

1957

1957

Field Notes
of the survey of the
~~East and~~ South Boundary lines
of the
Navajo Indian Reservation
in the
~~Territories of New Mexico and~~
Arizona

as surveyed by

John G. Evans
U. S. Deputy Surveyor

Under his Contract No.
Dated November 13th 1884.

Survey commenced December 2nd 1884
Survey completed January 31st 1885

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Names and duties of Assistants

Samuel E. Day	Compassman
Charles A. Day	Chainman
George Wallace	Chainman
Robert Mitchell	Chainman
George Irwin	Chainman
Christian Huber	Axeman
Therion H. Burbridge	Axeman
James Williams	Flagman
X	X
X	X

22
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98	97	96	95	94	93	92
35	34	34	33	33	32	

32	31	31	30	30	29	29	28	27	27	26	26	25	25	24	24	24	23	23	22	21	21	20	20	19	18	18	17	17	16	16	16	15	14	14	13	13	13	12	11	11	11	10	10	10	9	8	8	8	7	6	6	5	4	4
91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44							

O. L. L. 924
Defiance

New Mexico

Preliminary Oaths of Assistants

We, Charles H. Day, George Wallace, Robert Mitchell and George Irwin do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the East and South Boundaries of the Navajo Indian Reservation in the Territories of New Mexico and Arizona.

Charles H. Day
George Wallace
Robert Mitchell
George Irwin.

Subscribed and sworn to before me
this 29th day of November 1884.

Sign here

We, Christian Huber and Theron H. Burbidge do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the East and

South Boundaries of the Navajo Indian Reservation in the Territories of New Mexico and Arizona.

Christian Huber
Therin A. Burbidge

Subscribed and sworn to before me this 29th day of November 1884.

John G. Evans.
United States Deputy Surveyor.

These oaths were administered by me because there was no officer authorized to administer oaths at Fort Defiance our point of rendezvous, and no such person nearer than Fort Wingate to reach which point would have involved quite an outlay of time and money.

John G. Evans
United States Deputy Surveyor

+ + + +

Chains.

X	X	X	X
X	X	X	X
X	X	X	X

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West on 44th Mile true line
 Va. 13° 13' E.

Over nearly level ground
 3.72 Intersect line between the
 Territories of New Mexico and
 Arizona at a point 43.93 chains
 south of 92nd mile post on
 territory line.

660 Wagon road from Fort Wingate
 to Fort Defiance - Course NW + SE.

1400 Arroya 50 lks. wide Course NW.

2050 Indian trail Course NW + SE.

4500 Arroya (same as crossed at 14.00)
 50 lks. wide. Course SW.

7650 Wagon road from Fort Wingate
 to Mori - Course NE + SW.

8000 Set a red sand stone 40 x 12 x 3' in
 a mound of stones, marked N. I. R. on
 the North side P.L. on the South
 side and 44 M. on East side dug
 pits 24 x 24 x 12 ins. E. W. + N. of stone
 and raised a mound of earth
 2 1/2 ft. high 5 ft. base alongside
 No Natural objects convenient
 for bearings.

Surface nearly level prairie
 Soil sandy + Adobe 2nd rate.
 Good gamma grass.

West on 45th Mile true line
 Va. 13° 12' E.

Over gently rolling prairie
 840 Wagon road from Manuelito
 to Defiance Course N + S.

7270 Creek - running water - 20 lks.
 wide Course SW.

South Boundary of Navajo Indian Reservation - Continued.

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Chains.

8000 Set a brown sand stone 44' x 12' x 4' in a mound of stones, marked N.I.R. on the North side P.L. on the South side and 45 M. on the East side, dug pits 24 x 24 x 12 ins. E. W. + N. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside. No Natural objects convenient for bearings. Surface - gently rolling prairie Soil - sandy + Adobe - 2nd rate Good gamma grass. January 15th 1885

NOTE: This Astronomical Mon. found by H.F. Robinson, U.S. Indian Service Engineer, to have fallen into Bonito Creek. Original Stone reset by him in July 1904, 25 feet (98 lbs) due East of its original position. U.S. Surveyor General for Ariz. notified of this reestablishment, by letter of July 27, 1904.

On January 16th 1885 I start at a stone 42' x 12' x 12' set as Astronomical Monument on South Boundary of Original Navajo Indian Reservation, on the site of Old Fort Defiance, and run due South 6 miles and set temporary post.

West on 46th Miles true line
 Var: 13° 13' E.
 160 Bonito Creek 20 lbs. wide Course South East - running water.
 420 Intersect line run due south from Old Fort Defiance at a point 6 miles and 10 lbs. South of Astronomical Monument set on the site of Old Fort Defiance.
 1790 Wagon road from Manuelito to Fort Defiance - Course N. and S.
 2530 Dry Arroya 20 lbs. wide Course NE.
 3400 Dry Arroya 20 lbs. wide Course SE. same as crossed at 25.30

Chains

80 00

Set a sand stone 30' x 12' x 3 1/2' in a mound of stones marked N.I.R. on the North side P.L. on the South side and 46 M. on the East side. dug pits 24 x 24 x 12 ins E. W. & N. of stone 6 ft. dist. and raised a mound of Earth 2 1/2 ft. high 5 ft. base alongside.

No Natural objects convenient for bearings.

Surface rolling prairie. Soil sandy + adobe. 2nd rate. good gamma grass.

West on 47th mile true line
 Va 13° 12' E

over rolling prairie.

16 00

Wagon road from Fort Defiance to Moquis - Course N. & S.

17 00

Arroya 40 lbs. wide Course South

29 00

Arroya 100 lbs. wide Course S. E.

80 00

Set a sand stone 28' x 14' x 6' in a mound of stones, marked N.I.R. on the North side P.L. on the South side and 47 M. on the East side. dug pits 24 x 24 x 12 ins. E. W. & N. of stone 6 ft. dist. and raised a mound of Earth 2 1/2 ft. high 5 ft. base alongside.

No Natural objects convenient for bearings.

Surface rolling. Soil sandy - 3rd rate. gamma grass.

West on 48th mile true line
 Va 13° 12' E

7 00

Enter broad gulch Course N. E.

18 00

Leave same - Enter timber

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Chains

2900 Dry Arroya 8 lks. wide Course South
 4400 Dry Arroya 10 lks. wide Course South
 7170 Gulch and Indian trail. Course South
 8000 Set a sand stone 28' x 16' x 4' in a mound of stones, Marked N. I. R. on the North P.L. on the South and 48 M. on the East side

Pits impracticable.

A pinon 12 ins diam. bears N 80° E. 60 lks. dist., Marked N. I. R. 48 M. B. I.

A pinon 10 ins diam. bears S. 10° W. 30 lks. dist., Marked N. I. R. 48 M. B. I.

A pinon 10 ins diam. bears N 25° W. 80 lks. dist., Marked N. I. R. 48 M. B. I.

Surface rough

Soil sandy - 4th rate.

Timber. Pine Pinon and Juniper

January 17th 1885.

On the night of January 18th 1885 I took an observation on the star Polaris in accordance with instructions contained in the Manual of Surveys, and drove pickets on the line so established. — Before commencing work on the morning of January 19th 1885 I test my compass on the line established last night and find it correct.

West on 49th mile true line
 Val. 13° 12' E.

Ascending over broken ground

8000 Set a sand stone 30' x 16' x 5' in a mound of stones, Marked N. I. R. on the North side P.L. on the South side and 49 M. on the East side. Pits impracticable.

Chains
 A pinon 12 ins diam. bears S. 45° E. 25 lks. dist. Marked N. I. R. 49 M. B. I.
 A pinon 10 ins. diam. bears N. 45° W. 30 lks. dist. Marked N. I. R. 49 M. B. I.
 A pinon 10 ins. diam. bears N. 30° E. 45 lks. dist. Marked N. I. R. 49 M. B. I.
 Surface broken.
 Soil sandy & rocky 4th rate good Bunch & gamma grass.
 Timbers. Pine pinon and juniper.

West on 50th mile true line
 Va. 13° 12' E.
 Ascending through heavy timber.
 500 Dry Arroya 10 lks. wide Course S E.
 3150 Wagon road from Manuelito to Mogaii NW & S E.
 56.75 Arroya 15 lks. wide Course South
 8000 Set a sand stone 45' x 20' x 5' in a mound of stones Marked N. I. R. on the North side P. L. on the south side and 50 M. on the East side.
 Pitts impracticable.
 A pine 24 ins. diam. bears S. 45° E. 30 lks. dist. Marked N. I. R. 50 M. B. I.
 A pine 28 ins. diam. bears N 20° W. 60 lks. dist. Marked N. I. R. 50 M. B. I.
 A pine 20 ins. diam. bears N. 65° E. 75 lks. dist. Marked N. I. R. 50 M. B. I.
 Surface rolling.
 Soil sandy & rocky - Bunch grass
 Timbers. Pine & Pinon.

West on 51st mile true line
 Va. 13° 13' E.
 Ascending through thick timber.
 2380 Arroya. Course N. 85° E. same as crossed at 56.75 on 50th mile.
 4120 Cross dry Arroya Course South.

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Chains

8000

Set a sand stone 26' x 18' x 3' in a mound of stones, marked N. I. R. on the North side P. L. on the South side and 51 M. on the East side.

Pits impracticable.

A pine 24 ins. diam. bears N. 78° W. 135 lks. dist. Marked N. I. R. 51 M. B. I.

A pine 18 ins. diam. bears S. 40° E. 90 lks. dist. Marked N. I. R. 51 M. B. I.

A pine 20 ins. diam. bears N. 50° E. 110 lks. dist. Marked N. I. R. 51 M. B. I.

Surface - Ascending toward West Soil sandy & rocky Bunch grass. Timber - Pine, Pinon and scrub oak.

West on 52nd mile true line
Var. 13° 13' E.

400

Ascending through thick timber Intersect East line of Twp. 26 N. Range 29 E. at a point 4.90 chains South of Corner to Sec's 12 and 13.

8000

Set a sand stone 30' x 10' x 3' in a mound of stones, marked N. I. R. on the North side P. L. on the South side and 52 M. on the East side.

Pits impracticable

A pine 24 ins. in diam bears N. 10° W. 105 lks. dist. Marked N. I. R. 52 M. B. I.

A pine 30 ins. diam. bears S. 50° E. 80 lks. dist. Marked N. I. R. 52 M. B. I.

A pine 28 ins. diam. bears N. 30° E. 65 lks. dist. Marked N. I. R. 52 M. B. I.

Surface rolling.

Soil sandy - Bunch grass.

Timber Pine and scrub Oak.

January 19th 1885.

Chains

West on 53rd mile true line
 Va. 13° 13' E.
 Ascending through thick timber.
 410 Intersect line between secs. 13
 and 14 Twp. 26 N. Range 29 E. at a
 point 415 chains South of Cor. to
 secs. 11-12-13 + 14.
 3100 Indian trail bears S.W. and N.E.
 4000 Top of divide between waters of
 Bonito Creek and Pueblo Colorado
 river - descending.
 8000 Set a sand stone 24' x 12' x 3' in a
 mound of stones, Marked N. I. R. on
 the North side P. L. on the South
 side and 53 M. on the East side.
 Pits impracticable.
 A pine 30 ins. diam. bears N. 77° W.
 200 lbs. dist. Marked N. I. R. 53 M. B. I.
 A pine 24 ins. diam. bears S. 82° E.
 150 lbs. dist. Marked N. I. R. 53 M. B. I.
 A pine 26 ins. diam. bears S. 35° W.
 80 lbs. dist. Marked N. I. R. 53 M. B. I.
 Surface rolling.
 Soil sandy. Bunch + gramma grass.
 Timber - Pine and scrub oak.

West on 54th mile true line.
 Va. 13° 12' E.
 Descending through timber.
 408 Intersect line between secs. 14 and
 15 - Twp. 26 N. Range 29 E. at a point
 5.00 chains south of Corner to Secs
 10-11-14 and 15.
 8000 Set a sand stone 34' x 12' x 5' in a
 mound of stones, Marked N. I. R. on
 the North side P. L. on the South side
 and 54 M. on the East side.
 Pits impracticable.
 A pine 24 ins. diam bears N. 50° W. 24

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Chains lks. dist. Marked N. I. R. 54 M. B. I.
 An Oak 12 ins. diam. bears S. 8° W. 39 lks.
 dist. Marked N. I. R. 54 M. B. I.
 A pine 20 ins. diam. bears S. 42° E. 60
 lks. dist. Marked N. I. R. 54 M. B. I.
 Surface rolling.
 Soil sandy & rocky Bunch & gramma
 grass.
 Timbers. Pine and scrub oak.

West on 55th Mile true line
 Var. 13° 12' E

Gently descending
 320 Intersect section line between
 sec's 15 and 16 Twp. 26 N. Range 29 E
 at a point 5.60 chains South of Corner
 to Secs. 9-10-15 and 16.

8000 Set a sand stone 24' x 14' x 3 1/2 in a
 mound of stones marked N. I. R. on
 the North side P. L. on the South side
 and 55 M. on the East side.

Cuts impracticable.
 A pine 20 ins. diam. bears S. 4° W.
 300 lks. dist. Marked N. I. R. 55 M. B. I.
 No other natural objects convenient
 for bearings.

Surface rolling.
 Soil sandy - Bunch & gramma grass.
 Timbers - Pine - scattering.

West on 56th Mile true line
 Var. 13° 12' E.

Descending through scattering timber
 385 Intersect section line between Sec's
 16 and 17 at a point 470 chains
 South of corner to sec's 8-9-16 and 17
 Twp. 26 N. Range 29 E.

6000 Enter thick pinon timber.

8000 Set a sand stone 34' x 14' x 5' in a

Chains Mound of stones, marked N. I. R. on the North side P.L. on the South side and 56 M. on the East side.
 Pits impracticable.
 A pine 20 ins. diam. bears N. 20° W. 78 lbs. dist. Marked N. I. R. 56 M. B. I.
 A pinon 14 ins. diam. bears S. 10° W. 40 lbs. dist. Marked N. I. R. 56 M. B. I.
 A pinon 8 ins. diam. bears S. 35° E. 45 lbs. dist. Marked N. I. R. 56 M. B. I.
 Surface rolling.
 Soil sandy - Bunch^{ed} and gramma grass.
 Timbers Pines and Pinons.
 January 20th 1885.

West on 57th Mile true line
 Va. 13° 12' E.
 Descending through thick pinons.
 412 Intersect section line between Sec's 17 and 18 Twp. 26 N. Range 29 E. at a point 440 chains South of corner to sections 7-8-17 and 18.
 4150 Pinetree 24 ins diam in line
 4260 Enter Arroya Course from N.E. to West.
 5800 Indian trail Course N.E. and S.W.
 5860 Leave Arroya Course S.W.
 7934 Intersect Township line between Twp. 26 N. Ranges 28 and 29 E. at a point 480 chains south of corner to Secs. 7-18-12 and 13.
 8000 Set a sand stone 30' x 16' x 4' in a mound of stones, marked N. I. R. on the North side P.L. on the south side and 57 M. on the East side.
 Pits impracticable.
 A pine 20 ins. diam. bears N. 85° E. 45 lbs. dist. Marked N. I. R. 57 M. B. I.
 A pine 18 ins diam. bears N. 88° W. 100 lbs. dist. Marked N. I. R. 57 M. B. I.
 A pine 18 ins. diam. bears S. 10° W. 80

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lbs. dist. Marked N. I. R. 57 M. B. I.
Surface rolling - descending West.
Soil sandy. Bunch and gamma grass.
Timber pine and pinon.

West on 58th mile, true line
Var. 13° 12' E.

Gently descending.

- 243 Pine 24 ins. diam. in line.
- 13 42 Pine 16 ins. diam. in line.
- 59 00 Leave timber
- 75 00 Enter timber
- 80 00 Set a sand stone 24' x 10' x 4' in a mound of stones, marked N. I. R. on the North side P. L. on the South side and 58 M. on the East side.

Pits impracticable.
 A pinon 14 ins. diam. bears N. 45° W. 12 lbs. dist. Marked N. I. R. 58 M. B. I.
 A pinon 10 ins. diam. bears N. 70° E. 60 lbs. dist. Marked N. I. R. 58 M. B. I.
 A pinon 8 ins. diam. bears S. 48° E. 35 lbs. dist. Marked N. I. R. 58 M. B. I.
 Surface rolling - descending West.
 Soil sandy. Bunch and gamma grass.
 Timber. Pine and pinon.

West on 59th mile, true line
Var. 13° 12' E.

Gently descending.

- 40 Intersect-section line between sec's. 13 and 14 Twp. 26 N. Range 28 E at a point 520 chains south of corner to sec's 11-12-13 and 14.
- 39 00 Leave timber
- 48 00 Enter timber
- 80 00 Set a sand stone 28' x 14' x 9' in a mound of stones marked N. I. R. on the North side. P. L. on the South

Chains

side and 59 M. on the East side.
 Pits impracticable.
 A pinon 12 ins. diam. bears N. 85° E.
 60 lks. dist. Marked N. I. R., 59 M., B. I.
 A pinon 8 ins. diam. bears N. 5° E. 10
 lks. dist. Marked N. I. R. 59 M. B. I.
 A pinon 8 ins. diam. bears S. 40° W.
 40 lks. dist. Marked N. I. R. 59 M. B. I.
 Surface rolling
 Soil sandy. Bunch + gramma grass.
 Timber Pinon.

West on 60th mile true line
 Var. $13^{\circ} 12'$ E.

Descending.

387 Intersect section line between
 sec's 14 and 15 Twp. 26 N. Range 28 E.
 at a point 5.00 chains south of
 corner to sec's 10-11-14 and 15.

3800 Leave timber Enter park.

4350 Indian trail Course SW and NE.

80.00 Set a sand stone $28' \times 18' \times 7'$ in a
 mound of stones, Marked N. I. R. on
 the North side P. I. on the south side
 and 60 M. on the East side - in
 edge of timber

Pits impracticable

A pinon 14 ins. diam. bears N. 20° W.
 75 lks. dist. Marked N. I. R., 60 M. B. I.

A pinon 12 ins. diam. bears N. 89° W.
 80 lks. dist. Marked N. I. R. 60 M. B. I.

A pinon 10 ins. diam. bears S. 15° W. 75
 lks. dist. Marked N. I. R. 60 M. B. I.

Surface rolling.

Soil sandy. Bunch and gramma
 grass. - Sagebrush.

Timber. Pinon and Juniper

January 21st 1885.

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Chains. On the night of January 21st 1885 I took an observation on the star Polaris in accordance with instructions contained in Manual of surveys, and drove pickets on the line so established.

Before commencing work on the morning of January 22nd 1885 I test my compass on the line established last night and find it correct.

West on 61st Mile true line
 Var. 13° 12' E.

Through timber.

- 2.55 Intersect section line between sections 15 and 16, Twp. 26. N. Range 28 E. at a point 5.00 chains south of corner to sec's 9-10-15 and 16.
- 7975 Intersect section line between sec's 16 and 17 Twp. 26 N. Range 28 E. at a point 5.99 chains south of the corner to sec's 8-9-16 and 17.
- 8000 Set a sand stone 32' x 12' x 4' in a mound of stones marked N. I. R. on the North side P.L. on the South side and 61 M. on the East side.

Pits impracticable.

A pinon 10 ins. diam. bears N. 88° W. 30 lbs. dist. Marked N. I. R., 61 M. B.T.

A pinon 10 ins diam bears N. 45° W. 32 lbs. dist. Marked N. I. R. 61 M. B.T.

A pinon 9 ins. diam. bears S. 85° E. 60 lbs. dist. Marked N. I. R. 61 M. B.T.

Surface rolling.

Soil sandy. Bunch and gramma grass
 Timber. Pinon and juniper.

chains

West on 62nd mile true line.
 Va 13° 12' E.

Descending.

3500 Leave timber

7800 Enter timber

8000 Set a sand stone 30' x 14' x 4' in a mound of stones, Marked N.I. R. on the North side P.L. on the South side, and 62 M. on the East side. Pits impracticable.

A pinon 14 ins. diam. bears S. 45° W. 250 lbs. dist. Marked N.I. R. 62 M. B.T.

A pinon 12 ins. diam. bears N. 40° W. 270 lbs. dist. Marked N.I. R. 62 M. B.T.

A pinon 10 ins. diam. bears N. 89° E. 60 lbs. dist. Marked N.I. R. 62 M. B.T.

Surface rolling.

Timber = 3700 chains - Pinon

Soil sandy - Sagebrush.

Bunch and gamma grass.

West on 63rd mile true line
 Va 13° 13' E.

.10 Intersect sections line between sec's. 17 and 18 Twp. 26 N. Range 28 E. at a point 6.05 chains south of corner to sec's 7-8-17 and 18 and cross Indian trail - Course NW. and SE.

7200 Enter gulch - course West from SE.

7400 Leave gulch course NW.

8000 Set a sand stone 40' x 8' x 5' in a mound of stones, Marked N.I. R. on the North side P.L. on the South side and 63 M. on the East side.

Pits impracticable.

A pinon 12 ins. diam. bears N. 88° E. 75 lbs. dist. Marked N.I. R. 63 M. B.T.

A pinon 16 ins. diam. bears N. 45° W. 80 lbs. dist. Marked N.I. R. 63 M. B.T.

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Chains A pinon 12 ins. diam. bears S. 20° W
60 lbs. dist. Marked N. I. R. 63 M. B. I.
Surface rolling
Soil sandy - Gramma grass.
Timber pinon.

West on 64th Mile - true line
Var. 13° 13' E.

20 Intersect west line of Twp. 26 N.
Range 28 E. at a point 550 chains
South of corner to sections 7 and 18.

8000 Set a sand stone 30' x 14' x 4' in a
mound of stones marked N. I. R. on
the North side P.L. on the South
side and 64 M. on the East side.
Pits impracticable.

A pinon 8 ins. diam. bears S. 2° E.
14 lbs. dist. Marked N. I. R. 64 M. B. I.

A pinon 11 ins. diam. bears S. 44° W.
45 lbs. dist. Marked N. I. R., 64 M. B. I.

A pinon 10 ins. diam. bears N. 4° E.
100 lbs. dist. Marked N. I. R., 64 M. B. I.

Surface rolling.
Soil sandy - Bunch and gramma
grass.

Timber Pinon and juniper
January 22nd 1885.

West on 65th Mile true line
Var. 13° 13' E.

2000 Leave timber

2450 Arroyo 10 lbs. ride course North.

3100 Enter timber

4140 Leave timber

4800 Enter timber

5900 Leave timber

6700 Enter timber

8000 Set a sand stone 37' x 10' x 5' in a
mound of stones marked N. I. R. on

Chains. The North side P.L. on the South side and 65 M. on the East side. Pits impracticable.
 A pinon 12 ins. diam. bears S. 20° E. 53 lbs. dist. Marked N. 1. R. 65 M. B.T.
 A pinon 12 ins. diam. bears N. 88° W. 50 lbs. dist. Marked N. 1. R. 65 M. B.T.
 A pinon 10 ins. diam. bears N. 10° E. 60 lbs. dist. Marked N. 1. R. 65 M. B.T.
 Surface rolling. Sloping North west. Soil sandy. Bunch + gamma grass. Timber. Pinon and juniper

West on 66th mile true line
 Va. 13° 12' E.

2000 Leave timber
 2100 Indian trail - Course N. and S.
 2600 Enter timber
 4200 Leave timber
 6100 Indian trail Course NE. and SW.
 6700 Enter timber
 8000 Set a sand stone 30' x 10' x 6' in a mound of stones Marked N. 1. R. on the North side P.L. on the South side and 66 M. on the East side. Pits impracticable.
 A pinon 6 ins. diam. bears S. 8° W. 47 lbs. dist. Marked N. 1. R. 66 M. B.T.
 A pinon 7 ins. diam. bears N. 5° E. 30 lbs. dist. Marked N. 1. R. 66 M. B.T.
 A pinon 6 ins. diam. bears N. 40° W. 65 lbs. dist. Marked N. 1. R. 66 M. B.T.
 Surface rolling
 Soil sandy 3rd rate.
 Bunch and gamma grass.
 Timber Pinon and juniper.

West on 67th mile true line
 Va. 13° 12' E.

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chains Over rough ground. Through thick pinon timber.

8000 Set a sand stone $28' \times 13' \times 4\frac{1}{2}'$ in a mound of stones Marked N. I. R. on the North side P.L. on the South side and 67 M. on the East side.

Pits impracticable.

A pinon 6 ins. diam. bears S. 50° E. 35 lbs. dist. Marked N. I. R. 67 M. B. I.

A pinon 8 ins. diam. bears S. 45° W. 33 lbs. dist. Marked N. I. R. 67 M. B. I.

A pinon 12 ins. diam. bears N. 85° W. 60 lbs. dist. Marked N. I. R., 67 M. B. I.

Surface rolling and rough
Soil sandy - 3rd rate
Timbers scrub pinon and juniper.

West on 68th Mile true line
Var. $13^\circ 13'$ E.

1000 Dry Arroya - Course North

1050 Indian trail Course North and South

5500 Leave timber

5740 Indian trail Course NW and SE.

7700 Enter timber

8000 Set a sand stone $24' \times 10' \times 5'$ in a mound of stones Marked N. I. R. on the North side P.L. on the South side and 68 M. on the East side.

Pits impracticable.

A juniper 6 ins diam bears N. 5° W. 20 lbs. dist. Marked N. I. R. 68 M. B. I.

A pinon 12 ins. diam. bears N. 80° W. 150 lbs. dist. Marked N. I. R. 68 M., B. I.

A pinon 8 ins. diam. bears S. 81° W. 125 lbs. dist. Marked N. I. R. 68 M. B. I.

Surface rolling
Soil sandy
Timbers - scrub pinon and juniper
January 23rd 1885.

Chains

West on 69th mile true line
 Var. 13° 13' E.

500 Leave timber

940 Arroya 8 lks. wide, Course N.W.

955 Indian trail Course N.W. and S.E.

1100 Enter timber - scattering pinons

8000 Set a pitch pinon post 6 ft. long
 6 ins. square, with quart of charcoal,
 24 ins. in the ground, Marked N.I.R.
 on the North side P.L. on the South
 side and 69 M. on the East side,
 dug pits 24 x 24 x 12 ins. E. W. and
 N. of post 6 ft. dist. and raised
 a mound of Earth 2 1/2 ft. high
 5 ft. base around post.
 A pinon 16 ins. diam. bears S. 88° E.
 190 lks. dist. Marked N.I.R. 69 M. B.T.
 No other bearing trees within limits.
 Surface rolling
 Soil sandy - good gamma
 grass.
 Timber - Pinon - scattering

West on 70th mile true line
 Var. 13° 13' E.

290 Indian trail Course north and south

2750 Arroya 10 lks. wide Course North.

2770 Indian trail Course N. and S.

6475 Indian trail Course N.E. and S.W.

8000 Set a sand stone 34' x 12' x 3 1/2 in a
 mound of stones, Marked N.I.R. on
 the North side P.L. on the South
 side and 70 M. on the East side
 Pits impracticable.
 A juniper 10 ins. diam. bears S. 2° W.
 20 lks. dist. Marked N.I.R. 70 M. B.T.
 A pinon 6 ins. diam. bears N. 89° W.
 15 lks. dist. Marked N.I.R. 70 M. B.T.
 A pinon 16 ins. diam. bears N. 85° E.

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Chains

45 lks. dist. Marked N. I. R. 70 M. B. T.
 Surface rolling
 Soil sandy 2nd rate good
 gramma grass.
 Timber - Pinon.

West on 71st Mile, true line
 Va. 13° 13' E.

Over rolling prairie with a
 few scattering pinons.

8000 Set a Cedar post 6 feet long
 6 ins. square, with quart of
 charcoal 24 ins. in the ground,
 marked N. I. R. on the North
 P. L. on the South and 71 M. on the
 East side, dug pits 24 x 24 x 12 ins.
 E. W. and N. of Post 6 ft. dist. and
 raised a mound of Earth 2 1/2 ft.
 high 5 ft. base around post.

A juniper 6 ins. diam. bears N. 50°
 W. 261 lks. dist. Marked N. I. R., 71 M. B. T.

A juniper 7 ins. diam. bears S. 60° W.
 100 lks. dist. Marked N. I. R. 71 M. B. T.

No other bearing trees within
 limits.

Surface rolling.

Soil sandy Sage brush
 Bunch and gramma grass.
 Timber - a few scattering pinons
 and junipers.

West on 72nd Mile true line
 Va. 13° 13' E.

3240 Indian trail Course N. and S.

8000 Set a Cedar post 6 ft. long 6 ins.
 square, with quart of charcoal,
 24 ins. in the ground, marked
 N. I. R. on the North side P. L. on
 the South side and 72 M. on

Chains the East side. dug pits 24 x 24 x 12 ins. E. W. and N. of post 6 ft. dist. and raised a mound of Earth 2 1/2 ft. high. 5 ft. base around post.

A pinon 10 ins. diam. bears S. 85° W. 200 lbs. dist. Marked N. I. R. 72 M. B.T. No other bearing trees within limits.

Surface rolling prairies with a few scattering pinons
Soil sandy. Sagebush - good gamma grass.
January 24th 1885.

On the night of January 25th 1885 I took an observation on the star Polaris in accordance with instructions contained in Manual of Surveys, and drove pickets on the line so established.

Before commencing work on the morning of January 26th 1885 I test my compass on the line established last night and find it correct.

Went on 73rd mile true line
Va. 13° 13' E.

Over rolling ground

1030 Indian trail Course N.E. and S.W.

3400 Enter timber

4100 Enter rough breaks - bad land.

8000 Set a sand stone 42 x 13 x 3 1/2 in a mound of stones, Marked N. I. R. on the North side P.L. on the South side and 73 M. on the East side. Pits impracticable.

A pinon 10 ins. diam. bears S. 10° E.

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Chains

12 lks. dist. Marked N. 1. R., 73 M. B. I.
 A pinon 11 ins. diam. bears N. 8° E.
 45 lks. dist. Marked N. 1. R., 73 M. B. I.
 A pinon 8 ins. diam. bears N. 60° W.
 65 lks. dist. Marked N. 1. R. 73 M. B. I.
 Surface broken.
 Soil sandy for 41.00 chains - 3900 chains
 bad lands.
 Timber - scrub pinon and juniper.

West on 74th mile true line
 Va. 13° 13' E.

Over bad lands.

41.75 Indian trail. Course N. and S.
 8000 Set a sand stone 30' x 14' x 3' in
 a mound of stones, Marked
 N. 1. R. on the North side P. L. on the
 South side and 74 M. on the
 East side.
 Pits impracticable.
 A pinon 10 ins. diam. bears N. 85° E. 270
 lks. dist. Marked N. 1. R., 74 M. B. I.
 A juniper 6 ins. diam. bears N. 88° W.
 190 lks. dist. Marked N. 1. R. 74 M. B. I.
 No other bearing trees within limits.
 Surface rough and broken.
 Soil - bad lands.
 Timber - scrub pinons and juniper.

West on 75th mile true line
 Va. 13° 14' E.

Through rough hills.

800 Indian trail Course N. and S.
 5300 Leave timber and rough ground,
 and descend gradually.
 8000 Set a sand stone 28' x 12' x 5' in a
 mound of stones, Marked N. 1. R. on
 the North side P. L. on the South
 side and 75 M. on the East side dug

Chains

pits 24 x 24 x 12 ins. E. W. and N. of stone and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside.
 No Natural objects convenient for bearings.
 Surface Very rough and broken to 5300 chains then sloping gradually toward the West.
 Soil - Worthless.

West on 76th Mile true line
 Va. 13° 14' E.

Over rolling ground.
 6800 Indian trail Course North and South.
 8000 Set a sand stone 28' x 12' x 5' in a mound of stones, marked N. I. R. on the North side P.L. on the South side and 76 M. on the East side
 Pits impracticable.
 No Natural objects convenient for bearings.
 Surface prairie sloping West.
 Soil sandy and adobe 3rd rate.

West on 77th Mile true line
 Va. 13° 14' E.

Over rolling prairie
 3300 Dry Arroya 15 lbs. wide Course E. W.
 5700 Top of ridge Course N. and S.
 6300 Arroya 10 lbs. wide Course South
 7000 Mesa - With scattering scrub pinon
 8000 Set a sand stone 30' x 14' x 4 1/2 in a mound of stones, marked N. I. R. on the North side P.L. on the South side and 77 M. on the East side
 Pits impracticable.
 A pinon 8 ins. diam. bears S. 35° E.
 63 lbs. dist. Marked N. I. R. 77 M. B.T.

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Chains

A pinon 6 ins. diam. bears S. 80° W.
37 lks. dist. Marked N. I. R. 77 M. B. T.
No other bearing trees within
limits.
Surface rolling prairie.
Soil, red sandy - gamma grass
January 26th 1885

West on 78th mile true line
Var 13° 13' E.
Descending gently.
6000 Enter Valley of Pueblo Colorado Creek
thence over level ground
6300 Indian trail Course S. W. and N. E.
8000 Set a red sand stone 30' x 10' x 5' in
a mound of stones. Marked N. I. R.
on the North side P. L. on the
South side and 78 M. on the East
side - dug pits 24 x 24 x 12 ins.
E. W. and N. of stone and raised
a mound of earth 2 1/2 ft. high,
5 ft. base alongside.
No Natural objects convenient
for bearings.
Surface - prairie.
Soil - red sandy 2nd rate.

West on 79th mile true line
Var. 13° 13' E.
Over level ground.
4320 Dry Arroya 25 lks. wide Course S. 80° W.
7600 Dry Arroya 75 lks. wide Course S. 20° W.
8000 Set a sand stone 36' x 9' x 6' in a
mound of stones, Marked N. I. R.
on the North side P. L. on the
South side and 79 M. on the East
side. dug pits 24 x 24 x 12 ins
E. W. and N. of stone 6 ft. dist.
and raised a mound of

Chains Earth alongside
 No Natural objects convenient
 for bearings.
 Surface - level prairie
 Soil - red sandy - 2nd rate
 Good gamma and blue grass
 Some Sage brush.

West on 80th mile true line
 Va. 13° 13' E.

40 Pueblo Colorado Creek Arroya 60
 lks. wide Course South - no water
 900 Leave valley and ascend
 1300 Top of red sand stone hog backs
 about 100 ft. high Course N. and S.
 2000 Foot of hog backs.
 7950 Arroya 25 lks. wide Course S.E.
 8000 Set a sand stone 34' x 14' x 4' in a
 mound of stones, marked N.I.R. on
 the North side, P.L. on the South
 side and 80 M. on the East side
 dug pits 24 x 24 x 12 ins. E.W. and
 N. of stone 6 ft. dist. and raised a
 mound of earth 2 1/2 ft. high 5 ft.
 base alongside.
 No Natural objects convenient
 for bearings
 Surface rolling prairie
 Soil - red sandy - Good gamma
 grass.

West on 81st mile true line
 Va. 13° 14' E.

Ascending
 3000 Top of Mesa about 200 feet above
 Valley of Pueblo Colorado Creek
 8000 Set a sand stone 36' x 9' x 5' in a
 mound of stones, marked N.I.R. on the
 North side P.L. on the South

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Chains

side and 81 M. on the East side,
dug pits 24x24x12 ins. E. N. and
N. of stone 6 ft. dist. and raised
a mound of earth 2 1/2. high
5 ft. base alongside.
No Natural objects convenient
for bearings.
Surface rolling prairie
Soil - red sandy.
Good gramma grass.

West on 82nd mile true line
Va. 13° 13' E.

Over rolling ground

400 Enter scrub pinon timber
7500 Leave timber
8000 Set a sand stone 28'x15'x6' in
a mound of stones, marked N. I. R.
on the North side P. L. on the
South side and 82 M. on the
East side, dug pits 24x24x12
ins. E. N. and N. of stone 6 ft.
dist. and raised a mound
of earth 2 1/2 ft. high 5 ft base
alongside.
No Natural objects convenient
for bearings.
Surface rolling.
Soil sandy. 3rd rate - gramma
grass.
Timbers - Scrub pinon

West on 83rd mile true line.
Va. 13° 14' E.

Over rolling prairie

800 Dry Arroya 100 lks. wide Course S. W.
1600 Indian trail Course N. E. and S. W.
8000 Set a sand stone 24'x15'x4' in a
mound of stones, marked N. I. R.

Chains on the North side P.L. on the South side and 83 M. on the East side, dug pits 24x24x12 ins. E. W. and N. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside
 No Natural objects convenient for bearings.
 Surface rolling prairie.
 Soil sandy.

West on 84th Mile true line
 Dev. 13° 13' E.

Over rolling prairie
 5000 Dry Arroyo 50 ft wide Course S.W.
 7000 Indian Trail Course N and S.
 8000 Set a sand stone 32'x10'x5' in a mound of stones, marked N.I.R. on the North side P.L. on the South side and 84 M. on the East side, dug pits 24x24x12 ins. E. W. and N. of stone and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside.
 No Natural objects convenient for bearings.
 Surface rolling prairie
 Soil sandy. Good gamma grass.
 January 27th 1885.

On the night of January 27th 1885 I took an observation on the star Polaris in accordance with instructions contained in Manual of Surveys, and drove pickets on the line so established.
 Before commencing work on the morning of January 28th 1885 I test my compass on the line

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Chains established last night and find it correct.

West on 85th Mile true line
 Va. 13° 13' E.

Over rolling prairie

1600 Enter rough brakes covered with scrub pinon and juniper.

8050 Set a sand stone 28' x 14' x 6' in a mound of stones, Marked N. 1. R. on the North side P.L. on the South side and 85 M. on the East side dug pits 24 x 24 x 12 ins. E. W. and N. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside.

A juniper 12 ins. diam. bears S. 10° W. 50 lbs. dist. Marked N. 1. R. 85 M. B.T.

A juniper 6 ins. diam. bears N. 44° W. 33 lbs. dist. Marked N. 1. R. 85 M. B.T.

No other bearing trees within limits

Surface rough and broken
 Soil sandy - gamma grass.

West on 86th Mile true line
 Va. 13° 13' E.

Over high rolling prairie

8000 Set a sand stone 28' x 14' x 6' in a mound of stones, Marked N. 1. R. on the North side P.L. on the South side and 86 M. on the East side, dug pits 24 x 24 x 12 ins. E. W. and N. of stone and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside.

A scrub juniper 6 ins. diam bears N. 15° W. 110 links dist. Marked N. 1. R. 86 M. B.T.

Chains No other bearing trees within limits
Surface high rolling prairie
Soil sandy - 3rd rate - good gamma
grass
Timber - scattering scrub pinon and
juniper.

West on 87th mile, true line
Va. 13° 14' E.

8000 Over high rolling prairie
Set a sand stone 30' x 12' x 5' in a
mound of stones, marked N.I.R. on
the North side P.L. on the South
side and 87 M. on the East side,
dug pits 24 x 24 x 12 ins. E. W. and N.
6 ft. dist. and raised a mound
of earth 2 1/2 ft. high 5 ft. base
alongside.

A scrub juniper 6 ins. diam.
bears N. 50° E. 210 lbs. dist. marked
N.I.R. 87 M. B.I.

No other bearing trees within limits
Surface - high rolling prairie.
Soil sandy - 3rd rate - good gamma
grass
Timber - a little scattering scrub
pinon and juniper.

West on 88th mile true line
Va. 13° 14' E.

72.00 Over high rolling prairie
Dry Arroya 50 lbs. side Course South
8000 Set a sand stone 34' x 16' x 3' in a
mound of stones, marked N.I.R. on
the North side P.L. on the South
side and 88 M. on the East side,
dug pits 24 x 24 x 12 ins. E. W. and N.
of stone 6 ft. dist. and raised
a mound of earth 2 1/2 ft. high

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Chains 5 ft. base alongside
 No Natural objects convenient
 for bearings.
 Surface high rolling prairie.
 Soil sandy. 3rd rate. Good gamma
 grass.
 Timber - a little scattering scrub
 pinon and juniper.

West on 89th mile true line
 Va. 13° 13' E.

Over rolling prairie

1000 Indian trail Course S.E. and N.W.

6700 Enter rough breaks covered with
 scrub pinon and juniper -
 sloping West.

8000 Set a sand stone 32' x 12' x 4' in a
 mound of stones, marked N. I. R. on
 the North side, P. L. on the South
 side and 89 M. on the East side.
 dug pits 24 x 24 x 12 ins. E. W. and
 N. of stone 6 ft. dist. and raised a
 mound of earth 2 1/2 ft. high 5 ft.
 base alongside.

A pinon 6 ins. diam. bears S. 88° E.

12 lbs. dist. marked N. I. R. 89 M. B. I.

No other bearing trees within limits.

Surface broken

Soil sandy 3rd rate.

West on 90th mile true line

Va. 13° 13' E.

Over brakes descending West.

6300 Eagle rock Valley

8000 Set a sand stone 32' x 16' x 4 1/2' in
 a mound of stones, marked N. I. R.
 on the North side P. L. on the
 South side and 90 M. on the East
 side, dug pits 24 x 24 x 12 ins.

Chains E. W. and N. of stone, 6 ft. dist. and raised a mound of Earth 2 1/2 ft. high 5 ft. base alongside.
 No Natural objects convenient for bearings
 Surface broken to 63.00 chains, then level prairie
 Soil sandy and adobe 2nd rate.
 January 28th 1885.

West on 91st Miles true line
 Va. 13° 13' E.
 Over level valley
 600 Indian trail Course N.E. and S.W.
 1330 Indian trail Course South
 2900 Dry Arroya - 25 lk wide, Course South
 5000 Leave Valley and enter rough ascending ground
 8000 Set a sand stone 30' x 14' x 5' in a mound of stones, marked N. 1. R. on the North side - P.L. on the South side and 91 N. on the East side, dug pits 24 x 24 x 12 ins. E. W. and N. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside.
 No Natural objects convenient for bearings.
 Surface - level Valley to 50.00 chains then rough ascending ground.
 Soil sandy and adobe - 2nd rate.

West on 92nd Miles true line
 Va. 13° 13' E.
 Over rough hills Ascending
 7000 Edge of Mesa
 8000 Set a sand stone 30' x 12' x 3' in a mound of stones, marked N. 1. R. on the North side P.L. on the South

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Chains sides and 92 M. on the East side dug pits 24 x 24 x 12 ins. E. W. and N. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside
 No Natural objects convenient for bearings
 Surface rough.
 Soil sandy - 4th rate.

West on 93rd Mile true line
 Va. 13° 13' E.

Over high Mesa

16.50 Arroya 15 lbs. wide Course S W.
 2700 Arroya 20 lbs. wide Course S E.
 5800 Indian trail - Course N E. and S W.
 8000 Set a sand stone 32' x 15' x 5' in a mound of stones, marked N. 1. R. on the North side P. L. on the South side and 93 M. on the East side, dug pits 24 x 24 x 12 ins. E. W. and N. of stone and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside.
 No Natural objects convenient for bearings.
 Surface rolling - high Mesa
 Soil sandy 3rd rate.

West on 94th Mile true line
 Va. 13° 13' E.

Over high Mesa.

4000 Leave Mesa - Enter rough hills descending west.
 6600 Gulch 100 lbs. wide 40 ft. deep Course South - Thence ascending over rough breaks
 8000 Set a sand stone 28' x 16' x 3' in a mound of stones marked N. 1. R.

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Chains on the North side P.L. on the South side and 94 M. on the East side, pits impracticable
 A pinon 6 ins. diam. bears S. 45° W. 45 lks. dist. Marked N. I. R., 94 M. B. T.
 A pinon 9 ins. diam. bears S. 89° W. 50 lks. dist. Marked N. I. R., 94 M. B. T.
 No other bearing trees within limits
 Surface - rough and broken
 Soil sandy and rocky worthless
 Timber - scattering scrub pinon
 January 29th 1885

West on 95th mile true line
 Va. 13° 12' E.
 Over rough breaks ascending
 7800 Top of narrow mesa
 8000 Set a sand stone 37' x 14' x 5' in a mound of stones, Marked N. I. R. on the North side P.L. on the South side and 95 M. on the East side, dug pits 24 x 24 x 12 ins. E. W. and N. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside.
 No Natural objects convenient for bearings.
 Surface very rough
 Soil sandy and rocky - worthless

West on 96th mile true line
 Va. 13° 13' E.
 Over mesa
 1500 West Edge of mesa - thence descending over rough ground
 5270 Valley - narrow - Course South
 5630 Indian trail - Course N. and S.
 5800 Leave Valley - Ascend over broken ground

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Chains

8000

Set a sand stone 32' x 10' x 7' in a mound of stones, marked N. 1. R. on the North side P.L. on the South side and 96 M. on the East side dug pits 24 x 24 x 12 ins. E. N. and N. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base alongside
 No Natural objects convenient for bearings
 Surface broken
 Soil sandy and rocky - 4th rate.

31.04

West on 97th Mile true line
 Va. 13° 12' E

Ascending rough ground
 Top of mesa. Very broken surface with scrub pinon and juniper

8000

Set a sand stone 28' x 17' x 4' in a mound of stones, marked N. 1. R. on the North side P.L. on the South side and 97 M. on the East side

Pits impracticable
 A juniper 10 ins. diam. bears S. 10° W. 90 lbs. dist. marked N. 1. R. 97 M. B. I.
 A pinon 6 ins. diam. bears S. 80° W. 30 lbs. dist. marked N. 1. R. 97 M. B. I.
 No other bearing trees within limits
 Surface Very rough and broken
 Soil sandy and rocky - worthless.
 Timber - scrub pinon and juniper

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West on 98th Mile true line
 Va. 13° 13' E

To a point 54 miles West of Territorial boundary between the Territories of New Mexico

Chains and Arizona where I established a monument to mark the S.W. corner of the Navajo Indian Reservation as follows.

Set a sand stone 38' x 15' x 6 in a mound of stones. Marked S.W.C. N.I.R. on the North side P.L. on the South side, and dug pits 24 x 24 x 12 ins. N.E. & W. of stone and raised a mound of earth 3 ft. high 5 ft. base along sides.

A pinon 24 ins. diam. bears N. 15° E. 50 lbs. dist. Marked S.W.C., N.I.R. B.T.

A pinon 8 ins diam. bears N. 55° W. 130 lbs. dist. Marked S.W.C., N.I.R. B.T.

A pinon 7 ins. diam. bears N. 85° W. 80 lbs. dist. Marked S.W.C., N.I.R. B.T.

A pinon 6 ins. diam. bears S. 5° E. 40 lbs. dist. Marked S.W.C. N.I.R., B.T.

Surface rough

Soil sandy and rocky worthless.

Timber Pinon

January 30th 1885.

General Description.

This line runs over very rough mountainous country most of the way. Along that portion which lies in the territory of New Mexico coal crops out on all of the breaks.

John G. Evans
United States Deputy Surveyor

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List of Names

A list of the names of individuals employed by John G. Evans U. S. deputy surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the East and South Boundaries of the Navajo Indian Reservation in the Territories of New Mexico and Arizona, showing the respective capacities in which they acted.

Samuel E. Day	Compassman
Charles H. Day	Chainman
George Wallace	Chainman
Robert Mitchell	Chainman
George Irwin	Chainman
Christian Huber	Axeman
Therion H. Burbidge	Axeman
James Williams	Flagman

Final Oaths of Assistants

We hereby certify that we assisted John G. Evans United States deputy surveyor in surveying all those parts or portions of the East and South Boundaries of the Navajo Indian Reservation in the Territories of New Mexico and Arizona as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established according to the instructions furnished by the Commissioner of the General Land Office

Samuel E. Day	Compassman
Charles H. Day	Chainman

George Wallace	Chairman
Robert Mitchell	Chairman
George Irwin	Chairman
Christian Huber	Exeman
Therin H. Burbridge	Exeman
James Williams	Flagman

Subscribed and sworn to before me
this 2nd day of February 1885.

John G. Evans

United States Deputy Surveyor

This oath was administered by me
because there was no person au-
thorized to administer oaths within
a hundred miles of where we
disbanded

John G. Evans

United States Deputy Surveyor

I, John G. Evans United States deputy
surveyor, do solemnly swear that in
pursuance of instructions re-
ceived from the Commissioner of
the General Land Office bearing date
the thirteenth day of November 1884
I have well, faithfully, and truly, in
my own proper person, and in
strict conformity with the instructions
furnished by the Commissioner of the
General Land Office, the Surveying Man-
ual, and the laws of the United States,
surveyed all those parts or portions
of the East and South Boundaries of the
Navajo Indian Reservation in the Territories
of New Mexico and Arizona, as are
represented in the foregoing field
notes as having been surveyed by
me and 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, printed instructions, the special instructions of the Commissioner of the General Land Office, and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected I will suffer the penalty of perjury under the provisions of an act of Congress approved August 8th 1846.

John G. Evans
United States deputy surveyor.
Subscribed and sworn to before me this

Department of the Interior
General Land Office Washington D.C. Mar. 7th 1885.
The foregoing field notes of the Survey of the East and South boundaries of the Navajo Indian Reservation in the Territories of New Mexico and Arizona executed by John G. Evans U. S. Deputy Surveyor, under his contract of November 13th 1884 having been critically examined the necessary corrections and explanations made, the said field notes and the surveys they describe are hereby approved

L. Harrison
Asst. Commissioner

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Department of the Interior
General Land Office

November 7, 1894

I hereby certify that the foregoing transcript of the field notes of the survey of that part of the South Boundary of the Navajo Indian Reservation in New Mexico and Arizona, from the forty-fourth to the ninety-eighth miles, inclusive, has been correctly copied from the original notes on file in this office.

Edw. A. Young
Acting Commissioner