

1937

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1937

Navajo Indian Reservation.

Field Notes of the First Guide Meridian from South Boundary to the First Standard Parallel and the First Standard Parallel from the East to the West Boundary of the Navajo Indian Reservation, surveyed under the directions of the Hon. Jas. S. Wilson, Commissioner of the General Land Office, by E. A. Darling, U.S. Surveyor, under his contract, dated Washington D.C. April 29<sup>th</sup> 1869.

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Commenced August 24<sup>th</sup> and completed September 10<sup>th</sup> 1869.

Names of Assistants.

- George A. Pratt Compassman
- Walter G. Marnon, } Chainmen.
- Joseph Pierheller }
- Alex. Douglass, } Cornermen.
- Juan Martin }

Measuring chain compared with Standard and found correct.

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Field notes of the First Guide Meridian from South Boundary of Navajo Indian Reservation, between Ranges 8 and 9.

North between Secs. 31 and 36.

Var. 15° East

40.00 Set charred post and built mound, for 1/4 sec. corner, as per instructions.

56.50 Trail, bears N.E. and S.W.

80.00 Deposited marked stone, set charred post, marked, built mound and dug pits, as per instructions, for the corner to Secs. 25, 30, 31 and 36.

Surface rolling, covered with Pinon and Yellow Pine, 2<sup>nd</sup> rate, Soil 2<sup>nd</sup> rate.

North between Secs. 25 and 30.

Var. 15° East

16.25 Trail, bears N.E. and S.W.

40.00 Set charred post and built mound for 1/4 sec. corner as per instructions.

80.00 Deposited marked stone, set charred post, marked, built mound and dug pits, as per instructions, for the corner to Secs. 19, 24, 25 and 30.

Surface rolling, covered with Cedar and Pinon 3<sup>rd</sup> rate soil 2<sup>nd</sup> rate.

North between Secs. 19 and 24.

Var. 15° East.

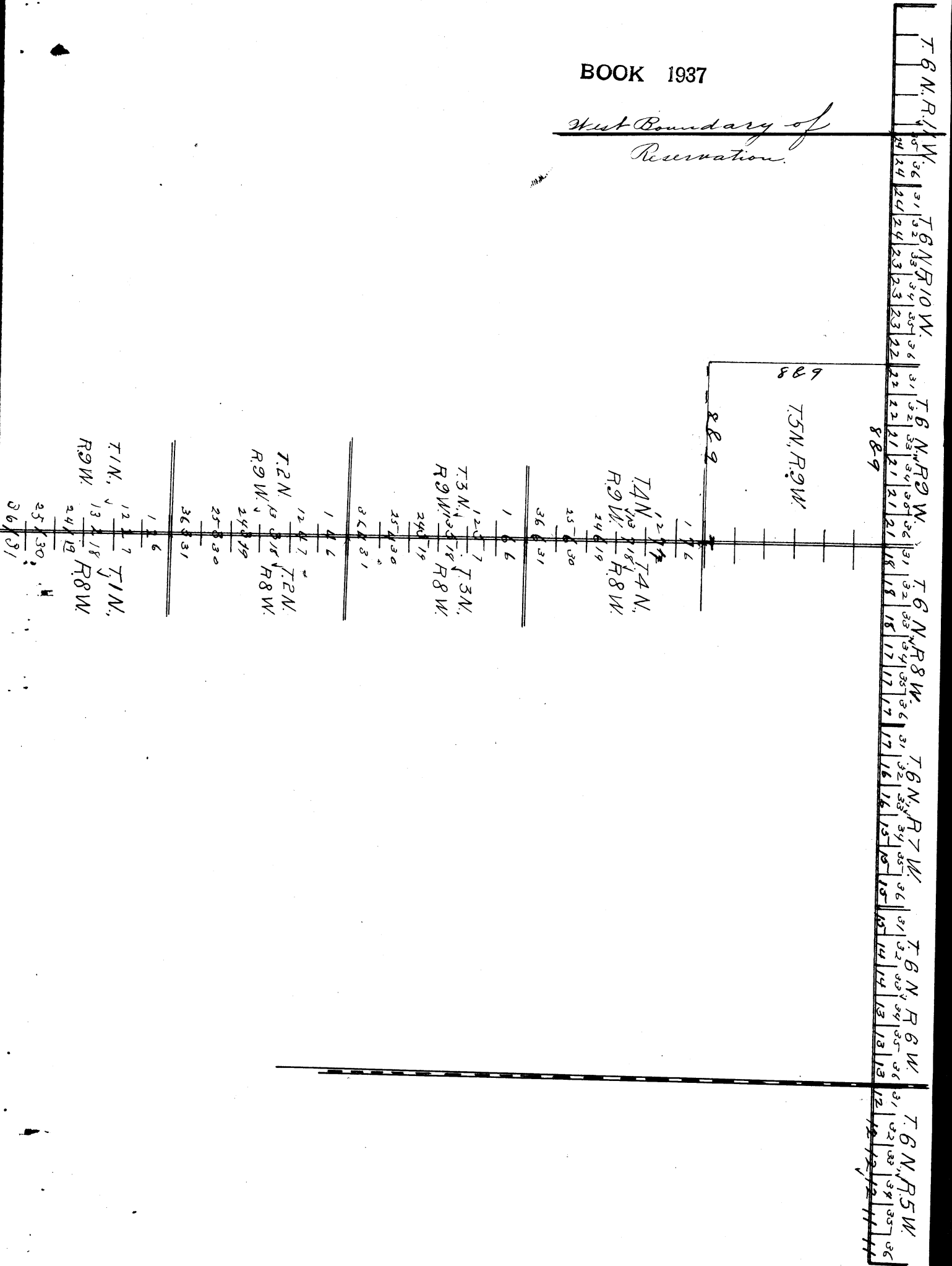
40.00 Set charred post and built mound for 1/4 sec. corner, as per instructions.

69.00 Dry Creek, course S.W.

80.00 Set sand stone, 18 x 12 x 4, marked as per instructions.

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West Boundary of Reservation.



chains

for the corner to secs. 13, 18, 19 and 24.  
Surface rolling, covered with cedar  
and Pinon, 3 $\frac{1}{2}$  rate, Soil 2 $\frac{1}{2}$  rate.

North between Secs. 13 and 18,

Var. 15 $^{\circ}$  East

40.00 Set sand stone, 20 x 12 x 3. for  $\frac{1}{4}$  Sec.  
corner, as per instructions.

80.00 Deposited marked stone, set  
charred post, marked, built  
mound and dug pits, as per  
instructions, for the corner to  
secs. 7, 12, 13 and 18.

Surface broken, covered with cedar  
and Pinon, 3 $\frac{1}{2}$  rate, Soil 3 $\frac{1}{2}$  rate.

North between Secs. 7 and 12,

Var. 15 $^{\circ}$  05' East.

40.00 Set sand stone, 18 x 16 x 4. for  $\frac{1}{4}$  Sec.  
corner, as per instructions.

80.00 Set sand stone, 18 x 10 x 3. marked as  
per instructions, for the corner to  
Secs. 1, 6, 7 & 12.

Surface broken, covered with  
cedar and Pinon, 3 $\frac{1}{2}$  rate, Soil 3 $\frac{1}{2}$  rate.

North between Secs. 1 and 6.

Var. 18 $^{\circ}$  6.

7.00 Cañon. course west

34.80 Leave Cañon.

40.00 Set sand stone, 20 x 10 x 6. for  $\frac{1}{4}$  Sec.  
corner, as per instructions.

80.00 Set sand stone, 16 x 13 x 4. marked  
as per instructions, and built  
mound of stone around same,  
for the corner to Townships 1 & 2  
North, Ranges 8 and 9 west.  
Surface rolling, covered with cedar  
and Pinon, 3 $\frac{1}{2}$  rate, Soil 2 $\frac{1}{2}$  rate.

Field notes of the First Guide Meridian, from South

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Chains

pp. 2 & 3  
North between Sections 31 and 36.  
Var. 15° East

40.00 Set charred post and built mound for  $\frac{1}{4}$  Sec. corner, as per instructions.  
80.00 Set sand stone, 18 x 14 x 4, marked as per instructions, for the corner to Secs. 25, 30, 31 and 36.  
Surface rolling, covered with cedar and Pinon, 3 $\frac{1}{4}$  rate, Soil 3 $\frac{1}{4}$  rate.

North between Secs. 25 and 30.  
Var. 13° 25' East.

40.00 Set sand stone, 16 x 14 x 3, for  $\frac{1}{4}$  Sec. corner, as per instructions.  
80.00 Set sand stone, 16 x 12 x 3, marked as per instructions, for the corner to Secs. 19, 24, 25 and 30.  
Surface rolling, covered with cedar and Pinon, 3 $\frac{1}{4}$  rate, Soil 3 $\frac{1}{4}$  rate. August 24<sup>th</sup> 1889.

Measuring chain compared with Standard and adjusted.

North between Secs. 19 and 24.  
Var. 15° 25' East.

40.00 Set sand stone, 12 x 10 x 9, for  $\frac{1}{4}$  Sec. corner, as per instructions.  
80.00 Set sand stone, 16 x 14 x 4, marked as per instructions, for the corner to Secs. 13, 18, 19 and 24.  
Surface rolling. Scattering cedar and Pinon, 3 $\frac{1}{4}$  rate, Soil 3 $\frac{1}{4}$  rate.

North between Secs. 13 and 18.  
Var. 15° 15' East.

40.00 Set charred post and built mound for  $\frac{1}{4}$  Sec. corner, as per instructions.  
61.00 Ravine . 2 chs. wide, bears west.  
80.00 Set sand stone, 20 x 12 x 3, marked as per instructions, for the cor.

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to secs. 7, 12, 13 and 18.

Surface rolling, scattering cedar  
and Pinon, 3 $\frac{1}{4}$  rate. Soil 3 $\frac{1}{4}$  rate.

North between Secs. 7 and 12.

Var. 15 $^{\circ}$  East.40.00 Set sand stone, 18 x 16 x 4, for  $\frac{1}{4}$  Sec. Cor.  
as per instructions.80.00 Set sand stone, 18 x 10 x 3 marked  
as per instructions, for the  
corner to secs. 1, 6, 7 and 12.  
Surface broken, scattering Pinon  
and cedar, 3 $\frac{1}{4}$  rate. Soil 3 $\frac{1}{4}$  rate.

North between Secs. 1 and 6.

Var. 15 $^{\circ}$  East.40.00 Set sand stone, 12 x 10 x 6, for  $\frac{1}{4}$  Sec. Cor.  
as per instructions.80.00 Set sand stone, 18 x 14 x 4, marked  
as per instructions, for the corner  
to Townships 2 and 3 north, Ranges  
8 and 9 west.Surface broken. Scattering Pinon,  
3 $\frac{1}{4}$  rate, Soil 3 $\frac{1}{4}$  rate.

Twp. 3 N

North between Secs. 31 and 36.

Var. 15 $^{\circ}$  East40.00 Set charred post and built mound  
for  $\frac{1}{4}$  Sec. corner, as per instructions.80.00 Set sand stone, 18 x 12 x 4, marked as  
per instructions for the corner to  
Sections 25, 30, 31 and 36.Surface rolling. Scattering  
cedar and Pinon. 3 $\frac{1}{4}$  rate.  
Soil 3 $\frac{1}{4}$  rate.

North between secs. 25 and 30.

Var. 15 $^{\circ}$  East40.00 Set sand stone, 16 x 14 x 3, for  $\frac{1}{4}$

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80.00

See corner, as per instructions.  
Set sand stone, 18 x 12 x 3. marked as  
per instructions, for the corner to  
secs. 19, 24, 25 and 30.  
Surface rolling. Scattering cedar  
and Pinon, 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate.

North between Secs. 19 and 24,  
Var. 15° East

40.00

Set sand stone, 16 x 10 x 4, for §  
See, corner, as per instructions.

80.00

Set sand stone, 16 x 14 x 4, marked  
as per instructions, for the corner  
to Secs. 13, 18, 19 and 24.

Surface rolling. Scattering  
cedar and Pinon, 3<sup>rd</sup> rate.  
Soil 3<sup>rd</sup> rate.

North between Secs. 13 and 18,  
Var. 15° 15' East

40.00

Set charred post and built mound  
for § See, corner, as per  
instructions.

60.00

Ravine, bears West

63.00

Leave same

80.00

Set sand stone, 24 x 8 x 3. marked  
as per instructions, for the corner  
to Secs. 8, 12, 13 and 18.

Surface rolling. Scattering  
cedar and Pinon, 3<sup>rd</sup> rate.  
Soil 3<sup>rd</sup> rate.

North between Secs. 7 and 12,  
Var. 15° 25' E.

40.00

Marked sand stone, 72 x 24 x 24  
for § See, corner, as per in-  
structions.

80.00

Set sand stone, 14 x 12 x 4, marked  
as per instructions, for the  
corner to Secs. 1, 6, 7 and 12.  
Surface rolling. Scattering

Boundary of Navajo Indian Reservation, Between Ranges 8 and 9.

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Cedar and Pinon, 3<sup>rd</sup> rate. Soil 2<sup>nd</sup> rate.  
August 25<sup>th</sup> 1869.

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North between Secs. 1 and 6.

Var. 15° 25' E.

40.00 Set sand stone, 10 x 10 x 6. for  $\frac{1}{4}$  Sec. corner, as per instructions.

35.00 Ravine, bears west.

36.50 Leave same.

80.00 Deposited marked stone, set charred post, marked, built mound and dug pits, as per instructions, for the corner to Townships 3 and 4 North, Ranges 8 and 9 West. Surface rolling, Cedar and Pinon, 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate.

North between Secs. 31 and 36. N. 91° E.

40.00 Set sand stone, 16 x 12 x 10. for  $\frac{1}{4}$  Sec. corner, as per instructions.

80.00 Set sand stone, 14 x 8 x 6, marked as per instructions, for the cor. to Secs. 28, 30, 31 and 36.

Surface rolling. Scattering Cedar and Pinon, 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate.

North between Secs. 28 and 30.

Var. 15° 25' E.

12.50 Ravine, 150 chs. wide, course west

40.00 Set sand stone, 17 x 10 x 4, for  $\frac{1}{4}$  Sec. corner as per instructions.

80.00 Set sand stone, 16 x 10 x 4, marked as per instructions, for the cor. to Secs. 19, 24, 28 and 30.

Surface rolling. Scattering Cedar and Pinon, 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate.

North between Secs. 19 and 24.

Var. 15° 25' E.



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Chama  
40.00

Set charred post and built mound for 4 sec. corner, as per instructions.

80.00

Deposited marked stone, set charred post, marked, built mound and dug pits, as per instructions, for the corner to Secs. 13, 18, 19 & 24. Surface rolling. Scattering cedar and Pinon, 3<sup>rd</sup> rate. Soil 2<sup>nd</sup> rate.

North between Secs. 13 and 18.  
Var. 15° 20' East

40.00

Set charred post and built mound for 4 sec. corner, as per instructions.

51.40

Trail, leading from Cañon "de Chille" to Cañon "Bonita", bears N.W. and S.E.

80.00

Deposited marked stone, set charred post, marked, built mound and dug pits, as per instructions, for the corner to Secs. 7, 12, 13 and 18.

Surface rolling. Scattering cedar and Pinon, 3<sup>rd</sup> rate. Soil 2<sup>nd</sup> rate.

North between Secs. 7 and 12.

Var. 15° 20' East

40.00

Set charred post and built mound for 4 sec. corner, as per instructions.

80.00

Deposited marked stone, set charred post, marked, built mound and dug pits, as per instructions, for the corner to Secs. 1, 6, 7 & 12. Surface rolling. Scattering cedar and Pinon, 3<sup>rd</sup> rate. Soil 2<sup>nd</sup> rate.

North between Secs. 1 and 6.

Var. 15° 20' E.

40.00

Set sand stone, 16 X 12 X 3. for 4

Chains

80.00

see corner, as per instructions.  
Set sand stone, 18x16x9, marked as per instructions, for the corner to Townships 4 and 5 North, Ranges 8 and 9 West.

Surface rolling. Scattering beds and Piron, 3 Varate, Soil 2 drate.  
August. 26<sup>th</sup> 1869.

Measuring chain compared with standard and found correct.

North between Secs. 30 and 36.  $\frac{1}{4}$  S W  
Var. 15° 20' East.

17.00 Cañon, course West.

From this point to the First Standard Parallel, it is impossible to project the line, on account of the deep and precipitous cañons intervening. I therefore offset West 6 miles, thence North 5 miles. 62.50 chains, to First Standard Parallel, thence East 5 miles and 40 chains to Cañon "de Chille". Chelly

I set flag on opposite side of cañon, thence North from point of intersection of cañon, 20 chs and 35 lks.

Flag bears S. 77° 30' East.

From a point 30.70 chains North, flag bears S. 71° 30' East. Therefore the distance by first computation is

91.77 chains, and the distance by second computation 91.75 chains, the mean distance being 91.76 chs.

I set Witness corner at point of intersection of cañon, marked flat rock and built mound of stone.

The closing corner on First Standard Parallel of Township 5 North, Ranges 8 and 9 West

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will be in "Cañon De Chille" just North of the forks of cañon, and 4 chains East of the point of intersection. Cañon "De Chille" at this point is 1100 feet in depth, and nearly perpendicular sand stone sides. There is a small stream passing through the cañon.

It is impossible to descend into cañon "De Chille" at any place near this point, & therefore proceeded to the East side of same, at the point where flag was set on Parallel, said point being 51.76 chains East of place for closing corner on First Guide Meridian, making an allowance for offset west from closing corner of 20 chains, to standard corner to Township 6 North, Ranges 8 and 9 West, the said point where flag was set, on East side of cañon, would be 71.76 chains East of Standard Corner.

I therefore set a witness corner on edge of cañon. Built mound of stone, in which set sand stone, 16 x 10 x 4, marked "w. 6".

Thence East on Random on First Standard Parallel, on South Boundary of Township 6 North, Ranges 8, 7, 6, 5, 4, 3, 2, and 1 West. At 8.24 chains set temporary section corner.

From this point setting temporary <sup>and Sec.</sup> corners at every 40 and 80 chains Var. from 15° to 13° 45' E.

At 47 miles, 57 chains 75 lks. intersect East Boundary of Navajo Indian Reservation, 3.10 chains South of corner to

Boundary of the Navajo Indian Reservation. between  
Ranges 8 and 9.

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Townships 5 and 6 North, Range 1  
West of the Navajo Special Meridian.  
The correction therefore will be  
64 lbs north and 1.49 lbs, West per  
mile.

August 28<sup>th</sup> 1869.

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Field notes of the First Standard Parallel from

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x	x	x	x	x	x	x
x	x	x	x	x	x	x
x	x	x	x	x	x	x
x	x	x	x	x	x	x
x	x	x	x	x	x	x

Chains... Township 6 North Range 5 West  
 West on South Boundary of Sec. 36.  
 Ra. 14° 12' E.

- 30.00 Yellow Pine. 20 inches in dia. on edge of Cañon. Course of Cañon is South.
- 40.00 Place for 1/4 Sec. corner on side of Cañon. Impossible to establish same.
- 64.00 Leave Cañon. Course North.
- 80.00 Set Sand Stone 18 x 16 x 4 marked "S, C" for corner to Secs. 35 and 36.  
 White Pine 18 inches in diameter, bears dr. 16° E. 68 links.  
 Surface broken and rocky.  
 Covered with fine Pine timber  
 1st rate. Soil 3rd rate.

40.00 West on South Boundary of Sec. 35. Ra. 14° 15' E.  
 Set Sand Stone. 16 x 12 x 4. marked "S, C" for 1/4 Sec corner, as per instructions

Navajo Special Meridian to First Guide Meridian.

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80.00 Set sand stone, 14 x 14 x 3, marked "S.C." for the corner to Secs. 34 and 35. Surface broken, covered with Pine Timber, 1<sup>st</sup> rate, Soil 2<sup>nd</sup> rate.

West on South Boundary of Sec. 34.  
Var. 14° 15' E.

40.00 Set sand stone, 18 x 10 x 10, marked "S.C." for  $\frac{1}{4}$  Sec. corner, as per instructions.

80.00 Set sand stone, 16 x 12 x 4, marked "S.C." for the corner to Secs. 33 and 34. Surface mountainous, covered with Pine and Aspen, 2<sup>nd</sup> rate, Soil 2<sup>nd</sup> rate.

West on South Boundary of Sec. 33.  
Var. 14° 15' E.

40.00 Set sand stone, 20 x 12 x 4, for  $\frac{1}{4}$  sec. corner, as per instructions.

80.00 Set sand stone, 14 x 12 x 4, marked "S.C." for the corner to Secs. 32 and 33.

Surface of first half broken and stony, of the second half rolling, covered with Pine and Aspen timber, 2<sup>nd</sup> rate, Soil 2<sup>nd</sup> rate. September, 6<sup>th</sup>, 1869.

West on South Boundary of Sec. 32.  
Var. 14° 15' E.

22.00 Descend Janicha mountains.

40.00 Set sand stone, 18 x 12 x 4, marked "S.C." for  $\frac{1}{4}$  Sec. corner, as per instructions.

80.00 Set sand stone, 18 x 10 x 8, marked "S.C." for the corner to Secs. 31 and 32. Surface mountainous, covered with Pine timber, 2<sup>nd</sup> rate, Soil 3<sup>rd</sup> rate.

West on South Boundary of Sec. 31.  
Var. 14° 15' E.

40.00 Set sand stone, 14 x 14 x 4, marked

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76.60  
80.00

"S.C." for  $\frac{1}{4}$  Sec. corner, as per instructions.  
Foot of mountains, course north and S.  
Set sand stone, 18 x 12 x 4, marked "S.C."  
for the corner to Township north,  
Ranges 5 and 6 west.  
Surface mountainous, covered with pine  
timber, 2<sup>nd</sup> rate. Soil 3<sup>rd</sup> rate.

Township 6 North. Range 6 west.  
West on South Boundary of Sec. 36  
Var. 14<sup>2</sup> 15' E.

30.00  
40.00  
77.50  
80.00

Foot of Peak, bears North and South.  
Impracticable to establish  $\frac{1}{4}$  Sec. Cor.  
Foot of Peak, bears North and South.  
Set sand stone, 20 x 12 x 3, marked "S.C."  
for the corner to Secs. 35 and 36.  
Surface mountainous, covered with  
Pinon and Cedar, 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate.

West on South Boundary of Sec. 35.  
Var. 14<sup>2</sup> 15' East

40.00  
73.00  
80.00

Set sand stone, 20 x 18 x 3, marked  
"S.C." for  $\frac{1}{4}$  Sec. corner, as per  
instructions.  
Scattering white and yellow pine  
timber, bears north and south.  
Set sand stone, 28 x 10 x 10, marked "S.C."  
for the corner to Secs. 34 and 35.  
Surface rolling, covered with  
oak brush, pinon and pine, 3<sup>rd</sup> rate.  
Soil 3<sup>rd</sup> and 1<sup>st</sup> rate.

West on South Boundary of Sec. 34.  
Var. 14<sup>2</sup> 18' E.

8.00  
17.00  
22.00  
40.00

Descend ledge, bears north & south.  
Foot of slope, bears north & south.  
Leave timber and enter prairie.  
Set sand stone, 30 x 22 x 6,  
marked "S.C." for  $\frac{1}{4}$  Sec. Cor.

Navajo Special Meridian to First Guide Meridian.

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as per instructions.  
53.00 Trail to Cañon De Chille, bears N + S.  
80.00 Deposited marked stone, set charred post, marked "S.C." built mound and dug pits on the North, East and West sides, ten links from base of mound, for the corner to Secs. 33 and 34.  
Surface rolling, mostly prairie.  
Soil 2<sup>nd</sup> rate.

West on South Boundary of Sec 33.  
Var. 142° 18' E.  
40.00 Set sand stone, 38 x 26 x 8, marked "S.C." for 1/4 Sec, corner, as per instructions.  
56.00 Descend high bank, bears N.E. + S.W.  
58.50 Bottom of bank and enter creek, course S.W.  
60.50 Leave creek, clear water, gentle current and sandy bottom.  
80.00 Set sand stone, 20 x 14 x 4, marked "S.C." for the corner to Secs 32 + 33.  
Surface rolling, Prairie. Soil 2<sup>nd</sup> rate.  
September, 7<sup>th</sup> 1869.

Measuring chain compared with Standard and adjusted.  
West on South Boundary of Sec. 32.  
Var. 142° 18' E.  
marked "S.C."  
40.00 Set sand stone, 28 x 14 x 3.1 for 1/4 sec, corner, as per instructions.  
63.00 Enter cedar and Pinon, 3<sup>rd</sup> rate, bears N.E. and S.W.  
80.00 Set sand stone, 30 x 24 x 3. marked "S.C." for the corner to Secs. 31 + 32.  
Surface rolling, mostly prairie, Soil 2<sup>nd</sup> and 3<sup>rd</sup> rate.



Field Notes of the First Standard Parallel from the

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chains

West on South Boundary of Sec. 31.  
Var.  $14^{\circ} 18' E.$   
Summit of Ridge, bears  $N. E. \ 78^{\circ} W.$   
40.00 Set sand stone,  $14 \times 14 \times 4$ , marked "S.C."  
for  $\frac{1}{4}$  Sec. corner, as per instructions.  
80.00 Set sand stone,  $26 \times 14 \times 4$ , marked "S.C."  
for the corner to Township North,  
Ranges 6 and 7 west, Built  
mound of stone,  
Surface rolling and stony, covered  
with Cedar and Pinon,  $3^{\frac{1}{2}}$  rate.  
Soil  $3^{\frac{1}{2}}$  rate.

Range 7 West  
West on South Boundary of Sec. 36.  
Var.  $14^{\circ} 20' E.$   
7.00 Enter white and yellow Pine timber,  
 $1^{\frac{1}{2}}$  rate, bears  $N. E. \ 78^{\circ} W.$   
40.00 Set sand stone,  $46 \times 10 \times 6$ , marked "S.C."  
for  $\frac{1}{4}$  Sec. cor. as per instructions.  
80.00 Set sand stone,  $32 \times 18 \times 6$ , marked  
"S.C." for the corner to Secs.  
35 and 36.  
Surface rolling, covered with  
white and yellow Pine,  $1^{\frac{1}{2}}$  rate.  
Soil  $2^{\frac{1}{2}}$  rate.

West on South Boundary of  
Sec. 35, Var.  $14^{\circ} 25' E.$   
40.00 Set sand stone,  $14 \times 12 \times 4$ , marked "S.C."  
for  $\frac{1}{4}$  Sec. corner, as per instructions.  
80.00 Set sand stone,  $24 \times 12 \times 5$ , marked  
"S.C." for the corner to Secs. 34  
and 35.  
Surface rolling, covered with white  
and yellow Pine,  $1^{\frac{1}{2}}$  rate, Soil  $2^{\frac{1}{2}}$  rate.

West on South Boundary of Sec. 34,  
Var.  $14^{\circ} 25' E.$   
1.00 Trail, bears  $N. W. \ and \ S. E.$   
40.00 Set sand stone,  $22 \times 14 \times 4$ ,  
marked, "S.C." for  $\frac{1}{4}$  sec. cor.  
as per instructions.

Chains  
80.00

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Deposited marked stone, set charred post, marked "S. C." built mound and dug pits on the north, East and west sides, ten links from base of mound, for the corner to Secs. 33 and 34.

No Bearing trees near. Surface rolling, covered with white and yellow pine, Pinon and cedar, 1<sup>st</sup> and 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate.

West on South Boundary of Sec. 33  
Var. 14° 25' East.

12.70 Trail, bears N.E. & S. West.

40.00 Set sand stone, 16 X 14 X 4, marked "S. C." for 1/4 Sec. Corner, as per instructions.

80.00 Set sand stone, 16 X 14 X 3, marked "S. C." for the corner to Secs. 32 and 33.

Surface rolling, covered with white and yellow pine, Pinon and cedar, 3<sup>rd</sup> rate. Soil 2<sup>nd</sup> rate.

West on South Boundary of Sec. 32.  
Var. 14° 25' E.

40.00 Set charred post, marked "S. C." and built mound, as per instructions, for 1/4 sec. corner.

61.00 Trail, bears N.E. and S. W.

80.00 Deposited marked stone, set charred post, marked "S. C." built mound and dug pits on the north, East and west sides, ten links from base of mound, for the corner to Secs. 31 and 32.

No Bearing trees near. Surface rolling, covered with scattering pine, Pinon and cedar, 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate. Sept 7<sup>th</sup> 1889.

Field Notes of the First Standard Parallel from

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40.00		Weston South Boundary of Sec. 31. Var. $14^{\circ} 25'$ East. Set charred post, marked "S.C." and built mound, for $\frac{1}{4}$ Sec. Corner as per instructions.
80.00		Set sand stone, $24 \times 16 \times 4$ . marked "S.C." and built mound of earth around same, for corner to Township 6 North, Ranges 7 and 8 West. Surface rolling, covered with scattering cedar and Pinon, $3^{\frac{1}{4}}$ rate. Soil $3^{\frac{1}{4}}$ rate.
40.00		Township 6 North, Range 8 West. Weston South Boundary of Sec. 36. Var. $14^{\circ} 25'$ E. Set charred post and built mound for $\frac{1}{4}$ Sec. Corner as per instructions.
45.00		Trail, bears N.E. and S.W.
80.00		Set sand stone, $18 \times 10 \times 4$ . marked "S.C." for corner to Secs. 35 & 36. Surface rolling. Scattering cedar and Pinon, $3^{\frac{1}{4}}$ rate. Soil $3^{\frac{1}{4}}$ rate.
40.00		Weston South Boundary of Sec. 35. Var. $14^{\circ} 30'$ E. Set charred post, marked "S.C." and built mound, for $\frac{1}{4}$ Sec. Corner as per instructions.
80.00		Set sand stone, $16 \times 14 \times 4$ . marked "S.C." for the corner to Secs. 34 and 35. Surface rolling. Scattering cedar and Pinon. $3^{\frac{1}{4}}$ rate. Soil $3^{\frac{1}{4}}$ rate.
40.00		Weston South Boundary of Sec. 34. Var. $14^{\circ} 35'$ East. Set charred post, marked "S.C." and built mound, for $\frac{1}{4}$ Sec. Corner as per instructions.

Chains  
80.00

Deposited marked stone, set charred post marked "S.C." built mound and dug pits on the north, East and west sides, ten links from base of mound, for the corner to Secs. 32 and 34.  
Surface rolling. Scattering Pinon and Cedar, 3/4 rate.  
Soil 3/4 rate.

West on South Boundary of Sec. 33.  
Var. 14° 40' E.

40.00 Set charred post, marked "S.C." and built mound, for 1/4 sec. corner, as per instructions.

80.00 Set sand stone, 18 x 12 x 10, marked "S.C." for the corner to Secs. 32 and 33.  
Surface rolling. Scattering Pinon and Cedar, 3/4 rate. Soil 3/4 rate.

West on South Boundary of Sec. 32.  
Var. 14° 45' East.

40.00 Set sand stone, 18 x 10 x 8, marked "S.C." for 1/4 Sec. corner, as per instructions.

80.00 Set sand stone, 40 x 30 x 4, marked "S.C." for the corner to Secs. 31 and 32.

Surface rolling. Scattering Cedar and Pinon, 3/4 rate. Soil 3/4 rate.

West on South Boundary of Sec. 31.  
Var. 14° 50' E.

7.00 Witness corner on edge of Cañon de Chille.  
40.00 Place for 1/4 Sec. corner in Cañon, impracticable to establish same.

80.00 Place for corner to Township 6 North, Ranges 8 and 9 west, in Cañon de Chille.

Impracticable to establish same. Cañon de Chille, at this point is about 1200 feet deep.

sides being perpendicular.

The bottom of the cañon is about 40 chains wide, and well cultivated by the Indians.

September, 8<sup>th</sup> 1869.

General Description of First Guide Meridian from South Boundary of Reservation to First Standard Parallel, and First Standard Parallel from First Guide Meridian to East Boundary of Reservation.

The surface of the First Guide Meridian to the corner to Townships 4 and 5 north, is generally rolling, covered with scattering Cedar and Piñon timber, 3<sup>rd</sup> rate, with the exception of some few small patches of Prairie.

Soil 3<sup>rd</sup> and 2<sup>nd</sup> rate. The balance to the parallel is cut up by deep and impassable cañons, averaging from 300 to 1000 feet in depth, the sides of which are of sand stone formation.

The Closing corner on First Standard Parallel is in Cañon "De Chille". The valley of this Cañon is about 1200 feet below the surface of the surrounding country; its average width is about 40 chains.

There is a fine stream of water passing through the cañon, which in dry seasons, sinks in the sand, before leaving the mouth of the Cañon.

A portion of the valley is cultivated by the Indians. Very fine peaches are raised in the cañon.

close to the bluffs.

The country from the Guide Meridian to the "Junicha" mountains, on the First Standard Parallel, is generally covered with Pinon and cedar, yellow and white Pine timber, with the exception of some few small prairies. Soil 2 $\frac{1}{4}$  and 3 $\frac{1}{4}$  rate.

The line enters the "Junicha" mountains about 18 miles east of Guide and <sup>at</sup> about 37 $\frac{1}{2}$  miles leaves them.

The mountains are covered with 1 $\frac{1}{2}$  rate yellow and white Pine, Oak and Aspen timber. The highest points of the "Junicha" are about 9000 feet above the level of the sea.

These mountains extend north about 25 miles and about the same distance south. The low hills on the eastern slope are covered with cedar and Pinon, 3 $\frac{1}{4}$  rate.

Soil 3 $\frac{1}{4}$  rate.

The balance of the land from this point to East Boundary of Reservation is rolling prairie. Soil 2 $\frac{1}{4}$  rate.

Chains

BOOK 1937

	South Boundary of Township 6 North, Range 9 West. West on True Line. South Boundary of Sec. 36. Var. $15^{\circ} 20' E.$
18.75	Leave Cañon "De Chille" Set Witness Corner on Edge of Cañon, Sand stone, $18 \times 10 \times 3$ . and built mound of stone around same.
40.00	Set sand stone, $16 \times 14 \times 4$ . marked "S.C." for $\frac{1}{4}$ Sec. Corner, as per instructions.
80.00	Set sand stone, $20 \times 10 \times 4$ . marked "S.C." for the corner to Secs. 35 & 36. Surface rolling, covered with cedar and Pinon, $3^{\text{rd}}$ rate. Soil $3^{\text{rd}}$ rate.
	West on South Boundary of Sec. 35. Var. $15^{\circ} 20' E.$
40.00	Set sand stone, $16 \times 14 \times 3$ . marked "S.C." for $\frac{1}{4}$ sec. corner, as per instructions.
80.00	Set sand stone, $40 \times 14 \times 4$ . marked "S.C." for the corner to Secs. 34 and 35. Surface rolling, covered with cedar and Pinon, $3^{\text{rd}}$ rate. Soil $3^{\text{rd}}$ rate.
	West on South Boundary of Sec. 34. Var. $15^{\circ} 23' E.$
27.00	Dry bed of Creek, course South west.
40.00	Set sand stone, $28 \times 14 \times 3$ . marked "S.C." for $\frac{1}{4}$ sec. corner, as per instructions.
80.00	Set sand stone, $16 \times 12 \times 3$ . marked "S.C." for the corner to Secs. 33 & 34. Surface rolling, covered with cedar and Pinon, $3^{\text{rd}}$ rate. Soil $3^{\text{rd}}$ rate.
	West on South Boundary of Sec. 33. Var. $15^{\circ} 23' E.$
40.00	Set sand stone, $18 \times 14 \times 4$ . marked "S.C." for $\frac{1}{4}$ Sec. corner, as per instructions.

Chains 80.00	<p>Set sand stone, 30 X 24 X 4, marked "S.C." for the corner to Secs. 32 and 33. Surface rolling, covered with cedar and Pinon, 3<sup>rd</sup> rate. Soil 3<sup>rd</sup> rate.</p>	BOOK 1937
<p>14.00 17.00 20.00 40.00 64.60 80.00</p>	<p>West on South Boundary of Sec. 22. Var. 15° 25' East.</p> <p>Leave Pinon and cedar, bears N.W. &amp; S.E.</p> <p>Cañon, course S.W.</p> <p>Leave same.</p> <p>marked flat rock, "S.C." for 1/4 sec. corner, as per instructions.</p> <p>Cañon, course W.S.W.</p> <p>Place for corner to Secs. 31 &amp; 32, in Cañon, impossible to establish same.</p> <p>Surface level, nearly all flat rock. Soil 3<sup>rd</sup> rate.</p>	
<p>32.00 40.00 80.00</p>	<p>West on South Boundary of Sec. 31. Var. 15° 25' E.</p> <p>Leave Cañon, course W.S.W.</p> <p>Set sand stone, 28 X 18 X 2, marked "S.C." for 1/4 sec. corner, as per instructions.</p> <p>Set sand stone, 30 X 24 X 8, marked "S.C." for the corner to Townships 6 North, Ranges 9 and 10 West. Surface rolling. Prairie. Soil 3<sup>rd</sup> rate.</p>	
<p>40.00 53.00 80.00</p>	<p>Township 6 North, Range 10 West.</p> <p>West on South Boundary of Sec. 36. Var. 15° 25' E.</p> <p>marked flat surface rock "S.C." at place for 1/4 sec. corner as per instructions.</p> <p>Cañon, course S.W. 100 feet deep.</p> <p>Place for corner to Secs. 35 and 36, in Cañon.</p>	



Field notes of the First Standard Parallel, from 1<sup>st</sup>

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BOOK

Chains

1937

Impossible to establish same,  
Surface broken, Prairie, Soil 3<sup>rd</sup> rate,  
September, 9<sup>th</sup> 1869.

Weston South Boundary of Sec. 35.  
Var. 15<sup>th</sup> 25<sup>th</sup> E.

40.00 Place for 4 Sec. corner in canon.  
Impossible to establish same,

77.00 Leave canon, 300 feet deep,  
sides almost perpendicular,

80.00 Marked flat surface rock "S.C." for  
the corner to Secs. 34 and 35.

Surface broken and stony, Soil 3<sup>rd</sup> rate.

Weston South Boundary of Sec. 34.

Var. 15<sup>th</sup> East.

40.00 Set sand stone, 16 x 14 x 3. for 4  
sec. corner, as per instructions.

80.00 Set sand stone, 14 x 12 x 4. marked  
"S.C." for the corner to Secs.  
33 and 34.

Surface rolling. Prairie.

Soil 3<sup>rd</sup> rate.

Weston South Boundary of Sec. 32.

Var. 15<sup>th</sup> East

40.00 Set sand stone, 16 x 10 x 4. marked  
"S.C." for 4 Sec. corner, as per  
instructions.

59.00 Enter "Valle de Chille" bears  
north and south.

80.00 Set sand stone, 18 x 10 x 4. marked  
"S.C." for the corner to Secs. 32  
and 33.

Surface rolling before entering  
valley. Soil 3<sup>rd</sup> rate.

Valley level, 1<sup>st</sup> rate, Prairie.

chains

BOOK 1937

Weston South Boundary of Sec. 32.  
Var. 15° East

7,500 "Rio de Chile" course north,  
18,000 Leave same, sandy bed, gentle  
current, 30 lks. wide, shallow water,  
40,000 Set sand stone, 14 x 10 x 4, marked "S.C." for Sec. corner, as per instructions,  
80,000 Set sand stone, 15 x 14 x 4, marked  
"S.C." for the corner to sees,  
31 and 32.  
Surface level. Prairie. Soil 1<sup>st</sup> rate.

Weston South Boundary of Sec. 31.  
Var. 15° East

8,500 "Rio Puerco" course north,  
11,000 Leave same, sandy bed, gentle  
current, about 60 lks. wide,  
Water very muddy,  
40,000 Set charred post, marked "S.C."  
built mound and dug pits  
north, south, east and west,  
for Sec. corner, as per in-  
structions,  
80,000 Set sand stone, 14 x 12 x 8, marked  
"S.C." and built mound of  
earth around same, for the  
corner to Township 6 north,  
Ranges 10 and 11 west.  
Surface level. Prairie.  
Soil 1<sup>st</sup> rate.

Weston South Boundary of  
Sec. 36.

40,000 Var. 15° East  
Set sand stone, 16 x 14 x 3.  
marked "S.C." for Sec. Cor.  
as per instructions,  
80,000 Set sand stone, 18 x 12 x 7, marked  
"S.C." for the corner to sees,  
35 and 36.  
Surface level. Prairie. Soil 1<sup>st</sup> rate.

chains

BOOK

1937

12,500

West on South Boundary of Sec. 25,  
Var.  $15^{\circ}$  East,

Intersect West Boundary of  
Navajo Reservation, 3.65 chs.  
North of 30<sup>th</sup> mile corner,  
and set sand stone, 24 x 18 x 9,  
marked six notches on the  
North and "C. C." on the East,  
for the Closing Corner to fractional  
Township 6 and fractional  
Sec. 35.

Surface level. Prairie. Soil 1<sup>st</sup> rate.

Completed September 10<sup>th</sup> 1869.

General Description of First  
Standard Parallel, from  
First Guide Meridian to  
West Boundary of Navajo  
Indian Reservation.

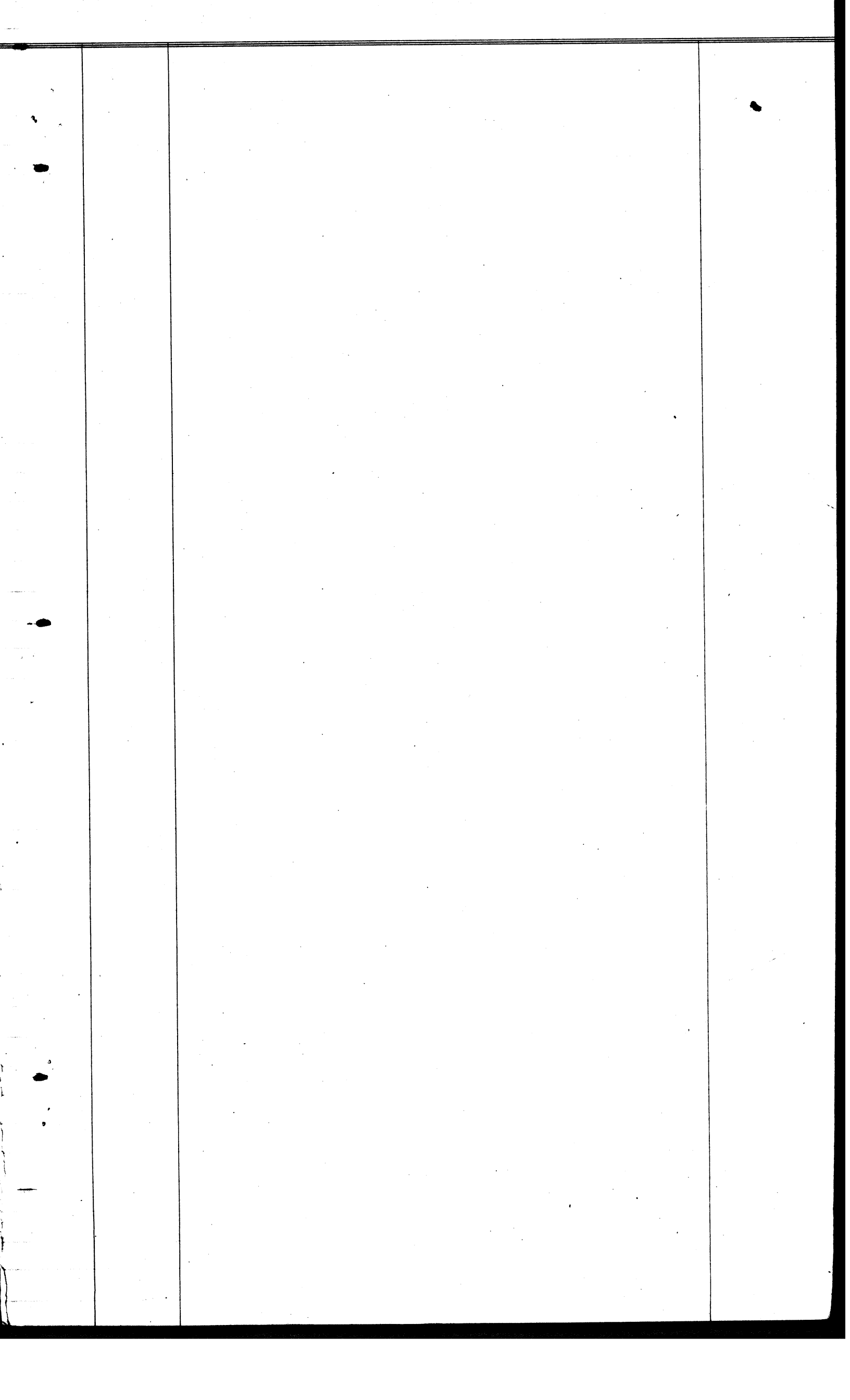
The line for about six  
miles west of "Cañon De  
Chille" passes over a roll-  
ing country, well covered  
with cedar and Pinon. 3<sup>rd</sup> rate,  
Soil mostly 3<sup>rd</sup> rate.

It then runs over a country  
broken and rocky, and mostly  
over a bed of rock, devoid  
of any kind of timber, until  
it enters the "Valle de Chille"

The country then is level  
to the West Boundary of the  
Reservation, covered with a  
fine growth of grass.

The soil is sandy, but 4<sup>th</sup>  
rate.

The land along the  
Puerco and de Chille is  
well cultivated by the  
Indians, and thickly settled.



BOOK 1937

We hereby certify that we assisted  
 Ed. N. Darling, U.S. Surveyor,  
 in surveying the First Guide  
 Meridian, from the South  
 Boundary of the Navajo Indian  
 Reservation, to the First Standard  
 Parallel, and the First Standard  
 Parallel from the First Guide  
 Meridian to the East and West  
 Boundaries of said Reservation,  
 and that said Meridian and  
 Parallel, have 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  
 Commissioner of the General  
 Land Office.

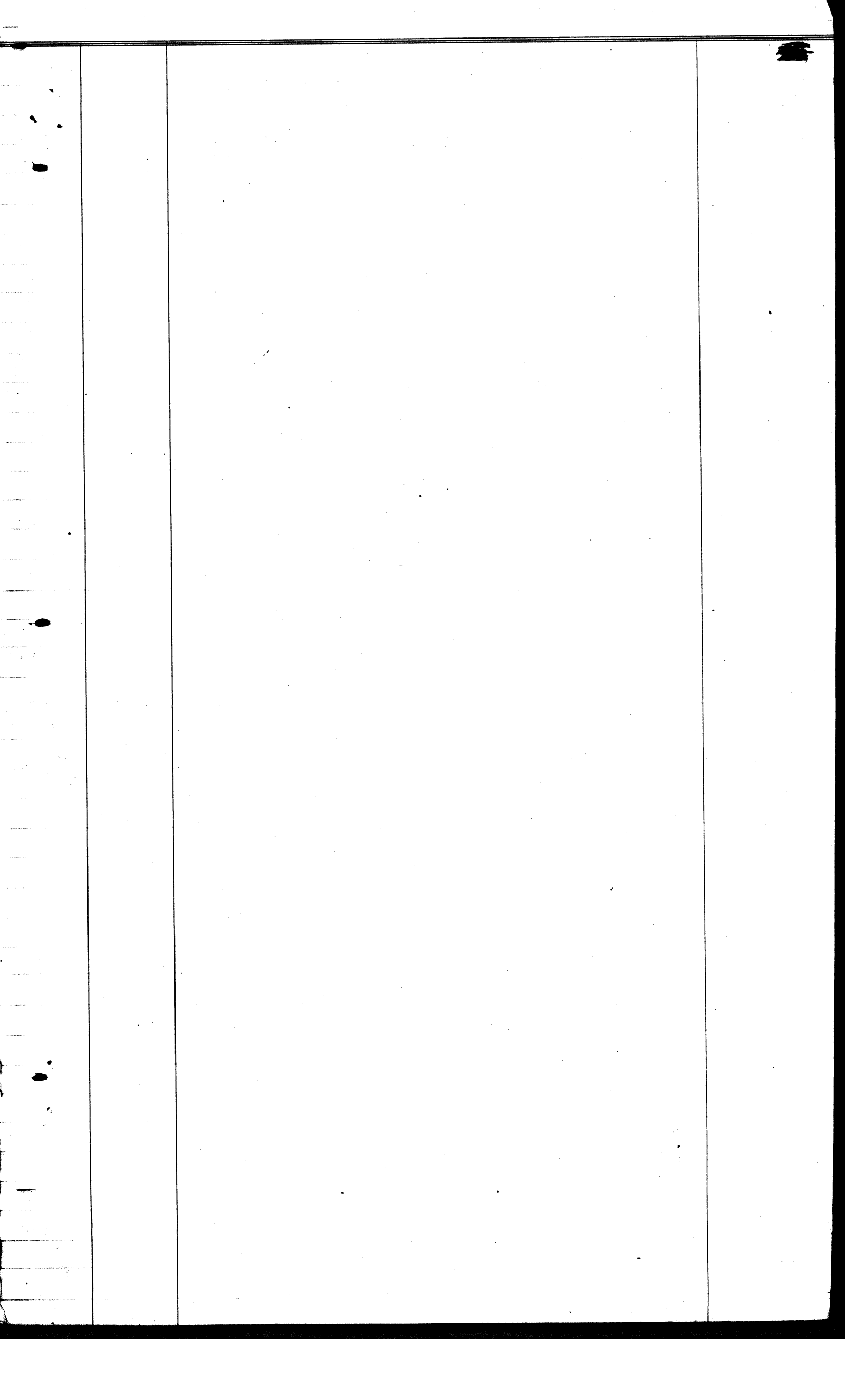
Geo. H. Bradt, Compassman.

Walter G. Marmon }  
 Joseph Fierheller } Chairman.

Alex. Douglass, }  
 Juan <sup>his</sup> <sub>mark</sub> Martin } Bornermen.

Subscribed and sworn to by  
 the above named persons, before  
 me, E. N. Darling, U.S. Surveyor,  
 in Township 1 North, Range 6  
 West of the Navajo Special  
 Meridian, in the Territory of  
 Arizona, this 25<sup>th</sup> day of January,  
 1870.

Ehud N. Darling,  
 U.S. Surveyor.



BOOK 1987

E. N. Darling, U.S. Surveyor, do solemnly swear that in pursuance of a contract with the Hon. Jos. S. Wilson, Commissioner of the General Land Office, dated Washington D.C., April 29<sup>th</sup>, 1829, and in strict conformity to the laws of the United States, and the instructions furnished by the said Commissioner, I have faithfully surveyed the First Guide Meridian from the South Boundary of the Navajo Indian Reservation to the First Standard Parallel and the First Standard Parallel from the First Guide Meridian to the East and West Boundaries of said Reservation, and do further solemnly swear that the foregoing are the true and original field notes of such survey.

Ehud N. Darling,  
U.S. Surveyor.

Subscribed by said E. N. Darling, U.S. Surveyor, and sworn to before me, this 5<sup>th</sup> day of February A.D., 1870.

Wm. Breeden,

Clerk U.S. Dist. Court.  
1<sup>st</sup> Judicial Dist. N. Mexico.

Department of the Interior,  
General Land Office,  
February 28<sup>th</sup> 1870.

The foregoing field notes of the survey of the First Guide Meridian from the South boundary of the Navajo Indian Reservation to the First Standard Parallel and the First Standard Parallel from the First Guide Meridian to the East and West Boundaries of said Reservation, executed by E. M. Earling, U.S. Surveyor, under his contract with the Commissioner of the General Land Office, having been critically examined, the necessary corrections and explanations made, the said field notes and the surveys they describe are hereby approved.

Jos. S. Wilson,  
Commissioner.

Department of the Interior  
General Land Office  
February 26<sup>th</sup> 1871

A true copy

Commissioner



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