

31

PAUL MC COMBS
FIELD BOOK

ON 80 MILE RESERVATION WEST
OF THE PECOS

Texas and Pacific Ry. Company
Land Reservation

1883

N - 2 -31

1883

1
Field Notes of Survey made to
locate the Southern Boundary
of the Texas and Pacific Ry. West
west of 103^d Meridian of Longitude
& South of 37th Parallel of Latitude
Made under instructions of
State Land Board, dated Sept
17- 1883 -

Paul M. Combs, C.E.
Special Surveyor

Continued

Car 33 to 34 Sta 325 road

	2,500	"
	11,320	"
	15,025	"
	22,175	"
	23,235	"
	25,760	"
	27,600	"
	36,000	"
	51,600	"
	52,400	"
35 " 36	3,500	"

(Continued)

Car 19 to 20	Sta 31,375	G. N. + S. A. Ry
20 " 21	1,310	" "
	1,500	raviné
	1,870	road.
	3,900	"
	7,000	"
	8,000	"
	15,940	G. N. + S. A. Ry
	(20,750	road)
22 " 33	Along	G. N. + S. A. Ry
	16,750	Soldier Camp 1000' 2
	45,100	old P. + P. Grade
	70,000	River 300 ft L
	86,750	Riv Grade Station
	136,400	Old River
	137,750	Slough or C. Riv
	138,500	" "
	139,900	" "
	141,250	" "
	145,760	" "
	171,070	Sau Elizario Sta
	204,630	Ruvia Socorro
	270,450	Yelita Sta
	254,360	Old River—

(Continued)

Sta	16,750	road
15 " 16	11,500	ravine
16 " 17	16,600	road
Cor 17 to Flagstaff at Ft Quitman 1850 ft		
17 " 18	7,250	road
	10,200	"
	14,500	ravine
	12,400	road
	21,225	"
	23,000	ravine
	28,200	"
18 " 19	4,500	"
	7,000	"
19 " 20.	700	"
	1800	"
	5660	"
	7000	"
	7700	"
	16400	road
	18,000	"
	19,200	ravine
	20,100	road
	29,500	"
	31,010	"

(Continued)

Cor 6 to 7 Sta	2,300	road
	3,000	ravine
	4,500	"
	5,300	road
Cor 7 to Rock mound	1630ft	
7 " 8	1635	road
	3,665	"
	5,000	ravine
	6,250	"
	7,300	"
	8,190	"
	18,915	road
	31,645	"
8 " 9	9,750	"
	16,500	"
9 " 10	20,910	"
	37,000	"
10 " 11	19,500	ravine
	20,300	"
11 " 12	3,300	"
14 " 15	3,350	"
	4,000	"
	7,400	"
	10,350	"

Van Horn Hill to Mon. No. 5

Cor 1 to 2	Sta 2973	G. H. and S. A. Ry
3 " 4	" 27,200	ravine
	28,770	"
	30,500	"
	34,570	road
	35,500	ravine
	37,820	"
4 " 5	2,200	road
	5000	"
	5400	ravine
	16,885	G. H. and S. A. Ry
	17,000	road
	30,500	ravine
	32,400	"
5 " 6	505	"
	3790	"
	4200	road
	8750	ravine
	9805	road
	11,000	ravine
Cor 6 to Eagle Spring - 675 ft.		
6 " 7	1500	ravine
	1950	road
	2100	Stage Stand

Antelope to intersection V.H. & C.S. line

Cor 1 to 2	Sta 500	road
	35,920	"
	37,950	"
	40,500	ravine
	44,230	road
	45,750	ravine
	60,710	road
	63,750	ravine
	73,560	road
	77,310	"
	77,500	T. & P. Ry
" 2 "	3	road
	5,210	T. & P. Ry
	5,565	road
	6,200	T. & P. Ry
	15,730	road
Cor 3	to 4	down T. & P. Ry
	20,460	Plateau
	57,408	Wild Horse trail
	64,590	" " Sta
	83,000	Opening No 370 - Van Horn Creek

Sau Martin to S. B. West -

2 to 3	Sta	1,300	road
		2,000	"
		6,770	"
		8,750	"
		9,150	"
		10,675	"
		13,770	ravine
		14,000	road
3.4		565	"
		3795	"
		6,000	ravine
		6,650	road
		14,180	ravine
4.5		1,200	"
		4,720	road
		8,560	"
		10,570	"
5.6		2,030	ravine
6.7		8075	"
		12000	"
		15500	"
7.8		890	"
		1515	"

Cor 5 to 9 up Cañon -

Delaware to S. B. East-

Cor 9 to 10 Sta	36,300	ravine
11 " 12	6,400	"
	16,000	"
13 " 14	1,350	"
	3,000	"
	6,750	"
	9,200	"
	13,000	"
	16,000	"
	18,000	road
	28,400	ravine
	29,500	"
	36,000	"
14 " 15	5,450	"
	6,810	"
	7,740	"
	8,760	"
	13,250	"
	18,630	"
	24,165	"
	36,000	road
	37,300	ravine
	37,805	"
	38,630	"

Delaware to S. Boundary East

Cr 1.2	Sta 10395	road
	15460	"
	16000	Creek
	22800	"
	24800	"
	25900	"
	31,700	road
	31500 to 33100	up ravine or Cr
2"3	3710	road
	4970	"
5"6	9792	"
	77700	Creek - Saldito
6"7	11900	road
	15635	"
	64000	Cr - Coyote
8"9	7500	road
	9830	S. & P. Ry
	11780	road
	13,390	S. & P. Ravine
	18,730	road
9"10	1017	S. & P. Ry
	2400	road
	9,980	"
	22730	ravine

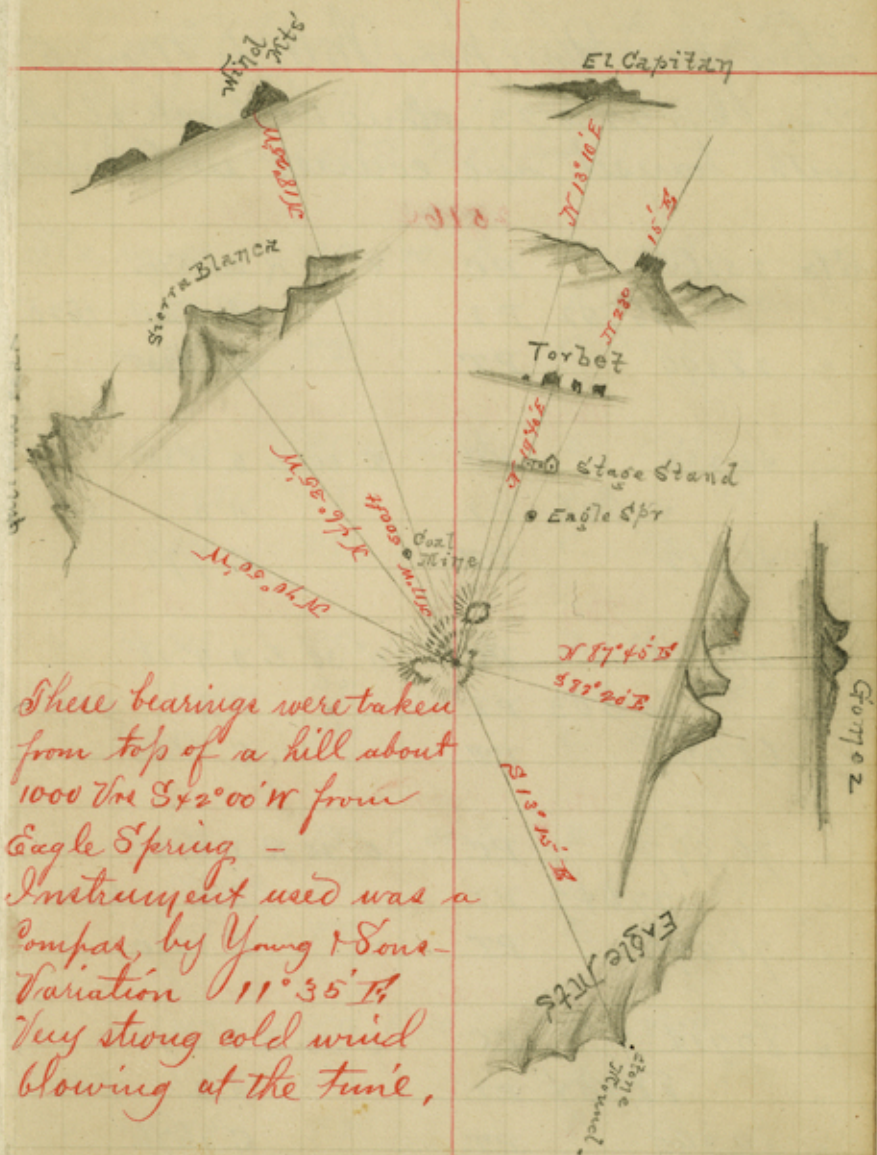
Salinas Valley to Delaware Cr.

Car 1 to 2 Sta	1000	road
	2100	"
	4,175	"
	10,400	edge salt lake
	10,710	"
	14,570	"
	17,000	"
	17,910	"
	20,515	"
	44,750	road
" 13 to 14	5,250	ravine
	6,550	road
	8,455	"
14 " 15	600	ravine - Cañon -
15 " 16	4,175	road
24 " 25	9,450	Delaware Cr
	9,750	Stage stand
	6,545	road
	10,060	"
25 " 26	2,883	"
28 " 29	3,200	"
29 " 30	11,743	"
30 " 31	1,262	"
31 " 32	7,000	"
33 " 34	15,250	"

Car 4 to 17 following
stage road

Van Horn's Well to Crow Springs -

Cor 2 to 3	Sta 2975	G. H. & S. A. Ry
" 6 & 7	" 21208	T. & P. Ry
" 9 & 10	" 131,750	edge salt Lake
	134,515	"
	134,987	"
	138,000	"
	138,320	"
	140,250	"
	140,750	"
	142,160	"
	145,000	"
	145,760	"
" 10 & 11	6,246	"
	9,000	"
	27,176	Initial Point Line to Delavan
" 13 & 14	32,767	edge salt lake
	33,515	"
	33,820	"
	46,560	"
	47,282	old trail - road
	47,860	edge salt lake
	49,106	"
	54,553	"
	55,110	"



These bearings were taken
 from top of a hill about
 1000 the S 42° 00' W from
 Eagle Spring -
 Instrument used was a
 Compass, by Young & Sons -
 Variation 11° 35' N
 Very strong cold wind
 blowing at the time,

Line from Van Horn Hill to Mon. 5.

From Cor 22 to 23, along the track of the
with transit, and courses in Compass

	Tan. 25,164		N 53° 45' W	
Sta 25,164	P.C.	0° 30' R	Def 16' 10"	
" 26,792	P.I.		Apex Dist 1,628.	
" 28,399	P.T.		Cut. 3285	
	Tan. 16,836		N 37° 34½' W	
" 45,235	P.C.	2° 00' L	D. 15' 32½"	
" 45,626	P.I.		A.D. 391	
" 46,012	P.T.		C. 777	
	Tan. 13,362		N 53° 07' W	
" 59,374	P.C.	0° 30' I	D. 9° 16'	
" 60,303	P.I.		A.D. 929	
" 61,227	P.T.		C. 1853	
	Tan. 15,770		N 62° 23' W	
" 76,997	P.C.	0° 20' R	D. 4° 20'	
" 77,647	P.I.		A.D. 650	
" 78,297	P.T.		C. 1300	
	Tan. 9,417		N 58° 03' W	
" 87,714	P.C.	0° 30' R	D. 8° 23'	
" 88,554	P.I.		A.D. 840	
" 89,390	P.T.		C. 1,676	
	Tan. 14,905		N 49° 40' W	
" 104,295	P.C.			

North of El Paso - Transit Notes.

E. N. and S. A. by - All deflections measured
Notes calculated therefrom.

Tan. 14,905 N 49° 40' W

Sta 104,295	P.C. 0° 20' R	D. 03° 08'
" 104,765	P.I.	A.D. 470
" 105,235	P.T.	C. 940

Tan. 10,170 N 46° 32' W

" 115,405	P.C. 00° 04' R	D. 0° 33'
" 115,815	P.I.	A.D. 413
" 116,230	P.T.	C. 825

Tan. 14,476 N 45° 59' W

" 130,706	P.C. 1° 00' R	D. 16° 56'
" 131,559	P.T.	A.D. 853
" 132,399	P.T.	C. 1693

Tan. 14,120 N 29° 03' W

" 146,519	P.C. 0° 30' L	D. 7° 53'
" 147,309	P.I.	A.D. 790
" 148,096	P.T.	C. 1577

Tan. 68,811 N 36° 56' W

" 216,907	P.C. 0° 30' L	D. 7° 59'
" 217,707	P.I.	A.D. 800
" 218,504	P.T.	C. 1597

Tan. 36,496 N 44° 55' W

" 255,000	Corner 33	
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S	Thence	N 53° 45' W	26,792	9,645	To Cor No 23	23
"	"	N 37° 34' W	18,805	6,788	"	24
"	"	N 53° 07' W	14,682	5,285	"	25
S	"	N 62° 23' W	17,350	6,246	"	26
"	"	N 58° 03' W	10,907	3,926	"	27
"	"	N 49° 40' W	16,215	5,837	"	28
"	"	N 46° 32' W	11,053	3,979	"	29
"	"	N 45° 59' W	15,742	5,667	"	30
"	"	N 29° 03' W	15,763	5,675	"	31
"	"	N 36° 56' W	70,401	25,344	"	32
"	"	N 44° 55' W	37,297	13,426	"	33
"	"	North	65,500	23,580	"	34
"	"	West	4,253	1,531	"	35
"	"	North	13,970	5,029	"	36
"	"	N 38° 00' W	8,080	2,909	"	37

	N.	S.	E.	W.
To Cor 23	56706			125250
" 24	62085			129369
" 25	65257			133597
" 26	68153			139131
" 27	70231			142463
" 28	74008			146912
" 29	76745			149800
" 30	80683			153875
" 31	85644			156630
" 32	105901			171859
" 33	115408			181339
" 34	138988			181339
" 35	138988			182870
" 36	144017			182870
" 37	146309			184661

Cor 37 = Mon 5, is 97 miles West of
Initial point

$$\therefore \frac{2}{3} D^2 \times .624869 = 3920 \text{ ft} = 1411 \text{ Vrs}$$

Line from Van Horn Well to
 Compass Notes
 Beginning at Cor 2. of U. N. and C Sp. L.

Treace North	8,450	3,042	To Cor 1	1
" N 29° 40' W	21,063	7,582	"	3
" N 75° 40' W	38,230	13,763	"	4
" West	37,445	13,480	"	5
" N 83° 20' W	11,500	4,140	"	6
" North	7,430	2,675	"	9
" N 75° 25' W	38,110	13,720	"	8
" S 73° 00' W	21,300	7,668	"	8
" N 64° 40' W	37,570	13,525	"	1
" N 58° 55' W	20,750	7,470	"	1
" S 54° 40' W	9,700	3,492	"	12
" S 8° 40' W	805	290	"	13
" S 62° 33' W	5,000	1,800	"	14
" S 89° 30' W	16,750	6,030	"	15
" N 82° 15' W	12,600	4,536	"	16
" N 46° 30' W	18,790	6,764	"	17
" N 45° 50' W	32,500	11,700	"	18
" N 55° 00' W	7,930	2,855	"	19
" N 47° 27' W	31,600	11,376	"	20
" N 45° 00' W	17,260	6,214	"	21
" West	316	114	"	22

May 5 North of El Paso

Plattine Notes.

Initial Point is Cor. N. V. H. and C. Sp. Line

	N.	S.	E.	N.
To Cor No 2	3042			0000
" 3	9630			3703
" 4	13038			17088
" 5	13038			30568
" 6	13518			34679
" 7	16193			34679
" 8	19648			47957
" 9	17406			55290
" 10	23193			67514
" 11	27049			73911
" 12	25030			76760
" 13	24743			76804
" 14	23913			78401
" 15	23861			84431
" 16	24472			88926
" 17	29128			93833
" 18	37279			102225
" 19	38917			104564
" 20	46609			112945
" 21	51003			117339
" 22	51003			117453

Cor. 37	8,080	2,909	Mon. No 5
Cor. 36	13,970	5,029	38° 00' N 38° 00'
Cor. 35	4,253	1,531	00° 00' North
Cor. 34	65,500	23,580	90° 00' West
Cor. 33	37,296	13,426	00° 00' North
Cor. 32	70,401	25,344	44° 55' N 44° 55'
Cor. 31	15,763	5,675	36° 56' N 36° 56'
Cor. 30	15,742	5,667	29° 03' N 29° 03'

Small
New York

Small
New York

G.M. + S.A.B.

Cor.	29	11,053	3,979	45° 59'	N 45° 59'
Cor.	28	16,215	5,837	46° 32'	N 46° 32'
Cor.	27	10,907	3,926	49° 40'	N 49° 40'
Cor.	26	17,349	6,246	58° 03'	N 58° 03'
Cor.	25	14,652	5,255	62° 23'	N 62° 23'
Cor.	24	18,855	6,788	53° 07'	N 53° 07'
Cor.	23	26,792	9,640	37° 34 1/2'	N 37° 34 1/2'
Cor.	22	316	114	53° 45'	N 53° 45'
Cor.	21	17,260	6,214	90° 00'	West.
Cor.	20	31,600	11,376	45° 00'	N 45° 00'
Cor.	19	7,930	2,855	47° 27'	N 47° 27'
Cor.	18	32,500	11,700	55° 00'	N 55° 00'
Cor.	17	18,790	6,764	45° 50'	N 45° 50'
Cor.	16	12,600	4,536	46° 30'	N 46° 30'
Cor.	15	16,750	6,030	82° 15'	N 82° 15'
Cor.	14	5,000	1,800	90° 30'	S 89° 30'
Cor.	13	505	290	117° 27'	S 62° 33'
Cor.	12	9,700	3,492	71° 20'	S 8° 40'
Cor.	11	20,750	7,470	125° 20'	S 54° 40'
Cor.	10	37,570	13,525	58° 55'	N 58° 55'
		32,850	11,826		
		16,920	6,091		
		2,100	756		
Cor.	9	21,300	7,668	64° 40'	N 64° 40'

G. H. & S. A. RY

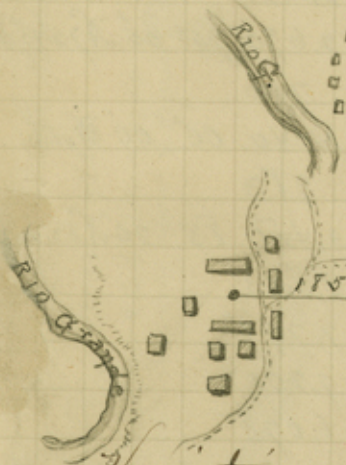
Camp Rice Sta.

S 70° 55' E

1500 ft to Flagstaff at Old Fort Quitman

Variation observation at Fort Quitman - 11° 55' W

Sierra Blanca



Line from Van Horn's Well to

		15,580	5,717		
		10,000	3,600		
Cor. 8.	D 1	38,110	13,720	107° 00'	S 73° 00' W
		20,060	7,222		
		13,120	4,723		
	D $\frac{3}{4}$	9,975	3,591		
	lev.	5,865	2,111		
Cor. 7.	E $\frac{1}{2}$	7,430	2,675	75° 25'	N 75° 25' W
	D $\frac{1}{2}$	2,100	756		
Cor. 6.	D 3	11,500	4,140	00° 00'	North
		2,730	983		
Cor. 5	E $\frac{3}{4}$	37,445	13,480	83° 20'	N 83° 20' W
		24,593	8,853		
		21,664	7,799		
	E $\frac{1}{2}$	20,000	7,200		
		16,885	6,078		
Cor. 4.	D $\frac{1}{2}$	38,230	13,763	90° 00'	West
		33,780	12,161		
		31,600	11,376		
	B 1	16,000	5,760		
Cor. 3.		21,063	7,582	75° 40'	N 75° 40' W
		4,973	1,790		
Cor. 2.		8,450	3,042	29° 40'	N 29° 40' W
Cor. 1.				10° 00'	North

Mon No 5. North of El Paso

Cor. 1. is Cor. 2. Van Horn + Crow Spring Line -
Telescope North, Van Horn.

In Base Cañon. Cor 3 to 4 Sta 3, 7, 80
the needle was in error about 4 degrees



Cor 6. N. 83° 40' W - 675 ft to Eagle Peak.
 " " N. 56° 53' W - 1650 " " No. 96 - R
 N.M. Cor. Sec 4 - Walker T. 9
 S.M. " " 45 " 68 - T. 8

Eagle Flat.

Sierra Blanca.

Old Stage Station

Eagle Star

Eagle Peak

Base Cañon

Van Horn

Line from Van Horn to South
Beginning at Cor 2, V.H. and Crow
Spr. Line, run South 19,317 feet =
6,954 Yards to South Boundary.

Cor. 2.	19,317	6,954	
Cor. 1.			00° 00' South.

Cor. 1. is Cor 2, V.H. and Crow Spr. Line
Telescope south - run geo.

Line from Antelope Spring to

Compass Notes

Beginning at Sta 9070 - Cor 4 to 5 Line
from San M. Spr, to F.B. West -

Thence	N 65° 20' W	83,107	29,918	to Cor No 2
"	S 77° 40' W	27,070	9,745	" 3
"	S 84° 10' W	85,650	30,834	" 4

Intersection of ~~17th~~ & S. Line -

Rating Notes

Initial Point is Sta 9070 Cor 4 to
5 Line Saw M. S. pt to S. B. West = Cor 1.

	N.	S.	E.	W.
So Cor No 2	12845			27189
" 3	10404			36709
" 4	7271			67383

Line from Antelope Spring to Inter-

Cor. 4.		80,650	30,834	
Cor. 3.	D/4	27,070	9,745	84° 10' S 84° 10' W
Cor 2.	D/2	83,107	29,918	77° 40' S 77° 40' W
		80,700	29,052	
	rev	77,500	27,900	
	D/2	66,400	23,904	
	rev	61,000	21,960	
		58,850	21,186	
		50,000	18,000	
		47,000	16,920	
		43,100	15,516	
		29,000	10,440	
Cor. 1.	E/2			114° 40' N 65° 20' W

Section of V.F. and Crow Spr. Line

Cor. 1. Sta 9070, Cor 4 to 5, San Martin + S. B. West. Line
Telescope South - True zero -



Line from Saw Martin Spring
Beginning at Corner 9 of Dela

	Compass		Notes	
Hence	S 57° 07' E	2,000	720	to Cor N ^o 2
"	S 30° 40' W	17,665	6,359	" 3
"	S 04° 32' W	19,000	6,840	" 4
"	S 40° 13' W	23,445	8,440	" 5
"	South	10,355	3,728	" 6
"	S 42° 55' W	15,825	5,697	" 7
"	S 80° 30' W	2,100	756	" 8
"	S 14° 10' W	4,220	1,519	" 9
"	South	16,344	5,884	" 10

S.B. West of Apache Mts
and S.B. Line

Initial Point is Cor 24. Salinas & Del. line.

Stalling	Notes	
	F	W
To Cor 7 ^o 2	97443	43493
3	102912	40250
4	109731	39710
5	116176	34260
6	119904	34260
7	124066	30381
8	124191	29635
9	125664	29263
10	131548	29263
Initial Point	20507	4198 from Del. Mon

Mon. on S.B., west of Del. Mon - 8 miles
 $\therefore \frac{2}{3} D^2 \times .6000 = 25.6 \text{ ft} = 9.7 \text{ ft}$

Line from Saw Martin Spring

Cor. 10.		16,344	5,884	
Cor. 9.	D/4	4,220	1,519	00° 00' South
	E 3	3,550		
	E 5	2,800		
	E 3	2,000		
Cor. 8.	E 2	2,100	756	14° 10' S 14° 10' W
Cor. 7.	E 1	15,825	5,697	80° 30' S 80° 30' W
Cor. 6.	E 1	10,355	3,728	42° 55' S 42° 55' W
	Ter.	8,215		
Cor. 5.	E 1/2	23,445	8,440	00° 00' South
		9,070	3,265	
	Ter.	7,438	2,678	
	E 1/2	1,500		
Cor. 4.	D/2	19,000	6,840	40° 13' S 40° 13' W
	Ter.	13,000		
	D 1	11,700		
Cor. 3.	E 1	17,665	6,359	04° 32' S 4° 32' W
	D/2	14,900		
	Ter.	12,000		
	E 2	9,000		
Cor. 2.	E 1/2	2,000	720	30° 40' S 30° 40' W
Cor. 1.	Ter.		57° 07'	S 57° 07' W

to South Boundary West of Apache Mts.

Cor. 1. is Cor 9 of Delaware and S. B. Line
Telescope south - Vermier zero.

Tommy's Ranch

Antelope
Spr

Corr 27

S 23° E
10.40' E

Line to Crow Spr Line
N 65° 20' W



E South

Boundary

S 59° 15' E

S 40° 20' E

S 41° 20' W

2000'

S

W

Line from Delaware Creek to
Beginning at Cor 24. Line from Salinas

Compass Notes.

Thence	S 2° 00' E	43,810	15,772	To Cor No 2
"	S 36° 20' E	17,975	6,471	" 3
"	S 32° 10' E	13,587	4,891	" 4
"	S 50° 10' E	12,863	4,631	" 5
"	S 44° 50' E	94,660	34,078	" 6
"	S 14° 00' E	92,912	33,448	" 7
"	S 37° 46' E	16,060	5,782	" 8
"	S 27° 47' W	24,625	8,865	" 9
"	S 57° 07' E	27,290	9,824	" 10
"	N 49° 30' E	3,340	1,202	" 11
"	S 47° 14' E	16,970	6,109	" 12
"	S 25° 00' E	6,795	2,446	" 13
"	S 13° 55' E	43,225	15,561	" 14
"	S 53° 50' E	39,772	14,318	" 15

South Boundary east of Apache Mts
 2^d Mon. on Delaware Creek -
 Initial Point is Corner 24 - above -
 — Plattings Notes —

	N.	S.	E.	W.
2 ^d Cor No 2		15764	560	
" 3		20977	4394	
" 4		25117	6998	
" 5		28084	10554	
" 6		52252	34579	
" 7		84707	43480	
" 8		89208	47021	
" 9		97052	42888	
" 10		102386	51138	
" 11		101606	52052	
" 12		105757	56537	
" 13		107971	57571	
" 14		123076	61313	
" 15		131525	72872	
Initial Point		20507		44198 from Del. Mon

Mon. on S.B. 15 miles east of Mon on Del.
 $\therefore \frac{2}{3} D^2 \times .6000 = 90ft = 32 \frac{2}{3} \text{ in}$

From May 1. at Cor 15, run S 50° 40' E.
10425 ft to N. W. Cor. Sec. 38. Tsp. 10. Blk. 56.
use 11° 10' E. variation.

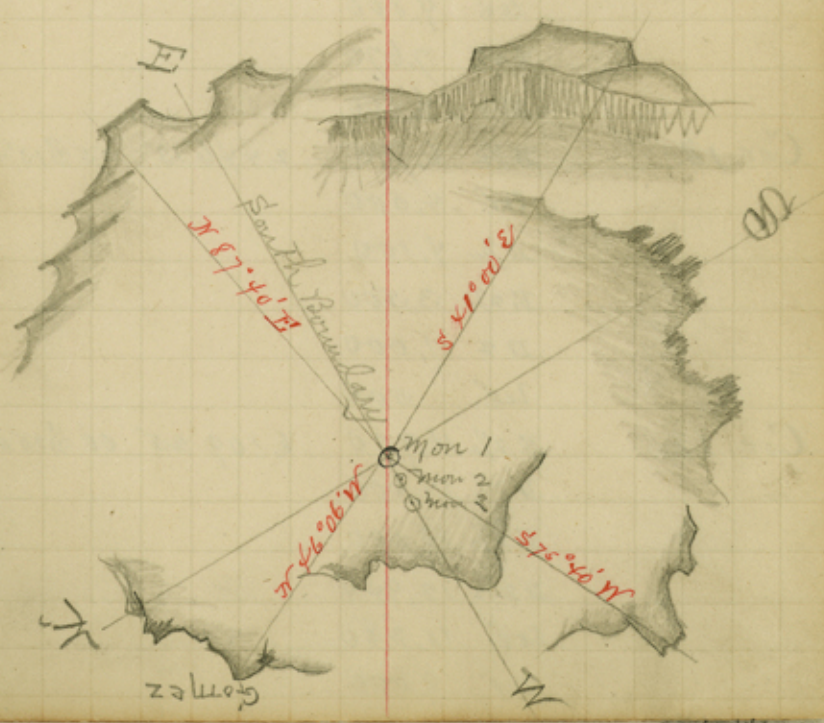
From Mexican settlement "Colado"

To Gomez. — N 62° 55' W. } var 11° 10' E.
South Mt. S 10° 20' W }
W. end of Table Mt. S 10° 10' E.

From "Colado" to Phantom Lake
about N 70° W about 3 miles

Cor. 15

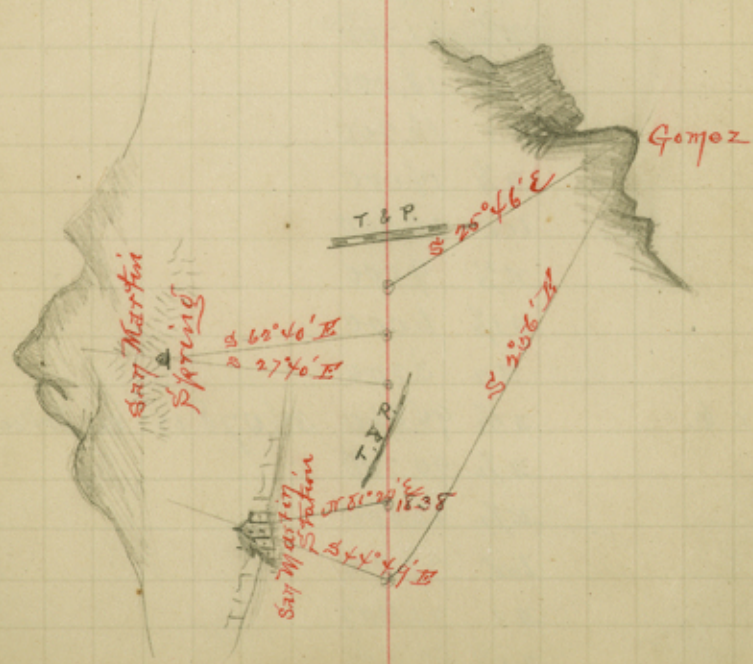
	39,772	14,318
2ev	33,000	
II	30,000	
2ev	23,000	
II 1/2	21,600	
II 1/2	17,740	



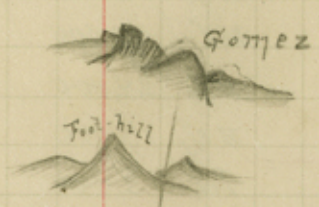
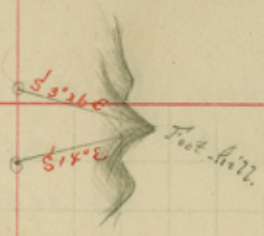
	E $1\frac{1}{2}$	15,230		
		13,845	4,984	
	Lev.	6,000		
	D $3\frac{1}{4}$	4,000		
Cor. 14.	Lev.	43,225	15,561	$53^{\circ} 50' S 53^{\circ} 50'$
	Lev.	23,500		
	E $1\frac{1}{4}$	21,000		
	Lev.	14,000		
	E $1\frac{1}{4}$	12,200		
	Lev.	9,800		
	D $2\frac{3}{4}$	7,670		
	E 1	4,500		
Cor. 13.	D $\frac{1}{2}$	6,795	2,446	$13^{\circ} 55' S 13^{\circ} 55' E$
	Lev.	4,500		
	E $\frac{1}{2}$	4,100		
	E $2\frac{1}{4}$	3,500		
	D 2	1,000		
	Lev.	500		
Cor. 12.	E $2\frac{1}{2}$	16,970	6,109	$25^{\circ} 00' S 25^{\circ} 00'$
	D $1\frac{1}{2}$	14,600		
	E $1\frac{1}{2}$	13,500		
	D $2\frac{1}{2}$	12,944		
	Lev.	11,280		
	D 1	9,000		



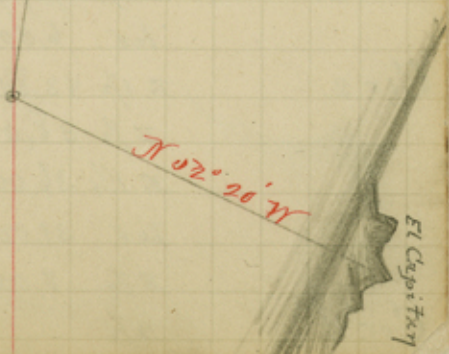
	D 1/2	7,230		
	Lev.	3,000		
	D 4	1,000		
Cor. 11.	D 1	3,340	1,202	47° 14' S 47° 14' E
Cor. 10.	D 2	27,290	9,824	130° 30' N 49° 30' E
	E 1/2	21,840		
	E 1/2	20,000		
	Lev.	18,000		
	D 1	16,000		
	E 2 1/2	14,700		
	E 1/2	11,000		
	E 2	8,500		
	E 1	4,000		
		2,000	720	
		1,017	366	
Cor. 9.	Lev.	24,620	8,865	57° 07' S 57° 07' E
		19,872	7,154	
		17,875	6,435	
		9,830	3,539	
	E 1/2	4,500	1,620	
	E 1/4	1,838	662	
Cor. 8	E 1	16,060	5,782	27° 47' S 27° 47' W
	D 1 1/2	14,542		
	E 3/4	3,792	1,365	



Cor. 7.	Zed.	92,912	33,448	37° 46' 33"	46' 37"	46' E
		88,000				
	Zed.	65,000				
		60,000				
	E $\frac{3}{4}$	56,200				
	D $\frac{3}{4}$	53,830				
	Zed.	48,000				
	D $\frac{1}{2}$	38,600				
	Zed.	28,600				
	D $\frac{1}{2}$	24,000				
	D $\frac{3}{4}$	21,700				
	D $\frac{1}{4}$	18,000				
	D 1	16,200				
	D $\frac{1}{4}$	14,000				
	Zed.	10,500				
	E $\frac{3}{4}$	9,000				
D $1\frac{1}{4}$	6,000					
E 2	3,200					
Cor. 6.	D $\frac{1}{2}$	94,660	34,078	14° 00'	S 14° 00'	E
	D $\frac{1}{2}$	90,700				
	E $\frac{1}{2}$	83,500				
	Zed.	77,000				
	D 1	71,607				
D $1\frac{1}{4}$	62,500					



W. 02° 20' S

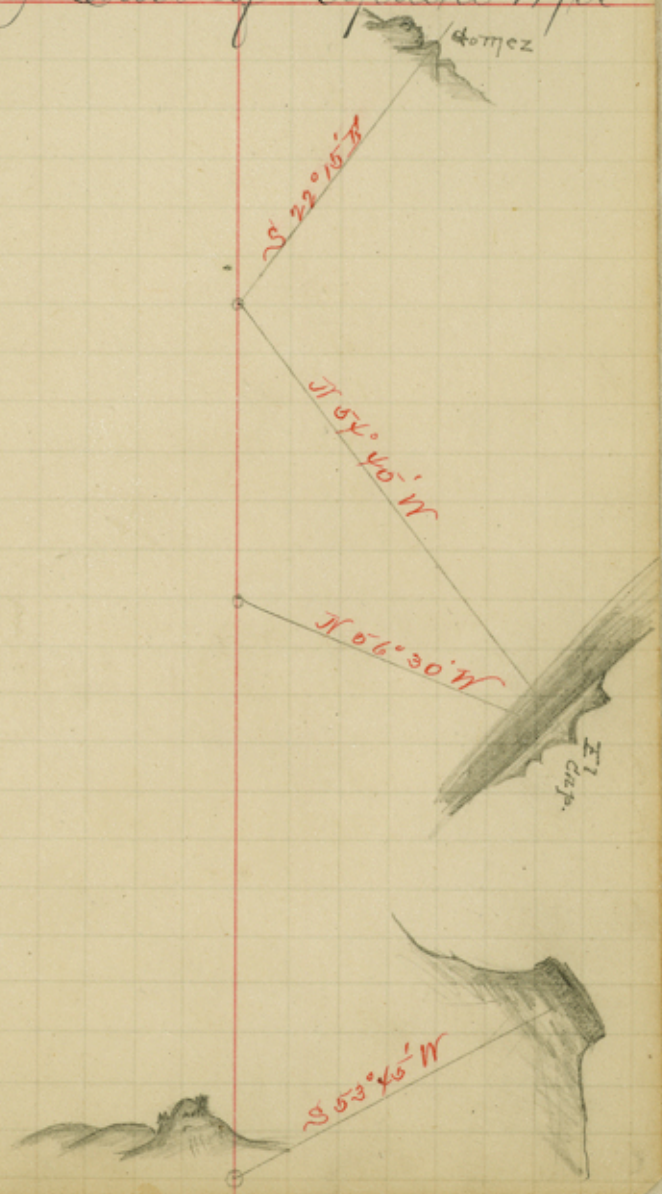


Line from Delaware Ci to South

	D $\frac{1}{4}$	52,800		
	E $\frac{1}{4}$	51,300		
	E $\frac{1}{2}$	49,630		
	E $\frac{1}{4}$	43,000		
	D 1	40,500		
	D $\frac{1}{2}$	32,035	11,533	
	D $\frac{1}{4}$	31,000		
	Sec.	27,000		
	E $\frac{1}{4}$	24,000		
	E $\frac{1}{2}$	17,000		
	Sec.	3,000		
		2,403	865	
Cor. 5.	D 1	12,863	4,631	44° 50' S 44° 50' E
	D $\frac{1}{2}$	10,077		
		7,710		
Cor. 4.	D $\frac{1}{2}$	13,587	4,891	50° 10' S 50° 10' E
Cor. 3.	D $\frac{1}{4}$	17,975	6,471	32° 10' S 32° 10' E
	Sec.	6,500		
Cor. 2.	E $\frac{1}{2}$	43,810	15,772	36° 20' S 36° 20' E
	E $\frac{1}{2}$	38,000		
	E $\frac{1}{4}$	36,000		
	Sec.	31,000	11,160	
	E $\frac{1}{2}$	2,000		
Cor. 1.	D $\frac{1}{4}$			02° 00' S 2° 00' E

Boundary East of Apache Mts

Cor 1 - Cor 24 of Sabine & Delaware Line -
Axis of Telescope, points south - Vernier reads 90°.
Variation 11° 45' E



Thence S 71° 00' E	20,884	7,518	to Cor	N ^o 23
" N 84° 40' E	17,015	4,325	"	24
" N 48° 20' E	13,305	4,790	"	25
" N 73° 20' E	6,390	2,300	"	26
" S 80° 00' E	4,912	1,768	"	27
" N 80° 00' E	15,238	5,486	"	28
" N 35° 00' E	13,400	4,824	"	29
" N 82° 45' E	23,920	8,611	"	30
" N 38° 40' E	3,907	1,406	"	31
" N 60° 40' E	11,690	4,208	"	32
" N 84° 40' E	16,800	6,048	"	33
" N 50° 00' E	26,770	9,637	"	34
" N 62° 10' E	6,325	2,277	"	35

	N.	S.	E.	W.
Co. No 23	17325		55938	
" 24	17727		60244	
" 25	20911		63822	
" 26	21571		66025	
" 27	21264		67766	
" 28	22216		73169	
" 29	26168		75936	
" 30	27255		84478	
" 31	28353		85386	
" 32	30414		89024	
" 33	30976		95046	
" 34	37171		102428	
" 35	38234		104442	

Cor. 35. is $4\frac{1}{2}$ miles east of V. H. Well
Corner No 2.

$$\therefore \frac{2}{3} D^2 \times .624869 = 683.3 \text{ ft} = 246 \text{ Vrs.}$$

Line from Salinas to Monumento
 ———— Compass Notes ————
 Beginning at Sta. 29176, Cor 10 to 11

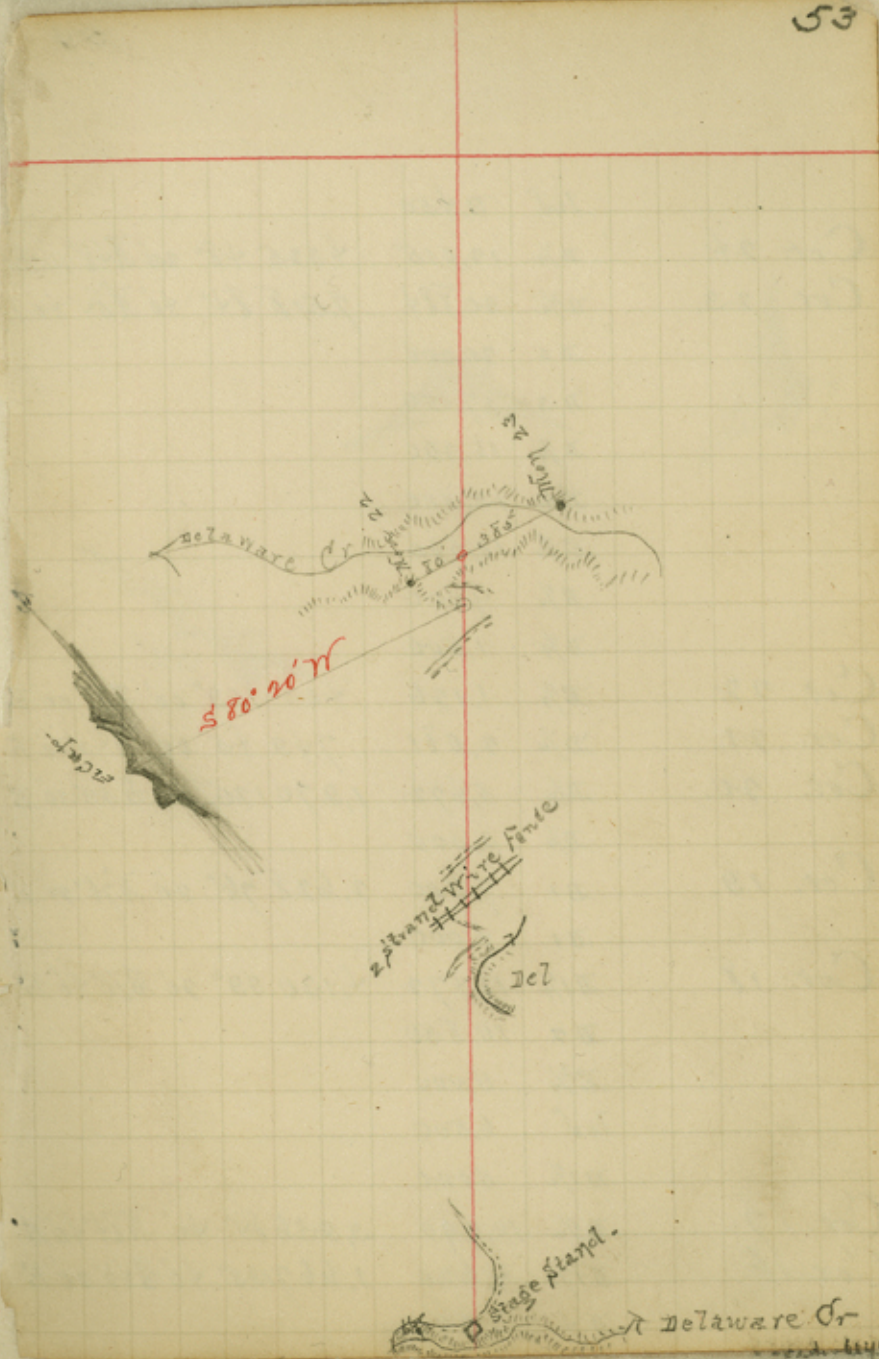
Thence N 60° 40' E	73,735	26,545	to Cor N° 2
" N 10° 36' E	13,518	4,866	" 3
" N 18° 40' W	7,363	2,651	" 4
" S 68° 30' E	554	199	" 5
" S 60° 30' E	820	295	" 6
" S 28° 30' E	638	230	" 7
" S 67° 10' E	1,638	590	" 8
" N 86° 27' E	1,782	642	" 9
" S 82° 42' E	2,665	960	" 10
" N 11° 40' W	5,206	1,874	" 11
" N 25° 40' W	5,540	1,994	" 12
" N 83° 00' E	2,452	883	" 13
" N 88° 51' E	30,150	10,854	" 14
" South	2,826	1,017	" 15
" S 51° 00' E	4,630	1,667	" 16
" S 46° 20' E	10,990	3,956	" 17
" N 84° 40' E	11,472	4,130	" 18
" S 80° 40' E	7,300	2,628	" 19
" N 76° 20' E	5,472	1,970	" 20
" S 59° 30' E	2,081	749	" 21
" N 45° 00' E	1,126	405	" 22

on Delaware Creek

Rating Notes
of Van Horn and Crow Spring Line
Initial Point is Station 27126 - above -

To Cor No	^{N.}	^{S.}	^{E.}	^{W.}
2	13004		23142	
" 3	17870		23193	
" 4	20482		22344	
" 5	20309		22529	
" 6	20164		22786	
" 7	19962		22896	
" 8	19733		23440	
" 9	19773		24081	
" 10	19651		25033	
" 11	21486		24654	
" 12	23283		23790	
" 13	24024		24271	
" 14	24241		35123	
" 15	23224		35123	
" 16	22175		36415	
" 17	19443		39280	
" 18	19827		43392	
" 19	19401		45985	
" 20	19867		47899	
" 21	19487		48544	
" 22	19773		48830	

Cor. 35.		6,325	2,277		
Cor. 34.		26,770	9,637	62° 10'	N 62° 10' E
	zer.	9,000			
Cor. 33.	D 1/4	16,800	6,048	50° 00'	N 50° 00' E
Cor. 32.	D 3/4	11,690	4,208	84° 40'	N 84° 40' E
Cor. 31.		3,907	1,406	60° 40'	N 60° 40' E
Cor. 30.		23,920	8,611	38° 40'	N 38° 40' E
		18,500	6,660		
Cor. 29.	zer.	13,400	4,824	82° 45'	N 82° 45' E
Cor. 28.	D 1/2	15,238	5,486	35° 00'	N 35° 00' E
Cor. 27.	D 1/2	4,912	1,768	80° 00'	N 80° 00' E
Cor. 26.	D 1	6,390	2,300	100° 00'	S 80° 00' E
	zer.	3,800			
	D 3/4	800			
Cor. 25.	E 3/4	13,305	4,790	73° 20'	N 73° 20' E
	E 1/2	9,860			
		9,750	3,510		

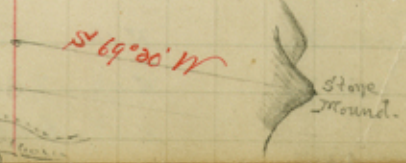
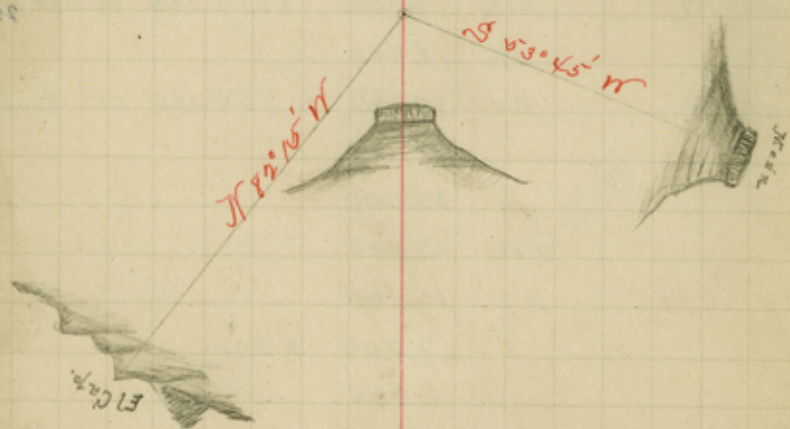


Stage station.

Delaware Cr

1845

	1 ^{ad} .	9,450			
Cor. 24.	D $\frac{1}{2}$	12,015	4,325	48° 20'	N48° 5'E.
Cor. 23.	D $\frac{3}{4}$	20,884	7,518	84° 40'	N84° 40'E.
	D 2	20,000			
	D 3	17,000			
	D $\frac{1}{2}$	16,290			
	E 2	13,500			
	E $\frac{1}{2}$	10,500			
	E $\frac{1}{4}$	9,000			
	D $\frac{1}{4}$	1,500			
Cor. 22.	E $\frac{1}{2}$	1,126	405	109° 00'	S71° 00'E.
Cor. 21.	D $\frac{1}{4}$	2,081	749	45° 00'	N45° 00'E.
Cor. 20.	D $\frac{1}{4}$	5,472	1,970	120° 30'	S59° 30'E.
	D $\frac{1}{4}$	3,000			
Cor. 19.	D 1	7,300	2,628	76° 20'	N76° 20'E.
	D 1	4,000			
Cor. 18.	D1 $\frac{3}{4}$	11,472	4,130	99° 20'	S80° 40'E.
	D 2	10,850			
	E $\frac{3}{4}$	9,000			
	1 ^{ad} .	6,500			
	D1 $\frac{1}{2}$	5000			
Cor 17	D $\frac{1}{2}$	10,990	3,956	84° 40'	N84° 40'E.
Cor 16	D1 $\frac{1}{2}$	4,630	1,667	133° 40'	S46° 20'E.
	D 4	3,390			



into 6457

	D 2 1/4	1,000		
Cor. 15.	D 1 1/4	2,826	1,017	129° 00' S 51° 00' E
	D 1/2	1,240		
Cor. 14.	E 1	30,150	10,854	150° 00' South
		28,000		
		24,000		
	D 1 1/2	13,000		
	D 2	11,000		
		7,000	2,520	
		6,550		
		1,955	704	
Cor. 13.	D 2 1/2	2,452	883	88° 51' N 88° 51' E
	100'	1,500		
Cor. 12.	D 1 1/4	5,540	1,994	33° 00' N 33° 00' E
	E 3	1,500		
Cor. 11.	E 2 1/2	5,206	1,874	25° 40' N 25° 40' W
Cor. 10.	E 1 1/4	2,665	960	11° 40' N 11° 40' W
Cor. 9.	D 3	1,782	642	97° 18' S 82° 42' E
Cor. 8.	D 1/4	1,638	590	86° 27' N 86° 27' E
Cor. 7.	E 1 1/2	638	230	117° 50' S 67° 10' E
Cor. 6.	E 1	820	295	151° 30' S 28° 30' E
Cor. 5.	E 1 1/2	554	199	119° 30' S 60° 30' E
Cor. 4.	E 5/8	7,363	2,657	111° 30' S 68° 30' E
	E 5/8	6,000	2,160	



$a : b :: \sin A : \sin B :: b : \frac{\sin A \times a}{\sin B}$
 $b = \frac{.986716 \times 300}{.2971207} = 1240+$



52' left to S.E. Cor Sec 4 1076K

El Capitlay Head

Line from Salinas to Monument

Cor. 3.	E 3/4	13,515	4,866	18° 46'	N 18° 40'
	E 2/4	10,000			
	E 1/2	6,410			
Cor. 2.	E 1/2	73,735	26,545	00° 36'	N 00° 36'
	E 1	59,500			
	E 1	57,000			
	D 5	56,800			
	E 3/4	55,500			
		4,750			
	E 1	4,000			
	E 3/4	36,000			
	E 3/4	29,000			
	E 1/2	27,000			
	E 3/4	23,000			
		20,515	7,385		
		17,910	6,448		
		17,000	6,170		
		14,570	5,245		
		10,710	3,856		
		10,400	3,744		
		4,175	1,503		
		2,100	756		
		1,000	360		

Cor. 1.
cont. 60460

60° 40' N 60° 40'

No 22 on Delaware Creek

Cor. 1. is at station 27176 - cor 10 to 11. Van D. and Crow
 Apr. Line -
 Axis of telescope points North, Vern reads 95°.



Lines from Van Horns Well to
Compass Notes.

Beginning at N.E. Corner of Old Stage
Stand at Van Horns Well

	Feet	Vars	to Cor	
Thence N 45° 00' E	2,640	950	to Cor	1
" East	2,014	725	"	2
" North	33,079	11,908	"	3
" West	2,661	958	"	4
" N 9° 00' W	2,320	835	"	5
" N 19° 00' E	2,111	760	"	6
" N 24° 00' E	68,471	24,650	"	7
" North	25,493	9,177	"	8
" N 19° 00' W	27,814	10,013	"	9
" N 30° 00' W	146,284	52,662	"	10
" N 47° 00' W	34,543	12,435	"	11
" North	7,875	2,835	"	12
" N 80° 00' W	2,285	823	"	13
" North	92,705	33,374	"	14
" West.	2,937	1,057	Mon	17

Mon. 17. west of Van Horns Well. Cor 2. 16 1/2 Miles
∴ $\frac{2}{3} D^2 \times .624869 = 113 \frac{1}{2} \text{ft} = 41 \text{ Vars.}$

Low Springs —
 — Platting Notes —

Initial Point is Corner No 2, this Line.

To Cor No 1	North	South	East	West
				725
0		672		1,397
3	11,908			
4	11,908			968
5	12,733			1089
6	13,451			842
7	35,969		9183	
8	45,146		9183	
9	54,613		5923	
10	100,318			20,468
11	168,790			29,503
12	111,634			29,503
13	111,777			30,313
14	145,151			30,313
May 17	145,151			31,370

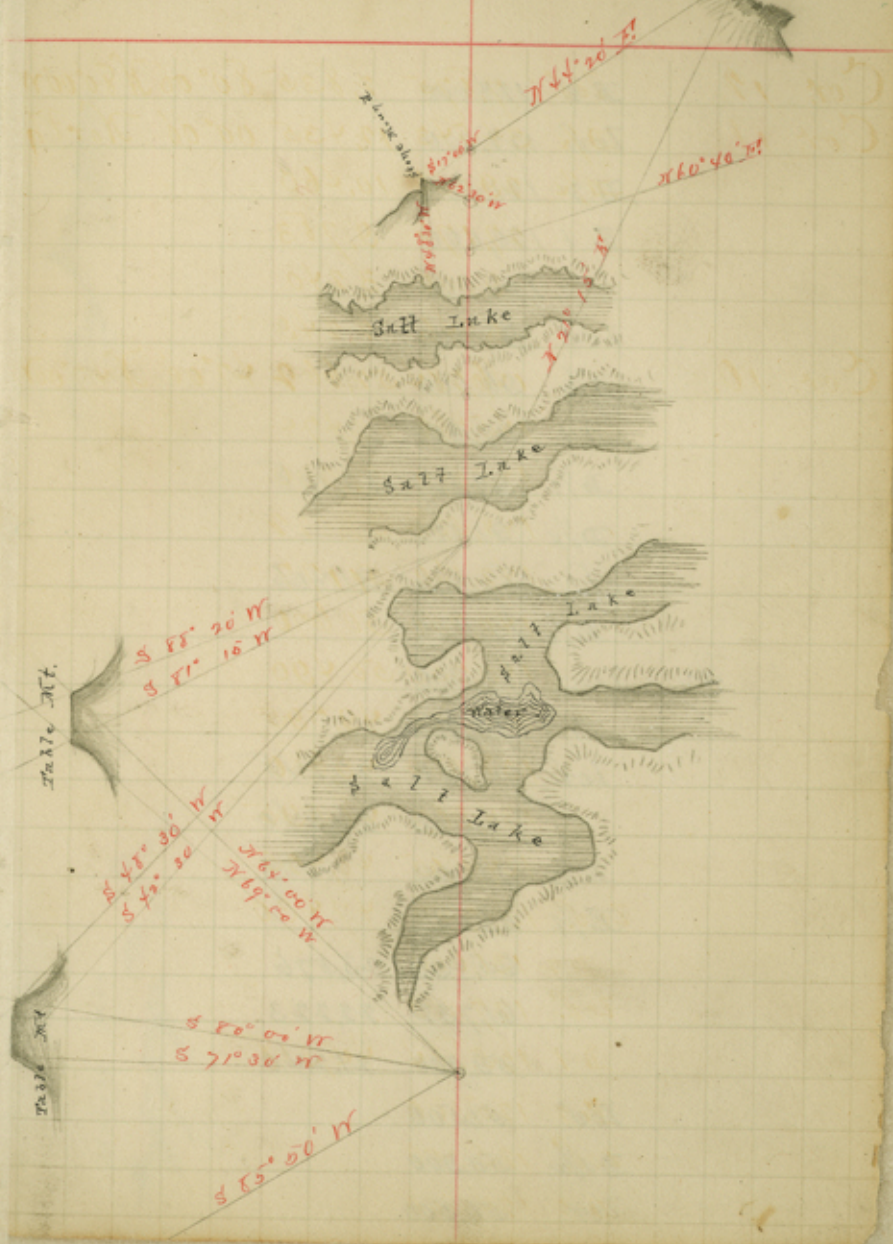
Sta 27176 — 107090 — — 27563 Cor 10 to 11

These monuments show various

Monument	17.	2,937	1,057	
Cor. 14.		92,705	33,374	90° 00' West.
		89,910	32,368	
		75,228	27,082	
	7ed.	60,000		
	D 1/4	56,500		
	B 2	55,110	19,840	
		54,553	19,639	
	7ed.	50,000		
	D 2	49,520		
	B 3	49,106	17,678	
	7ed.	47,860	17,230	
	D 3	47,282		
	B 2	46,560	16,762	
		33,820	12,175	
		33,515	12,065	
		32,767	11,796	
		28,058	10,101	
		2,285	823	00° 00' North.
Cor. 13.				

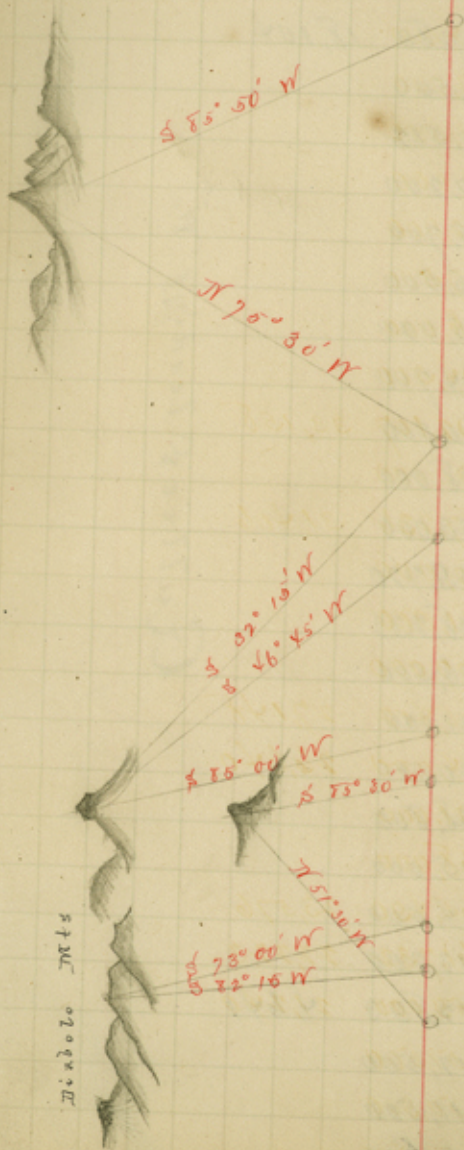
Cor. 19.	Zed.	7,875	2,835	80° 00'	N 80° 00' W.
Cor. 11.	D 1/4	34,543	12,435	00° 00'	North
	D 1/4	29,056	10,460		
		27,176	9,783		
		9,000	3,240		
		6,246	2,249		
Cor. 10.		146,284	52,662	47° 00'	N 47° 00' W.
		145,760	52,474		
		145,000	52,200		
		144,506	52,022		
		142,160	51,177		
		140,750	50,670		
		140,250	50,490		
		138,320	49,795		
		138,000	49,680		
		134,987	48,595		
		134,515	48,425		
	Zed.	131,750	47,430		
	D 2	131,000			
	Zed.	127,000			
	D 1	125,884	45,318		
	D 2	125,000			
	Zed.	125,000			
	D 2	124,500			

St. Capitay



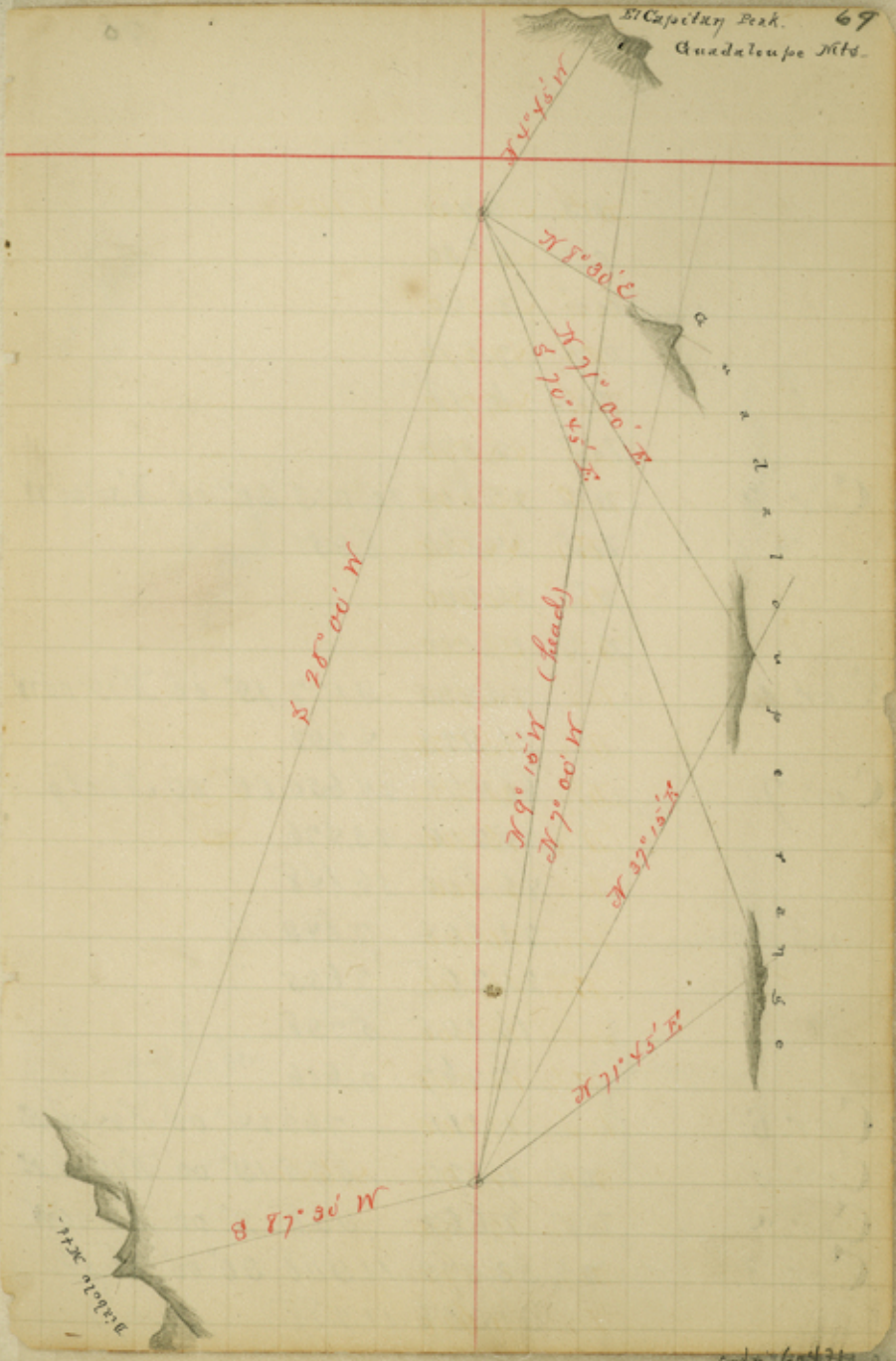
Cor
Co

E 2	124,000	
Zed.	122,000	
D 2	121,500	
E. 1	120,000	
	102,000	
Zed.	97,500	
D 1/2	96,000	
D 1	94,500	
D 1/2	92,107	33,158
D 1/4	91,000	
Zed.	87,236	31,406
E 1/4	82,000	
Zed.	81,000	
E 1/4	77,000	
Zed.	75,412	27,148
	74,000	26,640
E 1/2	71,000	
E 1/4	68,000	
	65,490	23,576
	61,732	22,223
	59,000	21,240
Zed.	57,000	
D 1/2	50,900	
Zed	50,500	

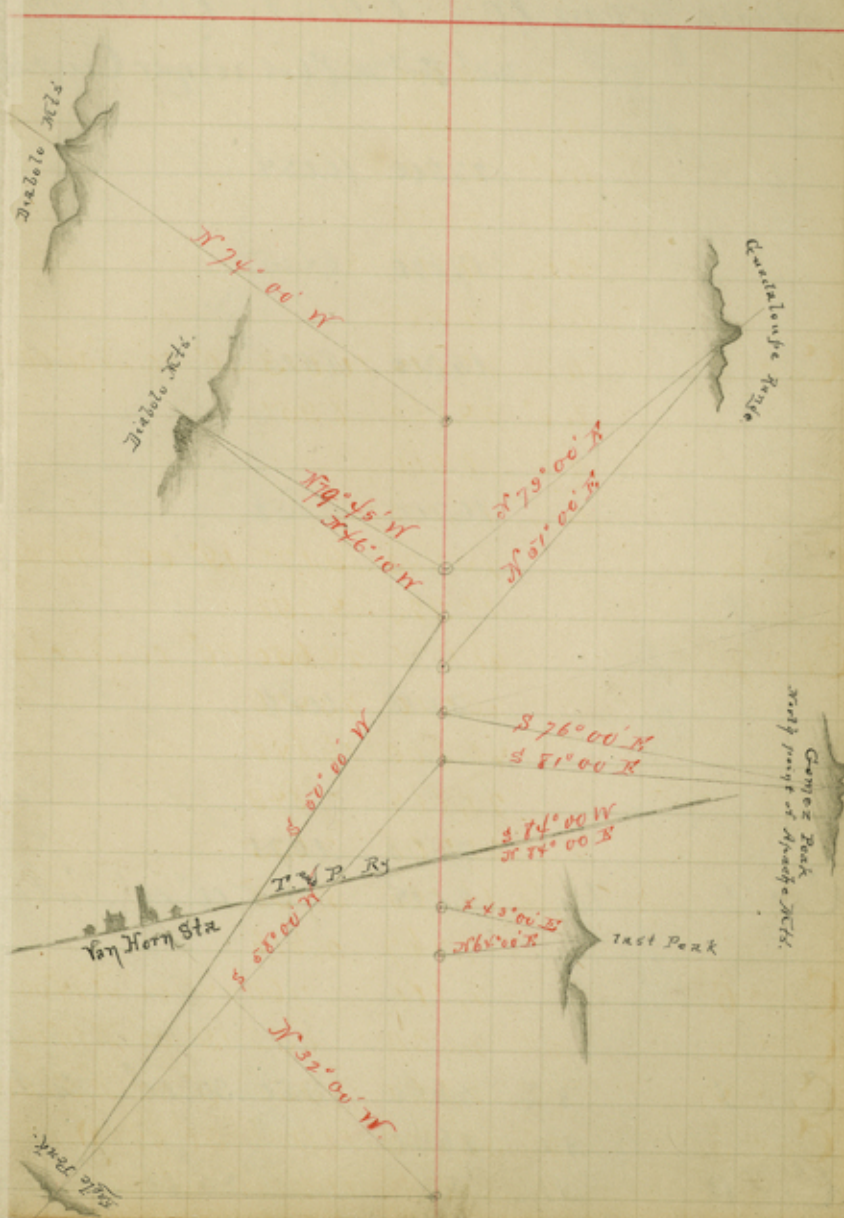


D $1\frac{3}{4}$	50,289	18,104
	49,500	
Zed.	47,512	
E $\frac{1}{4}$	47,200	
Zed.	45,700	
D 3	45,500	
Zed	45,070	
E 1	44,700	
Zed.	40,000	
D $\frac{3}{4}$	38,000	
Zed.	33,000	
D $\frac{1}{2}$	29,770	
D $\frac{3}{4}$	28,233	
D $\frac{1}{4}$	26,500	
Zed.	21,000	
Zed.	20,000	
E $\frac{1}{2}$	18,800	
Zed	15,000	
E $\frac{1}{2}$	14,500	
Zed	13,200	
D 1	12,893	4,641
D $\frac{1}{4}$	12,500	
E $\frac{1}{2}$	11,500	
Zed.	9,600	

Quittes leading W.



	D 3	9,200		
	E 3	8,630		
	Ter.	8,100		
	D 4	7,576		
	E 1/2	6,118		
	Ter.	2,272		
Cor. 9.	D 1/4	27,814	10,013	30° 00' N 30° 00' W.
	Ter.	24,865	8,951	
	D 3/4	20,000		
	E 3/4	17,000		
Cor. 8.		25,493	9,177	19° 00' N 19° 00' W.
		11,923	4,292	
Cor. 7.		68,471	24,650	00° 00' North
		65,210	23,476	
		46,800	16,848	
		21,804	7,849	
		21,208	7,635	
		16,105	5,798	
		7,267	2,616	
Cor. 6.		7,111	760	24° 00' N 24° 00' E
Cor. 5.	D 1/4	2,320	835	19° 00' N 19° 00' E
Cor. 4.	Ter.	2,661	958	9° 00' N 9° 00' W.
Cor. 3.	D 3/4	33,079	11,908	90° 00' West.
		31,356	11,288	



Line from Van Horns Well to

Dist-Feet Dist-Vrs Verrier Cours

27,900 10,044

17,820 6,415

15,300 5,508

10,700 3,852

3,018 1,086

Cor. 2. 1st 2,975 1,071
2,014 725° 00' 00" North

Cor. 1. 2 1/4 2,640 950 90° 00' East

21 1,650

Cor. 0. 2 1/2 45° 00' N 45° 00' E

