

METEOROLOGICAL.

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1. Read instruments *always* at 7 a. m., 2 p. m., and 9 p. m., and when in camp throughout an entire day, tri-hourly also.
2. Separate groups of observations by camps and places, describing in full the locality of each group.
3. Read barometers and psychrometers hourly in camp from 6 a. m. to 10 p. m. for several days when practicable, to secure horary tables.
4. Upon peaks take readings of barometer and psychrometer every fifteen minutes during occupancy; also in camp at same intervals while side-party is making a station.
5. Record all accidents to instruments, with dates and hours of accidents.
6. Compare instruments at all Signal Stations on the route with Signal Service instruments, and with those of other parties when practicable.
7. On the march, take readings of barometer and psychrometer at culminating points of trails.
8. Interchange of books and instruments between parties will be avoided.
9. Keep the record full and complete, in plain figures and round-hand, using number **5** pencils.

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METEOROLOGICAL RECORDS.

Form I--Book No. *56*, 1876.

U. S. ENGINEER OFFICE.

GEOGRAPHICAL SURVEYS

WEST OF THE 100TH MERIDIAN.

Lieut. A. R. Birnie

Corps of Engineers,
In charge.

Party No. 4

Section No. California

From (~~Camp~~) Tehas Sta. 15. Tex.

To (Camp) Carbon City Tex.

Dates, from Nov 18. 1876, to Nov 27. 1876.

W. A. Cowles

Meteorological Observer.

REMARKS.

Party: 4 California Section

, Observer.

DATE.	STANDARD CIST. BAR. No. 2158				CIST. BAR. No.		ANEROID.				
	Hour.	Attached Therm. 7.0	Reading.	Error $\frac{1}{100}$	Reduction to 32° F.	Barom. at 32°.	Attached Therm.	Reading.	Att'd Ther. No. Reading.	No. Reading.	Att'd Ther. No. Reading.
(Popog.) Nov 18.	12 ⁴⁰	67.0	25.462	-.006							68.0 25.120
18.	10 ^{PM}	68.5	.446								73.0 .085

THERMOMETERS.				CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.
No.		No. 7		Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.	
Max.	Min.	Dry.	Wet.									
		65.0	46.8	5	Ann					SE	2	- East of Carson Lake - en route from Camp 25 to 26
		71.7	48.8	6	Str					"	2	

Party:

Cowles, Observer.

DATE.	STANDARD CIST. BAR. No. 2158					CIST. BAR. No. 1376				ANEROID.				THERMOMETERS.				CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.								
	HOUR.	Attached Therm.	Reading.	Error ±.	Reduction to 32° F.	Barom. at 32°.	Attached Therm.	Reading.	Att'd Ther. No. Reading.	Att'd Ther. No. Reading.	Att'd Ther. No. Reading.	No. 7	No. 7	Max.	Min.	Dry.	Wet.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.									
Nov 18	9 PM	51.5	26.176																															
	19 AM	39.0	.089																															
Nov 19	11 AM	56.5	23.972																															

Camp 26. Lone Cabin Spr.
 51.0 26.157 52.5 25.850 53. 26.245 52.5 25.850
 39.0 1073 411.7 1750 411.3 .160 410.8 760
 Tapoz Station - 16 - 20' below top of mesa
 58.0 23.625

54.0 40.2
 38.0 40.2 33.0
 54.3 40.8

N 3
 N 3
 N 2
 W 10

Party:

, Observer.

DATE.	STANDARD CIST. BAR. No. <u>2158</u>					CIST. BAR. No.					ANEROID.					THERMOMETERS.				CLOUDS.			RAIN OR SNOW.			WIND.		REMARKS.							
	Hour.	Attached Therm.	Reading.	Error ±.	Reduction to 32° F.	Barom. at 32°.	Attached Therm.	Reading.	Att'd Ther. No. Reading.	No. Reading.	Att'd Ther. No. Reading.	No. Reading.	No.	No.	Max.	Min.	Dry.	Wet.	Amount.	Name.	Direction of Upper Clouds.	Began.	Ended.	Inches.	Direction.	Force.									
Nov 19	9 P.M.	40.0	26.253			Camp 27 on Carson Lake																													
" 20	7 am	29.1	22.30			44.5 25.915 41.0 25.950 32.0 25.920 33.0 945										20.0				42.0 36.2	1	mm									mm	2			
Nov 20	9 P.M.	38.0	25.902			Camp 6 near Norton well																													
" 21	7 am	19.0	.994			40.5 25.675 40. 25.600 24.0 .725 21.0 1700										16.0				38.5 32.5	W	mm										Calmer			
Nov 21	9 P.M.	24.0	26.129			Camp Bucklands Ranch																													
" 21	7 am	19.5	.183			29.0 25.815 26 25.835 25.6 .885 21.0 .900										12.5				26 28.5		clear											Calmer		

Cupboard 28
Shelf 1
No. 100
1 book

Book No. *86*, 1876.

METEOROLOGICAL RECORDS.

Party No. *4*, *California* section.

From ~~Camp~~ at *Tapog Sta. 15*, *Mar. 18*, 1876.

To Camp at *Carson City*, *Mar. 27*, 1876.
near

Lieut. R. Birnie In charge of party.

Engineer Department, U. S. Army.

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