 x 2 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.91	The corner to sections 1-2-11 & 12
	Land rolling.
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, on a random line between Sections 1 and 2. Variation 15° 20' East.
	Descend.
17.93	Cross Gulch, 50 lks. wide, Course N 50 W and ascend.
31.50	Top of Spur, bears N.W. & S.E., and descend.
40.00	Set temporary ¼ Sec. Cor.
47.62	Cross Gulch, 200 lks. wide, Course N 50 W and ascend.
80.21	Intersect N. B. of Tp. 13 lks. W. of cor. to secs. 1-2-35-36 from which corner, I run S 6' W on a true line, between sections 1 & 2
	Variation 15° 20' East.
40.21	Set a Sand stone 10 x 4 x 2 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.21/2	The corner to sections 1-2-11 & 12
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.
	Oct. 24th 1882
	W. S. Hickey.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 34 and 35. Variation 15° 20' East.
	Along East Slope
37.00	Top of Spur, bears N 10 E & S 10 W and descend.
40.00	Set a Sand stone 11 x 9 x 6 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
43.00	Long hill N 10 E & S 20° W.
80.00	Set a Sand stone 12 x 8 x 6 ins. 8 ins. in the ground for Cor. to Secs. 26-27-34-35 marked with 1 notch on S. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land Rolling
	Soil 3rd rate
	Vegetation Bunchgrass.

Chains	East, on a random line between Sections 26 and 35. Variation 13° 20 East.
	Over level land
40.00	Set temporary ¼ Sec. Cor.
44.00	Leave Flat bears N W and S. E.
53.00	Cross Gulch, 200 lks. wide, Course S E and ascend.
63.00	Top of Hill bears N W & S E and descend.
79.90	Intersect N. & S. line, 26 lks. S of cor. to secs. 26-25-36-35 from which corner, I run S 89° 49' W. on a true line between sections 26 & 35
	Variation 15° 20' East
39.95	Set a Sand stone 11 x 4 x 4 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.90	The corner to sections 26 - 27 - 34 & 35
	Land rolling. level.
	Soil 2nd rate
	Vegetation Bunchgrass.

Chains	North, between Sections 26 and 27. Variation 15° 00 East.
	Ascend.
24.00	Top of Spur, bears N W. & S E and descend.
40.00	Set a Sand stone 10 x 10 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
54.00	Cross Gulch, 60 lks. wide, Course S 40 E and ascend.
80.00	Set a Sand stone 14 x 8 x 4 ins. 18 ins. in the ground for Cor. to Secs. 21-23-26-27 marked with 2 notches on S. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 23 and 26. Variation 15° 20' East.
	Over rolling land.
31.00	Cross Wash, 40 lks. wide, Course S30 E and ascend.
15.00	Top of Spur, bears N20W Y S30 E and descend.
40.00	Set temporary ¼ Sec. Cor.
54.00	Enter Flat bears N. Y S.
79.78	Intersect N. & S. line, 6 lks. N. of cor. to secs. 23-26-24-25 from which corner, I run N89°57' W. on a true line between sections 23 Y 26 Variation 15° 25' East
39.89	Set a Sand stone 20 x 8 x 4 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.78	The corner to sections 22-23-26 Y 27
	Land Rolling and level.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 22 and 23. Variation 15° 20' East.
	Ascend.
15.50	Cross Wash, 30 lks. wide, Course S40 E and ascend.
40.00	Set a Sand stone 12 x 10 x 7 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
75.00	Top of Spur, bears E, Y W, and descend.
80.00	Set a Sand stone 10 x 10 x 6 ins. 6 ins. in the ground for Cor. to Secs. 14-15-22-23 marked with 3 notch es on S. and 2 notch es on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 14 and 23. Variation 15° 15' East.
	Descend.
20.00	Cross Wash, 40 lks. wide, Course S 70 E and ascend.
40.00	Set temporary ¼ Sec. Cor.
41.00	Top of Spur, bears N W, & S. E. and descend.
79.92	Intersect N. & S. line, 16 lks. S, of cor. to secs. 13-14-23-24 from which corner, I run S 89° 44' W. on a true line between sections 14 & 23 Variation 15° 20' East
39.96	Set a Sand stone 20 x 8 x 6 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.92	The corner to sections 14-15-22 & 23.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 14 and 15. Variation 15° 20' East.
37.00	Cross Gulch, 20 lks. wide, Course S E and ascend.
40.00	Set a Sand stone 8 x 6 x 6 ins., 2 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
64.00	Water Shed between Running Water Creek & White River bears N. 85° E & S 85 W.
80.00	Set a Sand stone 12 x 10 x 8 ins. 6 ins. in the ground for Cor. to Secs. 10-11-14-15 marked with 4 notch es on S. and 2 notch es on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 11 and 14. Variation 15° 20' East.
	Ascend.
7.00	Summit between Running Water Creek and White River bears N.80° E. and S.80° W.
9.80	Cross Gulch, 20 lks. wide, Course S. and ascend.
40.00	Set temporary ¼ Sec. Cor.
79.88	Intersect N. & S. line, 8 lks. S of cor. to secs. 12-11-14-15 from which corner, I run S89° 57' W. on a true line between sections 11 & 14
	Variation 15° 20' East
39.94	Set a Sand stone 12 x 10 x 10 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.88	The corner to sections 10-11-14 & 15
	Land rolling.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 10 and 11. Variation 15° 20 East.
	Descend.
9.45	Cross Gulch, 20 lks. wide, Course N10W and ascend.
23.00	Top of Spur, bears N15W & S15E and descend.
40.00	Set a Sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs, 2-3-10-11 marked T. 31 N-S, 2, on N, E, R, 48 W, S. 11 on S, E, S. 10 on S, W, and S. 3 on N, W, face, es with 5 notch es on S, and 2 notch es on E, edges, dug pits 18 x 18 x 12 ins, in each Sec., 5½ ft, dist., and raised a mound of earth 2 ft, high, 4½ ft, base around post.
	A Yellow Pine 8 ins diam. bears N20W 135 lks. dist. from which marked T 31 N R. 48 W S., 3 B. T.
	Land Rolling.
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 2 and 11. Variation 15° 20' East.
	Ascend.
14.25	Top of Spur, bears N. W & S. E. and descend.
40.00	Set temporary ¼ Sec. Cor.
48.43	Cross Gulch, 25 lks. wide, Course N25W and ascend.
64.50	Top of Spur, bears N W & S. E. and descend.
79.81	Intersect N. & S. line, 12 lks. N. of cor. to secs. 1-2-11-12 from which corner, I run N89° 55' W. on a true line between sections 2 & 11 Variation 15°. 25' East
39.91	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which
	A Yellow Pine 8 ins diam. bears N10½ E 16 lks. dist. marked ¼ S. B. T.
	A Yellow Pine 4 ins diam. bears S63½ W 37 lks. dist. marked ¼ S. B. T.
39.81	The corner to sections 2 - 3 - 10 & 11
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass,

Township 31 North Range 48 West

6th Principal Meridian

Chains	North, on a random line between Sections 2 and 3. Variation 15° 15' East.
	Descend.
3.25	Cross Gulch, 20 lks. wide, Course N. E and ascend.
12.50	Top of Spur, bears N W & S. W. and descend.
19.63	Cross Gulch, 60 lks. wide, Course N30W and ascend.
28.50	Top of Spur, bears N30W & S30 E and descend.
40.00	Set temporary ¼ Sec. Cor.
42.73	Cross Gulch, 35 lks. wide, Course N20W and ascend.
80.01	Intersect N. B. of Tp. 40 lks. W. of cor. to secs. 2-3-34-35 from which corner, I run S17' W on a true line, between sections 2 & 3 Variation 15° 10' East.
40.01	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
80.01	The corner to sections 2 - 3 - 10 & 11
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass,

Oct. 24th. 1882

Henry J. Manning

Compassman

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 33 and 34. Variation 15° 20' East.
	Ascend.
3.25	Cross Wash, 60 lks. wide, Course S 70 E and ascend.
14.00	Top of Spur, bears E, & W, and descend.
39.70	Cross Wash, 50 lks. wide, Course S 38 E and ascend.
40.00	Set a Sand stone 14 x 10 x 10 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
59.00	Top of Spur, bears N.W. & S.E. and descend.
72.25	Cross Wash, 20 lks. wide, Course S 40 E and ascend.
80.00	Set a Sand stone 16 x 10 x 8 ins. 6 ins. in the ground for Cor. to Secs. 27-28-33-34 marked with 1 notch 3 on S. and 28 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 27 and 34. Variation 15° 20' East.
	Along Slope
23.00	Cross Wash, 40 lks. wide, Course S 20 E and ascend.
40.00	Set temporary ¼ Sec. Cor.
46.00	Top of Spur, bears N. & S. and descend.
51.00	enter flat bears N & S
79.84	Intersect N. & S. line, 13 lks. N. of cor. to secs. 26-27-34-35 from which corner, I run N 89° 54' W. on a true line between sections 27 & 34
	Variation 15° 16' East
39.92	Set a Sand stone 13 x 11 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., S and N. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.84	The corner to sections 27-28-33 & 34.
	Land 27.00 chs. mountainous. 2nd — 28.84 chs. flat.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 27 and 28. Variation 15° 20' East.
	Ascend.
6.00	Top of Spur, bears N.W. & S.E., and descend.
40.00	Set a Sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
58.25	Cross Wash, 40 lks. wide, Course S48E and ascend.
64.00	Top of Spur, bears N.W., & S.E., and descend.
74.30	Cross Wash, 60 lks. wide, Course E and ascend.
80.00	Set a Sun stone 14 x 10 x 8 ins. 9 ins. in the ground for Cor. to Secs. 21-22-27-28 marked with 2 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East on a random line between Sections 22 and 27. Variation 15° 00. East.
	Over Prairie
8.00	Top of Spur, bears N.20W. & S20E and descend.
29.00	Cross Wash, 50 lks. wide, Course S40E and ascend.
40.00	Set temporary ¼ Sec. Cor.
41.00	Top of Spur, bears N.W. & S.E., and descend.
48.60	Cross Wash, 20 lks. wide, Course S73E and ascend.
57.00	Top of Spur, bears N.W. & S.E., and descend.
68.50	Cross Wash, 40 lks. wide, Course S74E and ascend.
76.00	Top of Spur, bears N.W. & S.E., and descend.
80.09	Intersect N. & S. line, 14 lks. S. of cor. to secs. 22-23-26-27 from which corner, I run S89° 54' W. on a true line between sections 22 & 27 Variation 15° 20' East
40.05	Set a Sand stone 20 x 14 x 8 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.09	The corner to sections 21-22-27 & 28
	Land 72.09 chs. mountainous. and 800 chs. Prairie
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 21 and 22. Variation 15° 00 East.
	Ascend.
14.00	Cross low Sag S. E.
40.00	Set a Sand stone 11 x 8 x 3 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
53.00	Cross Gulch, 50 lks. wide, Course S 30 E and ascend.
80.00	Set a Sand stone 11 x 9 x 8 ins. 6 ins. in the ground for Cor. to Secs. 15-16-21-22 marked with 3 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 2nd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 15 and 22. Variation 15° 20' East.
	Over rolling land.
17.50	Cross Wash, 20 lks. wide, Course S. and ascend.
40.00	Set temporary ¼ Sec. Cor.
58.50	Top of Spur, bears N. & S. and descend.
79.93	Intersect N. & S. line, 26 lks. N. of cor. to secs. 14-15-22-23 from which corner, I run N 89° 49' W. on a true line between sections 15 & 22 Variation 15°, 20' East
39.97	Set a Sand stone 10 x 8 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.93	The corner to sections 15-16-21 & 22
	Land mountainous.
	Soil 2nd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 15 and 16.
	Variation 15° 20' East.
	Ascend.
40.00	Set a Sand stone 11 x 8 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.00	Divide between Running Water Creek & White River bears N 75° E & S 75° W.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs, 9-10-15 & 16 marked T. 31 N S. 10 , on N, E, R. 48 W, S. 15 on S, E, S, 16 on S, W, and S, 9 on N, W, face, 2s with 4 notch 2s on S, and 3 notch 2s on E, edges, dug pits 18 x 18 x 12 ins, in each Sec., 5½ ft, dist., and raised a mound of earth 2 ft, high, 4½ ft, base around post.
	from which
	A Yellow Pine 10 ins diam. bears N 15° E 215 lks. dist. marked T. 31 N R. 48 W S., 10 B. T.
	A Yellow Pine 8 ins diam. bears N 20½ W 200 lks. dist. marked T. 31 N R. 48 W S., 9 B. T.
	Land Rolling.
	Soil 2nd rate
	Timber of Pine
	Vegetation. Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 10 and 15.
	Variation 15° 20' East.
9.00	Divide between Running Water Creek & White River bears N 75° E.
40.00	Set temporary ¼ Sec. Cor.
43.00	Top of Ridge, bears N. & S and descend.
79.84	Intersect N. & S. line, 15 lks. N. of cor. to secs. 10-11-14-15 from which corner, I run N 89° 34' W. on a true line between sections 10 & 15
	Variation 15° 20' East
39.92	Set a Sand stone 13 x 10 x 6 ins. 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.84	The corner to sections 9-10-15 & 16
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 9 and 10. Variation 15° 20 East.
	Descend.
1.50	Enter Pine timber bears E & W.
7.25	Cross Wash, 40 lks. wide, Course N30E and ascend.
11.00	Top of Spur, bears N.W & S.E. and descend.
15.00	Cross Wash, 20 lks. wide, Course N20E and ascend.
35.00	Top of Spur, bears NW & S.E. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
45.00	Cross Wash, 30 lks. wide, Course N30E and ascend.
57.00	Top of Spur, bears E and descend.
74.00	Cross Wash, 30 lks. wide, Course N20E and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs, 3-4-9-10 marked T,31N S, 3, on N, E, R, 48W, S. 10 on S, E, S, 9 on S, W, and S, 4 on N, W, face, 10S with 5 notch 10S on S, and 3 notch 10S on E, edges, dug pits 18 x 18 x 12 ins, in each Sec,, 5½ ft, dist,, and raised a mound of earth 2 ft, high, 4½ ft, base around post.
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East on a random line between Sections 3 and 10. Variation 15° 20' East.
	Descend.
6.30	Cross Wash, 3.40 lks. wide, Course N24E and ascend.
18.00	Top of Spur, bears N.E. & S.W. and descend.
36.00	Cross Wash, 110 lks. wide, Course N15E and ascend.
40.00	Set temporary ¼ Sec. Cor.
61.00	Top of Spur, bears N. & S. and descend.
76.00	Cross Gulch, 20 lks. wide, Course N40E and ascend.
80.05	Intersect N. & S. line, 24 lks. N of cor. to secs. 3-2-10 & 11 from which corner, I run N89°50'W. on a true line between sections 3 & 10 Variation 15° 20 East
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which
	A Yellow Pine 6 ins diam. bears N87E 24 lks. dist. marked ¼ S. B. T.
	A Yellow Pine 4 ins diam. bears S13W 86 lks. dist. marked ¼ S. B. T.
80.05	The corner to sections 3-4-9 & 10
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.

Township 31 North Range 48 West
6th Principal Meridian.

Chains	North, on a random line between Sections 3 and 4. Variation 15° 20 East.
	Ascend.
9.00	Top of Ridge, bears SW & N.E. and descend.
20.00	Cross Wash, 37 lks. wide, Course N33E and ascend.
40.00	Set temporary ¼ Sec. Cor.
42.00	Top of Spur, bears SE & NW and descend.
78.00	Cross Wash, 66 lks. wide, Course N20E and ascend.
79.75	Intersect N. B. of Tp. 28 lks. W. of cor. to secs. 3-4-33-34 from which corner, I run S 12' W on a true line, between sections 3 & 4 Variation 15° 10' East.
39.75	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which
	A Pine 10 ins, diam. bears N20E 40 lks. dist. marked ¼ S. B. T.
	A Pine 6 ins, diam. bears S23W 32 lks. dist. marked ¼ S. B. T.
79.75	The corner to sections 3-4-9 & 10
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass. Oct. 25th 1882
	D. F. Hickey

Township 31 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 32 and 33. Variation 15° 20' East.
	Ascend.
40.00	Set a Sand stone 14 x 9 x 6 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a Sand stone 13 x 8 x 6 ins. 8 ins. in the ground for Cor. to Secs. 28-29-32-33 marked with 1 notch on S. and 4 notch es on E edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 28 and 33. Variation 15° East.
	Descend.
11.60	Cross Wash, 30 lks. wide, Course S 20 E and ascend.
25.30	Top of Ridge, bears N. & S. and descend.
40.00.	Set temporary ¼ Sec. Cor.
52.31	Cross Gulch, 60 lks. wide, Course S 30 E and ascend.
36.00	Top of Ridge, bears S.E. & N.W. and descend.
71.62	Cross Wash, 20 lks. wide, Course S 60 E and ascend.
79.93.	Intersect N. & S. line, 18 lks. N, of cor. to secs. 27-28-33-34 from which corner, I run N 89° 52' W. on a true line between sections 28 & 33
	Variation 15° 15' East
39.97	Set a Sand stone 16 x 8 x 4 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.93	The corner to sections 28-29-32 & 33
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 28 and 29. Variation 15° 20 East.
	Ascend.
16.00	Top of Ridge, bears E & W and descend.
12.50	Cross Wash, 20 lks. wide, Course S 70 E and ascend.
40.00	Set a Sand stone 11 x 9 x 5 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
42.00	Top of Spur, bears NW & S E and descend.
63.21	Cross Wash, 60 lks. wide, Course E and ascend.
80.00	Set a Sand stone 13 x 9 x 6 ins. 8 ins. in the ground for Cor. to Secs. 20-21-28-29 marked with 2 notches on S. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land Rolling.
	Soil 2nd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 21 and 28. Variation 15° 20' East.
	Descend.
18.67	Cross Wash, 120 lks. wide, Course S 30 E and ascend.
38.00	Top of Spur, bears N. & S and descend.
40.00	Set temporary ¼ Sec. Cor.
44.00	Cross Gulch, 40 lks. wide, Course S E and ascend.
63.50	Top of Spur, bears N.W. & S.E. and descend.
79.70	Intersect N. & S. line, 46 lks. N. of cor. to secs. 21-22-27-28 from which corner, I run N 89° 40' W. on a true line between sections 21 & 28 Variation 15° 20' East
39.85	Set a Sand stone 18 x 12 x 9 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.70	The corner to sections 20-21-28 & 29
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 20 and 21. Variation 15° 20' East.
	Ascend.
7.00	Top of Spur, bears E and W and descend.
16.00	Cross Wash, 20 lks. wide, Course S E and ascend.
40.00	Set a Sand stone 12 x 8 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
76.00	Top of Ridge, bears N.W. & S.E. and descend.
80.00	Set a Sand stone 10 x 9 x 8 ins. 6 ins. in the ground for Cor. to Secs. 16-17-20-21 marked with 3 notches on S. and 4 notches on E. edges. dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 16 and 21. Variation 15° 20' East.
	Ascend.
35.00	Top of Spur, bears N. & S and descend.
40.00	Set temporary ¼ Sec. Cor.
53.86	Cross Wash, 40 lks. wide, Course S10 E and ascend.
79.86	Intersect N. & S. line, 35 lks. N. of cor. to secs. 15-16-21-22 from which corner, I run N89°45' W. on a true line between sections 16 & 21
	Variation 15° 25' East
39.93	Set a Sand stone 10 x 7 x 4 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.86	The corner to sections 16-17-20 & 21
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 16 and 17. Variation 15° East.
	Descend.
15.00	Doway Pine bears E & W, & Running Water Gulch & White River divide bears E & W & descend
27.50	Cross Gulch, 60 lks. wide, Course N10 E and ascend.
36.00	Top of Spur, bears E & W, and descend. —
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, and raised a mound of stone 1½ ft. high, 3½ ft. base around post. Pits impracticable. from which
	A Pine 8 ins. diam. bears S45°W 25 lks. dist. marked ¼ S. B. T.
	A Pine 10 ins. diam. bears N20° E 20 lks. dist. marked ¼ S. B. T.
47.00	Cross Wash, 30 lks. wide, Course N30 E and ascend.
53.00	Top of Spur, bears E & W, and descend.
61.30	Cross Wash, 20 lks. wide, Course S35 E and ascend.
66.00	Top of Spur, bears E & W, and descend.
80.00	Set a Sand stone 10 x 8 x 6 ins. 6 ins. in the ground for Cor. to Secs. 8-9-16-17 marked with 4 notches on S. and 4 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous
	Soil 3rd rate Vegetation. Bunchgrass
	Timber of Pine

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 9 and 16. Variation 15° East.
	Ascend.
7.80	Top of Spur, bears N.W & S.E. and descend.
18.00	Cross Wash, 40 lks. wide, Course N. and ascend.
40.00	Set temporary ¼ Sec. Cor.
48.00	Cross Gulch, 10 lks. wide, Course N.
80.03	Intersect N. & S. line, 45 lks. N. of cor. to secs. 9-10-15-16 from which corner, I run N89°40' W. on a true line between sections 9 & 16
	Variation 15° 20' East
40.02	Set a Sand stone 12 x 8 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.03	The corner to sections 8-9-16 & 17
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 8 and 9. Variation 15° 20' East.
	Ascend.
8.50	Top of Ridge, bears E & W and descend.
17.25	Cross Wash, 60 lks. wide, Course N40W and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
43.00	Top of Spur, bears E & W and descend.
67.00	Cross Wash, 35 lks. wide, Course N41W and ascend.
80.00	Set a Sand stone 12 x 8 x 8 ins. 8 ins. in the ground for Cor. to Secs. 4-5-8-9 marked with 5 notch es on S. and 4 notch es on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 4 and 9. Variation 15° 20' East.
	Descend.
15.00	Cross Wash, 35 lks. wide, Course N30W and ascend.
38.40	Top of Spur, bears N. & S. and descend.
40.00	Set temporary ¼ Sec. Cor.
49.81	Cross Gulch, 30 lks. wide, Course N30E and ascend.
69.50	Top of Spur, bears N, E, & S, W, and descend.
79.87	Intersect N. & S. line, 16 lks. N, of cor. to secs. 3-4-9-10 from which corner, I run N89°53' W. on a true line between sections 4 & 9 Variation 15° 20' East
39.93	Set a Sand stone 18 x 9 x 4 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.87	The corner to sections 5-4-8 & 9.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, on a random line between Sections 4 and 5. Variation 15° 20 East.
	Ascend.
17.00	Top of Spur, bears E, & W, and descend.
25.00	Cross Wash, 47 lks. wide, Course N35W and ascend.
32.00	Top of Spur, bears E & W, and descend.
40.00	Set temporary ¼ Sec. Cor.
57.32	Cross Gulch, 15 lks. wide, Course N, W, and ascend.
78.00	Top of Ridge, bears E & W. and descend.
79.65	Intersect N. B. of Tp. 17 lks. W of cor. to secs. 4-5-33 & 32 from which corner, I run S 7' W on a true line, between sections 4 & 5 Variation 15° 20' East.
39.65	Set a Sand stone 18 x 9 x 5 ins., 16 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.65	The corner to sections 4-5-8 & 9
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Oct. 25th, 1882

Henry J. Manning, Compassman.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 31 and 32. Variation 15° 20′ East.
	Descend.
32.00	*Cross Wash,* 40 *lks. wide, Course* S. E. *and ascend.*
40.00	*Set a* Sand *stone* 10 x 10 x 8 *ins.,* 6 *ins. in the ground, for* ¼ *Sec. Cor., marked* ¼ *on* W *face, dug pits* 18 x 18 x 12 *ins.,* E *and* W *. of stone* 5½ *ft. dist., and raised a mound of earth* 1½ *ft. high,* 3½ *ft. base.*
80.00	*Set a* Sand *stone* 20 x 8 x 8 *ins.* 15 *ins. in the ground for Cor. to Secs.* 29-30-31-32 *marked with* 1 *notch on S. and* 5 *notch on E. edges, dug pits* 18 x 18 x 12 *ins. in each Sec.,* 5½ *ft. dist. and raised a mound of earth* 2 *ft. high,* 4½ *ft. base.*
	Land Rolling.
	Soil 3rd *rate*
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 29 and 32. Variation 15° 20′ East.
11.00	*Cross Wash,* 9 *lks. wide, Course* S *and ascend.*
40.00	*Set temporary* ¼ *Sec. Cor.*
53.00	*Top of Spur, bears* N. & S. *and descend.*
80.14	*Intersect N. & S. line,* 15 *lks.* N. *of cor. to secs.* 28-29-32 & 33 *from which corner, I run* N 89° 57′ W. *on a true line between sections* 29 & 32
	Variation 15° 05′ *East*
40.07	*Set a* Sand *stone* 12 x 8 x 8 *ins.,* 8 *ins. in the ground, for* ¼ *Sec. Cor., marked* ¼ *on* W *face, dug pits* 18 x 18 x 12 *ins.,* S *and* N *. of stone* 5½ *ft. dist., and raised a mound of earth* 1½ *ft. high,* 3½ *ft. base.*
80.14	*The corner to sections* 29-30-31 & 32
	Land Rolling.
	Soil 3rd *rate*
	Vegetation Bunchgrass.
	Nov. 26th 1882
	D. F. Hickey

Township 31 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 30 and 31. Variation 15° 20' East.
40.00	Set temporary ¼ Sec. Cor.
49.50	Top of Spur, bears N & S and descend.
57.82	Cross Wash, 40 lks. wide, Course S and ascend.
77.61	Intersect W. B. of Tp. 48 lks. N of cor. to secs. 30-31-25 36 from which corner, I run N89° 39' E on a true line, between sections 30 & 31 Variation 15° 00 East.
39.61	Set a Sand stone 20 x 10 x 8 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
77.61	The corner to sections 30-29-31 & 32
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.
	Oct. 26th 1882
	Harry J. Manning
	Compassman

Township 31 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 29 and 30. Variation 15° 20' East.
	Ascend.
12.50	Cross Wash, 30 lks. wide, Course S. E and ascend.
40.00	Set a Sand stone 28 x 16 x 10 ins., 21 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., E and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.00	Set a Sand stone 20 x 8 x 8 ins. 15 ins. in the ground for Cor. to Secs. 19-20-29-30 marked with 2 notches on S. and 5 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land rolling.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 20 and 29. Variation 15° 20' East.
8.00	Cross low Sag and ascend. N & S
14.00	Top of Spur, bears N. & S and descend.
40.00	Set temporary ¼ Sec. Cor.
61.08	Cross Gulch, 20 lks. wide, Course S. E and ascend.
79.89	Intersect N. & S. line, 16 lks. S of cor. to secs. 20-21-28-29 from which corner, I run S89°53' W. on a true line between sections 20 & 29 Variation 15° 20' East
39.95	Set a Sand stone 16 x 70 x 7 ins., 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.89	The corner to sections 19-20-29-30
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass,
	Oct. 26th 1882
	W. F. Hickey

Township 31 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 19 and 30. Variation 15° 20 East.
	Over rolling land.
40.00	Set temporary ¼ Sec. Cor.
46.18	Cross Wash, 30 lks. wide, Course S. E and ascend.
77.98	Intersect W. B. of Tp. 19 lks. N of cor. to secs. 19-30-24-25 from which corner, I run N89° 52' E on a true line, between sections 19 & 30 Variation 15° 20' East.
37.98	Set a Sand stone 12 x 12 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
77.98	The corner to sections 19-20-29 & 30
	Land rolling.
	Soil 3rd rate
	Vegetation Bunchgrass.
	Oct. 26th 1882
	Henry J. Manning
	Compassman.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 19 and 20. Variation 15° 20 East.
26.00	Cross divide between Running Water Creek & White River bears N.70 W & S.70 E.
37.00	Enter heavy Pine timber N70W & S70E
38.00	Cross Wash, 30 lks. wide, Course N 20 W and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which A Pine 11 ins. diam. bears N30W 20 lks. dist. marked ¼ S. B. T. A Pine 10 ins, diam. bears S60½ E 43 lks. dist. marked ¼ S. B. T.
46.00	Top of Spur, bears N.W. & S.E. and descend.
57.00	Cross Wash, 20 lks. wide, Course N10W and ascend.
80.00	Set a Sand stone 20 x 8 x 6 ins. 15 ins. in the ground for Cor. to Secs. 17-18-19-20 marked with 3 notches on S. and 6 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base. from which A Yellow Pine 8 ins diam. bears S8 ¼ W 73 lks. dist. marked T 31 N R 48 W S. 19 B. T.

Land mountainous

Soil 3rd rate

Timber of Pine

Vegetation. Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 17 and 20. Variation 15° 20 East.
	Along S. side of Spur through scattering Pine timber
3.00	Top of Spur, bears N.W. & S.E. and descend.
17.00	Cross Wash, 80 lks. wide, Course N30W and ascend.
27.00	Top of Spur, bears N.W. & S.E. and descend.
40.00	Set temporary ¼ Sec. Cor.
79.67	Intersect N. & S. line, 24 lks. N of cor. to secs. 16-17-20-21 from which corner, I run N89° 50' W. on a true line between sections 17 & 20 Variation 15° 10' East
39.84	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which A Pine 3 ins, diam. bears N30 E 94 lks. dist. marked ¼ S. B. T. A Pine 17 ins, diam. bears S27 W 85 lks. dist. marked ¼ S. B. T.
79.67	The corner to sections 17-18-19 & 20

Land mountainous

Soil 3rd rate

Timber of Pine

Vegetation. Bunchgrass. Oct. 26th 1882

D. H. Hickey.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 18 and 19.
	Variation 15° 20' East.
	Through scalling timber
6.00	Cross Wash, 35 lks. wide, Course N 10 W and ascend.
21.00	Top of Spur, bears N. & S. and descend.
27.00	Cross Wash, 18 lks. wide, Course N 15 W and ascend.
40.00	Set temporary ¼ Sec. Cor.
42.00	Leave timber bears N & S
61.00	Top of Spur, bears N. & S and descend.
78.43	Intersect W. B. of Tp. 63 lks. N. of cor. to secs. 18-19-13-24 from which corner, I run N 89° 30' E on a true line, between sections 18 & 19
	Variation 15° 00' East.
38.43	Set a Sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
	from which A Pine 10 ins, diam. bears N 35° E 24 lks. dist. marked ¼ S. B. T.
78.43	The corner to sections 17-18-19 & 20
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass. Oct. 26th 1882
	Henry J. Manning. Compassman

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 17 and 18.
	Variation 15° 20 East.
	Ascend.
6.30	Top of Spur, bears N.W & S.E and descend.
24.00	Cross Wash, 60 lks. wide, Course N 15 W and ascend.
36.00	Top of Spur, bears N.W & S.E and descend.
40.00	Set a post 3 ft. long, 3 ins. diam.
	12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	from which A Pine 20 ins. diam. bears N 20 E 121 lks. dist. marked ¼ S. B. T. A Pine 6 ins. diam. bears S 86 W 90 lks. dist. marked ¼ S. B. T.
41.30	Cross Wash, 37 lks. wide, Course N 32 W and ascend.
58.00	Top of Spur, bears N.W & S.E and descend.
73.00	Cross Gulch, 15 lks. wide, Course N 35 W and ascend.
80.00	Set a post 4 ft. long, 4 ins. square.
	12 ins. in the ground, for Cor. to Secs, 7-8-17-18 marked T. 31 N S. 8 on N, E, R, 48 W, S. 17 on S, E, S, 18 on S, W, and S, 7 on N, W, face, 18 with 4 notch 18 on S, and 5 notch 7S on E, edges, dug pits 18 x 18 x 12 ins, in each Sec., 5½ ft, dist., and raised a mound of earth 2 ft, high, 4½ ft, base around post.
	from which A Pine 12 ins, diam. bears N 28 E 40 lks. dist. marked T. 31 N R. 48 W S., 8 B. T. A Pine 18 ins, diam. bears N 45 W 75 lks. dist. marked T. 31 N R. 48 W S., 7 B. T. A Pine 23 ins, diam. bears S 70 W 98 lks. dist. marked T. 31 N R. 48 W S., 18 B. T.
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 8 and 17. Variation 15° 20 East.
	Along N. Slope
3.00	Top of Spur, bears NW & SE and descend.
17.00	Cross Gulch, 80 lks. wide, Course N 28 W and ascend.
23.35	Top of Hill bears N 30 E & S 30 W and descend.
40.00	Set temporary ¼ Sec. Cor.
43.00	Cross Gulch, 28 lks. wide, Course N 28 W and ascend.
50.00	Top of Spur, bears NW, & S. E. and descend.
67.40	Cross Gulch, 20 lks. wide, Course N 15 E and ascend.
79.80	Intersect N. & S. line, 8 lks. N. of cor. to secs. 8-9-16-17 from which corner, I run N 89° 57' W. on a true line between sections 8 & 17. Variation 15°. 20' East
39.90	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
7	A Pine 10 ins, diam. bears N 23 E 133 lks. dist. from which marked ¼ S. B. T.
79.80	The corner to sections 7-8-17 & 18
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass. Oct. 26th 1882
	D. F. Hickey.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 7 and 18. Variation 15°. 00 East.
	Descend.
10.00	Cross Wash, 50 lks. wide, Course N 25 W and ascend.
18.00	Top of Spur, bears N 20 W & S 20 E and descend.
21.30	Cross Gulch, 65 lks. wide, Course N 35 W and ascend.
34.00	Top of Spur, bears N 20 W & S 20 E and descend.
35.00	Leave timber bearing N. & S.
40.00	Set temporary ¼ Sec. Cor.
64.94	Cross Wash, 85 lks. wide, Course N 40 W and ascend.
78.88	Intersect W. B. of Tp. 35 lks. N. of cor. to secs. 7-12-13-18 from which corner, I run N 89° 45' E on a true line, between sections 7 & 18 Variation 15° 00 East.
38.88	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
78.88	The corner to sections 7-8-17 & 18
	Land mountainous
	Soil 3rd rate
	Timber of Pine
	Vegetation. Bunchgrass. Oct. 26th 1882
	Henry J. Manning Compassman.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 7 and 8. Variation 15° 20 East.
	Descend.
15.50	Cross Gulch, 50 lks. wide, Course N40W and ascend.
20.00	Top of Spur, bears N.W. & S.E., and descend.
28.00	Cross Gulch, 30 lks. wide, Course N.W. and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. ou
42.00	Top of Spur, bears N.W. & S.E., and descend.
44.00	Cross Gulch, 30 lks. wide, Course N30W and ascend.
64.00	Top of Spur, bears N.W. & S.E., and descend.
80.00	Set a Sand stone 12 x 9 x 6 ins. 8 ins. in the ground for Cor. to Secs. 5-6-7-8 marked with 5 notch es on S. and 5 notch es on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base.

Land mountainous

Soil 3rd rate

Timber of Pine

Vegetation. Bunchgrass

Township 31 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 5 and 8. Variation 15° 20 East.
	Ascend.
1.00	Top of Spur, bears N. & S., and descend.
11.00	Cross Wash, 20 lks. wide, Course N. and ascend.
16.00	Top of Spur, bears N. & S. and descend.
40.00	Set temporary ¼ Sec. Cor.
56.00	Cross Wash, 35 lks. wide, Course N35W and ascend.
74.00	Top of Spur, bears N. & S. and descend.
79.63	Intersect N. & S. line, 15 lks. S of cor. to secs. 4-5-8-9 from which corner, I run S89°54' W. on a true line between sections 5 & 8 Variation 15° 20' East
39.81	Set a Sand stone 18 x 12 x 6 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.63	The corner to sections 5-6-7-8

Land mountainous.

Soil 3rd rate

Vegetation Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Oct. 26th 1882

D. L. Hickey

Township 31 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 6 and 7. Variation 15° 20 East.
	Descend.
1.00	Cross Gulch, 20 lks. wide, Course N and ascend.
11.50	Top of Spur, bears NE & SW and descend.
18.00	Cross Wash, 70 lks. wide, Course N and ascend.
25.00	Top of Spur, bears N. & S and descend.
40.00	Set temporary ¼ Sec. Cor.
49.64	Cross Gulch, 120 lks. wide, Course N85W and ascend.
79.27	Intersect W B. of Tp. 20 lks. N of cor. to secs. 6-7-1-12 from which corner, I run N89°.51' E on a true line, between sections 6 & 7 Variation 15° 20' East.
39.27	Set a Sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N face, dug pits 18 x 18 x 12 ins., N and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.27	The corner to sections 5-6-7 & 8
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 31 North Range 48 West

6th Principal Meridian.

Chains	North, on a random line between Sections 5 and 6. Variation 15° 20 East.
	Descend.
4.30	Cross Gulch, 50 lks. wide, Course N65W and ascend.
15.00	Top of Spur, bears N.E. & S.W. and descend.
40.00	Set temporary ¼ Sec. Cor.
79.42	Intersect N. B. of Tp. 9 lks. E of cor. to secs. 5-6-31-32 from which corner, I run S 4' E on a true line, between sections 5 & 6 Variation 15° 20' East.
39.42	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
79.42	The corner to sections 5-6-7-8
	Land rolling.
	Soil 3rd rate
	Vegetation Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Oct. 26th 1882

Henry J. Manning
Compassman.

GENERAL DESCRIPTION.

The land in this Township is generally rolling and mountainous
The soil is 2nd & 3rd rate
There are several fine streams of water running through the Township which furnish abundant water throughout the season.
Much of the land is covered with fine bunchgrass and will furnish agricultural crops without irrigation. There is in the mountainous portions a fine growth of Pine timber.

U. S. Surveyor General's Office.

Plattsmouth, Neb. 1885

The foregoing Field Notes of the Retracings, and surveys of the Subdivision lines of Township No. 31 North of Range No. 48 West of the Principal Base and Meridian in the State of Neb. executed by D. H. Hickey U. S. Deputy Surveyor, under his contract No. dated Nov. 10, 1881, in the Mo. of Oct. 1882, having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

L. V. B. Thomson
U. S. Surveyor-General for

D. F. Hickey Deputy Surveyor.

T. 32 **North R.** 48 **West.**

6th Principal Meridian.

FIELD NOTES

OF

THE SUBDIVISION LINES OF

Township 32 North Range 48 West

6th Principal Meridian.

BY

D. F. Hickey Deputy Surveyor.

Under his Contract of Nov 10 188~~1~~

Survey Commenced Nov. 11th 1882

Survey Completed Nov. 14th 1882

Platted,
Copied for Washington,
Copied for Register,

Edward Denny & Co., Stationers & Printers, S. F. Cal.

Township.....Range.....

.....6th Principal Meridian.

6	60	5	44	4	33	3	22	2	11	1
59		58		43		32		21		10
7	57	8	42	9	31	10	20	11	9	12
56		55		41		30		19		8
18	54	17	40	16	29	15	18	14	7	13
53		52		39		28		17		6
19	51	20	38	21	27	22	16	23	5	24
50		49		37		26		15		4
30	48	29	36	28	25	27	14	26	3	25
47		46		35		24		13		2
31	45	32	34	33	23	34	12	35	1	36

Edward Denny & Co., Stationers & Printers, S. F., Cal.

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Township.....North.....Range.....West

.....6th Principal Meridian.

Township ..... North ..... Range ..... West

..... 6th Principal Meridian.

Township ..... North ..... Range ..... West

..... 6th Principal Meridian.

Survey made with Burt's Patent Improved Solar Compass, is nearly new, and in first rate order. Made by W. J. L. E. Gurley *of* Troy N. Y. *in* 1879

Township 32 North Range 48 West
(See previous page.) 6th Principal Meridian.

Chains	
	From the corner to Sections 35, 36, 1 and 2 on the South boundary; I run North, between Sections 35 and 36.
	Variation 15° 15' East.
	Descend. into rough country.
17.42	Cross Canon, 20 lks. wide, Course N. W. and ascend.
31.00	Top of Spur, bears N. W. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
43.16	Cross Canon, 25 lks. wide, Course N. 40° W. and ascend.
64.00	Top of Spur, bears N. 20° W. & S. 30° E. and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 25-26-35 & 36 marked T. 31 N. S. 25 on N. E., R. 48 W., S. 36 on S. E., S. 35 on S. W and S. 26 on N. W. face, on with 1 notch on S. and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	A Yellow Pine 17 ins. diam. bears S 39° E 55 lks. dist. from which marked T. 32 N. R. 48 W., S., 36 B. T.
	A Yellow Pine 14 ins. diam. bears S 57½° W 46 lks. dist. marked T. 31 N R. 48 W., S., 35 B. T.
	A Yellow Pine 7 ins. diam. bears N 47½° E 67 lks. dist. marked T. 31 N R. 48 W., S., 25 B. T.
	A Yellow Pine 12 ins. diam. bears N. 88° W. 65 lks. dist. marked T. 32 N. R. 48 W., S., 26 B. T.
	Land mountainous
	Soil 3rd rate. Vegetation Bunchgrass
	Timber of Pine.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	
	East, on a random line between Sections 25 and 36.
	Variation 15° 15' East.
	Descend.
7.63	Cross Gulch, 25 lks. wide, Course N. and ascend.
13.75	Top of Spur, bears N. 10° W. S. 10° E and descend.
22.97	Cross Gulch, 125 lks. wide, Course N. 30° W and ascend.
40.00	Set temporary ¼ sec. cor.
44.00	Top of Spur, bears N. W. and S. E. and descend.
57.00	Cross Road, bears, N. 20° W. and S. 20 E
80.21	Intersect E. B. of Tp. 40 lks. S. of cor. to secs. 25-36-30 & 31 from which corner, I run S 89° 45' W, on a true line, between sections 25 & 36
	Variation 15° 15' East.
40.11	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	A Yellow Pine 12 ins. diam. bears N 63½° W 41 lks. dist. from which marked ¼ S. B. T.
	A Yellow Pine 7 ins. diam. bears S 14½° E 212 lks. dist. marked ¼ S. B. T.
80.21	The corner to sections 25-26-35 and 36
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 25 and 26. Variation 15°.45' East.
	Ascend.
4.50	Top of Spur, bears N.10 E. and S.10 W and descend.
9.75	Cross Gulch, 25 lks. wide, Course N.10° W and ascend.
16.00	Top of Spur, bears E. and W. and descend.
22.33	Cross Gulch, 20 lks. wide, Course N.38 E and ascend.
28.50	Top of Spur, bears E. and W. and descend.
33.65	Cross Gulch, 20 lks. wide, Course N.25 W and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which A Yellow Pine 5 ins. diam. bears S.73 W. 26 lks. dist. marked ¼ S. B. T.
56.50	Top of Spur, bears E and W. and descend.
63.20	Cross Road, (Stoffed tail wagon) bears N.W. & S.E. Running water Creek
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for ~~Hitness~~ Cor. to Secs. 23-24-25-26 marked ~~T.~~ T. 32 N. S. 24 ~~W~~. on N. E., R. 48 W., S. 25 on S. E. S. 26 on S. W. and S. 23 on N. W. face, & S with 2 notches on S. and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post. Land mountainous. Timber of Pine Soil 3rd. rate Vegetation Bunchgrass.

Township 32 North Range 48' West

6th Principal Meridian.

Chains	~~Counting from line point for Cor. to Secs. 23. 24. 25 & 26~~ East, on a random line between Sections 24 and 25. Variation 14°.50' East.
4.50	Descend. ~~Dr~~
4.50	Cross Wash, 25 lks. wide, Course N70 W and ascend.
40.00	Set temporary ¼ sec. cor.
41.00	Top of Spur, bears N. W. & S. E. and descend.
64.82	Cross Wash, 60 lks. wide, Course N.10 W and ascend.
80.07	Intersect E. B. of Tp. 32 lks. S. of cor. to secs. 24-25-19-30 from which corner, I run S89°.46' W. on a true line, between sections 24 & 25 Variation ~~15°00~~ 14°50' East.
40.04	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which A Yellow Pine 13 ins. diam. bears N71 1/4 E. 82 lks. dist. marked ¼ S. B. T. A Yellow Pine 7 ins. diam. bears S13 1/4° W. 113 lks. dist. marked ¼ S. B. T.
80.07	The corner to sections 23-24-25 and 26 Land mountainous Soil 3rd. rate. Timber of Pine Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	~~Converting from line point~~ North, between Sections 23 and 24. Variation 15° 45 East.
	Descend.
1.50	Cross Gulch, 200 lks. wide, Course N. 40 W. and ascend.
24.75	Top of Spur, bears E. and W. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
59.00	Cross Gulch, 125 lks. wide, Course West. and ascend.
68.75	Top of Spur, bears E. and W. and descend.
80.00	Set a Sand stone 20 x 10 x 10 ins. 15 ins. in the ground for Cor. to Secs. 13-14-23 & 24 marked with 3 notches on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 13 and 24. Variation 15°. 30' East.
	Ascend.
19.00	Top of Spur, bears N. and S. and descend.
40.00	Set temporary ¼ sec. cor.
43.00	Cross Gulch, 20 lks. wide, Course N 5° W and ascend.
79.92	Intersect E B. of Tp. 48 lks. S. of cor. to secs. 13-24-18-19 from which corner, I run S 89° 39' W. on a true line, between sections 13 & 24 Variation 15° ~~30~~ 30' East.
39.96	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which A Yellow Pine 7 ins. diam. bears N 16 3/4° W 41 lks. dist. marked ¼ S. B. T.
79.92	The corner to sections 13-14-23 & 24
	Land Rolling.
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 13 and 14.
	Variation 15°, 45' East.
	Ascend. gradually.
40.00	Set a Sand stone 10 x 9 x 9 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, and raised a mound of stone. Pits impracticable. on
[illegible]	Top of Spur, bears E. and W. and descend.
59.30	Cross Gulch, 20 lks. wide, Course W. and ascend.
80.00	Set a Sand stone 20 x 10 x 5 ins. 15 ins. in the ground for Cor. to Secs. 11-12-13 & 14 marked with 4 notches on S. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land hilly.
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 12 and 13.
	Variation 15° 42' East.
	Ascend.
2.50	Top of Spur, bears N.W. and S.E. and descend.
13.41	Cross Gulch, 20 lks. wide, Course N.W. and ascend.
32.70	Top of Spur, bears N60°W. and S65°E and descend.
40.00	Set temporary ¼ sec. cor.
42.00	Cross Gulch, 20 lks. wide, Course N 72° W and ascend.
56.81	Top of peak bears N. and S. and descend.
68.00	Cross Wash, 120 lks. wide, Course N.15 land ascend.
79.81	Intersect E B. of Tp. 60 lks. S. of cor. to secs. 12-13-7-18 from which corner, I run S89° 34' W on a true line, between sections 12 & 13
	Variation 15° ~~40~~ 42' East.
39.90	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	A Yellow Pine 7 ins. diam. bears N16½°E 13 lks. dist. from which marked ¼ S. B. T.
79.81	The corner to sections 11-12-13-14
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 11 and 12. Variation 15° 15' East.
	Ascend.
4.10	*Top of Spur, bears N. W. and S. E. and descend.*
33.80	*Cross Gulch, 150 lks. wide, Course N. 10 W. and ascend.*
40.00	*Set a Sand stone 10 x 10 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.*
80.00	*Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 1-2-11-12 marked T. 32 N S. 1 , on N. E., R. 48 W, S. 12 on S. E., S. 11 on S. W. and S. 2 on N. W. face, 1S with 5 notch 5 on S. and 1 notch on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.*
	Land ~~mountainous~~ Hilly.
	Soil 2nd, rate.
	Timber of Pine.
	Vegetation Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 1 and 12. Variation 15° 15' . East.
	Descend.
7.20	*Cross Gulch, 120 lks. wide, Course N 88° W. and ascend.*
40.00	*Set temporary ¼ sec. cor.*
49.00	*Top of Spur, bears N. W. and S. E. and descend.*
79.98	*Intersect E. B. of Tp. 45 lks. S. of cor. to secs. 1-12-6-7 from which corner, I run S 89° 41' [illegible] on a true line, between sections 1 & 12.* Variation 15° 45' East.
39.99	*Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.*
	from which
	A Yellow Pine 7 ins. diam. bears N 23½ W. 180 lks. dist. marked ¼ S. B. T.
	A Yellow Pine 14 ins. diam. bears S 63¼ E 93 lks. dist. marked ¼ S. B. T.
79.98	*The corner to sections 1-2-11 & 12*
	Land ~~mountainous~~ Rolling.
	Soil 2nd, rate.
	Timber of Pine.
	Vegetation Bunchgrass.
	Nov. 11th 1882
	D. F. Hickey.

Township 32 North Range 48 West 6th Principal Meridian.

Chains	North, on a ~~random~~ true line between Sections 1 and 2. Variation 15° 15' East.
	Descend.
1.89	Cross Gulch, 125 lks. wide, Course N.W. and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which
	A Yellow Pine 13 ins. diam. bears N 42° E 93 lks. dist. marked ¼ S. B. T.
	A Yellow Pine 9 ins. diam. bears S 22¼° W 33 lks. dist. marked ¼ S. B. T.
57.50	Top of Spur, bears N 70° W & S. 70° E and descend.
76.50	Intersect the 8th Standard Parallel North at a point 5.38 chs. East. of the Standard Cor. to Secs. 31 and 36. T. 33 N. R. 48 W. at which point I.
	Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Secs. 1 and 2 marked C. C. T. 32 N R. 48 W., on S. S. 1 on E and S. 2 on W. faces, with 1 notch E on 1 and 5 notch E on W faces, dug pits 18 x 18 x 12 ins. S, E, & W of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land ~~mountainous~~ Rolling. Vegetation Bunchgrass
	Soil 3rd rate.
	Timber of Pine
	Vegetation

Township 32 North Range 48 West 6th Principal Meridian.

Chains	North, between Sections 34 and 35. Variation 15° 15' East.
	Descend.
12.63	Cross Gulch, 30 lks. wide, Course N. W. and ascend.
22.34	Top of Spur, bears N. W. and S. E. and descend.
34.70	Cross Gulch, 30 lks. wide, Course N. 40 W and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post. from which
	A Yellow Pine 14 ins. diam. bears N 69¾° W 31 lks. dist. marked ¼ S. B. T.
	A Yellow Pine 8 ins. diam. bears S 27¾° E 129 lks. dist. marked ¼ S. B. T.
54.00	Top of Spur, bears N. W. & S. E. and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 26-27-34-35 marked T. 32 N S. 26, on N. E., R. 48 W, S. 35 on S. E., S. 34 on S. W. and S. 27 on N. W. face, 1 S with 1 notch on S. and 2 notch 1 S on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post. from which
	A Yellow Pine 12 ins. diam. bears N 73¾° E 263 lks. dist. marked T. 32 N R. 48 W, S., 26 B. T.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 26 and 35. Variation 15° 33' East.
	Descend.
29.75	Cross Gulch, 10 lks. wide, Course N. W. and ascend.
40.00	Set temporary ¼ sec. cor.
43.00	Top of Spur, bears N 20 W & S 20 E. and descend.
57.73	Cross Gulch, 20 lks. wide, Course N, and ascend.
77.00	Top of Spur, bears N. and S. and descend.
79.91	Intersect N. & S. line, 35 lks. S of cor. to secs. 25-26-35 & 36 from which corner, I run S 89° 45' W. on a true line between sections 26 & 35 Variation 15° 33' East.
39.96	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., S. and N. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
79.91	The corner to sections 26 - 27 - 34 & 35
	Land mountainous Soil 3rd. rate. Timber of Pine Vegetation Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 26 and 27. Variation 15° 16' East.
	Descend.
22.73	Cross Gulch, 20 lks. wide, Course W and ascend.
34.00	Top of Spur, bears E, and W. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
69.50	Little Bordeau Cross Creek, 20 lks. wide, Course N 10 E and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 22-23-26-27 marked T. 32 N S. 23 on N. E., R. 48 W, S. 26 on S. E., S. 27 on S. W and S. 22 on N. W. face, as with 2 notches on S. and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous Soil 3rd. rate. Timber of Pine Vegetation Bunchgrass.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 23 and 26. Variation 15° 15' East.
	Descend.
11.00	Cross Creek, 10 lks. wide, Course N. and ascend.
40.00	Set temporary ¼ sec. cor.
42.00	Top of Spur, bears N. & S. and descend.
66.00	Cross Gulch, 25 lks. wide, Course N.W. and ascend.
71.52	Cross Road, (Running Water Creek & Spotted tail wagon road) bears N.W. and S.E.
74.00	Top of Spur, bears N.W. & S.E. and descend.
79.75	Intersect N. & S. line, 42 lks. S of cor. to secs. 23-24-25-26 from which corner, I run S 89° 42' W. on a true line between sections 23 & 26 Variation 15° 15' East.
39.88	Set a Sand stone 12 x 8 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.75	The corner to sections 22-23-26 & 27
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass

Township 32 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 22 and 23. Variation 15° 15' East.
	Ascend.
7.25	Top of Spur, bears N. E and S. W. and descend.
17.60	Cross Gulch, 30 lks. wide, Course N. 20 E and ascend.
39.00	Top of Spur, bears E and W. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	from which
	A Yellow Pine 13 ins. diam. bears N 29 W. 16 lks. dist. marked ¼ S. B. T.
	A Yellow Pine 7 ins. diam. bears S 73 ½ E 33 lks. dist. marked ¼ S. B. T.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 14-15-22-23 marked T. 32 N S. 14 on N. E., R. 48 W; S. 23 on S. E. S 22 on S. W and S. 15 on N. W. faces with 3 notches on S. and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 14 and 23. Variation 15° 15' East.
	Descend.
1.63	Cross Gulch, 20 lks. wide, Course S88 E and ascend.
19.00	Top of Spur, bears N10E & S10W and descend.
40.00	Set temporary ¼ sec. cor. Lillie-Bordeau
69.54	Cross Creek, 15 lks. wide, Course N. 5° E and ascend.
71.09	Cross Road. Running Water Creek & Spotted tail wagon road. bears N. and S.
80.05	Intersect N. & S. line, 29 lks. S of cor. to secs. 13-14-23 & 24 from which corner, I run S89°. 48' W. on a true line between sections 14 & 23 Variation 15° 15' East.
40.03	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
80.05	The corner to sections 14-15-22 & 23
	Land ~~mountainous~~ hilly.
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 14 and 15. Variation 15° 40 East.
	Descend.
1.50	Cross Gulch, 20 lks. wide, Course E and ascend.
7.75	Top of Spur, bears ~~N.~~ E. and ~~S.~~ W. and descend.
17.60	Cross Gulch, 300 lks. wide, Course N. 70 E and ascend.
38.00	Top of Spur, bears E & W and descend.
40.00	Set a Sand stone 10 x 10 x 6 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base. low Sag and ascend.
72.00	Top of Spur, bears N.W. & S.W. and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 10-11-14-15 marked T. 32N S. 11, on N. E., R. 48W, S. 14 on S. E., S. 15 on S. W, and S. 10 on N. W. face, es with 4 notches on S. and 2 notches on E. edges; and raised a mound of stone 2 ft. high, 4½ ft. base around post. Pits impracticable.
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 11 and 14. Variation 15° 15' East.
	Descend.
13.00	*Cross Gulch, 10 lks. wide, Course N. E and ascend.*
21.00	*Top of Spur, bears N E & S.W. and descend.*
40.00	*Set temporary ¼ sec. cor.*
57.93	*Cross Creek, 20 lks. wide, Course N. and ascend.*
61.33	*Cross Road, running water Creek & Spotted tail wagon road bears N.8° E & S5° W*
80.20	*Intersect N. & S. line, 40 lks. S of cor. to secs. 11-14-12-13 from which corner, I run S89°. 43' W. on a true line between sections 11 & 14* Variation 15° 20' East.
40.10	*Set a Sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.*
80.20	*The corner to sections 10-11-14-15*
	Land mountainous
	Soil 3rd, rate.
	Timber of Pine
	Vegetation Bunchgrass

Township 32 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 10 and 11. Variation 15° 15' East.
	Descend.
40.00	*Set a Sand stone 10 x 8 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.*
80.00	*Set a Sand stone 14 x 12 x 10 ins. 9 ins. in the ground for Cor. to Secs. 2-3-10-11 marked with 3 notches on S. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.*
	Land ~~mountainous~~ Rolling.
	Soil 3rd, rate
	Vegetation Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 2 and 11.
	Variation 15° 15' East.
	Descend.
.14	Cross Gulch, 20 lks. wide, Course N. 20 W and ascend.
16.20	Cross Road, Running Water Creek & Spotted tail road bears N. and S.
38.00	Top of Spur, bears N. and S. and descend.
40.00	Set temporary ¼ sec. cor.
58.08	Little Pordean Cross Creek, 30 lks. wide, Course N 18° W and ascend.
80.09	Intersect N. & S. line, 32 lks. S of cor. to secs. 1-2-11-12 from which corner, I run S89°. 46' W. on a true line between sections 2 & 11
	Variation 15° 15' East.
40.05	Set a Sand stone 12 x 10 x 6 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.09	The corner to sections 2-3-10 & 11
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian

Chains	North, on a ~~random~~ true line between Sections 2 and 3.
	Variation 15° 40 East.
	Descend.
26.90	Cross Gulch, 80 lks. wide, Course N 20 E and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
47.00	Top of Spur, bears E & W. and descend.
77.19	Intersect the 8th Standard Parallel North at a point 5.19 chs. East. of the Standard Cor. to Secs. ~~34~~ 35 and ~~35~~ 36. T. 33N. R. 48W. at which point I.
	Set a Sand stone 14 x 14 x 8 ins. 9 ins. in the ground for Closing Cor. to Secs. 2 and 3 marked C. C. with 2 notch Es on E. and 4 notch Es on W. edges, dug pits 18 x 18 x 12 ins. S. E., and W. of stone, 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base. from which
	A Pine 4 ins. diam. bears S 44½ W 243 lks. dist. marked T. 32N R. 48W, S., 3 B. T.
	Land ~~mountainous~~ hilly.
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass. Nov. 11th 1882
	Henry J. Manning Compassman.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 33 and 34. Variation 15° 15' East.
	Ascend.
9.00	Top of Spur, bears E and W. and descend.
16.06	Cross Wash, 30 lks. wide, Course N80E and ascend.
40.00	Set a Sand stone 18 x 8 x 6 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
~~54.00~~	~~Cross low Sag and ascend. N. 45° E~~
80.00	Set a Sand stone 16 x 10 x 8 ins. 11 ins. in the ground for Cor. to Secs. 27-28-33 & 34 marked with 1 notch on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land Rolling.
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 27 and 34. Variation 15° 15' East.
~~28.00~~	Descend.
28.00	Cross Wash, ~~lks. wide~~, Course ~~N.S.~~ 9 North - 20 East and ascend.
33.00	Top of Spur, bears N. and S. and descend.
40.00	Set temporary ¼ sec. cor.
47.00	Cross ~~Wash~~ Little Bordeau Cr. 60 lks. wide, Course N. and ascend.
62.00	Top of Spur, bears N10W & S10E. and descend.
79.83	Intersect N. & S. line, 66 lks. S of cor. to secs. 26-27-34-35 from which corner, I run S89°. 32' W. on a true line between sections 27 & 34
	Variation 15° 15' East.
39.92	Set a Sand stone 14 x 11 x 8 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.83	The corner to sections 27-28-33 & 34
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 27 and 28. Variation 15° 15' East.
	Ascend.
2.00	Top of Spur, bears E. and W. and descend.
24.60	Cross Wash, 40 lks. wide, Course N84 E and ascend.
40.00	Set a Sand stone 20 x 16 x 14 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
42.00	Top of Spur, bears E and W. and descend.
46.00	Cross Wash, 20 lks. wide, Course S65 E and ascend.
80.00	Set a Sand stone 15 x 10 x 8 ins. 10 ins. in the ground for Cor. to Secs. 21-22-27-28 marked with 4 notches on S. and 3 notches on E. edges, dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base.
	Land mountainous.
	Soil 3d rate
	Vegetation Bunchgrass

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East on a random line between Sections 22 and 27. Variation 15° 15' East.
	Descend.
8.00	Cross Wash, 40 lks. wide, Course S70 E and ascend.
20.00	Top of Spur, bears S. E. and N.W. and descend.
27.00	Cross Wash, 50 lks. wide, Course S60 E and ascend.
35.00	Top of Spur, bears S. E. and descend.
40.00	Set temporary ¼ sec. cor. low Sag and ascend.
64.00	Top of Spur, bears N. and S. and descend.
72.62	Intersect N. & S. line, 25 lks. S of cor. to secs. 22-23-26-27 from which corner, I run S89° 49' W. on a true line between sections 22 & 27
	Variation 15° 15' East.
39.81	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
79.62	The corner to sections 21-22-27-28
	Land mountainous.
	Soil 3d rate
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 21 and 22. Variation 15° 15' East.
	Descend.
7.00	Cross Wash, 40 lks. wide, Course S70E and ascend.
22.00	Top of Ridge, bears E. & W. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam.
	12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on
	W. face, dug pits, 18 x 18 x 12 ins., E. and W. of
	post 5½ ft. dist., and raised a mound of earth 1½ ft.
	high, 3½ ft. base around post.
	A Pine 20 ins. diam. bears N30E, from which 32 lks. dist.
	marked ¼ S. B. T.
	A Pine 14 ins. diam. bears S10W, 21 lks. dist.
	marked ¼ S. B. T. in low fog and ascend.
43.00	Top of Spur, bears N.W. & S.E. and descend.
55.00	Cross Wash, 40 lks. wide, Course N20W and ascend.
71.00	Top of Spur, bears N.W. & S.E. and descend.
80.00	Set a post 4 ft. long, 4 ins. square,
	12 ins. in the ground, for Cor. to Secs. 15-16-21-22
	marked T. 32N S. 15 on N. E., R. 48W, S. 22
	on S. E., S. 21 on S. W and S. 16 on N. W. face, cs
	with 3 notch cs on S. and 3 notch cs on E. edges;
	dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist.,
	and raised a mound of earth 2 ft. high, 4½ ft. base
	around post.
	A Pine 20 ins. diam. bears N32½E 127 from which lks. dist.
	marked T. 32N R. 48W, S., 15 B. T.
	A Pine 30 ins. diam. bears N15W 238 lks. dist.
	marked T. 31N R. 48W, S., 15 B. T.
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 15 and 22. Variation 15° 15' East.
	Descend.
9.00	Cross Wash, 50 lks. wide, Course N30W and ascend.
27.00	Top of Spur, bears N.W. and S.E. and descend.
40.00	Set temporary ¼ sec. cor.
62.14	Cross Wash, 45 lks. wide, Course N, and ascend.
74.00	Top of Spur, bears N20E & S20W and descend.
79.71	Intersect N. & S. line, 40 lks. S. of cor. to secs.
	14-15-22-23 from which corner, I run
	S89°.43' W. on a true line between sections 15 & 22
	Variation 15° 15' East.
39.86	Set a post 3 ft. long, 3 ins. diam.
	12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on
	N. face, dug pits, 18 x 18 x 12 ins., N. and S. of
	post 5½ ft. dist., and raised a mound of earth 1½ ft.
	high, 3½ ft. base around post.
79.71	The corner to sections 15-16-21 & 22
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West 6th Principal Meridian.

Chains	North, between Sections 15 and 16. Variation 15° 15' East.
	Descend.
22.00	Cross Wash, 50 lks. wide, Course N 30 W and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
~~52.00~~	A Pine 12 ins. diam. bears S 30 E 120 lks. dist. from which marked ¼ S. B. T.
	A Pine 10 ins. diam. bears N. 41 W. 296 lks. dist. marked ¼ S. B. T.
58.00	Top of Spur, bears N. W & S. E. and descend.
71.00	Cross Wash, 40 lks. wide, Course N 50 W and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 9-10-15-16 marked T. 32 N S. 10 on N. E., R. 48 W, S. 15 on S. E., S. 16 on S. W and S. 9 on N. W. face, with 4 notches on S. and 3 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass,

Township 32 North Range 48 West 6th Principal Meridian.

Chains	East, on a random line between Sections 10 and 15. Variation 15° East.
	Descend.
20.00	Cross Wash, 100 lks. wide, Course N 10 E and ascend.
38.00	Top of Spur, bears N. & S. and descend.
57.00	Cross Wash, 60 lks. wide, Course N, and ascend.
40.00	Set temporary ¼ sec. cor.
53.00	Top of Spur, bears N. & S. and descend.
79.94	Intersect N. & S. line, 34 lks. S of cor. to secs. 10-11-14 & 15 from which corner, I run S 89°, 45' W. on a true line between sections 10 & 15 Variation 15° ~~75'~~ East.
39.97	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	A Pine 4 ins. diam. bears N 27 E 26 lks. dist. from which marked ¼ S. B. T.
	A Pine 18 ins. diam. bears S 45 W 41 lks. dist. marked ¼ S. B. T.
79.94	The corner to sections 9-10-15 & 16
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 9 and 10. Variation 18° 15' East.
	Ascend.
12.00	Top of Spur, bears NE & SW and descend.
18.00	Cross Wash, 40 lks. wide, Course N55E and ascend.
37.00	Top of Spur, bears NE, and SW, and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
54.00	Cross Wash, 50 lks. wide, Course N41E and ascend.
67.00	Top of Spur, bears N. 50 E and descend.
73.00	Cross Wash, 30 lks. wide, Course N60E and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 3-4-9-10 marked T. 32N S. 3 on N. E., R. 48W, S. 10 on S. E. S 9 on S. W and S. 4 on N. W. face, as with 5 notches on S. and 3 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass

Township 32 North Range 48 West
6th Principal Meridian.

Chains	East on a random line between Sections 3 and 10. Variation 18° 15' East.
	Descend.
20.00	Cross Wash, 50 lks. wide, Course N52E and ascend.
30.00	Top of Spur, bears NE & SW, and descend.
40.00	Set temporary ¼ sec. cor.
56.84	Cross Gulch, 40 lks. wide, Course N40E and ascend.
79.88	Intersect N. & S. line, 43 lks. S of cor. to secs. 2-3-10 & 11 from which corner, I run S 89° 42' W. on a true line between sections 3 & 10 Variation 18° 15' East.
39.94	Set a Sand stone 10 x 9 x 7 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.88	The corner to sections 3-4-9 & 10
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct. Nov. 13th 1882 D. L. Hickey.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	North, on a ~~random~~ true line between Sections 3 and 4. Variation 15° 15' East.
	Over level land
40.00	Set a Sand stone 10 x 8 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
45.00	Leave Flat bears E. and W. and ascend.
58.00	Top of Spur, bears E. and W. and descend.
75.48	Cross Gulch, 40 lks. wide, Course N. 10 W and ascend.
77.85	Intersect the 8th Standard Parallel North at a point 5.98 chs. East. of the Standard Cor. to Secs. ~~33~~ 34 and 34. T. 33 N. R. 48 W. at which point I.
	Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Secs. 3 and 4 marked C. C. T. 32 N. R. 48 W., on S. S. 3 on E. and S. 4 on W. faces, with 3 notches on E. and 3 notches on W. faces, dug pits 18 x 18 x 12 ins. S. E. & W. of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	A Pine 12 ins. diam. bears S 31° E. 98 lks. dist. from which marked T. 32 N. R. 48 W., S. 3 B. T.
	A Pine 15 ins. diam. bears S 64° W. 108 lks. dist. marked T. 32 N. R. 48 W., S. 4 B. T.
	Land 32.85 chs. Mts. and 45.00 chs. level.
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass

Township 32 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 32 and 33. Variation 18° 45' East.
	Descend.
9.00	Cross Wash, 30 lks. wide, Course W. and ascend.
40.00	Set a Sand stone 11 x 8 x 6 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
41.00	Top of Spur, bears E. and W. and descend.
50.06	Cross Wash, 40 lks. wide, Course W. and ascend.
63.00	Top of Spur, bears N. W. & S. E. and descend.
73.18	Cross Wash, 48 lks. wide, Course N 60 W and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 28-29-32-33 marked T. 32 N. S. 28 A. on N. E., R. 48 W. S. 33 on S. E., S. 32 on S. W. and S. 29 on N. W. face, with 1 notch on S. and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 28 and 33. Variation 15° 15' East.
	Ascend.
11.00	Top of Spur, bears N. W and S. E. and descend.
28.00	Cross Gulch, 14 lks. wide, Course N. W. and ascend.
40.00	Set temporary ¼ sec. cor.
43.00	Top of Spur, bears N. W & S. E. and descend.
52.18	Cross Wash, 20 lks. wide, Course N. and ascend.
63.00	Top of Spur, bears N. and S. and descend.
80.08	Intersect N. & S. line, 34 lks. S. of cor. to secs. 27-28-33-34 from which corner, I run S. 89° 37' W. on a true line between sections 28 & 33
	Variation 15° 15' East.
40.04	Set a Sand stone 10 x 10 x 6 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.08	The corner to sections 28-29-32 & 33
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 28 and 29. Variation 15° 15' East.
	Ascend.
6.00	Top of Spur, bears N.W. & S. E. and descend.
35.00	Cross Wash, 70 lks. wide, Course N70W and ascend.
38.00	Top of Spur, bears N. 60° W. and descend.
40.00	Set a Sand stone 20 x 8 x 6 ins., 15 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
45.00	Cross Wash, 30 lks. wide, Course N28W and ascend.
60.00	Top of Ridge, bears N. W & S. E. and descend.
75.00	Cross Wash, 40 lks. wide, Course N70W and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 20-21-28-29 marked T. 32N S. 21, on N. E., R. 48W, S. 28 on S. E., S. 29 on S. W. and S. 20 on N. W. face, 2 with 2 notches on S. and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	A Pine 6 ins. diam. bears N. 11½ E. from which 105 lks. dist. marked T. 32N R. 48W, S., 21 B. T.
	A Pine 18 ins. diam. bears S. 88½ E. 87 lks. dist. marked T. 32N R. 48W, S., 28 B. T.
	A Pine 12 ins. diam. bears S. 90 W. 155 lks. dist. marked T. 32N R. 48W, S., 29 B. T.
	Land mountainous. Timber of Pine,
	Soil 3rd, rate
	Vegetation Bunchgrass

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 21 and 28. Variation 15°. 30 East.
	Ascend.
3.00	*Top of Spur, bears* N. and S. *and descend.*
17.00	*Cross Wash,* 40 *lks. wide, Course* N 30 W *and ascend.*
33.00	*Top of Spur, bears* N. and S. *and descend.*
40.00	*Set temporary ¼ sec. cor.*
51.94	*Cross Wash,* 20 *lks. wide, Course* S 60 E *and ascend.*
79.90	*Intersect N. & S. line,* 40 *lks.* S. *of cor. to secs.* 21-22-27 & 28 *from which corner, I run* S 89°. 43′ *W. on a true line between sections* 21 & 28 *Variation* 15°. 30′ *East.*
39.95	*Set a post 3 ft. long, 3 ins. diam.* *12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on* N. *face, dug pits, 18 x 18 x 12 ins.,* N. *and* S. *of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.*
79.90	*A Pine* 10 *ins. diam. bears* N. 20° E. *from which* 70 *lks. dist. marked ¼ S. B. T.*
	A Pine 14 *ins. diam. bears* S 30¼ W. 42 *lks. dist. marked ¼ S. B. T.*
79.90	*The corner to sections* 20-21-28 *and* 29

Land mountainous

Soil 3rd. *rate.*

Timber of Pine

Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 20 and 21. Variation 15° 30′ East.
	Descend.
31.00	*Cross Wash,* 60 *lks. wide, Course* N 20 W *and ascend.*
39.00	*Top of Spur, bears* N. W. *and* S. E. *and descend.*
40.00	*Set a post 3 ft. long, 3 ins. diam.* *12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on* W. *face, dug pits, 18 x 18 x 12 ins.,* E. *and* W. *of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.*
	A Pine 10 *ins. diam. bears* S 80° E *from which* 24 *lks. dist. marked ¼ S. B. T.*
48.00	*Cross Wash,* 60 *lks. wide, Course* N 20 W *and ascend.*
60.00	*Top of Spur, bears* N. 20 W & S. 20 E. *and descend.*
80.00	*Set a post 4 ft. long, 4 ins. square,* *12 ins. in the ground, for Cor. to Secs.* 16-17-20-21 *marked T.* 32 N *S.* 16 *, on N. E., R.* 48 W, *S.* 21 *on S. E., S.* 20 *on S. W. and S.* 17 *on N. W. face, cs with* 3 *notch cs on S. and* 4 *notch cs on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.*
	A Pine 30 *ins. diam. bears* N 50½ E *from which* 61 *lks. dist. marked T.* 32 N *R.* 48 W, *S.,* 16 *B. T.*
	A Pine 35 *ins. diam. bears* N. 41 W. 23 *lks. dist. marked T.* 32 N *R.* 48 W, *S.,* 17 *B. T.*
	A Pine 14 *ins. diam. bears* S 45 W. 47 *lks. dist. marked T.* 32 N *R.* 48 W, *S.,* 20 *B. T.*
	Rock berry 12 *ins. diam. bears* S 30¼ E. 86 *lks. dist. marked T.* 32 N *R.* 48 W, *S.,* 21 *B. T.*

Land mountainous

Soil 3rd. *rate.*

Timber of Pine

Vegetation Bunchgrass.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	East, on a random line between Sections 16 and 21. Variation 15° 15' East.
	Ascend.
11.00	Top of Spur, bears N.W & S.E. and descend.
30.00	Cross Wash, 40 lks. wide, Course N 30W and ascend.
40.00	Set temporary ¼ sec. cor.
43.00	Top of Spur, bears N.W. & S.E. and descend.
50.84	Cross Wash, 18 lks. wide, Course N.30W and ascend.
65.40	Top of Spur, bears N.20W. S.20 E. and descend.
80.11	Intersect N. & S. line, 58 lks. S. of cor. to secs. 15-16-21 & 22 from which corner, I run S 89° 35' W. on a true line between sections 16 & 21 Variation 15° 15' East.
40.06	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	A Yellow Pine 10 ins. diam. bears N. 20° E 64 lks. dist. from which marked ¼ S. B. T.
	A Yellow Pine 6 ins. diam. bears S. 80° W 47 lks. dist. marked ¼ S. B. T.
80.11	The corner to sections 16-17-20 & 21
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 64 West
6th Principal Meridian.

Chains	North, between Sections 16 and 17. Variation 15° 15' East.
	Ascend.
32.00	Top of Spur, bears E. and W. and descend.
40.00	Set a Sand stone 14 x 10 x 8 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
53.00	Cross Wash, 40 lks. wide, Course N 20 E and ascend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 8-9-16-17 marked T. 32N S. 9 on N. E., R. 48W, S. 16 on S. E., S. 17 on S. W. and S. 8 on N. W. face, 8 with 4 notches on S. and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	A Pine 20 ins. diam. bears N. 31° E 284 lks. dist. from which marked T. 32N R. 48W, S., 9 B. T.
	A Pine 8 ins. diam. bears N. 44 W 304 lks. dist. marked T. 32N R. 48W, S., 8 B. T.
	Land Rolling.
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 9 and 16. Variation 15° 15' East.
	Ascend.
6.00	Top of Spur, bears N and S. and descend.
32.00	Cross Wash, 100 lks. wide, Course N30E and ascend.
40.00	Set temporary ¼ sec. cor.
45.00	Top of Spur, bears N. and S. and descend.
68.00	Cross Wash, 60 lks. wide, Course N. and ascend.
73.00	Top of Ridge, bears N. & S. and descend.
80.33	Intersect N. & S. line, 69 lks. / S of cor. to secs. 9-10-15 & 16 from which corner, I run S 89° 30' W. on a true line between sections 9 & 16
	Variation 18° 15' East.
40.17	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	from which A Pine 10 ins. diam. bears N. 14½ W. 50 lks. dist. marked ¼ S. B. T.
	A Pine 8 ins. diam. bears S 23° E 101 lks. dist. marked ¼ S. B. T.
80.33	The corner to sections 8-9-16 & 17
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 8 and 9. Variation 15° 15' East.
	Ascend.
5.00	Top of Spur, bears E and W. and descend.
38.00	Cross Wash, 30 lks. wide, Course N40E and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	from which A Pine 8 ins. diam. bears N 20 E 108 lks. dist. marked ¼ S. B. T.
48.00	Top of Spur, bears E, and W. and descend.
54.00	Cross Wash, 30 lks. wide, Course N 85 E and ascend.
73.00	Top of Spur, bears E, and W. and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 4-5-8-9 marked T. 32 N S. 4 on N. E., R. 48 W, S. 9 on S. E. S. 8 on S. W. and S. 5 on N. W. face, cs with 5 notches on S. and 4 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 4 and 9. Variation 15°, 15' East.
	Descend.
11.00	Cross Wash, 14 lks. wide, Course N65°E and ascend.
33.00	Top of Spur, bears N. 60° E Y S60°W and descend.
35.00	Cross Wash, 120 lks. wide, Course N75°E and ascend.
40.00	Set temporary ¼ sec. cor.
41.00	Top of Spur, bears N. 30 E. and descend.
80.12	Intersect N. & S. line, 33 lks. S. of cor. to secs. 3-4-9-10 from which corner, I run S. 89°, 36' W. on a true line between sections 4 & 9 Variation 15° 15' East.
40.06	Set a Sand stone 18 x 9 x 4 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.12	The corner to sections 4 - 5 - 8 & 9
	Land mountainous
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass,
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, on a ~~random~~ true line between Sections 4 and 5. Variation 15° 15' East.
	Descend.
7.00	Cross Wash, 30 lks. wide, Course N40°E and ascend.
33.00	Top of Spur, bears E and W. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
56.18	Cross Wash, 40 lks. wide, Course N40°E and ascend.
78.70	Intersect the 8th Standard Parallel North at a point 6.28 chs. East. of the Standard Cor. to Secs. 32 and 33 .. T. 33N. R. 48W. at which point I. Set a post, 4 ft. long, 4 ins. square, 12 ins. in the ground, for Closing Cor. to Secs. 4 and 5 marked C. C. T. 32N R. 48 W., on S S. 4 on E and S. 5 on W faces, with 4 notches on E and 2 notches on W faces, dug pits 18 x 18 x 12 ins. S E & W of post, 5½ ft. dist. and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land Rolling
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass,

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 31 and 32. Variation 18° 15' East.
	Descend.
24.00	Cross Wash, 30 lks. wide, Course N 33 W and ascend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
43.00	Top of Spur, bears N. W & S. E. and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 29-30-31-32 marked T. 32 N. S. 29, on N. E., R 48 W, S. 32 on S. E., S. 31 on S. W and S. 30 on N. W. face, with 1 notch on S. and 5 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	from which
	A Pine 12 ins. diam. bears N. 21 ½° W. 53 lks. dist. marked T. 32 N, R. 48 W, S., 30 B. T.
	A Pine 9 ins. diam. bears S. 84 W. 16 lks. dist. marked T. 32 N R. 48 W, S., 30 B. T.
	Land ~~mountainous~~ Rolling.
	Soil 2d rate.
	Timber of Pine.
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 29 and 32. Variation 18°, 15' East.
	Ascend.
34.00	Top of Spur, bears N. W. & S. E. and descend.
38.50	Cross Wash, 50 lks. wide, Course N 55 W and ascend.
40.00	Set temporary ¼ sec. cor.
44.00	Top of Spur, bears N. W. & S. E. and descend.
48.50	Cross Wash, 50 lks. wide, Course N 30 W and ascend.
60.00	Top of Spur, bears N. W. and S. E. and descend.
75.75	Cross Wash, 40 lks. wide, Course N 20 W and ascend.
80.26	Intersect N. & S. line, 45 lks. S. of cor. to secs. 28, 29, 32 & 33 ~~29-30-31 & 32~~ from which corner, I run S 89° 40' W. on a true line between sections 29 & 32
	Variation 18° ~~45'~~ 15' East.
40.13	Set a Sand stone 10 x 10 x 8 ins., 6 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
80.26	The corner to sections 29-30-31 & 32
	Land mountainous
	Soil 3d rate.
	Timber of Pine
	Vegetation Bunchgrass.
	Nov. 14th 1882.
	D. F. Hickey

Township 32 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 30 and 31. Variation 15° 15' East.
	Descend.
22.18	Cross Gulch, 40 lks. wide, Course N. and ascend.
40.00	Set temporary ¼ sec. cor.
56.00	Top of Spur, bears N. and S. and descend.
79.81	Intersect NB. of Tp. 31 lks. N. of cor. to secs. 25-30-31 & 36 from which corner, I run N 89° 47 E on a true line, between sections 30 & 31 Variation 15° 15' East.
39.54	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	A Pine 8 ins. diam. bears N. 25° E 92 lks. dist. from which marked ¼ S. B. T.
	A Pine 20 ins. diam. bears S. 45° W. 73 lks. dist. marked ¼ S. B. T.
79.37	The corner to sections 29-30-31 & 32
	Land ~~mountainous~~ Rolling.
	Soil 3rd. rate.
	Timber of Pine
	Vegetation Bunchgrass. Aug. 14th 1882 Henry J. Blanningan Compassman.

Township 32 North Range 48 West

6th Principal Meridian

Chains	North, between Sections 29 and 30. Variation 15° 15' East.
	Ascend.
23.50	Top of Spur, bears N. W. & S. E. and descend.
40.00	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	A Pine 30 ins. diam. bears S 35 W 204 lks. dist. from which marked ¼ S. B. T.
	A Pine 14 ins. diam. bears N 87 E 23 lks. dist. marked ¼ S. B. T.
32.40	Cross Wash, 90 lks. wide, Course N 20 W and ascend.
73.00	Top of Spur, bears E. and W. and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 19-20-29-30 marked T. 32 N S. 20, on N. E., R. 48 W, S. 29 on S. E., S. 30 on S. W. and S. 19 on N. W. faces with 2 notches on S. and 5 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	A Pine 30 ins. diam. bears S 80 W. 17 lks. dist. from which marked T. 32 N R. 48 W, S., 30 B. T.
	A Pine 20 ins. diam. bears N 80 W. 18 lks. dist. marked T. 32 N R. 48 W, S., 19 B. T.
	An ash 12 ins. diam. bears S 35 E 28 lks. dist. marked T. 32 N R. 48 W, S., 29 B. T.
	Elm 14 ins. diam. bears N. 36 E. 81 lks. dist. marked T. 32 N R. 48 W, S., 20 B. T.
	Land mountainous. Timber of Pine
	Soil 3rd. rate
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 20 and 29. Variation 15° 15' East.
	Ascend.
19.00	Top of Spur, bears N. and S. and descend.
28.00	Cross Wash, 40 lks. wide, Course N 35 W and ascend.
40.00	Set temporary ¼ sec. cor.
48.00	Top of Spur, bears N.W. & S.E. and descend.
53.85	Cross Wash, 35 lks. wide, Course N. 30 W and ascend.
63.40	Top of Ridge, bears N.W. & S.E. and descend.
77.96	Cross Wash, 45 lks. wide, Course N 25 W and ascend.
80.05	Intersect N. & S. line, 64 lks. S. of cor. to secs. 20-21-28 & 29 from which corner, I run S 89° 33' W. on a true line between sections 20 & 29 Variation 15° 15' East.
40.03	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
80.05	The corner to sections 19-20-29 & 30
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass. Nov. 14th 1882 D. S. Hickey

Township 32 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 19 and 30. Variation 16° 00' East.
	Descend.
7.08	Cross Wash, 83 lks. wide, Course N 25 W and ascend.
40.00	Set temporary ¼ sec. cor.
48.40	Top of Ridge, bears N 30 W & S 30 E and descend.
59.93	Cross ~~Wash~~ Chadron Cr. (dry) 110 lks. wide, Course N 25 W and ascend.
79.46	Intersect W. B. of Tp. 59 lks. N. of cor. to secs. 19-30-24-25 from which corner, I run N 89° 35' E on a true line between sections 19 & 30' Variation 16.00 East.
39.46	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
79.46	The corner to sections 19-20-29 & 30
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.
	I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct. Nov. 14th 1882 Harry J. Manning Compassman.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 19 and 20. Variation 18° 15' East.
	Ascend.
4.00	*Top of Spur, bears* N.W. + S.E. *and descend.*
10.50	*Cross Wash,* 50 *lks. wide, Course* N50W *and ascend.*
38.00	*Top of Spur, bears* E. and W. *and descend.*
40.00	*Set a* Sime *stone* 10 x 10 x 6 *ins.,* 6 *ins. in the ground, for* ¼ *Sec. Cor., marked* ¼ *on* W. *face, dug pits,* 18 x 18 x 12 *ins.,* E. *and* W. *of stone* 5½ *ft. dist., and raised a mound of earth* 1½ *ft. high,* 3½ *ft. base.*
77.25	*Cross Wash,* 100 *lks. wide, Course* W. *and ascend.*
80.00	*Set a* Sand *stone* 12 x 8 x 5 *ins.* 8 *ins. in the ground for Cor. to Secs.* 17-18-19-20 *marked with* 3 *notches on S. and* 5 *notches on E. edges, dug pits* 18 x 18 x 12 *ins. in each Sec.,* 5½ *ft. dist., and raised a mound of earth* 2 *ft. high* 4½ *ft. base.*
	Land mountainous
	Soil 3rd. *rate.*
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 17 and 20. Variation 15° 15' East.
	Ascend.
28.80	*Top of Spur, bears* N.W. + S.E. *and descend.*
35.00	*Cross Wash,* 20 *lks. wide, Course* N20W *and ascend.*
40.00	*Set temporary* ¼ *sec. cor.*
44.50	*Top of Spur, bears* N.W + S.E. *and descend.*
58.60	*Cross Wash,* 30 *lks. wide, Course* N40W *and ascend.*
67.50	*Top of Spur, bears* N.W. *and* E *and descend.*
79.89	*Intersect N. & S. line,* 32 *lks.* S *of cor. to secs.* 17-16-20-21 *from which corner, I run* S89° 46' W. *on a true line between sections* 17 + 20 *Variation* 15° ~~25'~~ 15' *East.*
39.95	*Set a* Sand *stone* 20 x 18 x 10 *ins.,* 15 *ins. in the ground, for* ¼ *Sec. Cor., marked* ¼ *on* W. *face, dug pits,* 18 x 18 x 12 *ins.,* N. *and* S. *of stone* 5½ *ft. dist., and raised a mound of earth* 1½ *ft. high,* 3½ *ft. base.*
79.89	*The corner to sections* 17-18-19+20
	Land mountainous
	Soil 3rd *rate.*
	Timber of Pine
	Vegetation Bunchgrass.
	Nov. 14th 1882
	D. L. Hickey.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	West, on a random line between Sections 18 and 19. Variation 15° 15' East.
	Descend.
8.00	Cross Gulch, 100 lks. wide, Course N.80° W, and ascend.
25.00	Top of Spur, bears N.80° W & S80 E and descend.
40.00	Set temporary ¼ sec. cor.
63.94	Cross ~~Wash~~ Shadron Cr. (dry), 60 lks. wide, Course N50W and ascend.
79.42	Intersect W.B. of Tp. 41 lks. N. of cor. to secs. 18-19-13-24 from which corner, I run N88°42'E on a true line, between sections 18 & 19 Variation 15° ~~20'~~ 15' East.
39.42	Set a Sand stone 18 x 14 x 9 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.42	The corner to sections 17-18-19 & 20
	Land hilly.
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass
	Nov. 14th 1882
	Henry J. Manning
	Compassman.

Township 32 North Range 48 West
6th Principal Meridian.

Chains	North, between Sections 17 and 18. Variation 15° 15' East.
	Ascend.
10.60	Top of Spur, bears N.W. & S.E. and descend.
22.00	Cross Wash, 50 lks. wide, Course N45W and ascend.
40.00	Set a Sand stone 18 x 10 x 8 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
41.35	Top of Spur, bears E. & W. and descend.
57.00	Cross Wash, 20 lks. wide, Course N50W and ascend.
75.00	Top of Spur, bears E. and W. and descend.
80.00	Set a post 4 ft. long, 4 ins. square, 12 ins. in the ground, for Cor. to Secs. 7-8-17-18 marked T. 32N S. 8, on N. E., R. 48W, S. 17 on S. E., S. 18 on S. W. and S. 7 on N. W. face, cs with 4 notch cs on S. and 5 notch cs on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base around post.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

		from which
A Pine 30 ins. diam. bears N. 22 W. marked T. 32N R. 48W, S., 7 B.T.		40 lks. dist.
A Pine 18 ins. diam. bears N 75 E marked T. 32 N R. 48W, S., 8 B.T.		38 lks. dist.
A Pine 45 ins. diam. bears S 45 E marked T. 32N R. 48W, S., 17 B.T.		38 lks. dist.
A Pine 8 ins. diam. bears S 22 W marked T. 32N R. 48W, S., 18 B.T.		98 lks. dist.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 8 and 17. Variation 18° 15' East.
	Descend.
2.00	Cross Wash, 40 lks. wide, Course N 35 W and ascend.
10.00	Top of Spur, bears N.W & S.E and descend.
28.00	Cross Wash, 30 lks. wide, Course N 45 W and ascend.
40.00	Set temporary ¼ sec. cor.
52.80	Top of Spur, bears N. & S. and descend.
80.22	Intersect N. & S. line, 49 lks. S of cor. to secs. 8-9-16-17 from which corner, I run S 88° 39' W. on a true line between sections 8 & 17 Variation 15° ~~15~~ East.
40.11	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
	A Pine 8 ins. diam. bears N 33 E 47 lks. dist. from which marked ¼ S. B. T.
	A Pine 20 ins. diam. bears S. 15° W. 34 lks. dist. marked ¼ S. B. T.
80.22	The corner to sections 7-8-17 & 18
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass. Nov. 14th 1882
	D. L. Hickey.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 7 and 18. Variation 15°. 15' East.
	Ascend.
1.50	Top of Spur, bears N.W & S.E, and descend.
19.80	Cross Wash, 40 lks. wide, Course N.W and ascend.
23.00	Top of Spur, bears N.W. & S.E and descend.
40.00	Set temporary ¼ sec. cor.
57.62	Cross Wash, 35 lks. wide, Course N 35 W and ascend.
65.40	Top of Spur, bears N.W. & S.E and descend.
79.38	Intersect W. B. of Tp. 63 lks. N. of cor. to secs. 7-18-12-13 from which corner, I run N 89° 35' E on a true line, between sections 7 & 18 Variation 15° ~~30~~ 15' East.
39.38	Set a Sand stone 13 x 9 x 9 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
79.38	The corner to sections 7-8-17 & 18
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass
	Nov. 14th 1882
	Harry J. Manning Compassman.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, between Sections 7 and 8. Variation 18° 38'
	Descend.
7.35	Cross Wash, 50 lks. wide, Course N 30 W and ascend.
35.00	Top of Spur, bears N. 30 W and descend.
37.20	Cross Wash, 35 lks. wide, Course N 30 W and ascend.
40.00	Set a Sand stone 18 x 16 x 10 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist. and raised a mound of earth 1½ ft. high, 3½ ft. base.
	A Pine 20 ins. diam. bears N 35° E 85 lks. dist. from which marked ¼ S. B. T.
	A Pine 6 ins. diam. bears S. 23° W 40 lks. dist. marked ¼ S. B. T.
41.00	Cross Wash, 37 lks. wide, Course N 40 W and ascend.
47.00	Top of Spur, bears N.W. & S.E. and descend.
61.00	Cross Wash, 15 lks. wide, Course N 35 W and ascend.
80.00	Set a Sand stone 10 x 10 x 8 ins. 6 ins. in the ground for Cor. to Secs. 5-6-7-8 marked with 5 notches on S. and 5 notches on E. edges and raised a mound of stone. Pits impracticable.
	Land mountainous
	Soil 3rd rate.
	Timber of Pine
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	East, on a random line between Sections 5 and 8. Variation 18° 15' East.
	Ascend.
14.00	Top of Spur, bears N.W. & S.E. and descend.
21.00	Cross Wash, 30 lks. wide, Course N. 45 W and ascend.
31.00	Top of Spur, bears N.W. & S.E. and descend.
40.00	Set temporary ¼ sec. cor.
45.34	Cross Wash, 30 lks. wide, Course N 50 W and ascend.
58.00	Top of Spur, bears N. and S. and descend.
80.18	Intersect N. & S. line, 66 lks. S of cor. to secs. 4-5-8-9 from which corner, I run S 89° 32' W. on a true line between sections 5-7-8 Variation 18° 45' East.
40.09	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
80.18	The corner to sections 5-6-7-8
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Nov. 14th 1882

D. F. Hickey.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	West, on a random line between Sections 6 and 7. Variation 15°, 35' East.
	Descend.
12.00	Cross Wash, 40 lks. wide, Course N30W and ascend.
27.00	Top of Hill bears N. W. and descend.
35.18	Cross Wash, 80 lks. wide, Course N35W and ascend.
40.00	Set temporary ¼ sec. cor.
62.00	Top of Ridge, bears N.W. and S.E and descend.
80.13	Intersect W. B. of Tp. 72 lks. N. of cor. to secs. 6-7-1-12 from which corner, I run N89°29' E on a true line, between sections 6 & 7 Variation 15° ~~30~~ 35' East.
40.13	Set a post 3 ft. long, 3 ins. diam. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base around post.
80.13	The corner to sections 5-6-7 & 8
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

Township 32 North Range 48 West

6th Principal Meridian.

Chains	North, on a ~~random~~ true line between Sections 5 and 6. Variation 15° 35' East.
	Ascend.
10.00	Top of Spur, bears N.W. & S.E and descend.
23.00	Cross Wash, 30 lks. wide, Course N20W and ascend.
40.00	Set a Sand stone 12 x 10 x 8 ins., 8 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base.
53.00	Top of Spur, bears N.W. and E and descend.
79.41	Intersect the 58th Standard Parallel North at a point 5.41 chs. East. of the Standard Cor. to Secs. 32 and 33. T. 88N. R. 48W. at which point I.
	Set a Sand stone 12 x 10 x 8 ins. 8 ins. in the ground for Closing Cor. to Secs. 5 and 6 marked C. C. with 5 notches on E. and 1 notch on W. edges, dug pits 18 x 18 x 12 ins. S. E., and W. of stone, 5½ ft. dist., and raised a mound of earth 2 ft. high, 4½ ft. base.
	Land mountainous.
	Soil 3rd rate
	Vegetation Bunchgrass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct. Nov. 14th 1882.

Henry J. Manning Compassman.

GENERAL DESCRIPTION.

This Township is composed of mountainous land
The soil is generally 2nd and 3rd rate
There are several fine streams of running water which furnish abundant supply throughout the season
There is much fine Pine timber and Cottonwood along the Creeks
The pine timber is valuable for lumber and fencing

List of Names.

A List of the Names of the individuals employed to assist in running, measuring, or marking the lines and corners described in the foregoing Field Notes of the subdivision lines of Tps 30 N Rs 48 & 49 W and Tps 31 & 32 N. Rs 46. 47 & 48 W 6th P.M

showing the respeceive capacities in which they acted.

Henry J. Manning — *Compassman.*
F. Chandler — *Chainman.*
Henry Herzog — *Chainman.*
John Lennox — *Axeman.*
F. Brockerman — Mountmall

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Final Oath of Assistants.

We hereby certify that we assisted D. F. Vickey Deputy Surveyor, in surveying the subdivision lines of Tps 30 N, Rs 48 & 49 W and Tps 31 & 32 N R's 46, 47 & 48 W 6th P. M

and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the boundary monuments planted according to the instructions furnished by the Surveyor-General.

Henry J. Manning
F. Chandler
Henry Herzog
H. Brockerman
John Lennox

Subscribed and sworn to, before me, this 18th day of Nov 188 2

C. F. Putnam
NOTARY PUBLIC.

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Final Oath of Deputy Surveyor.

I, D. F. Vickey Deputy Surveyor do solemnly swear, that, in pursuance with a contract with Geo. S. Smith United States Surveyor-General for ~~California~~ Nevada and Arizona, bearing date the 10th day of November 1881 I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the Surveyor-General, the Surveying Manual, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of Tps 30 N. Rs 48 & 49 W & Tps 31 & 32 N Rs. 46, 47 & 48 W 6th P. M

as are represented in the foregoing Field Notes as having been

surveyed under my direction; and I do further solemnly swear that all the corners of said surveys have been established and perpetuated in strict accordance with the Surveying Manual and printed instructions, and that the foregoing are the true and original Field Notes of such Survey. Should any fraud be detected I will suffer the penalty of perjury under the provisions of an act of Aug. approved Aug. 8. 1846

C. T. Hickey

U. S. Deputy Surveyor.

Subscribed and sworn to, before me, this 18th *day of* November *188*2

C. F. Putnam

NOTARY PUBLIC.

U. S. Surveyor General's Office.

Plattsmouth, Neb. 1883

The foregoing Field Notes of the Retracings, and surveys of the Sub-division lines of Township No. 32 North, of Range No. 48 West of the Principal Base and Meridian in the State of Neb. executed by D. F. Hicks U. S. Deputy Surveyor, under his contract, dated Nov 10, 1881, in the Mo. of Nov. 1882 having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

L D V Stephenson
U. S. Surveyor-General for

General Land Office • Original Field Notes

Book Number

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The images in this file are photographs of the notes of the original surveys of the State of Nebraska on file in the Office of the Nebraska State Surveyor located in Lincoln, Nebraska.

The original surveys in Nebraska began in the mid 1850's and were completed in the mid 1880's. The Nebraska office of the Surveyor General was closed June 30, 1886.