

Cupboard 28
Shelf 5
No. 33
1 book.

TRANSCRIPTS
FROM
FIELD METEOROLOGICAL RECORD

Book No. *46*, 1877.

METEOROLOGICAL RECORDS.

Party No. *Virginia Special Section.*

From Camp at *American Flat, June 18th, 1877.*

To Camp at *American Flat, Oct. 3d, 1877.*
Ter.



Autro Nash In charge of party.

Engineer Department, U. S. Army.

U. S. Geographical Surveys West of 100th Meridian.


METEOROLOGICAL RECORDS.

FORM II.—BOOK No. 2846, 1877.

——
U. S. ENGINEER OFFICE.
——

GEOGRAPHICAL SURVEYS

West of the 100th Meridian.

——

.....
CORPS OF ENGINEERS,
IN CHARGE.

Party ~~No.~~ Special Section No. Virginia
From (Camp) 1 American Flat Storey Co. Nevada.
To (Camp) " " " " " "
Dates: from June 18th, 1877, to Oct 3rd, 1877.

Louis Seckels

Meteorological Observer.

REMARKS.

The Western Bar and Aneroid are arranged in a tent;
Psychrometers and Max & Min. Therm. are hung outside.
Observations from June 8 to 17 will be found in the other
Transcript-book. His 'Bar' 2159 = Standard.
See Note Page 35, Book No 47

, 1877.

I CERTIFY that I have compared this transcript with the original
records of observations and find it correct.

Stewart

Lt. U. S.

Executive Officer.

no of cert barometer observation 219
" " aneroid 5 19/5.

METEOROLOGICAL OBSERVATIONS

Party No. Division No. Virginia Special

Recorded in Book No. 109

TAKE IN THE FIELD, 1877.

, Computer.

Main data table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No., CISTERN BAROMETER No., ANEROID No., THERMOMETERS, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Includes handwritten entries for July 2-8.

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer.

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 1877

Party No. Division No. Virginia Special

Recorded in Book No. 109

, Computer.

Table with columns for DATE, HOUR, STANDARD CIST. BAROMETER No. 2159, CISTERN BAROMETER No. 2158, ANEROID No. 14, ANEROID No., THERMOMETERS (No. 12, No. 17), FORCE OF VAPOR, REL. HUMIDITY, CLOUDS, RAIN OR SNOW, WIND, and REMARKS. Data is recorded for dates July 17 through 24.

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations.

METEOROLOGICAL OBSERVATIONS

IN THE FIELD, 1877.

Party No. _____ Division No. *Virginia Special*

Recorded in _____ Book No. *110*

, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <i>2159</i>					CISTERN BAROMETER No. _____				ANEROID No. <i>14</i>			ANEROID No. _____			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	Att'd Ther. Error.	Reading.	Error.	No. <i>13</i>	No. <i>17</i>	Maxim.	Minim.	Dry bulb. <i>+0.3</i>			Wet bulb. <i>+0.4</i>	Difference.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.		Direction.	Force.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Camp 1 American Flat (continued)</i>																																		
<i>July 25</i>	<i>7:am</i>	<i>61.0</i>	<i>24.744</i>										<i>58.0</i>	<i>24.02</i>						<i>38.0</i>	<i>63.1</i>	<i>52.2</i>	<i>1.08</i>		<i>485</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
	<i>9:pm</i>	<i>58.3</i>	<i>24.736</i>										<i>66.0</i>	<i>24.02</i>					<i>88.5</i>	<i>68.6</i>	<i>51.1</i>	<i>1.74</i>		<i>323</i>	<i>0</i>	<i>0</i>					<i>N.W.</i>	<i>12</i>		
<i>26</i>	<i>7:am</i>	<i>59.4</i>	<i>24.762</i>										<i>56.0</i>	<i>24.07</i>						<i>38.0</i>	<i>61.9</i>	<i>52.4</i>	<i>9.4</i>		<i>531</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
	<i>9:pm</i>	<i>61.8</i>	<i>24.768</i>										<i>60.0</i>	<i>24.13</i>					<i>91.0</i>	<i>61.7</i>	<i>50.5</i>	<i>1.11</i>		<i>470</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>		
<i>27</i>	<i>7:am</i>	<i>58.3</i>	<i>24.846</i>										<i>56.0</i>	<i>24.22</i>						<i>37.5</i>	<i>61.4</i>	<i>53.8</i>	<i>7.5</i>		<i>605</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
	<i>9:pm</i>	<i>66.4</i>	<i>24.842</i>										<i>65.0</i>	<i>24.18</i>					<i>91.5</i>	<i>66.5</i>	<i>52.7</i>	<i>13.7</i>		<i>411</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>		
<i>28</i>	<i>7:am</i>	<i>62.7</i>	<i>24.868</i>										<i>60.0</i>	<i>24.22</i>						<i>41.5</i>	<i>65.3</i>	<i>58.0</i>	<i>7.2</i>		<i>628</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	<i>Misty</i>
	<i>9:pm</i>	<i>70.6</i>	<i>24.848</i>										<i>69.0</i>	<i>24.18</i>					<i>95.0</i>	<i>71.7</i>	<i>53.9</i>	<i>17.7</i>		<i>328</i>	<i>1</i>	<i>cum.</i>	<i>S.W.</i>				<i>N.W.</i>	<i>4</i>		
<i>29</i>	<i>7:am</i>	<i>67.0</i>	<i>24.821</i>										<i>65.0</i>	<i>24.17</i>						<i>44.5</i>	<i>69.2</i>	<i>53.6</i>	<i>15.5</i>		<i>372</i>	<i>1</i>	<i>cum.</i>	<i>S.W.</i>				<i>N.W.</i>	<i>2</i>	
	<i>2:pm</i>	<i>89.6</i>	<i>24.790</i>										<i>94.0</i>	<i>24.155</i>						<i>80.3</i>	<i>57.6</i>	<i>24.6</i>		<i>238</i>	<i>0</i>	<i>0</i>					<i>12</i>			
	<i>9:pm</i>	<i>67.3</i>	<i>24.732</i>										<i>61.0</i>	<i>24.08</i>					<i>85.5</i>	<i>62.3</i>	<i>52.6</i>	<i>9.6</i>		<i>526</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>		
<i>30</i>	<i>7:am</i>	<i>54.6</i>	<i>24.784</i>										<i>52.0</i>	<i>24.13</i>						<i>33.0</i>	<i>53.7</i>	<i>45.2</i>	<i>10.4</i>		<i>469</i>	<i>0</i>	<i>0</i>					<i>S.E.</i>	<i>2</i>	
	<i>2:pm</i>	<i>85.3</i>	<i>24.805</i>										<i>90.0</i>	<i>24.17</i>						<i>75.9</i>	<i>58.0</i>	<i>17.8</i>		<i>341</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>		
	<i>9:pm</i>	<i>54.4</i>	<i>24.752</i>										<i>52.0</i>	<i>24.11</i>					<i>80.0</i>	<i>54.6</i>	<i>46.7</i>	<i>7.8</i>		<i>565</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>		
<i>31</i>	<i>7:am</i>	<i>57.0</i>	<i>24.780</i>										<i>55.0</i>	<i>24.145</i>						<i>32.0</i>	<i>60.3</i>	<i>48.1</i>	<i>12.1</i>		<i>432</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
	<i>9:pm</i>	<i>59.1</i>	<i>24.810</i>										<i>58.0</i>	<i>24.15</i>					<i>90.5</i>	<i>58.6</i>	<i>51.2</i>	<i>7.3</i>		<i>603</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>		
<i>August 1</i>	<i>7:am</i>	<i>57.6</i>	<i>24.852</i>										<i>60.0</i>	<i>24.20</i>						<i>37.0</i>	<i>61.4</i>	<i>51.0</i>	<i>10.3</i>		<i>496</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
	<i>2:pm</i>	<i>96.8</i>	<i>24.902</i>										<i>103.0</i>	<i>24.255</i>						<i>88.3</i>	<i>60.2</i>	<i>28.0</i>		<i>205</i>	<i>1</i>	<i>bir. cum.</i>	<i>S.W.</i>				<i>N.</i>	<i>4</i>		
	<i>9:pm</i>	<i>66.4</i>	<i>24.868</i>										<i>64.0</i>	<i>24.22</i>					<i>90.5</i>	<i>66.5</i>	<i>48.4</i>	<i>18.0</i>		<i>304</i>	<i>0</i>	<i>0</i>					<i>12</i>			

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from these at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No. *Virginia Special* Division No. *Virginia Special*

Recorded in

Book No. *110*

IN THE FIELD, 1877.

, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <i>2159</i>					CISTERN BAROMETER No. _____					ANEROID No. <i>14</i>			ANEROID No. _____			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.				
		Att'd Ther. Error <i>± 0.8</i>	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.	Error.	No. <i>18</i>	No. <i>17</i>	Maximum.	Minimum.	Dry bulb. <i>+0.3</i>			Wet bulb. <i>+0.1</i>	Difference.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.		Inches.	Direction.	Force.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Camp 1 American Flat, (continued)</i>																																				
<i>August 2</i>	<i>7 A.M.</i>	<i>564</i>	<i>24860</i>	<i>-080</i>	<i>24780</i>								<i>57.0</i>	<i>24.22</i>					<i>33.5</i>	<i>60.6</i>	<i>50.3</i>	<i>10.2</i>		<i>497</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>				
	<i>2 P.M.</i>	<i>826</i>	<i>24878</i>	<i>-159</i>	<i>24719</i>								<i>93.0</i>	<i>24.22</i>							<i>83.2</i>	<i>55.6</i>	<i>27.5</i>		<i>198</i>	<i>0</i>	<i>0</i>					<i>N.W.</i>	<i>4</i>		<i>Very bright meteor seen at 8.15 P.M. going from North to South.</i>	
	<i>9 P.M.</i>	<i>628</i>	<i>24780</i>	<i>-099</i>	<i>24681</i>									<i>61.0</i>	<i>24.13</i>					<i>86.5</i>	<i>64.6</i>	<i>45.3</i>	<i>19.2</i>		<i>270</i>	<i>0</i>	<i>0</i>						<i>2</i>			
<i>3</i>	<i>7 A.M.</i>	<i>546</i>	<i>24760</i>										<i>53.0</i>	<i>24.12</i>					<i>32.0</i>	<i>58.0</i>	<i>49.2</i>	<i>8.7</i>		<i>540</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>				
	<i>9 P.M.</i>	<i>594</i>	<i>24708</i>										<i>57.0</i>	<i>24.06</i>					<i>85.5</i>	<i>60.6</i>	<i>45.3</i>	<i>15.2</i>		<i>345</i>	<i>0</i>	<i>0</i>					<i>N.</i>	<i>2</i>				
<i>4</i>	<i>7 A.M.</i>	<i>532</i>	<i>24726</i>										<i>57.0</i>	<i>24.08</i>					<i>30.0</i>	<i>55.8</i>	<i>47.1</i>	<i>8.6</i>		<i>535</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>				
	<i>9 P.M.</i>	<i>629</i>	<i>24752</i>										<i>60.0</i>	<i>24.10</i>					<i>90.5</i>	<i>64.2</i>	<i>47.8</i>	<i>16.3</i>		<i>332</i>	<i>0</i>	<i>0</i>					<i>N.</i>	<i>2</i>				
<i>5</i>	<i>7 A.M.</i>	<i>566</i>	<i>24808</i>	<i>-085</i>	<i>24723</i>								<i>55.0</i>	<i>24.17</i>					<i>33.5</i>	<i>60.0</i>	<i>49.2</i>	<i>10.7</i>		<i>478</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>				
	<i>2 P.M.</i>	<i>934</i>	<i>24867</i>	<i>-165</i>	<i>24702</i>								<i>98.0</i>	<i>24.22</i>							<i>85.3</i>	<i>58.1</i>	<i>7.1</i>		<i>632</i>	<i>2</i>	<i>hum.</i>	<i>S.W.</i>				<i>N.</i>	<i>2</i>			
	<i>9 P.M.</i>	<i>655</i>	<i>24878</i>	<i>-106</i>	<i>24772</i>								<i>63.0</i>	<i>24.21</i>					<i>87.0</i>	<i>66.0</i>	<i>50.4</i>	<i>15.5</i>		<i>359</i>	<i>0</i>	<i>0</i>						<i>2</i>		<i>Unusual number of shooting stars seen this evening.</i>		
<i>6</i>	<i>7 A.M.</i>	<i>568</i>	<i>24916</i>	<i>-083</i>	<i>24833</i>	<i>-029</i>	<i>24804</i>						<i>74.0</i>	<i>24.27</i>					<i>35.5</i>	<i>60.2</i>	<i>50.9</i>	<i>9.2</i>		<i>533</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>				
	<i>9 P.M.</i>	<i>627</i>	<i>24920</i>	<i>-097</i>	<i>24823</i>	<i>+005</i>	<i>24828</i>						<i>60.0</i>	<i>24.26</i>					<i>94.0</i>	<i>59.7</i>	<i>50.0</i>	<i>9.6</i>		<i>518</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>				
<i>7</i>	<i>7 A.M.</i>	<i>589</i>	<i>24908</i>	<i>-088</i>	<i>24820</i>	<i>-029</i>	<i>24791</i>						<i>58.0</i>	<i>24.23</i>						<i>59.9</i>					<i>525</i>							<i>0</i>	<i>0</i>			
	<i>9 P.M.</i>	<i>673</i>	<i>24862</i>	<i>-107</i>	<i>24755</i>	<i>+005</i>	<i>24760</i>						<i>64.0</i>	<i>24.18</i>					<i>93.5</i>	<i>67.6</i>	<i>48.2</i>	<i>19.3</i>		<i>279</i>	<i>0</i>	<i>0</i>					<i>N.</i>	<i>4</i>		<i>Bright meteor seen going S.W. at 8:40 P.M.</i>		
<i>8</i>	<i>7 A.M.</i>	<i>596</i>	<i>24832</i>	<i>-090</i>	<i>24742</i>	<i>-029</i>	<i>24713</i>						<i>57.0</i>	<i>24.17</i>					<i>65.2</i>					<i>274</i>							<i>0</i>	<i>0</i>				
	<i>9 P.M.</i>	<i>632</i>	<i>24808</i>	<i>-101</i>	<i>24707</i>	<i>+005</i>	<i>24712</i>						<i>60.0</i>	<i>24.13</i>					<i>94.0</i>	<i>61.6</i>	<i>49.1</i>	<i>12.4</i>		<i>427</i>	<i>2</i>	<i>hum.</i>	<i>W.</i>				<i>0</i>	<i>0</i>				
<i>9</i>	<i>7 A.M.</i>	<i>554</i>	<i>24820</i>	<i>-083</i>	<i>24737</i>								<i>53.0</i>	<i>24.17</i>					<i>36.5</i>	<i>59.5</i>	<i>50.0</i>	<i>9.4</i>		<i>524</i>	<i>3</i>	<i>bir. Strat.</i>	<i>S.</i>				<i>0</i>	<i>0</i>				
	<i>2 P.M.</i>	<i>997</i>	<i>24842</i>	<i>-179</i>	<i>24663</i>								<i>105.0</i>	<i>24.18</i>							<i>88.9</i>	<i>59.3</i>	<i>29.5</i>		<i>187</i>	<i>7</i>	<i>bir. hum.</i>	<i>S.W.</i>				<i>S.E.</i>	<i>2</i>			
	<i>9 P.M.</i>	<i>688</i>	<i>24844</i>	<i>-111</i>	<i>24733</i>								<i>67.0</i>	<i>24.17</i>					<i>95.5</i>	<i>68.2</i>	<i>52.2</i>	<i>15.9</i>		<i>358</i>	<i>4</i>	<i>bir. Strat.</i>	<i>..</i>				<i>0</i>	<i>0</i>				
																				<i>72.2</i>					<i>356</i>											

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitual in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No. Division No. *Virginia Special*

Recorded in Book No. *1111*

, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <i>2159</i>					CISTERN BAROMETER No.					ANEROID No. <i>14</i>			ANEROID No.		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.	Error.
<i>1877</i>		<i>±0.8</i>															
<i>Camp in American Flat (continued)</i>																	
<i>August 28</i>	<i>7 a.m.</i>	<i>52.7</i>	<i>24848</i>	<i>-0.77</i>	<i>24.771</i>	<i>-0.29</i>	<i>24.42</i>				<i>50.0</i>	<i>24.10</i>					
	<i>9 p.m.</i>	<i>63.8</i>	<i>24808</i>	<i>-10.2</i>	<i>24.706</i>	<i>+0.05</i>	<i>7.11</i>				<i>62.0</i>	<i>24.08</i>					
							<i>24.726</i>										
<i>29</i>	<i>7 a.m.</i>	<i>57.2</i>	<i>24812</i>	<i>-0.88</i>	<i>24.724</i>						<i>54.0</i>	<i>24.08</i>					
	<i>2 p.m.</i>	<i>81.0</i>	<i>24826</i>	<i>-1.41</i>	<i>24.685</i>						<i>82.0</i>	<i>24.12</i>					
	<i>9 p.m.</i>	<i>54.2</i>	<i>24800</i>	<i>-0.61</i>	<i>24.739</i>		<i>24.716</i>				<i>52.0</i>	<i>24.08</i>					
<i>30</i>	<i>7 a.m.</i>	<i>42.3</i>	<i>24812</i>	<i>-0.54</i>	<i>24.758</i>	<i>-0.29</i>	<i>24.729</i>				<i>42.0</i>	<i>24.08</i>					
	<i>9 p.m.</i>	<i>55.0</i>	<i>24808</i>	<i>-0.83</i>	<i>24.725</i>	<i>+0.05</i>	<i>7.30</i>				<i>54.0</i>	<i>24.07</i>					
							<i>24.729</i>										
<i>31</i>	<i>7 a.m.</i>	<i>43.4</i>	<i>24808</i>	<i>-0.56</i>	<i>24.752</i>	<i>-0.29</i>	<i>24.723</i>				<i>44.0</i>	<i>24.08</i>	<i>+0.672</i>				
	<i>9 p.m.</i>	<i>60.2</i>	<i>24826</i>	<i>-0.94</i>	<i>24.732</i>	<i>+0.05</i>	<i>7.37</i>				<i>59.0</i>	<i>24.15</i>	<i>+0.582</i>				
							<i>24.730</i>						<i>+0.627</i>				
<i>Sept. 1</i>	<i>7 a.m.</i>	<i>47.8</i>	<i>24844</i>	<i>-0.68</i>	<i>24.776</i>	<i>-0.29</i>	<i>24.747</i>				<i>47.0</i>	<i>24.17</i>					
	<i>9 p.m.</i>	<i>65.3</i>	<i>24856</i>	<i>-1.06</i>	<i>24.750</i>	<i>+0.05</i>	<i>7.55</i>				<i>64.0</i>	<i>24.18</i>					
							<i>24.761</i>										
<i>2</i>	<i>7 a.m.</i>	<i>55.2</i>	<i>24874</i>	<i>-0.83</i>	<i>24.791</i>						<i>54.0</i>	<i>24.22</i>					
	<i>2 p.m.</i>	<i>94.3</i>	<i>24917</i>	<i>-1.70</i>	<i>24.747</i>						<i>98.0</i>	<i>24.26</i>					
	<i>9 p.m.</i>	<i>66.4</i>	<i>24862</i>	<i>-1.08</i>	<i>24.754</i>		<i>24.764</i>				<i>64.0</i>	<i>24.22</i>					
<i>3</i>	<i>7 a.m.</i>	<i>53.2</i>	<i>24900</i>	<i>-0.79</i>	<i>24.821</i>	<i>-0.29</i>	<i>24.792</i>				<i>52.0</i>	<i>24.23</i>					
	<i>9 p.m.</i>	<i>57.0</i>	<i>24858</i>	<i>-0.88</i>	<i>24.770</i>	<i>+0.05</i>	<i>7.75</i>				<i>56.0</i>	<i>24.15</i>					
							<i>24.783</i>										

ANEROID No.			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	Amount.	CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.
Att'd Ther.	Reading.	Error.	No. <i>13</i>	No. <i>17</i>	Dry bulb.	Wet bulb.	Difference.				Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.	
			Maxi-mum.	Mini-mum.	<i>+0.3</i>	<i>+0.4</i>												
			17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
				<i>33.5</i>	<i>57.2</i>	<i>49.2</i>	<i>7.9</i>		<i>571</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
			<i>90.0</i>	<i>64.3</i>	<i>46.1</i>	<i>18.1</i>			<i>292</i>	<i>1</i>	<i>Hum. S.W.</i>					<i>W.</i>	<i>4</i>	
				<i>60.7</i>					<i>431</i>									
				<i>37.5</i>	<i>61.2</i>	<i>46.0</i>	<i>15.1</i>		<i>350</i>	<i>1</i>	<i>Hum. S.W.</i>					<i>S.E.</i>	<i>2</i>	
				<i>76.3</i>	<i>54.2</i>	<i>22.0</i>			<i>262</i>	<i>2</i>	<i>Hum.</i>					<i>W.</i>	<i>12</i>	
			<i>80.0</i>	<i>53.8</i>	<i>43.0</i>	<i>10.7</i>			<i>449</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
				<i>63.8</i>					<i>354</i>									
				<i>27.5</i>	<i>47.0</i>	<i>42.2</i>	<i>4.7</i>		<i>688</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
			<i>85.5</i>	<i>54.2</i>	<i>45.5</i>	<i>8.6</i>			<i>527</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
				<i>50.6</i>					<i>607</i>									
				<i>32.0</i>	<i>48.6</i>	<i>43.5</i>	<i>5.0</i>		<i>674</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
			<i>80.5</i>	<i>52.0</i>	<i>47.3</i>	<i>11.6</i>			<i>443</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
				<i>53.8</i>					<i>558</i>									
				<i>29.0</i>	<i>53.3</i>	<i>45.2</i>	<i>8.0</i>		<i>550</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
			<i>90.5</i>	<i>63.7</i>	<i>49.6</i>	<i>14.0</i>			<i>389</i>	<i>2</i>	<i>Hum. S.W.</i>					<i>0</i>	<i>0</i>	
				<i>58.5</i>					<i>469</i>									
				<i>35.5</i>	<i>59.4</i>	<i>50.2</i>	<i>9.1</i>		<i>533</i>	<i>2</i>	<i>Hum. S.</i>					<i>0</i>	<i>0</i>	
				<i>84.2</i>	<i>59.5</i>	<i>24.6</i>			<i>243</i>	<i>7</i>	<i>S.W.</i>					<i>0</i>	<i>0</i>	
			<i>95.0</i>	<i>68.3</i>	<i>48.7</i>	<i>19.5</i>			<i>277</i>	<i>1</i>						<i>W.</i>	<i>2</i>	
				<i>64.3</i>					<i>351</i>									
				<i>34.0</i>	<i>57.3</i>	<i>46.8</i>	<i>10.4</i>		<i>477</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
			<i>93.5</i>	<i>56.2</i>	<i>47.3</i>	<i>8.8</i>			<i>528</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>	
				<i>56.7</i>					<i>502</i>									

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No. _____ Division No. *Virginia Special*

Recorded in _____

Book No. *111*

, Computer.

SMOKE IN THE FIELD, 1877.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <i>2159</i>					CISTERN BAROMETER No. _____					ANEROID No. <i>14</i>			ANEROID No. _____			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.	Error.	No. <i>13</i>	No. <i>17</i>	Maxi-mum.	Mini-mum.	Dry bulb. <i>+0.3</i>			Wet bulb. <i>+0.4</i>	Differ-ence.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<i>Camp in American Flat (continued)</i>																																	
<i>Sept. 4</i>	<i>7 a.m.</i>	<i>55.4</i>	<i>24842-083</i>	<i>24.759</i>	<i>-029</i>	<i>24.730</i>							<i>54.0</i>	<i>24.13</i>						<i>34.5</i>	<i>61.6</i>	<i>48.2</i>	<i>13.3</i>	<i>4.02</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>		
	<i>9 p.m.</i>	<i>70.2</i>	<i>24778-117</i>	<i>24.681</i>	<i>+005</i>	<i>24.686</i>							<i>68.0</i>	<i>24.04</i>					<i>96.5</i>	<i>70.3</i>	<i>49.6</i>	<i>28.6</i>	<i>2.69</i>	<i>0</i>	<i>0</i>				<i>W.</i>	<i>4</i>			
																				<i>65.9</i>				<i>.335</i>									
<i>5</i>	<i>7 a.m.</i>	<i>57.5</i>	<i>24754-088</i>	<i>24.666</i>	<i>-029</i>	<i>24.637</i>							<i>56.0</i>	<i>24.03</i>						<i>37.0</i>	<i>61.8</i>	<i>52.2</i>	<i>9.5</i>	<i>5.28</i>	<i>2</i>	<i>Cir. cum. N.W.</i>				<i>0</i>	<i>0</i>		
	<i>9 p.m.</i>	<i>65.6</i>	<i>24758-093</i>	<i>24.653</i>	<i>+005</i>	<i>24.658</i>							<i>64.0</i>	<i>24.00</i>					<i>92.5</i>	<i>65.6</i>	<i>48.7</i>	<i>16.8</i>	<i>3.25</i>	<i>0</i>	<i>0</i>				<i>W.</i>	<i>12</i>			
																				<i>63.7</i>				<i>11.26</i>									
<i>6</i>	<i>7 a.m.</i>	<i>58.3</i>	<i>24744-086</i>	<i>24.656</i>	<i>-029</i>	<i>24.627</i>							<i>55.0</i>	<i>24.02</i>						<i>38.5</i>	<i>64.0</i>	<i>47.2</i>	<i>16.7</i>	<i>3.21</i>	<i>5</i>	<i>cum. N.E.</i>				<i>0</i>	<i>0</i>		
	<i>9 p.m.</i>	<i>63.7</i>	<i>24786-101</i>	<i>24.685</i>	<i>+005</i>	<i>24.690</i>							<i>61.0</i>	<i>24.05</i>					<i>85.0</i>	<i>65.3</i>	<i>50.3</i>	<i>14.9</i>	<i>3.74</i>	<i>0</i>	<i>0</i>				<i>S.W.</i>	<i>4</i>			
																				<i>64.0</i>				<i>.349</i>									
<i>7</i>	<i>7 a.m.</i>	<i>49.6</i>	<i>24816-070</i>	<i>24.746</i>	<i>-029</i>	<i>24.717</i>							<i>48.0</i>	<i>24.075</i>						<i>32.0</i>	<i>52.3</i>	<i>46.1</i>	<i>6.1</i>	<i>6.33</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>		
	<i>9 p.m.</i>	<i>52.4</i>	<i>24824-077</i>	<i>24.747</i>	<i>+005</i>	<i>24.752</i>							<i>52.0</i>	<i>24.13</i>					<i>81.5</i>	<i>50.6</i>	<i>42.2</i>	<i>8.3</i>	<i>5.23</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>			
																				<i>51.4</i>				<i>.578</i>									
<i>8</i>	<i>7 a.m.</i>	<i>53.0</i>	<i>24818-078</i>	<i>24.740</i>									<i>52.0</i>	<i>24.13</i>						<i>31.5</i>	<i>58.2</i>	<i>45.3</i>	<i>12.8</i>	<i>3.99</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>		
	<i>2 p.m.</i>	<i>74.6</i>	<i>24830-170</i>	<i>24.660</i>									<i>96.0</i>	<i>24.13</i>						<i>85.3</i>	<i>63.6</i>	<i>21.6</i>	<i>2.97</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>			
	<i>9 p.m.</i>	<i>62.5</i>	<i>24794-099</i>	<i>24.695</i>									<i>62.0</i>	<i>24.08</i>					<i>88.0</i>	<i>61.6</i>	<i>46.4</i>	<i>13.1</i>	<i>3.51</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>			
																				<i>68.4</i>				<i>.349</i>									
<i>9</i>	<i>7 a.m.</i>	<i>55.4</i>	<i>24806-083</i>	<i>24.723</i>									<i>54.0</i>	<i>24.10</i>						<i>32.5</i>	<i>62.8</i>	<i>47.6</i>	<i>15.1</i>	<i>3.56</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>		
	<i>2 p.m.</i>	<i>93.7</i>	<i>24872-169</i>	<i>24.703</i>									<i>96.0</i>	<i>24.17</i>							<i>88.7</i>	<i>59.3</i>	<i>28.3</i>	<i>1.99</i>	<i>0</i>	<i>0</i>				<i>W.</i>	<i>12</i>		
	<i>9 p.m.</i>	<i>67.8</i>	<i>24824-111</i>	<i>24.713</i>									<i>66.0</i>	<i>24.12</i>					<i>94.0</i>	<i>67.3</i>	<i>53.4</i>	<i>13.9</i>	<i>4.11</i>	<i>0</i>	<i>0</i>				<i>0</i>	<i>0</i>			
																				<i>76.3</i>				<i>.322</i>									

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No.

Division No.

Virginia Special

Recorded in

Book No. 111

, Computer.

IN THE FIELD, 1877.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. 2157						CISTERN BAROMETER No. _____				ANEROID No. 14			ANEROID No. _____		
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.	Error.
1877																	
Camp in American Flat (continued)																	
Sept. 10	7 a.m.	65.0	24804	-10.6	24698			64.0	24.10								
	2 P.M.	87.2	24774	-15.4	24640			88.0	24.05								
	9:00	60.4	24664	-09.4	24570	24.636		60.0	23.93								
11	6 a.m.	57.3	24582	-0.86	24496	24.500		57.0	23.88								
	9 P.M.	45.0	24580	-0.60	24520	+0.05	52.5	44.0	23.83								
12	6 a.m.	39.7	24588	-0.47	24541	-0.20	24.525	40.0	23.85								
	9 P.M.	41.6	24724	-0.57	24678	+0.05	24.678	40.0	23.97								
13	6 a.m.	32.0	24762	-0.30	24732	-0.20	24.712	30.0	24.03								
	9 P.M.	51.2	24855	-0.79	24781	+0.05	24.786	50.0	24.12								
14	6 a.m.	43.4	24916	-0.57	24857	-0.20	24.837	42.0	24.20								
	9 P.M.	58.5	24784	-0.90	24894	+0.05	24.899	58.0	24.23								
15	6 a.m.	40.0	24734	-0.50	24884	-0.20	24.864	40.0	24.20								
	9 P.M.	59.2	24888	-0.92	24796	+0.05	24.801	58.0	24.14								
16	7 a.m.	49.8	24924	-0.71	24853			48.0	24.18								
	2 P.M.	84.6	24971	-1.49	24822			87.0	24.22								
	9:00	53.2	24918	-0.79	24839			52.0	24.17								
17	7 a.m.	47.7	24930	-0.67	24863	-0.29	24.834	46.0	24.185								
	9 P.M.	52.0	24882	-0.76	24806	+0.05	24.811	52.0	24.14								
18	6 a.m.	41.6	24860	-0.52	24808		24.822	42.0	24.12								

ANEROID No. _____			THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.
Att'd Ther.	Reading.	Error.	No.	Maxi- mum.	Mini- mum.	Dry bulb. +0.3	Wet bulb. +0.4			Differ- ence.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	
14	15	16	13	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			13															
					39.5	67.2	51.8	1.53		369	0	0					0	0
					81.6	58.9	2.26			269	0	0					S.W.	12
			85.5		61.2	47.4	1.37			391	1	Hum.	S.W.					4
					48.0	57.3	4.42	1.30		392	7							45
					50.7					.345								
			69.5		44.2	36.0	81			298	5	Hum.	N.W.				N.W.	25
					27.0	39.6	34.2	5.0		617	4	Nimbus						12
					41.4					.622								
			66.0		43.2	37.6	55			627	6	Nimbus	N.W.	4:30	5 th	Sprinkling	N.W.	12
					20.5	34.3	31.0	3.2		705	1							0
					42.5					.500								
			79.5		50.7	43.3	1.73			295	2	Hum.	N.					0
					28.0	44.6	38.0	6.5		578	0	0						0
					50.4					.555								
			67.5		56.2	47.4	8.7			533	6	Str. Hum.	S.W.					N.
					29.5	40.7	36.5	4.1		695	1	Strat.	N.E.					0
					49.6					.522								
			87.0		58.6	43.7	14.8			349	0	0						0
					22.5	54.7	45.8	8.8		521	0	0						0
					76.0	55.2	20.7			281	0	0						S.E.
			86.0		53.3	46.5	6.7			311	0	0						0
					61.3					.371								
					31.5	51.9	45.2	6.6		609	0	0						0
					69.0	51.3	41.6	9.6		477	0	0						0
					30.0	42.7	35.2	7.4		524	1	Stratus	S.E.					0

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No.

Division No. Virginia Special

Recorded in

Book No. 111

Computer.

SHOT IN THE FIELD, 1877.

DATE	HOUR	STANDARD CIST. BAROMETER No. 2159 ERROR ± .020					CISTERN BAROMETER No. _____				ANEROID No. 14			ANEROID No. _____			
		Att'd Ther. Error	Reading	Correct for error and red. to 32°	Barometer at 32°	Horary Correction	Barometer reduced	Att'd Ther.	Error	Reading	Error	Att'd Ther.	Reading	Error	Att'd Ther.	Reading	Error
1877																	
Sept. 18	6 a.m.	41.6	24860	-05	24808	-020											
Sept. 18	9 P.M.	64.2	24848	-10	24745	+005								62.0	24.12		
	7 a.m.	42.3	24846	-05	24792	-029								43.0	24.10		
	9 P.M.	65.4	24794	-10	24688	+005								64.0	24.04		
	6 a.m.	47.0	24736	-06	24672	-029								48.0	24.00		
	9 P.M.	56.2	24716	-08	24632	+005								54.0	23.99		
	7 a.m.	47.5	24716	-06	24652	-029								47.0	23.99		
	9 P.M.	56.4	24736	-08	24652	+005								56.0	23.99		
	7 a.m.	42.6	24708	-05	24647	-029								43.0	23.96		
	9 P.M.	47.3	24734	-06	24670	+005								48.0	23.98		
	7 a.m.	43.6	24776	-05	24720									43.0	24.02		
	2 P.M.	74.2	24806	-12	24680									76.0	24.04		
	9.00	48.8	24776	-06	24707									48.0	24.025		
	7 a.m.	42.8	24808	-05	24752	-029								42.0	24.05		
	9 P.M.	50.2	24808	-07	24736	+005								50.0	24.03		
	7 a.m.	48.3	24840	-06	24772	-029								47.0	24.07		
	9 P.M.	53.6	24808	-07	24729	+005								52.0	24.03		

ANEROID No.	THERMOMETERS.						Force of Vapor.	Rel. Humidity.	Amount.	CLOUDS.		RAIN OR SNOW.			WIND.		REMARKS.	
	Att'd Ther.	Reading.	Error.	No. 13		Difference.				Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.		
				Maxim.	Minim.													Dry bulb.
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
				30	42.7	35.2	7.4		524									
			90.0		65.3	49.1	16.1		341	0	0					0	0	
					54.0				482									
				32.5	43.2	35.6	7.5		523	0	0					0	0	
			91.5		63.9	57.2	6.6		429	7	cum	S.E.				0	0	
					53.5				476									
				33.0	46.3	39.4	6.8		577	4						0	0	
			82.5		58.3	44.0	14.2		363	3	Nimbus	S				0	0	
					52.3				470									
				30.5	53.9	43.3	10.5		557	0	0					0	0	
			78.0		57.3	42.5	14.7		345	7	hor. cum	N.				N.W.	4	
					55.6				451									
				30.0	41.6	36.2	5.3		629	8	hor. Nimbus	N.W.				0	0	
			75.0		45.5	35.4	10.0		422	2	hor.	S.W.				0	0	
					43.5				325									
				21.0	47.3	38.0	9.2		470	0	0					0	0	
					67.2	44.3	22.8		217	6	hor. cum	S				0	0	
			74.5		49.3	37.2	10.0		499	0	0					0	0	
					54.6				379									
				23.0	44.6	37.3	7.2		544	6	hor.	Strat	N.E.			0	0	
			77.0		50.3	43.2	0.7		580	0	0					0	0	
					47.4				562			Nimbus						
				28.5	52.2	43.5	8.6		517	0	0					0	0	
			79.5		53.3	44.6	10.6		460	2	hor.	S.W.				0	0	
					53.7				488									

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, next following record whatever may have been crowded out of the column of remarks concerning the preceding place of observation. Describe each locality in full, using, if necessary, the entire line immediately preceding the set of necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

NOTE.—On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all

METEOROLOGICAL OBSERVATIONS

Party No.

Division No. *Virginia Special*

Recorded in

Book No. *111*

, Computer.

DATE.	HOUR.	STANDARD CIST. BAROMETER No. <i>2159</i> Error ± <i>-0.20</i>					CISTERN BAROMETER No.				ANEROID No. <i>14</i>			ANEROID No.				
		Att'd Ther. Error	Reading.	Correct for error, and red. to 32°	Barometer at 32°	Hourly Correction.	Barometer reduced.	Att'd Ther.	Error.	Reading.	Error.	Att'd Ther.	Reading.	Error.	Att'd Ther.	Reading.	Error.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	14	15	16
<i>Camp in American Flat, (continued)</i>																		
<i>Sept 26</i>	<i>7 a.m.</i>	<i>49.7</i>	<i>24.824</i>	<i>-0.70</i>	<i>24.754</i>	<i>-0.29</i>	<i>24.725</i>						<i>48.0</i>	<i>24.07</i>				
	<i>9 p.m.</i>	<i>59.3</i>	<i>24.812</i>	<i>-0.92</i>	<i>24.720</i>	<i>+0.05</i>	<i>24.725</i>						<i>57.0</i>	<i>24.03</i>				
							<i>24.725</i>											
<i>27</i>	<i>7 a.m.</i>	<i>50.6</i>	<i>24.802</i>	<i>-0.72</i>	<i>24.730</i>	<i>-0.29</i>	<i>24.701</i>						<i>50.0</i>	<i>24.03</i>				
	<i>9 p.m.</i>	<i>62.3</i>	<i>24.784</i>	<i>-0.97</i>	<i>24.627</i>	<i>+0.05</i>	<i>24.632</i>						<i>60.0</i>	<i>23.95</i>				
							<i>24.632</i>											
<i>29</i>	<i>7 a.m.</i>	<i>52.4</i>	<i>24.682</i>	<i>-0.75</i>	<i>24.607</i>	<i>-0.29</i>	<i>24.578</i>						<i>51.0</i>	<i>23.90</i>				
	<i>9 p.m.</i>	<i>55.0</i>	<i>24.705</i>	<i>-0.82</i>	<i>24.618</i>	<i>+0.05</i>	<i>24.623</i>						<i>54.0</i>	<i>23.925</i>				
							<i>24.623</i>											
<i>Oct 1</i>	<i>7 a.m.</i>	<i>54.8</i>	<i>24.722</i>	<i>-0.82</i>	<i>24.640</i>	<i>-0.29</i>	<i>24.611</i>						<i>54.0</i>	<i>23.94</i>				
	<i>9 p.m.</i>	<i>51.2</i>	<i>24.726</i>	<i>-0.73</i>	<i>24.653</i>	<i>+0.05</i>	<i>24.658</i>						<i>51.0</i>	<i>23.94</i>				
							<i>24.634</i>											
<i>2</i>	<i>7 a.m.</i>	<i>43.6</i>	<i>24.784</i>	<i>-0.56</i>	<i>24.728</i>	<i>-0.29</i>	<i>24.699</i>						<i>43.0</i>	<i>24.05</i>				
	<i>9 p.m.</i>	<i>38.7</i>	<i>24.868</i>	<i>-0.45</i>	<i>24.823</i>	<i>+0.05</i>	<i>24.828</i>						<i>38.0</i>	<i>24.07</i>				
							<i>24.763</i>											
<i>3</i>	<i>7 a.m.</i>	<i>35.0</i>	<i>24.878</i>	<i>-0.39</i>	<i>24.839</i>	<i>-0.29</i>	<i>24.810</i>						<i>34.0</i>	<i>24.08</i>				
							<i>24.810</i>											

IN THE FIELD, 1877.

ANEROID No.	THERMOMETERS.					Force of Vapor.	Rel. Humidity.	CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.	
	Att'd Ther.	Reading.	Error.	No. <i>13</i>	No. <i>17</i>			Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.		
				Maxi-mum.	Mini-mum.												Dry bulb.
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
				<i>43.0</i>	<i>54.2</i>	<i>43.5</i>	<i>10.6</i>	<i>454</i>	<i>0</i>	<i>0</i>						<i>0</i>	<i>0</i>
			<i>80.5</i>		<i>61.3</i>	<i>48.5</i>	<i>12.7</i>	<i>416</i>	<i>0</i>	<i>0</i>						<i>W. W.</i>	<i>12</i>
					<i>57.7</i>			<i>435</i>									
				<i>33.5</i>	<i>57.4</i>	<i>47.6</i>	<i>9.7</i>	<i>505</i>	<i>0</i>	<i>0</i>						<i>0</i>	<i>0</i>
					<i>57.4</i>			<i>505</i>									
			<i>85.5</i>		<i>63.2</i>	<i>45.3</i>	<i>17.8</i>	<i>293</i>	<i>7</i>	<i>Sum.</i>	<i>S.W.</i>					<i>S.W.</i>	<i>4</i>
					<i>63.2</i>			<i>293</i>									
				<i>35.0</i>	<i>57.9</i>	<i>46.3</i>	<i>11.5</i>	<i>441</i>	<i>2</i>	<i>Mimbus</i>	<i>S.W.</i>					<i>0</i>	<i>0</i>
					<i>57.9</i>			<i>441</i>									
			<i>75.5</i>		<i>55.2</i>	<i>46.0</i>	<i>9.1</i>	<i>515</i>	<i>0</i>	<i>0</i>						<i>0</i>	<i>0</i>
					<i>55.2</i>			<i>515</i>									
				<i>34.5</i>	<i>56.3</i>	<i>44.2</i>	<i>12.0</i>	<i>418</i>	<i>1</i>	<i>Sum</i>	<i>S.W.</i>					<i>S.W.</i>	<i>2</i>
			<i>80.0</i>		<i>53.5</i>	<i>40.4</i>	<i>13.0</i>	<i>368</i>	<i>0</i>	<i>0</i>						<i>2</i>	<i>Blowing all day.</i>
					<i>54.9</i>			<i>393</i>									
				<i>20.5</i>	<i>44.3</i>	<i>37.6</i>	<i>6.6</i>	<i>571</i>	<i>0</i>	<i>0</i>						<i>W</i>	<i>2</i>
			<i>63.0</i>		<i>38.6</i>	<i>33.5</i>	<i>5.0</i>	<i>627</i>	<i>0</i>	<i>0</i>						<i>0</i>	<i>0</i>
					<i>42.4</i>			<i>599</i>									
				<i>16.0</i>	<i>40.3</i>	<i>32.4</i>	<i>7.8</i>	<i>487</i>	<i>0</i>	<i>0</i>						<i>0</i>	<i>0</i>
					<i>40.3</i>			<i>487</i>									

NOTE.—Transcript to be compared by Chief of party with original record, and forwarded, when book is filled, to the Office of the Survey. Fill out, in the field, columns Nos. 1, 2, 3, 4, 9, 11, 14, 15, 17, 18, 19, 20, 24, 25, 26, 27, 28, 29, 30, other barometer is to be obtained by comparison with the reading of the standard, corrected for instrumental error only, and with the reading of its "attached thermometer" corrected for error. The aneroid errors are to be determined by necessary corrections have been made. The reductions performed in each case are to be noted in writing at head of column.

and 31. Separate the observations at each place from those at the next following place by leaving two or more lines between them. On the first of these lines record in red ink the means of the preceding set of observations. On the lines observations at that locality. When two cistern barometers are read together, enter the reading of that one which is the more reliable, or which is more habitually in the party, in column 4, as the standard barometer. The error of the comparison with the "standard barometer at 32° F." The "error" is plus when the reading is less than that of the standard, and minus when greater. Column 13 is for recording the reduced readings of the second barometer after all