

Cupboard 27
 Shelf 4
 No. 20
 1 book

TRIANGULATION.

Book No. ~~25~~, 1875.

34

TOPOGRAPHICAL RECORDS.

Party No. _____ Section. _____

From ~~Camp No.~~ ^{July 19}, 1875, at *Niblack's Peak*

To ~~Camp No.~~ ^{Oct. 20}, 1875, at *Sandia*

Atlas Sheet No. _____

F. A. Clark, Observer.

In charge of party.

Engineer Department, U. S. Army.

Geographical Surveys West of 100th Meridian.

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Numbers ~~not~~ underscored are those on the Printed
Disregulation Sheet of report for 1875.

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Date: July 19th 1875
 Station: Hiblocks Pt., Head Washington Pass *Primary No. 1*

Observer: *Walter Clark*
 Instrument: *Spurden's Transit No. 112*

OBJECTS.	Sinead READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
Cerro Lata	360 00 00		0000	
"	64 51 10		5110	
⁴⁰ 4th Tri. Shut.	64 51 10	51 45	51 27.5	64 51 27.5
Top Y of 74	129 40 50	41 00	40 55	
M. Taylor ⁵⁷	126 24 40	25 15	24 57.5	^{C.S.} 126 25 18.75
"	191 16 50	16 50	16 50	
R of '74	129 38 30	29 00	38 45	
"	194 78 30	28 40	28 35	
R of '74	194 40 30	40 40	40 35	129 49 25
Captain Pt	340 08 00	08 50	08 15	
"	45 01 50	02 30	02 10	
North Needle	358 50 55	51 30	51 12.5	
"	63 40 20	41 00	40 40	
Cerro Lata	360 00 00	00 35	00 17.5	
"	64 50 35	51 20	50 57.5	
M. M.				

OBJECTS.	Revers READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	136 03 40	03 55	03 47.5		Very hazy though clear
"	64 53 40	54 00	53 52.5		
"	64 55 00	55 00	55 00	64 50 55	
"	129 44 30		44 30	64 51 05.83	mean of 3.
	126 27 20	27 10	27 15	126 24 27.5	
"	191 19 30	19 10	19 20	126 24 53.12	
				129 38 02.5	
"	129 40 30	40 30	40 30		
"	194 32 10	31 30	31 50		
"	194 43 50	43 15	43 32.5	129 49 40	
"				129 49 32.5	
"	340 10 00	09 50	09 55	340 08 27.83	
"	558 52 50	52 30	52 50		
"	63 43 35			358 49 21.16	
"	360 03 10	03 10	03 10		
"	64 54 20	54 20	54 20		
"	80 49			Cerro Lata - M. M. 15 55 15	

Date: August 19 1875
 Station: Mount Taylor, N.M. 57
 District

Primary No. 2

Observer: Fred Atkinson
 Instrument: Burdeman Transit No. 112
 Reviser

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
XX 26 46	37 01 10	01 30	01 20	19 36 50
Artilla 52	56 38 00	38 20	38 10	13 11 55
Placer 56	69 50 00	50 10	50 05	4 58 15
Sandia 58	74 48 10	48 30	48 20	
^{Nacacok} Mogana Hills				23 05 05
No. 1. good for 2.	97 53 20	53 30	53 20	
do				8 41 36
No. 2.	106 34 50	35 00	34 55	58 30 45
Ladronas				29 57 58
Mount South	136 32 40	33 00	32 50	
	136 29 45	29 20	29 35	29 54 40
Magdalen	149 14 20	14 30	14 25	12 41 33
				39 43 40
^a El Creston	188 58 10	58 00	58 05	17 05
	189 15 20	15 00	15 10	
				10 05 40
Alamocita 76	199 21 00	20 40	20 50	6 42 20
Top Sta XXVI	206 03 10	03 10	03 10	16 06 4
do XXVII	210 05 30	05 30	05 30	14 02 20

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	"	"	"	"	Nagal on Hills parenting distant lights
					To cen. moon
	74 47 40	47 10	47 25		
					23 03 35
	97 51 10	50 50	51 00		
					8 41 40
	106 32 50	32 30	32 40		

Date: August 19th 1895 (Continued)
Station: Mt. Taylor

Observer:
Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
XXVII	210 05 30	25 30 05 30		6 20 45
Top Sta XXV	216 26 20	26 10 26 15		6 20 45
do XXIV	245 55 20	55 20 55 20		29 29 05
L. Base point	252 35 30	35 30 35 30		6 40 10
	253 13 00	13 00 13 00		37 30
B of 74	290 55 10	55 10 55 10		37 42 10
				09 10
Hosta Butte	291 04 10	04 10 04 10		10 20
s.w. corner of a.s. 77	291 14 30	14 30 14 30		
Placer 56	69 49 30	49 30 49 30		13 8 35 00

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	"	"			
	245 55 10	55 10 55 10			
	290 53 00	53 00 53 00			
	291 01 30	01 20 01 25		08 25	
	291 13 50	13 50 13 50		12 25	

Date: August 28th 1870 - 4:30 to 6:00 a.m.
 Station: Mt. Taylor 57

Observer: Fred K. Clark
 Instrument: Hurdman Transit No. 112

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
Graduated	1 360 00 00	00 20 00 10		
	2 100	00 15 00 07.5		
	3 199	59 40 59 50		
Banded 28	1 151 26 05	26 10 26 07.5	151 25 57.5	
	2 251 38 00	38 15 38 07.5	38 00	
	3 351 38 20	38 30 38 25	38 30.5	
26 46	1 181	00 30 00 15	181 00 05	
	2 280 55 30	55 35 55 32.5	180 55 25	
	3			
Graduated	1			
	2 100		178 59 45	
	3 199 59 30	59 30 59 30	179 03 57.5	

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
Graduated	1 360 05 30	00 30 05 30			Grad. at camp / 3/4 mile dist.
	2 100 01 40	01 30 01 35			
	3 200 01 10	00 50 01 00			Set up for run left standing
Banded	1 151 43 30	43 40 43 35	151 38 05		+ incl. sighted from pt. a
	2 251 38 50	38 50 38 40	37 05		transit from camp
	3 351 39 20	39 10 39 15	38 15		
26 46	1 181 01 50	02 25 02 07.5	180 56 37.5		
	2 280 57 40	57 40 57 40	180 56 05		
	3 20 56 30	56 25 56 27.5	180 55 27.5		* 180 55 53.75
Graduated	1				
	2 100 00 10	00 40 00 25	278 58 17.5		
	3 200 01 40	01 10 01 25	179 03 45		

6 Banded + 26

29 17 37.9

Date: August 22nd 1875 4:30 to 6 am
 Station: Mt. Taylor 57

Observer: Frederick Clark
 Instrument: Hardenman Transit No. 112

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
²⁸ <u>Pauded Pt.</u>	360 00 00	00 30 00	00 15	
	1 00 00	00 15 00	00 07.5	
	3 20 00	00 10 00	00 05	
<u>26 46</u>	29 19 40	20 00 19	19 50	29 19 30
	2 29 18 00	17 50 17	17 55	29 17 50
<u>Placer 56</u>	62 06 25	06 40 06	06 32.5	62 06 17.5
	1 62 05 30	05 00 05	05 15	62 05 07.5
<u>Sandia 58</u>	167 04 40	04 40 04	04 40	67 04 32.5
	3 26 05 00	04 50 04	04 55	67 04 50
^{more} <u>Mogana Mt. 3</u>	290 08 50	08 50 08	08 50	23 03 55
<u>do 2</u>	298 50 10	50 30 50	50 20	8 41 30
				178 49 40
<u>P.S.E. from Charco 3</u>	117 40 00			18 06 05
<u>Wash Paf 1</u>	127 46 00	46 10 46	46 05	7 15 35
<u>Capetano Pt 3</u>	135 01 30	01 30 01	01 30	91 20 50
<u>Cobogon 3</u>	226 22 20		22 20	2 56 35
<u>26 46</u>	279 18 50	19 00 18	18 55	324 25 37.5
<u>Mag. Mer. 2</u>	193 44 25	44 00 44	44 32.5	

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	360 02 10	02 00 02	02 05		
	2 100 01 30	01 20 01	01 25		
	2 179 18 45	18 40 18	18 42.5	29 17 17.5	29 17 33.75
	1 62 08 20	08 15 08	08 17.5	62 06 12.5	
	2 162 06 30	06 15 06	06 22.5	62 04 07.5	62 05 36.75
	2 167 06 20	06 10 06	06 15	67 04 50	

Amble but 26 + Placer
 5 324 48 05

San Mateo

Little worth

Date: Aug. 22nd (Continued)
 Station: Mt Taylor 57

Observer:
 Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
M.M. 3	193 44 25	44 40	44 32.5	
Titilla 52	148 53 30	53 40 35	53 42	31 11 05
28	167 00 00	00 00	00 00	18 11 05
Pauleh Pk.	100 00 35	00 40	00 37.5	3 21 07 32.5

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	360 00 50	00 50	00 50		
	100 01 40	01 30	01 35		

Date: September 15-18 1895
 Station: Bandedon Navajo Pt. Colorado 28
Revised No. 3

Observer: W. H. Clark
 Instrument: Hurdeman Transit No. 112

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
<u>20</u> Cerro Blanca	0 " " "	359 46 16	46 40	46 25
		56 30 50	31 10	31 00
		92 23 00	23 15	23 07.5
		125 00 00	00 10	00 05
<u>25</u> N. Spanish Pt.		15 18 10	18 30	18 20
		107 56 10	56 20	56 15
				33 07.5
				32 31.25
<u>26</u> Trinchera		18 05 00	05 40	05 20
				2 47 00
<u>27</u> Culibral		46 12 20	12 40	12 30
		82 56 35	56 55	56 45
		118 51 25	51 25	51 15
				28 17.5
<u>32</u> Cortilla		40 37 45	38 05	37 00
		97 21 25	21 50	21 37.5
		133 15 25	15 25	15 15
				24 00
<u>36</u> Caj. Baldy		49 47 00	47 30	47 15
		142 24 20	24 40	24 30
				09 05
<u>37</u> Tros Pt.		56 30 50	31 20	31 05
		113 33 25	33 25	33 25
		149 12 15	12 30	12 22.5
		181 47 55	47 50	47 52.5
				56 47 47.5

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	0 " " "	359 52 30	52 15	52 22.5	Feather on peak.
		56 35 50	35 45	35 47.5	15 th rain do nothing
		92 26 15	26 00	26 07.5	16 th do
		145 07 50	07 50	07 50	17 th See tops peaks above clouds & precisely at sunset.
					18 th A.M. Pt. clear & sharp from Mt. Taylor. get underway
					To cen. mon. 8' 57"
					15-32-31.25
					26-26-12.66
					14-24-08.5
					14-24-51.5
					26-47-32.5

Date: _____
 Station: Randed Pt (continued) 28

Observer: _____
 Instrument: _____

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
⁴⁸ Santa M. Baldy	181 01 45	01 50	01 47.5	31 49 25
				37-46
26 46	107 22 25	22 35	22 30	50 51 25
⁴⁹ 200	00 00	59 50	59 55	150 47 37.5
232	36 05	35 50	35 57.5	50 48 05
M. Taylor	140 54 55	55 10	55 02.5	33 32 32.5
³ 233	34 00	33 55	33 57.5	33 34 02.5
⁴ 266	10 10	10 10	10 10	33 34 12.5
⁴⁰ V of 14	173 12 00	12 00	12 00	57-40 3W 16 57.5
				20-40 173 25-35 25-10
² 279	56 20	56 00	56 10	
Juniata Pt	192 27 40	27 10	27 25	19-10-25
Carigo Pt	199 36 00	36 00	36 00	7-13-35
Cerro Lata	214 08 30	08 30	08 30	40 - Corro Lata 40 56-30 55 32.5
² 270	51 45	51 40	51 42.5	
La Plata				57-50 La Plata 87 40 35.0
² 280	20 10	20 00	20 05	
³ 316	14 50	14 45	14 47.5	40 50.0

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
³ 181	04 30	03 50	04 10	31 50 12.5	31-49-48.75
¹ 107	25 30	25 00	25 15	50 54 10	
² 164	09 15	09 10	09 12.5	50 47 17.5	
³ 200	02 00	01 20	01 40	47 42.5	47 55-47-42.5
⁴ 232	43 00	42 30	42 45	47 55	
³ 233	36 20	36 00	36 10	33 34 30	31
⁴ 266	16 15	16 05	16 10	33 34 10	33 34 10
					432-34-02.5
¹ 173	17 00	16 80	16 45	173 14 22.5	20-40
² 279	59 30	59 20	59 25	43 37.5	20-40 3173-25-02.5
¹ 199	39 50	39 30	39 40		
¹ 214	13 00	12 25	12 42.5	40 57 57.5	40-C Lata 3 40-C Lata 40-56-40
¹ 243	42 05	41 25	41 42.5		
² 280	20 50	20 30	20 40		
³ 316	18 00	17 55	17 57.5		
					87 41 47.5
					3 57-202 82-41-04.16
					46-202 3 116 76-24.5

No. 2 the higher

Date:

Station:

Rounded Pt (continued) 28

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.		READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.				Vernier A.	B.			
La Plata										
no 1	724 07 20	07 35	07 27.5	0	31 50.					
2	280 52 10	52 05	52 07.5		32 02.5					
3	316 47 00	46 45	47 22.5		33 05					
Simpson's Pt										
no 1	251 01 50	02 10	02 00	no 1-16	26 54 32.5					
2	343 39 45	39 55	39 50	no 2-16	27 26 22.5					
3	343 39 45	39 55	39 50	no 2-16	27 26 22.5					
Pagosan Pt										
no 1	251 38 30	38 50	38 40	no 2-22	38 03 02.5					
2	308 23 40	23 40	23 40		03 35					
3	344 17 30	17 50	17 40		02 52.5					
Sta. H. Wash										
no 1	282 15 10		15 10	no 2-22	30 46 30.					
2	339 00 00	00 00	00 00		30 36 20					
3	14 53 45	54 10	53 57.5		36 17.5					
Blaines Pt										
no 1	284 45 15	45 30	45 22.5	no 2-Blaines	33 06 42.5					
2	341 29 00	29 15	29 07.5		05 27.5					
3	17 23 10	23 30	23 20		05 40.					
Del Norte Pt										
no 1	319 35 00	35 10	35 05		34 49 42.5					
2	53 14 30	15 00	14 45		41 25.					
Monument Pt										
no 1	311 11 20	11 40	11 30	Blaines - non	26 26 07.5					
2	7 56 15	56 30	56 22.5		27 15.					

no 2-20
50-31-42

no 2-16
327-26-10.83

no 2-22
528-03-19.5

no 2-24
30-36-21.87

no 2-Blaines
33-06-01.25

no 2-Blaines

no 2-Blaines - non
326-26-50

Date:
 Station: Pauded Pt (continued) 28

Observer:
 Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
<u>Land Augment</u>	0	"	"	None
<u>Range A</u>	329 04 35	04 15	04 20	17 52 50
<u>Range B</u>	25 49 30	49 55	49 42 5	53 20
<u>Range C</u>	61 43 55	44 25	44 10	
<u>Monoph N.E.</u>				Mean -
<u>Alciv</u>	357 13 15	13 20	13 17 5	15 44 10.0
<u>Alciv</u>	341 29 07 5		29 07 5	
<u>Alciv - 20</u>				
<u>Alciv</u>	359 45 05	45 30	45 17 5	74 59 5
<u>Alciv</u>	56 30 30	30 35	30 32 5	75 01 7 5
<u>Alciv</u>	124 59 40			
<u>26 46</u>				
<u>200 01 00</u>		59 50	59 55	
<u>26 46</u>	300 00 00	59 50	59 55	
<u>Mr. Taylor</u>	333 33 40	33 10	33 25	32 33 30
<u>26 46</u>	du			
<u>Mr. Taylor</u>	17 08 30	08 30	08 30	33 35 05
<u>26 46</u>	du			
<u>Mr. Taylor</u>	110 42 25	42 50	42 37 5	34 07 5
<u>26 46</u>	du			
<u>Mr. Taylor</u>	74 17 00	17 30	17 15	34 37 5

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	357 18 30	18 10	18 20	15 43 35	non-Dependent line 21753-05
	341		34 55		Alciv - Bull run 2115-43-525
	359 48 50	48 30	48 40	74 55 45	
	56 33 30	33 10	33 20	58 35	Alciv - 20 374-59-58.33
	125				46-20 325-23-46.66
	125 07 00	06 05	06 57 5		
	164 08 00	07 30	07 45		
	200 02 30	02 00	02 15		
	26 74 17 00	17 30	17 15		
	107 52 05	52 15	52 10	33 34 55	
	26 du				
	141 26 50	26 40	26 45	34 35	46.57 132-34-20
	26 du				
	175 00 30	00 20	00 25	33 40	
	26 du				
	208 34 30	34 40	34 35	34 10	
					733 34 13.57
					mean 18 readings 33 34 13.99

Date: _____
 Station: Paquetao Rv. (Continued) 28

Observer: _____
 Instrument: _____

OBJECTS.	READINGS.				MEAN OF A. & B.	DIFFERENTIAL ANGLES.	
	Vernier A.		B.				
	0	1	"	1	"		
Taos Rk ³¹ _{8 times}	200	00	00	00	20 00 10		
26 ⁴⁶	246	15	45	15	20 N-32.5 50 46 55.31		
Cerro Blanco ²⁰	150	00	00	00	15 00 07.5		
26 ^{10 times} ₄₆	145	43	00	43	10 43 05 107 34 17.75		
Culobra ²⁷ _{5 times}	353	39	45	39	40 39 42.5		
Taos ³⁷	145	19	45	19	40 19 42.5 30 20 00		
Cerro Blanco ²⁰	145	43	00	43	10 43 05		
Taos ^{10 times} ₃₇	353	39	45	39	40 39 42.5 56 47 40.2		
Cerro Blanco ²⁰	116	58	30	58	15 58 22.5		
Culobra ²⁷ _{5 times}	69	12	15	12	30 12 22.5 26 46 48		
26 ⁴⁶ _{10 times}	202	13	50	13	40 13 40		
Sa La Plata ²⁷ _{10 times}	284	55	40	55	40 55 42.5 116 16 11.75		
26 ⁴⁶ _{5 times}	284	55	40	55	40 55 42.5		
Sa La Plata ²⁷ _{10 times}	148	53	15	53	45 53 30 116 47 33.5		
Sa La Plata ²⁷ _{5 times}	148	53	15	53	45 53 30		✓
Simpsons ¹⁶ _{5 times}	285	05	00	05	25 05 12.5 27 14 70.5		
Simpsons ¹⁶ _{5 times}	285	05	00	05	25 05 12.5		✓
Cerro Blanco ²⁰	109	35	30	35	30 35 30 108 54 03.5		

OBJECTS.	READINGS.				MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.		B.				
	0	1	"	1	"		
							✓
	145	19	40	19	40 19 42.5		
Stairs	116	58	15	58	30 58 22.5 30 19 44		✓
	250	00	00	00	30 59 45		
Stairs	27	13	40	13	45 26 46 48		✓
							✓
Demuch ²⁰	107	35	30	35	30 35 30 141 59 05.5		
Blanca ¹⁶ _{5 times}	195	20	00	20	00 20 57.5		

Date: September 23rd 1895
 Station: Blain's Pk. Peering Sta. No. 4.

Observer: Frederick Clark
 Instrument: Hardenman Transit No. 112

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
		Vernier A.	B.		
	0 1 " "				
	Paused Pk ²⁸	360 00 00	0040 00 20		
	La Plata Mt	107 18 30	1830 18 30		107 18 10
	do Mt.	107 55 20	5530 55 25		36 55
	Pagosa Pk ²²	120 27 40	2750 27 45		12 32 20
	Buffalo Mt ¹⁸	123 16 30	1655 16 42.5		2 48 57.5
	Simpson's Pk ¹⁶	133 44 30	4440 44 35		10 27 52.5
	Blain's Pk ¹²	140 22 00	2230 22 15		6 37 40
	Macomb's ^{mon}	147 26 45	2720 27 02.5		17 04 47.5
	Macomb's ⁸	152 54 30	5500 54 45		15 27 42.5
	Bristol Head ^{NE}	160 50 00	5030 50 15		7 55 30
	^{mon}	167 09 50	1000 09 55		6 19 40
	Sta. H. ⁹	176 33 20	3345 33 32.5		9 23 37.5
	Pk. Mt. Del ^{mon}	205 00 00	0000 00 00		28 26 27.5
	Hunts Pk ⁶	211 57 10	5720 57 15		6 57 15

	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	0 1 " "				To Cen. mon 8' 52"
	360 00 00		00	107 19 57.5	
	107 20 15	1940 19 57.5		107 19 03.75	
	107 56 15	5600 56 07.5		36 10.	
	120 28 40	2755 28 17.5		36 32.5	
	123 17 30	1645 17 07.5		12 32 10.	
	133 44 25	4355 44 10		12 32 30	
	140 22 00	2230 22 15		2 48 50.	
	147 26 30	2630 26 30		2 48 53.75	
	152 53 45	5350 53 52.5		10 27 02.5	
	160 51 15	5050 51 02.5		10 27 27.5	
	167 10 30	0945 10 07.5		6 37 40	Restant in 28
	176 34 20	3400 34 10		17 04 47.5	
	205 00 30	0025 00 27.5		5 27 22.5	
	211 54 55	5455 54 35		5 27 32.5	
				7 57 10	
				27 56 20	
				6 19 05.	
				6 19 22.5	Uncertain as to mon in Pk.
				9 24 02.5	
				9 23 50	
				28 26 17.5	
				28 26 22.5	
				6 57 15	
				6 57 40.25	

Date:
 Station: Blains Pt (Continued)

Observer:
 Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
10 Mt. Bellows ²¹	279 16 00			17 12 50
A. of Banded Pt ²¹ <u>Rita Alto</u>	233 12 50	13 25	13 07.5	4 03 07.5
Del Norte ²¹	250 24 25	24 50	24 37.5	17 11 30.
Corra Blanca ²² (continued on p. 15)	269 15 45	16 20	16 02.5	18 51 25.
119 Banded Pt ²⁸	100 00 00	19 40	19 59.5	
Pajosa ²² <u>5 lines</u>	342 15 15	15 30	15 22.5	120 N 06.5
Pajosa ²² <u>10 lines</u>	360 00 00	00 40	00 20	
Simpsons ¹⁶	132 36 00	36 30	36 15	13 15 35.5
Simpsons ¹⁶	360 00 00	01 00	00 30	
Klaconits ^{5 lines}	68 35 20	35 50	35 37.5	13 43 01.5
Pajosa ²² <u>5 lines</u>	68 35 20	35 50	35 37.5	
39 Perial Anad ¹⁵	270 27 50	28 15	28 02.5	40 22 29
Simpsons ¹⁶	270 27 50	28 15	28 02.5	
44 Sta H. ⁹ <u>5 lines</u>	124 33 30	33 55	33 42.5	42 49 08
60 Del Norte ²¹ <u>5 lines</u>	200 00 00			
Mon. Pt.	159 51 10	51 30	51 20	63 58 16

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	0 0 00				These were made up on the station set
	233 11 N 10 25	10 50		17 12 50	
	250 24 00	23 30	23 45	17 12 12.5	
				18 48 37.5	
				218 50 01.25	
	269 13 00	11 45	12 22.5		

On Pajosa took as non. point 20° to right of true non. Pajosa took on Pajosa once or twice.

Date:

Station: Blains Pt (Continued)

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
7 th Sta. ⁹ _{5 lines} <i>St. A</i>	174 33 30	33 55 33	42.5	
<i>Del North</i> ²¹	133 43 35	43 50 43	42.5	73 50 00
<i>M. Pedersen</i>	159 51 10	51 30 51	20	
8 th <i>Mon. Pt</i> ^{5 lines}	226 00 55	01 00 00	57.5	85 13 55.5
<i>Mon Pt</i> ^{5 lines}	226 00 55	01 00 00	57.5	
4 th <i>Banded Pt</i> ²³	94 09 30	09 30 09	30	45 37 42.5

(Continued Readings)

<i>C. Blain</i>	269 15 45	16 20 16	20.5	12 00 42.5
<i>West Spanish</i> ²⁵	281 16 20	17 10 16	45	12 15 40
<i>Celebra</i> ²¹	293 32 00	32 50 32	20	20 53 37.5
<i>Monument Pt</i> ^{Mon}	314 25 55	26 10 26	07.5	45 38 50.
<i>Banded Pt</i> ²³ _{Mon}	360 04 45	05 00 04	52.5	361 16 37.5
<i>Mag. Mer.</i>	301 21 30	21 30		

After these readings level. Melting snow & frozen ground having settled tripod to extent of some 4" prob. affecting readings back as far as Sta. 4

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
	269 13 00	11 45 12	72.5	12 00 55.	Reverse readings
	281 13 20	13 15 13	17.5	12 00 48.75	the latter
				12 15 40	
				120 53 37.5	
	314 23 30	23 20 23	20	45 37 42.5	
				241 538 16.25	
	360 01 15	01 00 01	07.5		

Date: October 5th 1845
 Station: Tri. Sta. of Thompson in 18th of Conn. 72.5

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
		Vernier A.	B.		
	Astro. Sig. ^{776^x} Santa Fe	360 00 00	0100 00 30		
	Mesa ⁵ point ^{mon}	705 44 00	4410 44 05		205 43 35
	S. Sandia ^{518^x} ^{San Ysidro Mt} ^{mon}	724 32 30	3240 32 35		18 48 30
	Placer ^{570^x} ^{mon}	732 40 00	4010 40 05		8 07 30
	Sandia ^{538^x} ⁵⁸	744 05 15	0525 05 20		11 25 15
	Tetilla ⁵²² ^{mon}	788 25 00	2520 25 10		44 19 50
	26 ^{567^x} ⁴⁶ ^{mon}	329 32 00	3215 32 07.5		41 06 57.5
	Astro. Sig. ^{567^x}	359 59 50	0020 00 05		30 27 59.5
	Astro. Sig. ^{567^x} 5	360 00 00	0030 00 15		
	Mesa point	308 41 20	4200 41 50		205 44 17
	Mesa point	360 00 00	0040 00 20		
	Placer ⁵⁶	133 38 45	3900 38 52.5		26 43 42.5
	Placer ⁵⁶	133 38 45	3900 38 52.5		
	Tetilla ⁵²	52 20 15	2030 20 22.5		55 44 18

Observer: Fred A. Clark.
 Instrument: Kordeman Transit No. 112

	READINGS.	MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	360 05 20	0450 05 05		Flagstaff 525 24 3
	705 49 10	4830 48 50		205 43 45
	724 37 30	3600 36 45		18 47 55 Error in using d. pt.
	732 44 30	4400 44 15		8 07 30 2. H being mon. Found as on visiting
	744 10 00	0920 09 40		11 25 20 Thought as S. Sandia
	788 28 40	2810 28 25		44 19 45 proved to be San Ysidro
	329 35 50	3500 35 25		41 07 00 Larger mon. on S. W.
	360 04 15	0400 04 07.5		30 28 42.5

Left pt. of mesa taken
 Larger mon on mesa

Date:

Station: Tri. Sta. I of Thompson in 1874 (con)

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
↓ Tetilla ⁵²	52 20 15	20 30	20 22.5	
Astro. Sig.	50 15 40	16 00	15 50	71 35 05.5
↓ Astro. Sig.	50 15 40	16 00	15 50	
Mean point	180 00 30	00 00	00 15	705 56 53
↓ Astro. Sig.	180 00 30	00 00	00 15	
Place <u>56</u>	263 22 25	22 30	22 27.5	432 40 26.5
↓ Mean point	263 22 25	22 30	22 27.5	
Tetilla <u>52</u>	135 45 40	45 50	45 45	82 28 39.5
↓ Tetilla <u>52</u>	135 45 40	45 50	45 45	
↓ M. near Pecos River ⁵⁴	323 47 15	48 30	47 52.5	188 02 07.5

REMARKS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		

Right pt. of mean taken

mean

Date: October 6th 1875 A.M.
 Station: At Astro. Sq. Santa Fe 2nd Primary Sta No. 6

Observer: Fred. Clark
 Instrument: Hardeman Transit No. 112

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
		Vernier A.	B.		
		0 0 00	0 0 00		
	Astro. Stone	360 00 00	00 00		
	Placer ⁵⁶	28 22 20	22 30	22 25	28 22 25
	Tetilla ^{men 52}	69 09 30	09 40	09 35	40 47 10
	Meridian Stone	198 17 00	17 20	17 10	129 07 35
	A. J. Baldy ^{man 48}	227 44 40	45 00	44 52.5	29 27 42.5
	Tri. Sta. I of 74 ^{Sta}	349 10 10	10 50	10 30	171 25 38.5
	Astro. Stone	360 00 45	01 00	00 52.5	10 50 12.5
	Astro. Stone ¹⁰	360 00 00	00 20	00 10	
	Placer ⁵⁶	283 25 15	25 30	25 22.5	28 20 31.25
	Placer ^{56 10}	283 25 15	25 30	25 22.5	
	Tetilla ⁵²	331 23 30	23 30	23 30	40 47 48.75
	Astro. Stone ¹⁰	331 23 30	23 30	23 30	
	Tetilla ⁵²	302 57 30	57 40	57 37.5	69 09 24.75
	Tetilla ^{52 10}	360 00 00	00 45	00 22.5	
	Tri. Sta. I of 74 ¹⁰	280 00 45	01 00	00 52.5	280 00 03
	Tri. Sta. I of 74 ¹⁰	280 00 45	01 00	00 52.5	
	Astro. Stone	28 21 15	22 00	21 37.5	10 50 04.5

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
		Vernier A.	B.			
		0 0 00	0 0 00			
	Astro. Stone	360 05 40	05 20	05 30		Under con. Signal
	Placer ⁵⁶	28 23 50	23 45	23 47.5	28 18 17.5	Autumn peak
	Meridian Stone	198 22 40	22 05	22 22.5	169 55 40	63 1/2 north
	A. J. Baldy ^{man 48}	227 44 10	46 45	46 57.5	29 26 15.5	
	Tri. Sta. I of 74 ^{Sta}	349 13 50	13 40	13 45	121 26 13	
	Astro. Stone	360 05 00	04 50	04 55	10 51 10	

Date:
Station: Astro. Sta. at I. I. (Continued)

Observer:
Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			Vernier A.	B.			
1. Astro. Stone	28 21 15	22 00	21 37.5						
Tri. Sta. I of 74	334 09 40	09 50	09 45	349 09	13.5				
2. Tri. Sta. I of 74 ₁₀	334 09 40	09 50	09 45						
Titilla 52	54 10 30	11 00	10 45	80 00	06				
3. Titilla 52 ₁₀	54 10 30	11 00	10 45						
Tri. Sta. I of 74	334 16 45	17 20	17 02.5	280 00	37.5				
4. Tri. Sta. I of 74	334 16 45	17 20	17 02.5						
26 46	116 33 15	33 25	33 20	147 16	17.5				

Date: October 8th 1895 P.M. Primary Sta. No. 17
 Station: Cerro Pelon (heretofore called Mesa Point)

Observer: Wright Clark
 Instrument: Hurdeman Transit No. 112

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	
		Vernier A.	B.			
35	^{21^W} ^{flag} Tri. Sta. T of 74	0 0 00	0 0 00	00 00 00		
	^{21^W} ⁵⁴ Point near Pecos Ruins	337 42 05	42 00	42 02.5	33 46 11.5	
	^{10^S} ⁵⁴ Pecos Ruins	337 42 05	42 00	42 02.5		
	^{54^W} Cerro Cuerra	155 09 50	09 30	09 40	107 29 31.5	
	^{51^A} Cerro Cuerra	155 09 50	09 30	09 40		
	^{51^W} Sierra Mosca	17 27 50	27 45	27 47.5	57 13 48.75	
	^{51^W} Sierra Mosca	17 27 50	27 45	27 47.5		
	^{54^W} San Sidro	105 52 00	52 15	52 07.5	19 40 52	
	²⁰ San Sidro	105 52 00	52 15	52 07.5		
	^{54^W} Sandia	218 36 20	36 00	36 10	22 32 48.5	
	¹³ Sandia	218 36 20	36 00	36 10		
	^{57^W} Placer	290 12 40	12 30	12 35	14 19 17	
	⁵⁶ Placer	290 12 40	12 30	12 35		
	⁵⁶ ⁵⁰ Placer	290 12 40	12 30	12 35		
	⁵² ⁵² Tetilla	213 06 15	06 20	06 17.5	56 34 44.5	
	⁵² Tetilla	213 06 15	06 20	06 17.5		
	⁴⁶ 26	253 39 00	39 15	39 07.5	8 06 34	
	⁴⁶ 26	253 39 00	39 15	39 07.5		
	⁴⁶ 26	253 39 00	39 15	39 07.5		
	⁹⁵ Tri. Sta. T of 74	95 10 25	10 40	10 32.5	40 18 05	

	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
					Center of moon 8° 22' 20"
					N. pt. of Mozambique
					the wind at 6.00
					Doubtful whether this R. refers to Sandia or Placer
					Mon. seen sometimes "is in front of"

Office Prof. H. Hoar

Date:

Station: Cerro Pelon (Continued)

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
²⁵¹ Tri. Sta. I of 44	95 10 25	10 40	10 32.5	
Placer ⁵⁶	290 11 15	11 25	11 20	255 00 09.5
¹⁰³ Placer ⁵⁶	290 10 35	10 40	10 37.5	
Tri. Sta. I of 44	95 13 50	14 00	13 55	105 00 39.5
⁵⁸ Tetilla ⁵²	95 13 50	14 00	13 55	
Tri. Sta. I of 44	337 19 00	19 10	19 05	48 25 02
⁷⁶ Cerro Quevra ⁵⁶	337 15 30	16 00	15 45	
San Pedro	1 56 00	56 30	56 15	76 56 06
⁸⁰ San Pedro ⁵⁶	1 56 00	56 30	56 15	
Tetilla ⁵²	109 04 40	04 50	04 45	93 25 42
Placer ⁵⁶	109 04 40	04 50	04 45	
Tetilla ⁵²	132 03 50	04 15	04 02.5	56 35 01.5

REMARKS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
Point taken as shown on plan from Sta. I made 290 10 35 10 40 using transit.				
Point taken before on C. C. 337 15 30 19 10 low see mon. & sun				
on plan				

Date: October 9th 10th 1875
Station: Placer 56 Promory Fri. Sta. No 8.

Observer: Frederick Clark
Instrument: Hardenan Transit No. 112

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
		Vernier A.	B.		
		°	'	''	
	Astr. Sig. 10	360 00 00	00 20 00	00 10	
	M. Sta. I of 44	131 28 25	28 25	28 25	13 08 49.5
	Astr. Sig. 1	131 28 25	28 25	28 25	13 08 40
	Sun. Sta. (2)	26 45	27 00	26 52.5	13 10 12.5
	M. Sta. I of 44	144 37 00	37 10	37 05	
	M. Sta. I of 44	144 37 00	37 10	37 05	
	Pt. near Pico Ruano	247 57 10	57 20	57 15	70 40 02
	M. Sta. I of 44	247 57 10	57 20	57 15	
	Cerro Pelon	12 15 30	16 20	15 55	48 25 52
	Oct 10 th 1875				
	M. Taylor	360 00 00	00 20 00	00 10	
	26	38 27 20	27 50	27 35	79 41 29
	Cerro Pelon	38 27 20	27 50	27 35	
	Cerro Pintado	283 20 10	20 10	20 10	48 58 31
	Cerro Pelon	283 20 10	20 10	20 10	
	San Pedro	89 10 50	11 10	11 00	107 10 10
	Cerro Pelon	89 10 50	11 10	11 00	
	Sierra Mosca	282 42 40	22 40	22 40	100 38 20

REMARKS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
20 Center near 5382 H - small affair Thin Sta very near point sighted front of C. Pelon that pt. may be 50 2382 -				
13' 26" something lying to left of point sighted possibly sighted				
Disc from No 4 Sight supported near 26 prob. true -				
	Thompson	79 42	4.37	

Date:

Station: Placer (Continued) 56

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
⁵¹⁷⁷ San Pedro 10	282 22 40	2940 29 40	34 50 11	10.9
⁵⁶⁴² Sautia 58	264 59 25	5900 59 17.5	70 15	39.25
Sautia 58	264 59 25	5900 59 12.5		
⁷⁴⁷⁴ Tetilla 52	255 50 50	5715 51 02.5	106 10	22
Tetilla 52 10	360 00 00	0015 00 07.5		
Astro. Sig.	344 41 15	4145 41 25	34 28	03.85
^{see record}	344 24 15	corrected to white	134 26	24.75
Astro Sig. 5	344 39 30	4000 39 45		
Tri Sta. of 74	52 04 30	0500 04 45	13	29 00
Tetilla 52 5	52 04 30	0500 04 45		
Tri Sta. of 74	291 52 30	5300 52 45	47 57	30
Cerro Pintada 5	291 52 30	5300 52 45		
Sa Mosca	240 15 30	5445 15 37.5	61 40	34.5
Cerro Pelon 5	240 15 30	5445 15 37.5		
⁵⁴⁹⁴ Cerro Cuervo	100 56 30	5720 56 55	44 08	15.5
Cerro Cuervo 5	100 56 30	5720 56 55		
Sa Mosca	73 29 40	2950 29 45	66 30	34
26 ⁴⁶ ⁷¹³¹⁷⁵ Santa Fe Baldys 5	317 29 40	2950 29 45		
	317 29 30	2930 29 30	48 47	57

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
Cerro Pelon	360 00 00				
Sa Sautia	135 27 30				↑ This pt. called from C. Pelon. Now use Tappan's rig.
Notes of occupation by Thompson in Nov 29 th 1873 + Oct. 20 th 1874 found + transcribed - Of 1874 says his Inst. was set 50' to Northward of monument.					
A large white of jet rods ^{40 50} 344 39 30 344 41 15 - 41 45 doubtful true Sta. as I see spur upon which sig. is built. Sig to E. of point sighted yesterday -					
5 ^a Mosca - S. Sautia 1 34 49 10					
Poor from haze. Good though no sun.					

Date: *October 12th 1845*
 Station: *Sau y Sidros Pt. - San Pedro Nets.*

Observer: *Fred A. Clark.*
 Instrument: *Hurdeman Transit No. 112.*

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
		Vernier A.	B.			Vernier A.	B.			
	<i>Cerro Pelon</i> ^{738°} ₁₀	<i>00 00 00</i>	<i>00 30 00</i>	<i>00 15</i>						<i>To Centro Mon. 4' S 38 W.</i>
	<i>Cerro Piutadas</i>	<i>18 50 15</i>	<i>50 55 50</i>	<i>50 35</i>	<i>73 53 02</i>	<i>238°</i>	<i>73 23</i>			<i>See S.E. pt. as before</i>
	<i>Cerro Pelon</i> ₅	<i>18 50 15</i>	<i>51 20 50</i>	<i>50 47.5</i>						
	<i>Sa Mosca</i>	<i>45 47 30</i>	<i>48 10 47</i>	<i>46 50</i>	<i>179 23 24.5</i>	<i>588°</i>	<i>168 15</i>			
	<i>C. Pelon</i> ₅	<i>45 47 30</i>	<i>47 45 47</i>	<i>47 37.5</i>						
	<i>Tetilla</i> ₅₂	<i>145 09 00</i>	<i>09 45 09</i>	<i>09 22.5</i>	<i>307 52 21</i>	<i>218°</i>	<i>303 49</i>			<i>Seen from here</i>
	<i>C. Pelon</i> ₅	<i>145 09 00</i>	<i>09 45 09</i>	<i>09 22.5</i>						
	<i>Saudia</i> ₅₈	<i>209 18 10</i>	<i>18 00 18</i>	<i>18 00</i>	<i>778 49 44.5</i>	<i>588°</i>	<i>13 09</i>			<i>Same pt as from Placer</i>
	<i>Saudia</i> ₅₈ ₅	<i>209 18 10</i>	<i>17 50 18</i>	<i>18 00</i>						
	<i>C. Pelon</i>	<i>145 12 30</i>	<i>12 45 12</i>	<i>12 37.5</i>	<i>131 10 55.5</i>		<i>340 28</i>			
	<i>Saudia</i> ₅₈ ₁₀	<i>145 12 30</i>	<i>12 45 12</i>	<i>12 37.5</i>						
	<i>Placer</i> ₅₆	<i>354 01 50</i>	<i>02 05 01</i>	<i>01 57.5</i>	<i>93 10 56</i>	<i>212°</i>	<i>238 24</i>			<i>Flag just W. of tree prob. taken from C. Pelon</i>
	<i>South Saudia</i> ₅₈ ₅	<i>354 01 50</i>	<i>02 05 01</i>	<i>01 57.5</i>						
	<i>Saudia</i> ₅₈	<i>338 37 20</i>	<i>37 40 37</i>	<i>37 30</i>	<i>34 09 33.25</i>	<i>504°</i>	<i>31 12</i>			
	<i>Sa Mosca</i> ₅	<i>338 37 20</i>	<i>37 40 37</i>	<i>37 30</i>						
	<i>South Saudia</i>	<i>205 06 30</i>	<i>06 55 06</i>	<i>06 42.5</i>	<i>45 17 50.5</i>		<i>23 50</i>			
	<i>C. Piutada</i> ₅	<i>205 06 30</i>	<i>06 55 06</i>	<i>06 42.5</i>						
	<i>Sa Mosca</i>	<i>222 36 15</i>	<i>36 30 36</i>	<i>36 22.5</i>	<i>75 29 56</i>		<i>280 36</i>			

Date:

Station: San Sidro (Continued)

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
C. Pelon 10	222 36 15	36 30	36 225	
C. Cuervo	78 00 40	01 30	01 05	57 32 28.25
C. Cuervo 5	78 00 40	01 30	01 05	
C. Pintada	159 53 40	54 00	53 50	16 22 35
Placer 56 10	104 25 30	25 30	25 30	
C. Pelon	124 23 20	24 00	23 40	37 59 49
Tetilla 52 5	321 08 45	09 00	08 52.5	
Placer 56	31 57 15	58 10	57 42.5	14 09 46
Placer 56 5	124 23 20	24 00	23 40	
C. Cuervo	242 01 25	02 00	01 42.5	95 31 36.5
Tetilla 52 10	159 53 40	54 00	53 50	
C. Pelon	321 08 45	09 00	08 52.5	52 07 30.25
Saudia 58 5	31 54 15	58 10	57 42.5	
Tetilla 52	67 09 00	09 30	09 15	79 02 18.5
San Mosca 5	67 09 00	09 30	09 15	
Saudia 58	104 25 30	25 30	25 30	79 27 15

REMARKS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
Something white S. of center of butte.	280 09			
	94 23			
	142 26			
	385 18			
Peculiar white object taken in previous angles. owing to haze -	219 52			
white reads 242 06 35 - 07 10				
	212 01			
	110 59			
	146 37			

Date: October 15th & 16th 1875.

Station: Tetilla 52 Primary Tri. Sta. No. 10

Observer: Frederick Clark

Instrument: Kurdeman Transit No. 112

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.			REMARKS.
		Vernier A.	B.		Vernier A.	B.	MEAN OF A. & B.	
✓	Astro. Sig. 10	360 00 00	00 10 00	00 05				To Center mon. 7748 8'
	Sandia 58	321 02 40	03 00 02 50		140	06	16.5	
✓	Astro. Sig. 5	321 02 40	03 00 02 50					
	C. Pelon 5 point	352 22 00	22 00 22 00		78	15	50	On account of haze difficult to determine the mon. here took 3 points
✓	Astro. Sig. 5	352 22 00	22 00 22 00					
	C. Pelon 2nd pt.	23 27 50	28 00 27 50		78	13	11	
✓	Astro. Sig. 5	23 27 50	28 00 27 50					
	C. Pelon 2 point	51 59 10	59 25 59 17.5		77	42	16.5	This point most prob. mon.
✓	Astro. Sig. 5	51 59 10	59 25 59 17.5					
	26 46	332 18 00	18 40 18 30		272	03	48.5	Thursday mon. but this most prob. tree which No. 1000 saw from the East.
✓	Astro. Sig. 5	332 18 00	18 40 18 30					
	Point near Picnic	130 32 15	32 50 32 32.5		31	38	50.5	mon. indistinct from haze.
✓	Astro. Sig. 5	130 32 15	32 50 32 32.5					
	S. J's Baldy	81 27 40	27 50 27 45		350	11	02.5	Stop work - haze too heavy to do anything further.
✓	Astro. Sig. 10	81 27 40	27 50 27 45					
	Placer 56	48 44 15	44 25 44 20		104	43	39.5	

Oct. 16th 1875

7078

8121 1st read 140 07

8482

7035

101 10

7387

7052

7405

5215

39 19

70 35

324 01

3 57

120 43

186 13

Date:
 Station: Tetilla (Continued) 52.

Observer:
 Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
↓ Placer ⁵⁶ 10	48 44 15	44 25 41 20		
26 ⁴⁶	282 08 00	08 10 05 05	167 20 27.5	
↓ Placer ⁵⁶ 5	360 00 00	00 00 00 00		
Saudia ⁵⁸	176 53 00	52 45 52 52 35	74 34.5	
↓ Placer ⁵⁶ 5	176 53 00	52 45 52 52 5		
Saudia ⁵⁸	353 45 00	45 20 45 10	35 72 27.5	
↓ Saudia ⁵⁸ 10	353 45 00	45 20 45 10		
26 ⁴⁶	233 37 30	37 40 27 35	131 59 14.5	
↓ P. near Plover Run ⁵⁴	162 05 35	05 30 05 32.5		
C. Pilon	35 07 20	07 30 07 25	46 36 22.5	
↓ C. Pilon 5	40 36 20	37 00 36 40		
Placer ⁵⁶	172 52 30	52 45 52 55	76 37 11	
↓ San Pedro 10	245 47 50	47 30 47 40		
Saudia ⁵⁸	165 31 40	32 00 31 50	27 58 01	
↓ 26 ⁴⁶ 10	233 37 30	37 40 37 35		
S. Hi Baldy ⁴⁸	12 55 40	55 45 55 42.5	78 07 06.13	
↓ S. Hi Baldy ⁴⁸ 10	12 55 40	55 45 55 42.5		
Astr. Sig.	111 00 20	00 30 00 25	9 48 28.25	

REMARKS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
	216 05			Sighting from Mon. reads 282 09 15 - 09 30
	35 23			This 1 st set is prob. the best owing to fast increasing height - during second set.
	125 45			Monument.
	208 42			Mon at times - middle pt. used.
	67 05			Middle pt. used
	273 47			
				Monument.
	311 45			
	72 44			

Date:

Station: Tequila (Continued) 52.

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			Vernier A.	B.			
↓ J. de Baldayo ⁴⁸ Placer 56	172 52 30	52 40	52 35						
	238 14 00	13 40	13 50	114 32 07.5		287 24			
↓ C. Pelon 5 Saudia 55	317 49 35	49 30	49 32.5						
	266 57 15	57 00	57 07.5	61 49 31		19 38			
↓ Astro. Sig. 10 Tri. Sta. I of 74	111 00 20	00 30	00 25						
	35 04 00	04 50	04 25	28 24 24	282	139 20			
↓ Tri. Sta. I of 74 10 Placer 56	35 04 00	04 50	04 25						
	78 28 30	28 40	28 35	76 20 25		111 25			
↓ Tri. Sta. I. of 74 9 C. Pelon	78 28 30	28 40	28 35						
	162 05 35	05 30	05 32.5	49 17 26.38		127 45		Using <u>North</u> point	
↓ Pl. no. Pecos Ruins Placer 56	35 07 20	07 30	07 25						
	40 36 20	37 00	36 40	73 05 51		108 13			
↓ 26 ⁴⁶ 5 Astro. Sig.	238 14 00	13 40	13 50						Monument
	317 49 35	49 30	49 32.5	87 55 08.5		326 08			
↓ C. Pelon 10 San Pedro	266 57 15	57 00	57 07.5						Using <u>middle</u> point
	245 47 50	47 30	47 40	33 53 03.25	088	300 50			
↓ Saudia 55 5 Astro. Sig.	360 00 00	00 15	00 07.5						
	19. 29 50.	30 30	30 10	219 54 00.5		219 53			

See p. 36 for next consecutive work. Saudia Pt.

Date: October 23rd 1875
 Station: South Sandia Pt. Primary Sta. No. 12

Observer: Wm. H. Clark
 Instrument: Hurdeman Transit No. 112

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.		READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.				Vernier A.	B.			
	0	"	"							
Placer <u>56</u>	360 00 00	00 10	00 05		702 ²					Wind blowing a gale from the west.
Saw <u>Sidros</u>	111 45 30	46 00	45 45	72 21 08	704 ²	22 21				
Saw <u>Sidros</u>	111 45 30	46 00	45 45							
Cerro <u>Pedernal</u>	340 00 25	00 50	00 37 ⁵	45 38 58 ⁵	583 ²	157 24				
Saw <u>Sidros</u>	340 00 25	00 50	00 37 ⁵							
Sierra <u>Moses</u>	162 53 45	54 00	53 52 ⁵	108 34 39	516 ²	88 55				
Placer <u>56</u>	162 53 45	54 00	53 52 ⁵							
C. <u>Pedernal</u>	142 54 10	54 20	54 15	68 00 04 ⁵		230 55				
Placer <u>56</u>	142 54 10	54 20	54 15							
Sa <u>Moses</u>	78 33 40	34 20	34 00	131 07 57		273 50				
Sa <u>Moses</u>	78 33 40	34 20	34 00							
Placer <u>56</u>	142 52 15	52 45	52 30	228 57 42		306 38				
Sa <u>Moses</u>	142 52 15	52 45	52 30							
Mount <u>Taylor</u>	290 50 00	50 30	50 15	101 35 33	585 ²	244 28				


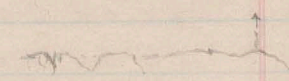

Date: *October 27th 1845 PM*
 Station: *Sierra Mases Primary Tri. Sta. No. 13.*

Observer: *W. H. Clark*
 Instrument: *Hurdman Transit No. 112*

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
		Vernier A.	B.			Vernier A.	B.			
		° ' "	' "							
	Placer ⁵⁶ 10	360 00 00	00 40	00 20						
	Cerro Pedrenal	306 41 40	42 00	41 50	66 40 09	272 ⁰	66 41			
	C. Pedrenal ⁶	306 41 40	42 00	41 50						
	Mount Taylor ⁵¹	108 43 00	43 20	43 10	207 00 13.33	279 ⁰	153 42			
	Mt. Taylor ⁵¹ 10	108 43 00	43 20	43 10						
	Placer ⁵⁶	251 58 40	59 00	58 50	86 19 34		195 02			
	Ladrones ⁵	251 58 40	59 00	58 50		543 ⁰				
	Mt. Taylor ⁵¹	178 05 20	05 30	05 27.5	57 13 19.5		309 12			
	South Audubon	178 05 20	05 30	05 25		218 ⁰				
	Placer ⁵⁶	299 18 00	18 25	18 12.5	24 14 33.5		212 20			South of as seen against higher mts
	Tetela ⁵² 5	299 18 00	18 25	18 12.5		222 ⁰				
	Placer ⁵⁶	343 35 00	35 45	35 22.5	8 57 26		308 09			
	Placer ⁵⁶ 5	343 35 00	35 45	35 22.5						
	Cerro Cuervo	177 49 00	49 15	49 07.5	38 58 45	245 ⁰	22 27			Bottom to middle m
	C. Cuervo ⁵	177 49 00	49 15	49 07.5						
	C. Pedrenal	316 53 50	54 10	54 00	27 48 58.5		205 38			
	San Pedro	360 00 00	00 40	00 20		283 ⁰				Doubtful point
	C. Pedrenal	323 46 50	47 30	47 10	64 45 22		64 45			Cannot see now

Date: October 31st 1895
 Station: Cerro Pedernal Provisionary Sta. No. 124

Observer: Fred A. Clark
 Instrument: Hardenman Transit No. 112

#	OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
		Vernier A.	B.			Vernier A.	B.			
	Placer ⁵⁶	360 00 20	00 30 00	00 15						Dist. abt 6' 7150' from center moon.
	S. J. Baldy ⁴⁸	357 20 20	2100 20 40		35 44 02	7187	35 52			
	S. J. Baldy ⁴⁸	357 20 20	2100 20 40							
	Cerro Bernal	310 33 00	3300 33 00		31 19 14	7129	28 40			
	Cerro Bernal ⁵⁵	310 33 00	3300 33 00							
	Split Rock	44 09 30	1000 09 45		18 43 21	7075	329 16			Request of Lt. Morrison 
	Cerro Bernal ⁵⁵	360 00 00	00 15 00	00 07 5						
	Jupanso Mesa	101 41 10	4130 41 20		20 20 14.5	7035	20 20			
	Cerro Bernal ⁵⁵	101 41 10	4130 41 20							
	Cerro Ceragan	247 57 55	5800 57 57 5		29 15 19.5	7425	130 57			
	C. Bernal ⁵⁵	247 57 55	5800 57 57 5							
	Sa Mosco	13 45 45	4600 45 52 5		241 09 35	5742	129 05			
	Sa Mosco	13 45 45	4600 45 52 5							
	South Sandia	144 26 50	2715 27 07 5		26 08 14	7732	39 54			
	S. Sandia	144 26 50	27 15 27 07 5							
	San Ysidro	212 23 45	2400 23 52 5		13 35 22	7652	158 02			
	San Ysidro	212 23 45	2400 23 52 5							
	Placer ⁵⁶	271 51 00	5120 51 10		11 53 27.5		224 19			

Date:

Station: Cerro Pedernal (Continued)

Observer:

Instrument:

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
Sa Mosca ¹⁰	271 51 00	51 20 51 10		
Placer ₅₆	68 13 20	13 30 13 25	51 38	13.5
N. Sandin ⁵⁸	68 13 20	13 30 13 25		
Placer ₅₆	159 30 50	30 55 30 52	18 15	179.5
N. Sandin ⁵⁸	159 30 50	30 55 30 52		
S. J. Baldy ⁴⁸	340 52 45	52 00 52 02	54 08	12
Sa Mosca ⁵	360 00 00	00 00 00 00		
Point near Piers? not the pt.	59 28 50	29 00 28 55	88 53	47
			88 53	47

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.			
Sa Mosca ⁵⁹	323 29			28 50	Good set of angles
El Solitario [?]				164 09 00	
				104 46 10	
	272 20				
	86 30				
	213 39				
	222 20				
	83 52				Don't this point lying against the range & light haze.

Date: November 10th 1895.
 Station: Cerro Coaxagon Cuenca, Pto. No. 16

Observer: Fredt Clark,
 Instrument: Kordeman Transit No. 112.

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
	0 1 2 3 4			
Az. Sig. at camp	360 00 00	00 40 00	20	
Cerro Pedronal	206 45 10	45 15 45	125	92 40 29.25
Az. Sig.	206 45 10	45 15 45	125	
Split Rock	61 50 00	50 15 50	075	115 00 59
Az. Sig.	61 50 00	50 15 50	075	
White Rock	308 14 00	14 30 14	15	121 16 49.5
Az. Sig.	308 14 00	14 30 14	15	
Lake Pt	14 26 20	27 00 26	40	154 14 29
Az. Sig.	14 26 20	27 00 26	40	
Jupano Pt	196 54 00	54 15 54	075	108 29 29.5
Az. Sig.	196 54 00	54 15 54	075	
C. Pedronal	335 07 50	08 00 07	55	
S. P. Balby	303 40 10	40 30 40	20	65 42 29
Az. Sig.	196 54 00	54 15 54	075	
Cerro Cuerta	335 07 50	08 00 07	55	27 38 45.5
Az. Sig.	335 07 50	08 00 07	55	
Lake Pt	360 00 00	00 00 00	00	
Munoz's Pt	289 44 40	45 00 45	50	57 56 58
Az. Sig.	289 44 40	45 00 45	50	
Lake Pt	289 44 40	45 00 45	50	
P. E. Munoz's Pt	223 27 15	27 30 27	22.5	58 44 30.5

REMARKS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.
	Vernier A.	B.		
	92 41			
	321 46			
	183 07			
	105 28			
	172 56			
	40 50			
	224 53			
	57 58			
	348 50			

Incl. at pt. near from
 1st Lib.
 wagon wh. (?)
 de E.

Date: October 20th 1875 P.M.Station: Sandia 58 Peñon de Sta. Ana 11.Observer: W. H. ClarkInstrument: Kardman Transit No. 112

OBJECTS.	READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.		READINGS.		MEAN OF A. & B.	DIFFERENTIAL ANGLES.	REMARKS.
	Vernier A.	B.				Vernier A.	B.			
<u>Tequila</u> 52	360 00 00	00 00 00	00 00 00							
<u>Placer</u> 56	23 40 45	41 50 41	41 17.5	38 22 07.5	7460					
<u>Placer</u> 56	23 40 45	41 50 41	41 17.5		7530	38 41				Flag seen
<u>San Ysidro</u> 10	9 03 15	03 45 03	03 30	34 32 13.25	7870	58 13				Mon. seen
<u>San Ysidro</u> 10	9 03 15	03 45 03	03 30							
<u>C. Pedraza</u>	19 27 24 50	25 00 24 50	24 50	18 50 08.5	8730	27 53				
<u>C. Pedraza</u>	19 27 24 50	25 00 24 50	24 50							
<u>San Marcos</u>	112 24 10	24 15 24 12.5	24 12.5	54 59 51.5	8180	252 20				Probably Tequila instead of San Marcos
<u>San Marcos</u>	112 24 10	24 15 24 12.5	24 12.5							
<u>Mt. Taylor</u> 57	230 31 00	31 05 31 02.5	31 02.5	95 37 22	8770	208 02				Mt. Taylor is clearer than ever seen before.
<u>Mt. Taylor</u> 57	230 31 00	31 05 31 02.5	31 02.5							
<u>Tequila</u> 52	326 54 50	55 00 54 55	54 55	117 38 23.25		348 09				
<u>Placer</u> 56	326 54 50	55 00 54 55	54 55							
<u>C. Cuervo</u>	166 51 45	52 00 51 52.5	51 52.5	39 59 23.5	8870	6 54				
<u>Placer</u> 56	360 00 00	00 00 00 00	00 00							
<u>C. Pedraza</u>	266 51 30	51 45 51 37.5	51 37.5	53 22 19.5		53 22				

