

2286

Book M.

89

BOOK 2286

2286

FIELD NOTES

OF THE SURVEY OF THE

North ^{and} West Boundary T 8 N. R 10 E

Inc West Boundary T 7 N. R 10 E

2286

2286

Of the G. & N. W. R. R. & A. Co. Meridian,

Arizona

AS SURVEYED BY

Hugh J. DuVal, United States Deputy Surveyor,

Under his Contract No. 163, dated May 16, 1910

Survey commenced February 8, 1911

Survey completed " 10, 1911

2286

2286

For

BOOK 2286

NAMES AND DUTIES OF ASSISTANTS.

See Book A

Handwriting practice lines consisting of horizontal dashed lines.

BOOK 2286

INDEX DIAGRAM.

Township _____, Range _____

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TSP, P/105

Meanders Page _____

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 distances 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 _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



Chains.

Survey commenced Feb. 8th, 1911 and executed with a Blount & Co., Light Engineering transit, No. 601, previously described.

I examine the adjustments of the transit and find them to be in adjustment, then to test the solar apparatus by comparing its indications made by obs. during a. m. and p. m. hours with a meridian as established by Polaris obs., I proceed as follows:-

At my camp in section 33 T. 7 S., R. 10 E., lat. 32°46'N., 111°20'50" W., long., I set off 15°9½'S. on the decl. arc, 57°14' on the co-lat. arc, and at 10h, a. m., l. m. t., I determine a mer. with the solar, and mark a point in the mer. thus determined on a stone, finally set 5 chs. N. of my station.

At 3h, p. m., l. m. t., I set off 15°5½'S. on the decl. arc, 57°14' on the co-lat. arc and determine a mer. with the solar and mark a point in the line thereof by cutting a small groove in the stone already set 5 chs. N. of my station, this point falls 0.7 ins., W. of mer. determined by a. m. solar.

At 10h.12m. by my watch set to l. m. t., I obs. Polaris at Western Elongation and mark a point in the line thus determined by a peg set 5 chs. N. of my station, in accordance with the Manual of Instructions.

Feb. 8th, 1911.

Feb. 9th.

At 6h30m, a. m., l. m. t., I set off the Polaris, 1°23' to the east, and mark a point in the mer. thus determined on the stone, already set 5 chs. N. of my station, on Feb. 8th. The meridian falls 0.3 ins. W. of the mer. determined by the A. M. solar.

The solar apparatus by a. m. and p. m. obs., defines positions for meridians, respectively, 0° 16" E. and 0°21"W. of the mer. as determined by the Polaris obs., hence I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 6h30m, a. m., l. m. t. is N.13°25'W.; the angle thus determined gives the mag. decl. 13°25'E.

From the cor. of Tps. 8 and 9 S., Rs., 9 and 10 E., a post 4 ins. sq., 2 ft. above ground, properly marked and witnessed as described by the Surveyor General, (I to help perpetuate this cor., pile a mound of stone around the post.) I run North bet. secs. 31 and 36. Va. 13°50'E.

40.00 Set a quartzite stone, 14x8x7 ins., 10 ins. in the ground, for the ¼ sec. cor., mkd. ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

44.00 Arroyo, 15 lks. wide, course SE.

80.00 Set a granite stone, 15x8x7 ins., 10 ins. in the ground for the cor. of secs. 25, 30, 31 and 36, mkd. with 1 notch on the S. and 5 notches on the N. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land rolling. Soil 2nd rate. Mesquite, palo verde and cacti.

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Chains.

North bet. secs. 25 and 30. Va. 13°34'N.

40.00 Set a quartzite stone, 15x9x5 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set a granite stone, 15x9x6 ins., 10 ins. in the ground for the cor. of secs. 24, 25, 19 and 30, mkd. with 2 notches on the S. and 4 notches on the N. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 2nd rate. Mesquite, castus and palo verde.

North bet. secs. 19 and 24.

40.00 Set a quartzite stone, 15x9x5 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set a granite stone, 15x9x6 ins., 10 ins. in the ground, for the cor. of secs. 13, 18, 19 and 24, mkd. with 3 notches on the N. and S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 2nd rate. Mesquite, palo verde and casti.

North bet. secs. 13 and 18.

40.00 Set a granite stone, 16x9x5 ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

40.40 Arroyo, 20 lks. wide, course SE.

80.00 Set a granite stone, 15x8x5 ins., 10 ins. in the ground for the cor. of secs. 7, 12, 13 and 18, mkd. with 2 notches on the N. and 4 notches on the S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 2nd rate. Mesquite, palo verde and casti.

North bet. secs. 7 and 12.

40.00 Set a granite stone, 14x9x5 ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and dig pits 18x18x12 ins., N. and S. of cor., 3 ft. dist. and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set a granite stone, 14x8x6 ins., 10 ins. in the ground for the cor. of secs. 1, 6, 7 and 12, mkd. with 1 notch on the N. and 5 notches on the S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 2nd rate. Mesquite, palo verde and casti.

North bet. secs. 1 and 6.

West boundary of T. 8 S., R. 10 E.

Chains.

- 40.00 Set a granite stone, 12x9x6 ins., 8 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 46.69 Arroyo, 15 lks. wide, course E.
- 80.00 Set a granite stone, 18x10x10 ins., 12 ins. in the ground for the cor. of Tps. 7 and 8 S., Rs. 9 and 10 E., mkd. 7S on NE, 10E on SE., 8 S on SW., and 9E on NW. face, with 6 notches on the N., E., S. and W. edges, dig pits 24x24x12 ins., N., E. and W. 4 ft. and S. of stone, 8 ft. dist. and raise a mound of earth, 5 ft. base, 3 ft. high, S. of cor.
- A Mesquite, 8 ins. in diam., bears S.27°30'E., 258 lks., mkd. T8SR10ES6BT.,
- A Mesquite, 5 ins. in diam., bears S.6°W., 188 lks. dist., mkd. T8SR9ES1BT.,
- A Mesquite, 9 ins. in diam., bears N.75°30'W., 142 lks. dist., mkd. T7SR9.E836BT.

Land rolling. Soil 2nd rate. Mesquite, pale verde and cacti undergrowth.

Feb. 9th:- At this cor., I set off 14°49' S. on the decl. arc, and at 12h14m, p. m., l. n. t., I obs. the sun on the mer., the resulting lat. is 32°46' N.

Chains.

Feb 9.

From the cor. of Tps. 7 and 8 S., Rs. 10 and 11 E., an old mesquite post in a very delapidated condition, old marks still visible, and which I re-establish as follows:-

Set a granite stone, 16x9x5 ins., 10 ins. in the ground for the corner of Tps. 7 and 8 S., Rs. 10 and 11 E., mkd. 7S on NE., 11 E on SE., 8S on SW. and 10E. on NW. face, with 6 notches on the N., S., E. and W. edges, and dig pits, 24x18x12 ins., N., E., and W., 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 45 ft. base, 2-1/2 ft. high, S. of cor.

A mesquite tree, 10 ins. in diam., bears N.49°E., 180 lks. dist., mkd. T7SR11ES31BT.

I run west on a random line setting temp. 1/4 and sec. cors. at intervals of forty chains, and at 473.42 chs. I intersect the range line at a point 198 lks. S. of the cor. of Tps. 7 and 8 S., Rs. 9 and 10 E., previously set by me. This calls for a correction of 33 lks. per mile or 14'.

Thence I run S.89°46'E. on a true line bet/ secs. 6 and 31.

33.42. Set a granite stone, 15x12x8 ins., ^{10 ins. in ground} for the 1/4 sec. cor., mk d 1/4 on the N. face, and dig pits, 18x18x12 ins., E. and W. of cor., 3 ft. dist. and raise a mound of earth, 3-1/2 ft. base, 1-1/2 ft. high, N. of cor.

73.42 Set a granite stone, 15x8x6 ins., 10 ins. in the ground for the cor. of secs. 5, 6, 31 and 32, mkd. with 1 notch on the W. and 5 notches on the E. edges and dig pits, 18x18x12 ins. in each sec., 5-1/2 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land rolling. Soil 4th rate. Mesquite brush.

S.89°46'E. bet. secs. 5 and 32.

40.00 Set a granite stone, 15x7x6 ins., 10 ins. in the ground for the 1/4 sec. cor., mkd. 1/4 on N. face, and dig pits 18x18x12 ins., E. and W. of cor. 3 ft/ dist. and raise a mound of earth, 3-1/2 ft. base, 1-1/2 ft. high, N. of cor.

47.50 Fence bears N. and S.

80.00 Set a granite stone, 18x15x14 ins., 12 ins. in the ground for the cor. of secs/ 4, 5, 32 and 33, mkd. with 2 notches on the W. and 4 notches on the E. edges and dig pits, 18x18x12 ins., in each sec., 5-1/2 ft. dist. and raise a mound of earth, 4 ft/ base, 2 ft/ high, W. of cor.
Land rolling. Soil 3rd rate. Mesquite brush.

S.89°46'E. bet. secs. 4 and 33.

1.70 Corral fence bears NW. and SE.
1.37 Corral fence bears N. and S.
3.28 Corral fence bears N. and S.
3.71 Corral fence bears NE. and SW.
4.68 Trough, 20 ins. wide and 75 ft. long bears N. and S.
4.72 Corral fence bears N. and S.
4.87 Bank of reservoir bears N. 8 ft. and S. 100 ft.
5.49 Bank dividing reservoirs bears N. and S.
5.96 Bank of reservoir, N. 30 ft. and S. 70 ft.
6.52 Well 300 ft. deep, cased, with windmill bears S. 1 lk.
6.86 Well 300 ft. deep, cased, with pump bears N. 12 lks.
7.94 The NW. cor. of Joseph Spinaz house bears S. 415 lks.
4 room adobe.

N. bdy. of T. 8 S., R. 10 E.

Chains,

18.00 Fence bears N. and S.
 27.50 Road to Tucson and Florence bears N. and S.
 40.00 Set a mesquite post, 3 ft. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground for the 1/4 sec. cor., mkd. 1/4S33 on N. and 4 on S. face, and dig pits, 18x18x12 ins., E. and W. of cor., 3 ft/ dist/ and raise a mound of earth, 3-1/2 ft. base, 1-1/2 ft. high, N. of cor.

80.00 ~~Set a mesquite post 36 ins. long, with mkd. stone, 24 ins. in the ground for the cor. of secs. 3, 4, 33 and 34, mkd. T7SS34 on NE., R1OES3 on SE., S8SS4 on SW. and S 33 on NW. face, with 3 notches on the E. and W. edges, and dig pits, 18x18x12 ins. in each sec. 5-1/2 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.~~
 A mesquite tree 10 ins. in diam. bears S. 55° E., 10 lks. in diam., mkd. T8SR1OES3BT.

Land rolling. Soil 2nd rate. Mesquite brush.

Feb. 9th: At this cor. I set off 14°45' S. on the decl. arc, 57°14' on the co-lat. arc, and determine a mer. with the solar at 4h, p. m., 1. m. t.

S. 89°46' E. bet. secs. 3 and 34.
 40.00 ~~Set a mesquite post, 36 ins. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground for the 1/4 sec. cor., mkd. 1/4S34 on N. and 3 on S. face, and dig pits, 18x18x12 ins., E. and W. of cor. 3 ft. dist. and raise a mound of earth, 3-1/2 ft. base, 1-1/2 ft. high, N. of cor.~~

80.00 ~~Set a mesquite post for the cor. of secs. 2, 3, 34 and 35, 36 ins. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground, mkd. T7SS35 on NE., R1OES2 on SE., T8SS3 on SW. and S33 on NW. face, with 2 notches on the E. and 4 notches on the W. edge, and dig pits, 18x18x12 ins. in each sec. 5-1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.~~

Land rolling. Soil 2nd rate. Mesquite brush.

S. 89°46' E. bet. secs. 2 and 35.
 40.00 Set a mesquite post, 36 ins. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground, for the 1/4 sec. cor., mkd. 1/4S35 on N. and 2 on S. face, and dig pits, 18x18x12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth, 3-1/2 ft. base, 1-1/2 ft. high, N. of cor.

80.00 Set a mesquite post, 36 ins. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground, for the cor. of secs. 1, 2, 35 and 36, mkd. T7SS36 on NE., R1OES1 on SE., T8SS2 on SW., and S35 on NW. face, with 5 notches on the W. and 1 notch on the E. edge, and dig pits, 18x18x12 ins., in each sec. 5-1/2 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft/ high, W. of cor.

Land rolling. Soil 2nd rate. Mesquite brush.

S. 89°46' E. bet. secs. 1 and 36.
 40.00 Set a mesquite post, 36 ins. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground for the 1/4 sec. cor., mkd. 1/4S36 on N. and 1 on S. face, and dig pits, 18x18x12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth, 3-1/2 ft. Base, 1-1/2 ft. high, N. of cor/

80.00 The cor. Of Tps. 7 and 8 S., Rs. 10 and 11 E.,

Feb. 9th, 1911.

For description of these Cor. see consecutive notes on page 10 herewith

Part of the West Boundary of T. 7 S., R. 10 E.

Chains.

From the cor. of Tps. 7 and 8 S., Rs. 9 and 10 E., previously described, I run North bet. secs. 31 and 36.

40.00.

Set a mesquite post, 36 ins. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ S 36 on W. face, $\frac{1}{4}$ N 31 on E. face, and dig pits, 18x18x12 ins., N. and S. of post, 4 ft. dist. and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.60

Set a mesquite post, 36 ins. long, 4 ins. sq., with mkd. stone, 24 ins. in the ground for the cor. of secs. 25, 30, 31 and 36, mkd. T7SS30 on NE., R10ES31 on SE., R9E S36 on SW. and S25 on NW. face, with 1 notch on the S. and 5 notches on the N. edge, and dig pits, 18x18x12 ins., in each section, 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth, 2 ft. high, 4 ft. base, W. of cor.

Land rolling. Soil 2nd rate. Mesquite brush and scattering cacti.

Note:- This work was done in connection with other work on February 10th, 1911.

August Dulal
V. S. D. S $\frac{1}{4}$

Table of Latitudes & Departures.

Bdy.	Course.	Dist.	N.	S.	E.	W.
W.	North	480.00	480.00			
N.	S. 89°46'E.	473.42		1.98	473.42	
E.	South	480.00		480.00		
S.	S. 69°54'W.	476.00		.84		476.00
	Convergency				.47	
			480.00	482.82	473.89	476.00

Excess southings, 2.82
 Excess westings, 2.11

GENERAL DESCRIPTION.

This township lies on the gentle West Slope of Picachi mountains. The soil is good. Chaparel, palo verde and mesquite undergrowth is scattered all over the township. The land is good grazing.

Henry J. DeWitt
 U.S. D. S.

Corrections in Tp. Line bet. T.7 and 8 S., Through R.10 E.

Chains/

40.00 From the corner of secs. 2, 3, 34 and 35, I run N.89 46'W. on a true line ^{between secs 32 34} 36 ins. long. I set a mesquite post, 4 ins. sq. with mkd. stone, 24 ins. in the ground, for the 1/4 sec. cor., mkd. 1/4 S. 34 on N. and 3 on S. face, and dig pits, 18x18x12 ins., E. and W. of cor. 3 ft. dist. and raise a mound of earth, 5-1/2 ft. base, 1-1/2 ft. high, N. of cor/

80.00 Set a mesquite post, 4 ins. sq., 36 ins. long, with mkd. stone, 24 ins. in the ground, for the cor. of secs. 3, 4 33 and 34, mkd. with 3 notches on the E. and W. edges, T7S S34 on NE. R10ES3 on SE., T8SS4 on SW. and S33 on NW. face, and dig pits, 18x18x12 ins., in each section, 5-1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

A mesquite tree 10 ins. in diam., bears S.65 E., 22 lks. dist., mkd. T8SR10ES3BT.

No other tree available.

I removed the post at the corner of sections 2, 3, 34 and 35 which was reported by the examiner as being improperly marked and substituted a granite stone, 16x9x8 ins., 10 ins. in the ground, mkd. with 2 notches on the E. and 4 notches on the W. edge, utilizing same pits and mounds described in foregoing field notes.

Hughes
U. S. D. S.

Nov. 1st, 1911.

Note:
These corrections are covered by oaths attached to Book N.

See page 6 for original case.

LIST OF NAMES.

A list of the names of the individuals employed by

Hugh J. Duval

....., United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of *S.W. & frac. N. Bdrs. T9S. R31E: frac. W. Bdy. T23S. R24E.; frac. N. Bdy. T20S. R21E: N. Bdy. T12S. R13E: E.W. N & S Bdrs. T12S. R9E: N & W Bdrs. T8S. R10E: frac. W. Bdy. T7S. R10E.*

showing the respective capacities in which they acted:

Cris Phillips

....., Chainman.

J. P. Duval

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

Bob Manuel

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

Hugh J. Duval

....., United States Deputy Surveyor, in surveying all

those parts or portions of the *S.W. & frac. N. Bdrs. of T9R. R31E. frac. W. Bdy. T23R. R24E. frac. N. Bdy. T20R. R21E. North Bdy. T12R. R13E. N. Bdy. & W. Bdrs. T12R. R9E. N & W. Bdrs. T8R. R10E. frac. W. Bdy. T7R. R10E* of the *Good*

R. D. Bell

meridian,

Territory of Arizona

....., which 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 United States Surveyor

General for

Arizona

Cris Phillips
J.P. Duval

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

Bob Manuel

....., Flagman.

Subscribed and sworn to before me this *28th* day of *June*, 1911



My Commission Expires April 27, 1914

John Evans
Notary Public

150 17
BOOK 2286

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hugh J. Dugal, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank D. Ingalls United States Surveyor General for Arizona, bearing date of the 16th day of May, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Q¹W¹ and four N¹ B¹s of T¹R¹E¹;
Sec. W. Bdy. T¹R¹E¹; Sec. N. Bdy. T¹R¹E¹; North Bdy. of T¹R¹E¹; N¹ E¹W. Bds. T¹R¹E¹; N¹ and W. Bds. T¹R¹E¹; Sec. W. Bdy. T¹R¹E¹.
of the G¹S¹R 10¹ and meridian, in the Territory of Arizona, which 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 survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Hugh J. Dugal
United States Deputy Surveyor.

Subscribed by said Hugh J. Dugal, and sworn to before me }
this 28 day of July, 1911

J. S. Merritt
Clerk Circuit Court
By J. B. Hawkins & Co



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Thomas C. Gray July 13, 1912.

The foregoing field notes of the survey of the North and West Boundaries of T¹R¹E¹ and four N¹ B¹s of T¹R¹E¹ are from West Boundary of T¹R¹E¹ Bdy. side & set Paris Base Meridian, Arizona

executed by Hugh J. Dugal N.S.D.
under his contract No. 163, dated May 16, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank D. Ingalls
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.