BREWSTER COUNTY
ROLLED SKETCH NO. 126

Survey Reports:

A	Harold Marsh
21	R. S. Hunnicutt
47	James P. Dodd
49	W. L. Rider
50	H. R. Gard
55	B. M. Haberer
59AA	D. B. Scott
59CC	D. B. Scott
60	M. P. BALL

Surveyed 1910-1930
Filed 3/1/1976

counter 43230

THE STATE OF TEXAS

GENERAL LAND OFFICE

ENGINEERING DIVISION

AUSTIN

Primary Traverse Field Notes

Counter A 32 31

ANY PERSON

FINDING THIS BOOK WILL PLEASE IMMEDIATELY NOTIFY COMMISSIONER, GENERAL LAND OFFICE, AUSTIN, TEXAS, WHO WILL SEND THE NECESSARY POSTAGE FOR ITS RETURN.

S4001-839-40 bks

BOOK NO. 2

100 - 5
90 - 22
100 - 25
64.5 - 0

THE STATE OF TEXAS
GENERAL LAND OFFICE
ENGINEERING DIVISION
Austin

PRIMARY TRAVERSE FIELD NOTES

Counties, Brewster

Sheets,

Development From

Computations in Book Nos.

Of , 19 , and 19

By

Transitman

Recorder

Make and Number of Instruments Used

19

counter 43232

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
		0	95 06 20	275 06 20	95 06 20	-		
		1	56 22 20	236 22 20	56 22 20	38 44 00		12 mi Riv 7 Reng 219 16 59
River	Stair Way	4	300 11 20	120 11 20	300 11 20	38 43 45		" Par 95 03 50
		6	222 43 40	42 43 40	222 43 40	38 43 47		Sight Persimmon gap tur direct +
				R		(38 43 38)		
		0	~~135 21 00~~ ~~222 43 40~~	315 21 00	135 21 00			
		1	96 37 40	276 37 40	96 37 40	38 43 20		
		4	340 27 00	160 27 00	340 27 00	38 43 30		
		6	263 00 00	83 00 00	263 00 00	38 43 30		
River	Mar. Riv. F	0	285 28 00	105 28 00	285 28 00	-		
		1	213 14 20	33 14 00	213 14 20	72 13 40		Sight Stairway Pk Flag B turn
		4	356 33 00	176 33 00	356 33 00	72 13 45		
		6	212 05 40	32 05 40	212 05 40	72 13 43		
						(72 13 47)		
		0	146 00 00	326 00 00	146 00 00			
		1	73 46 20	253 46 20	73 46 20	72 13 40		
		4	217 04 40	37 04 40	217 04 40	72 13 50		
		6	72 37 00	252 37 00	72 37 00	72 13 50		

counter 13233

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	217 14 00	37 14 00	217 14 00	+		
River	Mar R flag	1	344 06 00	164 06 00	344 06 00	126 52 00		Sight what I took to be Reagan Flag & turn
		4	358 41 20	178 41 20	358 41 20			
				R				
		0	358 41 20	178 41 20	358 41 20			
		1	123 33 20	303 33 20	123 33 20			
		4	138 09 00	318 09 00	138 09 00			

counter 43234

TRAVERSE

FROM Mary. Co. Base Line Δ To dist 1500, 19

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	138 12 20	318 12 20	138 12 20	+		length A-B = 1500
A	B	1	199 46 20	19 46 40	199 46 30	61 34 10		Chained on ground
		4	24 29 20	204 29 20	24 29 20	61 34 15		+ inclination = +
		6	147 37 40	327 37 40	147 37 40	61 34 13		
								along A-B dist 1462
				R		(61 34 17)		= 1162' is rock mound
		0	147 3		147 37 40			2' high & 5' long.
		1	209 12 00	29 12 00	209 12 00	61 34 20		
		4	33 55 00	213 55 00	33 55 00	61 34 20		sight Mar. Rv. Flag
		6	157 03 40	337 03 40	157 03 40	61 34 20		
								Sta. A abt. 60' W. of bluff
								bank of Rio Grande
A	Stairway Peak	0			157 03 40	+		
		1	193 15 40	13 15 20	193 15 30	36 11 50		Sta. A 1190 N.E. of
		4	301 51 00	121 51 00	301 51 00	36 11 50		mouth of Mar. Rv.
		6	14 14 40	194 14 40	14 14 40	36 11 50		
								sighted Mar. Rv. flag
				R		(36 11 45)		
		0			14 14 40			
		1	50 26 20	230 26 20	50 26 20	36 11 40		
		4	159 01 00	339 01 20	159 01 10	36 11 38		
		6	231 24 40	51 24 40	231 24 40	36 11 40		
A	Mouth of Mar. Rv.		231 25 00	51 25 00	231 25 00	-		sight Mar. Rv. flag
			221 31 00	41 31 00	221 31 00	09 54 00		
				31 36 00	211 36 00	09 55 00		
						09 54 30		

counter 43235

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	211 36 20	31 36 20	211 36 20	-		
B	A	1	99 30 00	279 30 20	99 30 10	112 06 10		sighted Mar. Rv. flag
		4	123 12 00	303 12 00	123 12 00	112 06 05		
		6	259 00 00	78 59 40	258 59 50	112 06 05		
					,	(112 06 02)		
				R				
					258 59 50			
			146 53 40	326 53 40	146 53 40	112 06 10		
			170 36 00	350 36 00	170 36 00	112 05 58		
			306 24 00	126 24 00	306 24 00	112 05 58		

counter 43236

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
	Stairway Peak	0	274 54 00	94 54 00	274 54 00	+		
Persimmon		1	301 12 20	121 12 20	301 12 20	26 18 20		backsight River
		4	20 07 40	200 07 40	20 07 40	26 18 25		
		6	72 44 20	252 44 40	72 44 30	26 18 25		
				R		(26 18 28)		
		0			72 44 30			
		1	99 03 00	279 03 00	99 03 00	26 18 30		
		4	177 59 00	357 58 40	177 58 50	26 18 35		
		6	230 35 40	50 35 20	230 35 30	26 18 30		
Hayway Peak	J-Flag	0	231 33 40	51 33 40	231 33 40	+		sight Hun C. Cor turn
		1	241 42 00	61 41 40	241 41 50	10 08 10		
		4	272 06 20	92 06 00	272 06 10	10 08 08		
		6	292 22 20	112 22 20	292 22 20	10 08 17		
				R		(10 08 14)		
		0			292 22 20			
		1	302 30 00	122 30 20	302 30 10	10 07 50		
		4	332 55 20	152 55 20	332 55 20	10 08 15		
		6	353 11 20	173 11 20	353 11 20	10 08 10		

counter 73237

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
Stairway Peak	Hunt Cor	0	353 11 20	173 11 20	353 11 20	+		Sight Pearson Gap Return
		1	69 18 40	249 19 00	69 18 50	76 07 30		
		4	297 42 20	117 42 20	297 42 20	76 07 45		
		6	89 58 20	269 58 20	89 58 20	76 07 50		
			~			(76 07 45)		
				R				
		0			89 58 20			
		1	166 05 40	346 05 40	166 05 40	76 07 20		
		4	34 28 40	214 29 00	34 28 50	76 07 38		
		6	186 44 20	06 44 20	186 44 20	76 07 40		
Stairway Peak	River	0			186 44 20	+		Sight Per. Gap.
		1	301 41 20	121 41 20	301 41 20	114 57 00		
		4	286 34 00	106 34 00	286 34 00	114 57 25		
		6	156 28 40	036 28 40	156 28 40	114 57 23		
						(114 57 28)		
		0			156 28 40			
		1	271 26 20	91 26 40	271 26 30	114 57 50		
		4	256 19 00	76 19 00	256 19 00	114 57 35		
		6	126 14 00	306 14 00	126 14 00	114 57 33		

counter 43238

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
Stairway Pk	Mac	0			126 14 00			sight △ River
	R Flag	1	164 58 40	344 58 40	164 58 40	38 44 40		
		4	281 11 00	101 11 20	281 11 10	38 44 18		
		6	358 39 40	178 39 40	358 39 40	38 44 17		
						(38 44 19)		
		0			358 39 40			
		1	37 24 00	217 24 00	37 24 00	38 44 20		
		4	153 37 00	333 37 00	153 37 00	38 44 20		
		6	231 05 40	51 05 40	231 05 40	38 44 20		
			XXXXXX					
		0	231 05 40	51 05 40	231 05 40	-		B.Sight Stairway Pk.
Hunc. C.	J. Flag	1	198 31 00	18 31 00	198 31 00	32 34 40		incline ∠ + 14'30" = 909.72ft
		4	100 47 00	280 47 00	100 47 00	32 34 40		dist. = 327½ varas (incline)
		6	35 36 20	215 36 40	35 36 30	32 34 52		hor dist = 880.75 ft.
				R		(32 34 59)		
					35 36 30			
			03 01 20	183 01 20	03 01 20	32 35 10		
			265 15 40	85 15 40	265 15 40	32 35 13		
			200 06 00	20 06 00	200 06 00	32 35 05		
			300 04 40	120 04 40	300 04 40	+		
"J" Flag	Hunc Corner		77 20 40	257 20 40	77 20 40	137 16 00		p.s. Stairway Peak
			129 09 20	309 09 20	129 09 20	137 16 10		
			43 41 40	223 41 40	43 41 40	137 16 10		
						(137 16 15)		
					43 41 40			
			180 58 00	00 55 00	180 58 00	137 16 20		
			232 47 20	57 47 00	232 47 10	137 16 23		
			147 19 40	327 19 40	147 19 40	137 16 20		

counter 13239

TRAVERSE

FROM _____ TO _____, 19__

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
	(abt. 2mi.)		° ′ ″	° ′ ″	° ′ ″	° ′ ″	° ′ ″	
			237 29 40	57 29 40	237 29 40	–	117 26 19	Az. Hun. Cor to stair way flag also. sight & highest vis. pt abt 18°45′
Hunc. Corner	Iron Mt.		220 51 20	40 51 20	220 51 20	16 38 20		sighted Stairway Peak &
			204 13 40	24 13 40	204 13 40	16 37 40	180 48 19	turned deflection ∡
						16 38 00	N 0 48 E	Stairway Peak flag is
								on highest point of Stairway
					204 13 40	+		Peak. (use this to check
Hunc. Corner	Ledge		205 56 40	25 56 40	205 56 40	01 43 00		field note bearing)
			207 40 00	27 40 00	207 40 00	01 43 20	19 09 29	
						01 43 10	S 19 09 W	turned direct ∡ to
								highest vert. ledge on
								Stairway Peak as ref.
					207 40 00	+		
Hunc. corner	"X" on Rock		155 22 00	335 22 00	155 22 00	52 18 00		
			103 06 00	180 283 06 00	103 06 00	52 16 00	325 09 19	"X" on Rock as given in
						52 17 00	S 34 51 E	Hunc. field notes
								turned direct ∡

Counter 43240

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	147 29 00	327 29 00	147 29 00	+		
Marv. Rv. Flag	A	1	153 48 40	333 48 40	153 48 40	06 19 40		sighted B
		4	172 49 00	352 48 40	172 48 50	06 19 58		
		6	185 28 20	05 28 20	185 28 20	06 19 53		
				R		(06 19 55)		
		0			185 28 20			
		1	191 48 20	11 48 20	191 48 20	06 20 00		
		4	210 48 20	30 48 20	210 48 20	06 20 00		
		6	223 28 00	43 28 00	223 28 00	06 19 57		
		0			223 28 00	+		
Marv. Rv. Flag	A	1	290 01 00	110 01 00	290 01 00	66 33 00		sighted River
		4	129 41 00	309 41 20	129 41 10	66 33 18		
		6	262 47 40	82 47 40	262 47 40	66 33 17		
				R		(66 33 14)		
		0			262 47 40			
		1	329 21 00	149 21 00	329 21 00	66 33 20		
		4	169 00 20	349 00 20	169 00 20	66 33 10		
		6	302 06 40	122 06 40	302 06 40	66 33 10		
		0			302 06 40	+		
Marv. Rv. Flag	A	1	77 41 40	257 41 40	77 41 40	135 35 00		sighted Stairway Peak
		4	124 26 00	304 26 20	124 26 10	135 34 53		
		6	35 36 20	215 36 20	35 36 20	135 34 57		
				R		(135 34 56)		
		0			35 36 20			
		1	171 11 00	351 11 00	171 11 00	135 34 40		
		4	217 55 40	37 55 40	217 55 40	135 34 50		
		6	129 06 00	309 05 40	129 05 50	135 34 55		

counter 73241

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0			129 05 50			
Mar. Rv. Flag	River	1	198 07 20	18 07 20	198 07 20	+		
		4	45 12 40	225 13 00	45 12 50	69 01 30		sighted Stairway Peak
		6	183 16 20	03 16 20	183 16 20	69 01 45		
						69 01 48		
				R				
		0			183 16 20	(69 01 49)		
		1	252 18 20	72 18 20	252 18 20	69 02 00		
		4	99 24 00	279 24 00	99 24 00	69 01 55		
		6	237 27 20	57 27 20	237 27 20	69 01 50		

counter 73242

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	U.S.C.&G.S.	0	08 55 00	188 55 00	08 55 00	-		
"C" Flag	Black	1	257 16 00	77 16 00	257 16 00	111 39 00		sighted N.W. corner of G-1 by Hunc.
		4	282 19 20	102 19 00	282 19 10	111 38 58		
		6	59 01 00	239 01 00	59 01 00	111 39 00		
				R		(111 39 03)		base line from G-1 to "C" flag — 1900' (horz. dist.)
		0			59 01 00			
		1	307 22 00	127 22 00	307 22 00	111 39 00		
		4	332 24 40	152 24 40	332 24 40	111 39 05		
		6	109 06 40	289 06 20	109 06 30	111 39 05		
N.W. G-1 by Hunc.	U.S.C.&G.S.	0	109 06 40	289 06 20	109 06 30	+		
	Black	1	171 06 20	351 06 20	171 06 20	61 59 50		sighted "C" flag
		4	357 04 40	177 04 40	357 04 40	61 59 33		
		6	121 03 40	301 03 40	121 03 40	61 59 32		
				R		(61 59 30)		
		0			121 03 40			
		1	183 03 00	03 03 00	183 03 00	61 59 20		
		4	09 01 40	189 01 40	09 01 40	61 59 30		
		6	133 00 40	313 00 20	133 00 30	61 59 28		
U.S.C.&G.S.		0	01 07 00	181 07 20	01 07 10	+		
Black	"C" Flag	1	07 29 40	187 30 00	07 29 50	06 22 40		sighted N.W. corner "G-1" by Hunc.
		4	26 35 40	206 35 40	26 35 40	06 22 08		
		6	39 19 00	219 19 00	39 19 00	06 21 58		
				R		(06 22 00)		
		0			39 19 00			
		1	45 41 00	225 41 20	45 41 10	06 22 10		
		4	64 47 00	244 47 00	64 47 00	06 22 00		
		6	77 31 20	257 31 20	77 31 20	06 22 03		

counter 43243

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	U.S.C.&G.S.	0	132 21 00	312 21 00	132 21 00	+		
"D" Flag	Black	1	213 23 20	33 23 20	213 23 20	81 02 20		sighted Rider's N.W. corner of G-1
		4	96 30 40	276 30 40	96 30 40	81 02 25		
		6	258 36 00	78 36 00	258 36 00	81 02 30		
				R		(81 02 31)		base line from Rider's N.W. corner G-1 to "D" Flag – 1000' (hor. dist.)
		0			258 36 00			
		1	339 38 20	159 38 40	339 38 30	81 02 30		
		4	222 46 20	42 46 00	222 46 10	81 02 32		
		6	24 51 00	204 51 20	24 51 10	81 02 32		Rider's bearings check each other. Fence corner set at given corner. 3-headed dagger gone, however, stump remains at called dist. & direction (Get true bearing from our azimuth from Black to Rider's N.W. corner of G-1)
		0			24 51 10	-		
Rider's N.W. cor. G-1	Black	1	300 21 00	120 21 00	300 21 00	84 30 10		
		4	46 51 20	226 51 00	46 51 10	84 30 00		
		6	237 51 20	57 51 00	237 51 10	84 30 00		
				R		(84 30 03)		Corner fence post 2½ ft. from stake (defl. & +39° from b.s. on Black)
		0			237 51 10			
		1	153 21 20	333 21 00	153 21 10	84 30 00		
		4	259 50 40	79 50 40	259 50 40	84 30 08		
		6	90 50 40	270 50 40	90 50 40	84 30 05		sighted "D" flag
		0			77 31 20	+		
	Rider's	1	91 59 20	271 59 20	91 59 20	14 28 00		
Black	N.W. "G-1"	4	135 23 00	315 22 40	135 22 50	14 27 53		sighted "D" flag
		6	164 18 40	344 18 20	164 18 30	14 27 32		
				R		(14 27 39)		
		0			164 18 30			
		1	178 46 20	358 46 00	178 46 10	14 27 40		
		4	222 09 40	42 09 40	222 09 40	14 27 48		
		6	251 05 00	71 05 00	251 05 00	14 27 45		

counter 43244

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
U.S.C.&G.S.	Rider's	0	236 35 20	56 35 00	236 35 10	-		
Black	N.W. "6"	1	183 46 40	03 46 40	183 46 40	52 48 30		sighted U.S.C.&G.S. Jones
		4	25 21 00	205 21 00	25 21 00	52 48 33		
		6	279 44 40	99 44 40	279 44 40	52 48 25		
				R		(52 48 16)		
		0			279 44 40			
		1	226 56 20	46 56 20	226 56 20	52 48 20		
		4	68 32 20	248 32 20	68 32 20	52 48 05		
		6	322 56 00	142 56 00	322 56 00	52 48 07		
		0			322 56 00	-		
Black	Hung. N.W. "6-1"	1	236 06 40	56 06 40	236 06 40	86 49 20		sighted Jones
		4	335 39 40	155 40 00	335 39 50	86 49 03		
		6	162 02 00	342 02 00	162 02 00	86 49 00		
				R		(86 49 04)		
		0			162 02 00			
		1	75 13 00	255 12 40	75 12 50	86 49 10		
		4	174 45 20	354 45 20	174 45 20	86 49 10		
		6	01 07 00	181 07 20	01 07 10	86 49 08		

counter 13245

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
Dodd's "B" corner	windmill		191 18 00	11 17 40	191 17 50	-		
			21 28 00	201 28 00	21 28 00	169 49 50		sighted Bullis windmill abt. 1½ mi. dist. turned direct Δ
			211 38 00	31 38 00	211 38 00	169 50 00		
						169 49 55		
					211 38 00	-		
Dodd's "B" corner	corner Post		185 00 40	05 00 40	185 00 40	26 37 20		sighted Bullis 740' (stadia dist.) to fence corner post turned direct Δ
			158 24 00	338 24 00	158 24 00	26 36 40		
						26 37 00		

counter 43246

TRAVERSE

FROM _____ To _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	U.S.C.&G.S.	0	190 08 00	10 08 00	190 08 00	-		
"E" Flag	Bullis	1	72 10 20	252 10 20	72 10 20	117 57 40		sighted Jones
		4	78 16 20	258 16 20	78 16 20	117 57 55		
		6	202 20 20	22 20 20	202 20 20	117 57 57		
				R		(117 57 54)		
		0			202 20 20			
		1	84 22 20	264 22 00	84 22 10	117 58 10		
		4	90 29 00	270 29 00	90 29 00	117 57 50		
		6	214 33 20	34 33 20	214 33 20	117 57 50		
		0			214 33 20	-		sight Bullis
"E" Flag	"F" flag	1	122 27 40	302 27 40	122 27 40	92 05 40		Stadia dist. fom "E" to
		4	206 10 20	26 10 20	206 10 20	92 05 45		"F" appx. 1000'
		6	21 58 40	201 58 40	21 58 40	92 05 47		
				R		(92 05 57)		
		0			21 58 40			
		1	289 52 20	109 52 20	289 52 20	92 06 20		
		4	13 34 20	193 34 20	13 34 20	92 06 05		
		6	189 22 00	09 22 00	189 22 00	92 06 07		
		0			189 22 00	-		
"E" flag	S.W. corner 336(Dodd)	1	172 07 40	352 07 40	172 07 40	17 14 20		
		4	120 23 40	300 23 40	120 23 40	17 14 35		
		6	85 54 40	265 54 40	85 54 40	17 14 33		
				R		(17 14 32)		sighted "F" flag
		0			85 54 40			
		1	68 40 00	248 40 00	68 40 00	17 14 40		
		4	16 56 40	196 56 40	16 56 40	17 14 30		
		6	342 27 40	162 27 40	342 27 40	17 14 30		

coventer #3247

TRAVERSE

FROM _____ To _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
S.W. corner		0	131 40 00	311 40 00	131 40 00	–		
336 (Dodd)	"F" flag	1	15 03 20	195 03 20	15 03 20	116 36 40		sighted "E" flag
		4	25 12 40	205 12 40	25 12 40	116 36 50		chained horiz. distance
								between Dodd's S.W. corner
				R		(116 36 48)		336 & "F" flag – 347.4'
		0			25 12 40			
		1	268 35 40	88 36 00	268 35 50	116 36 50		
		4	278 45 40	98 45 40	278 45 40	116 36 45		
S.W. corner	another	0			278 45 40	+		
336 (Dodd)	S.W. 336		339 40 00	159 40 00	339 40 00	60 54 20		sighted "E" flag
			40 34 20	220 34 20	40 34 20	60 54 20		chained horiz. dist.
						60 54 20		between Dodd's S.W. corner
								336 & another S.W. corner
					40 34 20	+		336 – 544.4'
"F" flag	S.W. corner 336 (Dodd)		86 43 00	266 43 00	86 43 00	46 08 40		
			132 52 00	312 52 00	132 52 00	46 09 00		sighted "E" flag
				R		(46 09 15)		
					132 52 00			
			179 01 00	359 01 00	179 01 00	46 09 00		
			225 11 00	45 11 00	225 11 00	46 09 30		

counter 43248

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	225 23 20	45 23 40	225 23 30	+		
Dodd's "B" corner	Jones	1	313 44 40	133 44 40	313 44 40	88 21 10		sighted Bullis
		4	218 48 20	38 48 20	218 48 20	88 21 13		
		6	35 30 20	215 30 40	35 30 30	88 21 10		
				R		(88 21 11)		
		0			35 30 30			
		1	123 52 00	323 51 40	123 51 50	88 21 20		
		4	28 55 00	208 55 00	28 55 00	88 21 08		
		6	205 37 40	25 37 40	205 37 40	88 21 12		
		0	293 58 40	113 58 20	293 58 30	-		
Jones	"E" flag	1	255 48 00	75 48 00	255 48 00	38 10 30		sighted Bullis
		4	141 16 40	321 16 40	141 16 40	38 10 28		
		6	64 56 00	244 56 00	64 56 00	38 10 25		
				R		(38 10 23)		
		0			64 56 00			
		1	26 45 40	206 45 40	26 45 40	38 10 20		
		4	272 14 40	92 14 40	272 14 40	38 10 20		
		6	195 54 00	15 54 00	195 54 00	38 10 20		
		0	238 22 00	58 22 20	238 22 10	-		
Jones	Dodd's "B" corner	1	202 46 40	22 46 40	202 46 40	35 35 30		sighted Bullis
		4	96 01 00	276 01 00	96 01 00	35 35 18		
		6	24 50 00	204 50 00	24 50 00	35 35 22		
				R		(35 35 20)		
		0			24 50 00			
		1	349 15 00	169 15 00	349 15 00	35 35 00		
		4	242 29 00	62 28 40	242 28 80	35 35 18		
		6	171 18 20	351 18 20	171 18 20	35 35 17		

counter 43219

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
Reagan Canyon Flag	Reagan	0	302 48 40	122 48 40	302 48 40	+		
		1	305 21 20	125 21 20	305 21 20	02 32 40		sighted Jones
		4	312 59 40	132 57 40	312 59 40	02 32 45		
		6	318 05 00	138 05 20	318 05 10	02 32 45		
				R		(02 32 44)		
		0			318 05 10			
		1	320 37 40	140 38 00	320 37 50	02 32 40		
		4	328 16 00	148 16 00	328 16 00	02 32 43		
		6	333 21 20	153 21 20	333 21 20	02 32 42		
Reagan Canyon Flag	"G" flag	0	333 21 40	153 21 40	333 21 40	+		
		1	92 13 40	272 13 20	92 13 20	118 51 40		sighted Reagan "G" flag on S. side of Reagan canyon at Y in road.
		4	88 48 40	268 48 40	88 48 40	118 51 45		
		6	326 32 00	146 32 00	326 32 00	118 51 45		
				R		(118 51 47)		
		0			326 32 00			
		1	85 24 20	265 24 20	85 24 20	118 52 20		
		4	81 59 40	262 00 00	81 59 50	118 51 58		
		6	319 42 40	139 43 00	319 42 50	118 51 48		
Reagan Canyon Flag	"H" flag	0			319 42 50	+		
		1	330 58 40	150 38 40	330 58 40	11 15 50		sighted "G" flag
		4	04 46 00	184 45 40	04 46 50	11 15 45		
		6	27 17 20	207 17 20	27 17 20	11 15 45		
				R		(11 15 48)		
		0			27 17 20			
		1	38 33 00	218 33 00	38 33 00	11 15 40		
		4	72 20 40	252 20 40	72 20 40	11 15 50		
		6	94 52 20	274 52 20	94 52 20	11 15 50		

counter 43250

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
Reagan Canyon Flag	"K" flag		94 52 40	274 52 20	94 52 30	+		
			100 05 20	280 05 20	100 05 20	05 12 50		sighted "G" flag
			105 18 00	285 18 00	105 18 00	05 12 40		"K" flag on point on N. side of Reagan Canyon near its mouth.
						05 12 45		
Reagan Canyon Flag	Bullis	0			105 18 00	+		
		1	123 57 00	303 56 40	123 57 00	18 38 50		sighted Reagan
		4	179 53 00	359 53 00	179 53 00	18 38 45		
		6	217 10 40	57 10 20	217 10 30	18 38 45		
						(18 38 44)		
		0			217 10 30			
		1	235 49 20	55 49 20	235 49 20	18 38 50		
		4	291 45 20	111 45 20	291 45 20	18 38 43		
		6	329 02 40	149 02 40	329 02 40	18 38 42		
		0	329 07 40	149 07 40	329 07 40	-		
"G" flag	"H" flag	1	204 59 40	24 59 40	204 59 40	124 08 00		sighted Reagan Canyon Flag
		4	192 36 00	12 36 00	192 36 00	124 07 55		chained horiz. dist. between flags "G" & "H" — 1065.7'
				R		(124 07 48)		
		0			192 36 00			stadia dist: 1070'
		1	68 28 20	248 28 20	68 28 20	124 07 40		
		4	56 05 20	236 05 20	56 05 20	124 07 40		
		0			56 05 20	-		
"G" flag	"K" flag	1	18 18 40	198 18 40	18 18 40	37 46 40		sighted "H" flag
		4	264 58 00	84 58 00	264 58 00	37 46 50		
				R		(37 46 53)		
		0			264 58 00			
		1	227 11 00	47 11 00	227 11 00	37 47 00		
		4	113 56 20	293 56 20	113 56 20	37 46 55		

counter #3251

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	113 24 20	293 24 20	113 24 20	+		
"H" flag	"G" flag	1	158 00 40	338 00 40	158 00 40	44 36 20		sighted Reagan Canyon Flag
		4	291 49 40	111 49 40	291 49 40	44 36 20		
						(44 36 29)		
				R				
		0			291 49 40			
		1	336 26 40	156 26 20	336 26 30	44 36 50		
		4	110 16 20	290 16 00	110 16 10	44 36 38		
		0			110 16 10	+		
"H" flag	"K" flag	1	210 13 20	30 13 20	210 13 20	99 57 00		sighted "G" flag stadia dist. between "H" & "K" flags — 970'
		4	150 04 00	330 04 00	150 04 00	99 56 58		
						(99 56 52)		
				R				
		0			150 04 00			
		1	250 00 40	70 00 40	250 00 40	99 56 40		
		4	189 51 00	09 51 00	189 51 00	99 56 45		
		0			189 51 00	+		
"K" flag	"G" flag	1	232 07 40	52 07 40	232 07 40	42 16 40		sighted "H" flag
		4	358 57 20	178 57 20	358 57 20	42 16 35		
						(42 16 30)		
				R				
		0			358 57 20			
		1	41 13 40	221 13 40	41 13 40	42 16 20		
		4	168 03 00	348 03 00	168 03 00	42 16 25		
					168 03 00	-		
"K" flag	Corner		79 43 00	259 43 00	79 43 00	88 20 00		sight "H" flag & turn direct to corner — pile of rocks with vert. flat rock in cent. at 2nd rise from bot. of creek & 75.6 ft. from "K" flag. counter 43252
			351 23 00	171 23 00	351 23 00	88 20 00		
						88 20 00		

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
					351 23 00	–		
"K" flag	corner		270 56 40	90 56 40	270 56 40	80 26 20		sighted "H" flag corner – pile of flats rocks on 1st rise from bot. of cn. & on N. side of Reagan Canyon
			190 30 00	10 29 40	190 29 50	80 26 50		
						80 26 35		turned direct & chained horiz. dist. – 348.6 ft.

counter 43253

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	Dodd's	0	114 05 20	294 05 00	114 05 10	+		
Bullis	"B" corner	1	170 08 40	350 08 40	170 08 40	56 03 30		sight Jones
		4	338 17 40	158 17 40	338 17 40	56 03 08		
		6	90 24 00	270 24 00	90 24 00	56 03 08		
				R		(56 03 10)		
		0			90 24 00	+		
		1	146 27 20	326 27 00	146 27 20	56 03 20		
		4	314 36 40	134 36 40	314 36 40	56 03 10		
		6	66 43 00	246 43 20	66 43 10	56 03 12		
		0	90 34 20	270 34 20	90 34 20	+		
Bullis	"E" Flag	1	114 26 00	294 25 40	114 25 50	23 51 30		sight Jones
		5	209 52 00	29 51 40	209 51 50	23 51 30		
		7	257 35 00	77 35 00	257 35 00	23 51 31		
				R		(23 51 26)		
		0			257 35 00			
		1	281 26 20	101 26 20	281 26 20	23 51 20		
		4	353 00 00	173 00 00	353 00 00	23 51 15		
		6	40 43 00	220 43 00	40 48 00	23 51 20		
					40 43 00	+		
Bullis	House		129 32 20	309 32 20	129 32 20	88 49 20		sight Dodd's "B" corner
			218 22 20	38 22 20	218 22 20	88 50 00		turn direct &
						88 49 40		

counter 43254

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
U.S.C.&G.S.	Reagan	0	244 34 00	64 34 00	244 34 00	+		
Reagan	Canyon Flag	1	346 18 00	166 18 00	346 18 00	101 44 00		sight Bullis
		4	291 31 20	111 31 20	291 31 20	101 44 20		
		6	135 00 20	315 00 00	135 00 10	101 44 22		
				R		(101 44 24)		
		0			135 00 10			
		1	236 44 40	56 45 00	236 44 50	101 44 40		
		4	181 58 00	01 58 00	181 58 00	101 44 28		
		6	25 26 40	205 26 40	25 26 40	101 44 25		
		0			25 26 40	—		
	Reagan	1	222 36 40	42 36 40	222 36 40	162 50 00		sight Jones
Reagan	Canyon Flag	4	94 07 00	274 07 00	94 07 00	162 49 55		
		6	128 27 40	308 27 40	128 27 40	162 49 50		
				R		(162 49 55)		
		0			128 27 40			
		1	325 37 40	145 37 40	325 37 40	162 50 00		
		4	197 07 40	17 07 40	197 07 40	162 50 00		
		6	231 27 40	51 27 40	231 27 40	168 50 00		

counter 43255

TRAVERSE

FROM Jan 24 - 1942 TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
							143 45 36	Az - B2 - B1
Fence Cor at "B" Cor	Mid Cone Tesino		353 21 40	173 21 40	353 21 40	—		B.S. Pile of rock at first taken as Dod "B" Cor. (now using point where gye wire enters ground 4'W Cor post. Riders brs check each other from here.
			316 25 00	136 25 00	316 25 00	36 56 40		
			279 28 40	99 28 40	279 28 40	36 56 20		
						36 56 30	106 49 05	
							N 73 11 W	
					279 28 40	—		
F.C. at "B"	Honey Comb Mt.		239 27 00	59 27 00	239 27 00	40 01 40		
			199 26 00	19 26 00	199 26 00	40 01 00		
						40 01 20	103 44 15	
							N 76 16 W	
1st Dod "B" Cor	2nd "B" Cor	740	26 36 40	206 36 40	26 36 40	—		sight Bullis Gap.
			00 14 40	180 14 40	00 14 40	26 22 00		
			333 52 00	153 52 00	333 52 00	26 22 40		Chained dist B1 - B2 = 740'
						26 22 20	323 45 34	4' West fence post
							S 36 14 E	
Lava	NW Cor 1-21	0	71 50 00	251 50 00	71 50 00			
		1	132 11 00	312 10 40	132 10 50	60 20 50		sight Santiago Camo turn direct &
		4	313 13 20	133 13 20	313 13 40	60 20 55		
		6	73 55 40	253 55 20	73 55 40	60 20 57		
						(60 21 02)		
		0			73 55 40			
		1	134 17 00	314 16 40	134 16 50	60 21 10		
"	"	4	315 20 00	135 20 00	315 20 00	60 21 05		
		6	76 02 20	256 02 20	76 02 20	60 21 07		

counter 43254

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	USGS		235 41 40	55 41 40	235 41 40			Sight NW 1-21 turn
Stake	BM	1293'	307 56 20	127 56 20	307 56 20	72 14 40		
			20 11 00	200 11 00	20 11 00	72 14 40		(for all practical purposes this line is in old rd but actually in and out)
						72 14 40		
USGS					20 11 00	+		Sight NW 1-21
BM	Stake		107 48 20	287 48 40	107 48 30	87 37 30		
			195 26 00	15 26 00	195 26 00	87 37 30		
						87 37 30		
					195 26 00			Wind mill just N. of NW 1-21
BM	Wind mill		203 23 20	23 23 20	203 23 20	07 57 20		Sight NW 1-21
			211 20 40	31 20 40	211 20 40	07 57 20		(for Azi only)
						07 57 20		
			08 30 20	188 30 20	08 30 20	-	316 19 12	
NW 1-21	BM		302 00 20	122 00 20	302 00 20	36 30 00		Sight Lava
			235 31 00	55 31 00	235 31 00	66 29 20	249 49 32	
						66 29 40		
					235 31 00	+		
NW 1-21	Stake		255 38 00	75 38 20	255 38 00	20 07 00		Sight B.M.
			275 45 40	95 45 40	275 45 40	20 07 20	269 56 52	
						20 07 20		
					275 45 40	-	(316 19 12)	Sight Lava
NW 1-21	Wind mill		106 01 00	286 01 00	106 01 00	169 44 40		mill some 700 ft
			296 16 20	116 16 20	296 16 20	169 44 40		
						169 44 40	146 34 32	
							N 33 25 W	

counter 43257

TRAVERSE

FROM _____ To _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	Santa	0			296 16 20			
NW1-21	ago	1	19 39 40	199 39 40	19 39 40	83 23 20		Sight Lava
		2	269 50 40	89 50 40	269 50 40	83 23 35		
		6	76 37 40	256 37 40	76 37 40	83 23 33		
						(83 23 37)	39 42 50	
		0			76 37 40		S 39 43 W)	(There are none of the
		1	160 01 20	340 01 20	160 01 20	83 23 40		other bearings left intact.)
11	11	4	50 12 00	230 12 00	50 12 00	83 23 35		
		6	216 59 40	36 59 40	216 59 40	83 23 40		
							316 19 12	
	Peculiar Shaped				216 59 40	+		
NW1-21	point		269 10 40	89 10 40	269 10 40	52 11 00		Very good point.
			321 21 40	141 21 40	321 21 40	52 11 00	08 30 12	
						52 11 00	S 08 30 W	
	Santiago				321 21 00	+		
NW1-21	S.E. Cor		44 03 20	224 03 20	44 03 20	82 41 40		This not definite point
			126 44 40	306 44 40	126 44 40	82 41 20	39 00 42	nor can one be seen
						82 41 30	S 39 01 W	on this mountain.
		0	267 12 40	87 12 20	267 12 30			
Brown	T-Flag	1	305 24 00	125 24 20	305 24 00	38 11 30		Sight Dry & turn
		4	60 00 00	240 00 00	60 00 00	38 11 52		
		6	136 24 00	316 24 00	136 24 00	38 11 55		
						(38 12 01)		
		0			136 24 00			
		1	174 36 20	354 36 20	174 36 20	38 12 20		
11	11	4	289 12 40	109 12 40	289 12 40	38 12 10		
		6	05 36 40	185 36 40	05 36 40	38 12 07		

counter 93258

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0			05 36 40			
Brown	Cone Hill	1	55 56 20	235 56 20	55 56 20	50 19 40		Sight Dry & turn
		4	206 55 20	26 55 20	206 55 20	50 19 40		
		6	307 34 40	127 34 40	307 34 40	50 19 40		
						(50 19 35)		
		0			307 34 40			
		1	357 54 00	177 54 00	357 54 00	50 19 20		
"	"	4	148 52 40	328 52 40	148 52 40	50 19 30		
		6	249 31 40	69 31 40	249 31 40	50 19 30		
		0	128 36 20	308 36 00	128 36 10			
Dry	T-Flag	1	97 35 20	277 35 20	97 35 20	31 00 50		Sight Brown
		4	04 32 40	184 32 40	04 32 40	31 00 53		
		6	302 31 00	122 31 00	302 31 00	31 00 52		
						(31 00 45)		
		0			302 31 00			
"	"	1	271 30 20	91 30 20	271 30 20	31 00 40		
		4	178 28 40	358 28 20	178 28 30	31 00 38		
		6	116 27 20	296 27 00	116 27 10	31 00 38		
			75 43 40	255 43 40	175 43 40	+		
Max Cor	Flag base		124 07 60	304 07 00	124 07 00	48 23 20		Sight Cone shaped brg Pk Chained dist Max Cor to Flag base = 1000'
			172 30 00	352 30 20	172 30 10	48 23 10		
						48 23 15		
					172 30 10	+	181 21 41	Sight Cone Pk turn direct to most prominent cone shaped Peak abt 2 mi dist
Max Cor	Peak N		207 39 00	27 39 00	207 39 00	35 08 50		
			242 47 20	62 47 20	242 47 20	35 08 20	216 30 16	
						35 08 35	N 36 30 E	

Coords #3259

33 23 45
50 19 35
83 43 20

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0			116 22 10			Sight Brown
Dry	Cone	1	83 02 20	263 03 20	83 03 20	33 23 50		
		4	302 52 40	182 52 20	302 52 20	33 23 43		
		6	276 04 40	96 04 40	276 04 40	33 23 45		
						(33 23 47)		
		0			276 04 40			
"	"	1	242 40 40	162 40 40	242 40 40	33 24 00		
		4	142 29 20	322 29 20	142 29 20	33 23 50		
		6	75 41 40	255 41 40	75 41 40	33 23 50		
								Max Cor is ½" I.P. & large rock Mkd NW 14
	Trees Mer				242 47 20		(181 21 41)	B.S. Cone Pk. turn direct
Max Cor	manos	Calcn	103 21 20	283 21 20	103 21 20	139 26 00	N 1 22 E	
			323 56 00	143 56 00	323 56 00	139 25 20		
						139 25 40	41 56 01	
							S41 56 W	
					323 56 00	—		mill in Cr 800' dist
			201 12 40	21 17 40	201 12 40	122 38 20		
Max Cor	Wind mill		78 39 00	258 39 00	78 39 00	122 38 40	58 43 11	
						122 38 30	S58 43 W	
					78 39 00	—		
Max Cor	Chim Buoy		293 20 00	113 20 00	293 20 00	145 19 00		x-Cut on large Stone dist 70 Vs.
			148 01 00	328 01 00	148 01 00	145 19 00		
						145 19 00	36 02 41	
							S36 03 W	
					148 01 00	+		
Max Cor	T Flag		157 20 40	337 20 40	157 20 40	09 19 40		Sight Cone Pk
			166 40 20	346 40 20	166 40 20	09 19 40		
						09 19 40		

counter 43260

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	Cone Pk				166 40 20			
Flagbase			225 55 00	95 55 00	225 55 00	109 14 40		Sight Max Cor turn direct
			25 09 40	205 09 40	25 09 40	109 14 40		
						109 14 40		
					25 09 40			
Cone Pk	Max Cor		42 31 00	222 31 00	42 31 00	22 21 20		Sight Flag base turn
			69 53 00	249 53 00	69 53 00	22 22 00		
						22 21 40		
		0						
					69 53 00			
Cone Pk	Max Cor	1	237 41 20	57 41 20	237 41 20	167 48 20		Sight T-Flag
		4	21 06 40	201 06 40	21 06 40	167 48 25		
		6	356 43 20	176 43 20	356 43 20	167 48 23		
						167 48 28		
		0			356 43 20			
		1	164 32 00	344 32 00	164 32 00	167 48 40		
"	"	4	307 57 20	127 57 20	307 57 20	167 48 30		
		6	283 34 40	103 34 40	283 34 40	167 48 33		
		0			283 34 40			Sight Bronco
Cone Pk	T-Flag	1	339 33 00	159 33 00	339 33 00	55 58 20		
		4	142 28 40	322 28 40	142 28 40	55 58 30		
		6	259 25 00	79 25 00	259 25 00	55 58 23		
						55 58 23		
		0			259 25 00			
		1	315 23 20	135 23 40	315 23 30	55 58 30		
"	"	4	123 19 00	303 19 00	123 19 00	55 58 34		
		6	235 15 20	55 15 20	235 15 20	55 58 23		

counter 43261

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	235 17 40	55 17 40	235 17 40			
T-Flag	Dry	1	346 04 40	166 04 40	346 04 40	110 47 00		Sight Brown
		4	318 26 00	138 26 00	318 26 00	110 47 05		
		6	180 00 40	00 00 40	180 00 40	110 47 10		
						(110 47 15)		
		0			180 00 40			
"	"	1	290 48 00	110 48 00	290 48 00	110 47 20		
		4	263 10 00	83 10 00	263 10 00	110 47 20		
		6	124 44 40	304 44 40	124 44 40	110 47 20		
		0			124 44 40			
T-Flag	Brown	1	236 38 00	56 38 00	236 38 00	111 53 20		Sight Conc PK
		4	212 18 40	32 18 40	212 18 40	111 53 30		
		6	76 05 00	256 05 00	76 05 00	111 53 23		
						(111 53 30)		
		0			76 05 00			
"	"	1	187 58 40	07 58 40	187 58 40	111 53 40		
		4	163 39 00	343 39 00	163 39 00	111 53 30		
		6	27 26 40	207 26 40	27 26 40	111 53 37		
		0			27 26 40			
T-Flag	Conc PK	1	30 17 40	210 17 40	30 17 40	02 51 00		Sight Max Cor.
		4	38 52 00	218 52 00	38 52 00	02 51 20		
		6	44 34 40	224 34 40	44 34 40	02 51 20		
						(02 51 25)		
		0			44 34 40			
"	"	1	47 26 20	227 26 20	47 26 20	02 51 40		
		4	56 00 20	236 00 20	56 00 20	02 51 25		
		6	61 43 40	241 43 40	61 43 41	02 51 30		

counter 43262

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	239 19 40	59 19 40	239 19 40			(Post Stake is 20⁶ from fence post due S.
Post	△ Hoddy	1	294 29 00	114 29 00	294 29 00	55 09 20		sight △ Carson turn
		4	99 56 00	279 56 00	99 56 00	55 09 05		
		6	210 14 20	30 14 20	210 14 20	55 09 07		
						(55 09 05)		
		0			210 14 20			
11	11	1	265 23 20	85 23 20	265 23 20	55 09 00		
		4	70 50 20	250 50 20	70 50 20	55 09 00		
		6	181 08 40	01 08 40	181 08 40	55 09 03		
					181 08 40	-		sight Carson turn direct
Post	1	1437.8	162 50 00	342 50 00	162 50 00	18 18 40	(205 06 32)	(chain 1437.8)
			144 31 20	324 31 20	144 31 20	18 18 40		regular traverse
						18 18 40	186 47 52	
		0	120 36 20	300 36 00	120 36 10			
Carson	Post	1	25 08 20	205 08 20	25 08 20	95 27 50		sight Az mk turn
		4	98 45 00	278 45 00	98 45 00	95 27 48		
		6	267 49 20	87 49 20	267 49 20	95 27 48		
						(95 27 45)	actual angle [Δ 2 35 13]	add 10" to Δ because of rod off line
		0			267 49 20			
		1	172 21 40	352 21 40	172 21 40	95 27 40		
11	11	4	245 58 40	65 58 40	245 58 40	95 27 40		
		6	55 03 00	235 03 00	55 03 00	95 27 43		

counter 43263

TRAVERSE

FROM _____ To _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	80 20 20	260 20 00	80 20 10			Sight Post turn
Hoddy	Carton	1	162 35 40	342 35 20	162 35 30	82 15 20	186 [illegible]	
		4	49 21 20	229 21 20	49 21 20	82 15 18		
		6	213 51 40	33 51 40	213 51 40	82 15 15		
						182 15 191		
		0			213 51 40			
		1	296 07 20	116 07 20	296 07 20	82 15 40		
"	"	4	182 53 20	02 53 20	182 53 20	82 15 20		
		6	347 24 00	167 24 00	347 24 00	82 15 23		
			347 29 40	167 29 40	347 29 40	-	186 47 57	
1	2	2028²	286 29 40	106 29 40	286 29 40	61 00 00		Chained 2028²
			225 29 00	45 29 00	225 29 00	61 00 40		add 80' along same line
						61 00 20	125 47 32	and be abt over what
			13 21 20	193 21 40	13 21 30	+		appears to be old spring
Post	SW Cor 335	800'	72 10 40	252 10 40	72 10 40	58 49 10/50		hub 2' from fence & post
			131 00 20	311 00 20	131 00 20	58 49 40/50		in line with scrub cedar
						58 49 25		
					131 00 20	+		Chained 800' base line
Post	base 2	Az.	262 27 00	82 26 40	262 26 50	131 26 30		to cut in SW cor's. 335
			33 53 00	213 53 00	33 53 00	131 26 10		1st Cor 335 - cap rock very
						131 26 20		old mks (SW 335) 5'E. of N-S fence
					33 53 00	+		Sight base Range turn dir. 4
base 2	Post		145 07 40	325 07 40	145 07 40	111 14 40		Sight Hoddy turn
			256 22 40	76 22 40	256 22 40	111 15 00		
						111 14 50		Sight SW 335 -

counter 43264

TRAVERSE

FROM _____ To _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
			256 23 00	76 23 00	256 23 00	+		
SW 335	back R		266 18 00	86 18 00	266 18 00	09 55 00		Sight Post.
			276 13 40	96 13 40	276 13 40	09 55 40		
						09 55 20		
					276 13 40	+		2nd Stone md Cap rock mkd SW Cor 335
1st SW 335	SW 335 2nd	101.8	276 54 20	96 54 20	276 54 20	00 40 40	(270 31 10)	Var 10° 30' E 7/28/27
			277 35 00	97 35 00	277 35 00	00 40 40		Sight Post turn direct 4
						00 40 40	271 11 50	
K			95 24 20	275 24 20	95 24 20	-	(303 15 30)	Sight - 1 or G
1	2	200'	29 26 20	209 26 20	29 26 20	65 58 00		Use defl 45
			323 29 20	143 29 00	323 29 10	65 57 10		1- flag near old Beag can
						65 57 35	237 17 55	2- highest stone md K
								3- 1st Sta
					323 29 10	+		
3	4	245'	330 53 00	150 53 00	330 53 00	07 23 50		
			338 16 20	158 16 20	338 16 20	07 23 20		
						07 23 35	244 41 30	
					338 16 20	-		
4	5	78.5'	268 03 40	88 03 40	268 03 40	70 12 40		5- 4x4 conc post mkd
			197 52 40	17 52 20	197 52 30	70 11 10		SW Cor 1 El. M 2
						70 11 55	174 29 35	

counter #3265

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
	NAW Reagan	0	64 37 00	244 37 20	64 37 10			Sight Reagan & turn direct &
Bullis	Flag	1	48 55 40	228 55 40	48 55 45	15 41 30		
		4	01 51 40	181 51 40	01 51 40	15 41 22		
		6	330 29 20	150 29 20	330 29 20	15 41 18		
						(15 41 13)		
		0			330 29 20			
"	"	1	314 48 40	134 48 40	314 48 40	15 40 40		
		4	267 45 00	87 45 00	267 45 00	15 41 05		
		6	236 22 40	56 22 40	236 22 40	15 41 07		
		0			236 22 40			
Bullis	NW Cor 17	1	180 25 00	00 25 00	180 25 00	55 57 40		
		4	12 31 00	192 31 00	12 31 00	55 57 55		
						(55 58 02)		
		0			12 31 00			
"	"	1	316 32 40	136 32 40	316 32 40	55 58 20		
		4	148 38 20	328 38 20	148 38 20	55 58 10		
		0			148 38 20			Sight base flag turn NW Cor 17 B1 M2 = 4x4 Conc post
Bullis	NW Cor 17	1	158 20 20	338 20 20	158 20 20	09 42 00		
		4	187 25 40	07 25 40	187 25 40	09 41 50		
						(09 41 47)		
		0			187 25 40			
"	"	1	197 07 20	17 07 20	197 07 20	09 41 40		
		4	226 12 40	46 12 40	226 12 40	09 41 45		

(see pg 38)

counter #3266

TRAVERSE

FROM Nichols Δ San Francisco Cr. Corner TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ' "	VERNIER B ° ' "	MEAN ° ' "	DEFLECTION ANGLE ° ' "	AZIMUTH ° ' "	REMARKS
		0	61 04 00	241 04 00	61 04 00	+		sight Nichols turn direct & for all shots from "A"
A	B	1	66 10 20	246 10 46	66 10 30	05 06 30		
		4	81 30 00	261 30 00	81 30 00	05 06 30		
						(05 06 35)		
		0			81 30 00			
"	"	1	86 37 00	266 37 00	86 37 00	05 07 00		
		4	101 56 40	281 56 40	101 56 40	05 06 40		(Center of rock used)
	S.F. Cr.				101 56 40	-	(204 32 30)	sight Nichols & direct & (for direction across Canyon)
A	Corner		312 34 40	132 34 40	312 34 40	149 22 00		
			163 13 20	343 13 20	163 13 20	149 21 20		
						149 21 40	55 10 50	
					163 13 20	-		A - transit sta across Canyon from S.F. Cor
A	Fence Cor	218.2	102 34 40	282 34 40	102 34 40	60 38 40		
			41 55 40	221 55 40	41 55 40	60 39 00		Nichols → B - chained base L. = 4+105.6 = 1305.5 ft
						60 38 50	143 53 40	
		0			41 55 40	+		
A	B	1	51 29 40	231 29 40	51 29 40	09 34 00		
		4	80 11 40	260 11 40	80 11 40	09 34 00		
						(09 33 55)		
		0			80 11 40			
"	"	1	89 45 20	269 45 20	89 45 20	09 35 40		
		4	118 27 20	298 27 20	118 27 20	09 33 50		
					118 27 20	+		1 - small pik rock on high pt of hill not mkd.
A	1	76.3	231 25 40	51 25 40	231 25 40	112 58 20		
			344 24 00	164 24 00	344 24 00	112 58 20		
						112 58 20	317 30 50	

counter 43267

TRAVERSE

FROM _____ To _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
					341 24 00	-	204 32 30	
A	2	101.5	222 37 00	42 36 40	222 36 50	121 47 10		2- small pile rock not mkd
			100 50 00	280 50 00	100 50 00	121 46 50		but in direct prolongation
						121 47 00	82 45 30	with N-S fence
		0	24 32 40	204 32 40	24 32 40	-		
Nichols	A	1	258 51 20	78 51 00	258 51 10	125 41 30		sight Az mk turn direct &
		4	241 47 00	61 47 00	241 47 00	125 41 25		
						(125 41 25)		
		0			241 47 00			
11	11	1	116 06 00	296 06 00	116 06 00	125 41 00		
		4	99 02 20	279 02 20	99 02 20	125 41 25		
		0			99 02 20	+		sight B.
Nichols	A	1	149 ~~33~~ 40	329 33 40	149 33 40	50 31 20		
		4	301 07 00	121 07 00	301 07 00	50 31 10		
						(50 31 10)		
		0			301 07 00			
11	11	1	351 38 20	171 38 20	351 38 20	50 31 20		
		4	143 11 40	323 11 40	143 11 40	50 31 10		
		0			143 11 40	+		sight A
B	Nichol	1	263 06 00	83 06 00	263 06 00	119 54 20		
		4	262 50 40	82 50 40	262 50 40	119 54 45		
						119 54 44		
		0			262 50 40			
11	11	1	22 45 20	202 45 20	22 45 20	119 54 40		
		4	22 29 40	202 29 20	22 29 30	119 54 42		

counter 43268

TRAVERSE

FROM _____ TO _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
		0	86 49 20	266 49 40	86 49 30	+		sight base line flag "C" turn direct +
S.E. Cr. Cor	A	1	188 21 40	08 21 40	188 21 40	101 32 10		
		4	132 59 00	312 58 40	132 58 50	101 32 20		base line is S.E. Cr. Cor - C = 349.8 stadia = 350
						(101 32 15)		
		0			132 58 50			
"	"	1	232 31 00	52 31 00	232 31 00	101 32 10		Point of upright arrow in vert. rock used for point.
		4	129 07 40	359 07 40	129 07 40	101 32 10		
					129 07 40	-	(235 10 40)	sight A across canyon turn direct +
S.E. Cr Cor	fence Cor	1	172 15 40	352 15 40	172 15 40	06 52 00		
			165 23 40	345 23 40	165 23 40	06 52 00		
						06 52 00	228 18 40	
							N 48 19 E	
					165 23 40	-		
"	2		163 50 40	343 50 40	163 50 40	01 33 00		
			162 17 00	342 17 00	162 17 00	01 33 00		
						01 33 20	233 37 20	
							N 53 37 E	
					162 17 40	+		
"	1		164 38 40	344 39 40	164 39 40	02 22 40		
			167 01 40	347 01 40	167 01 40	02 22 00		
						02 22 20	237 33 00	
							N 57 33 E	
		27						
					167 01 40	+		sight A across canyon turn defl +
"	Christel A	75	179 25 00	359 25 00	179 25 00	12 23 20	55 10 50	
			191 48 00	11 48 00	191 48 00	12 23 00		
						12 23 10	67 33 00	
							567 33 W	
					179 25 00	+		
"	Christel T	56	287 00 20	107 00 20	287 00 20	107 35 20		
		156	34 35 40	214 35 40	34 35 40	107 35 20		
						107 35 20	162 46 10	
							N 17 14 W	

counter 43269

TRAVERSE

FROM _____ To _____, 19____

LINE: STATION OCCUPIED	LINE: FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN	DEFLECTION ANGLE	AZIMUTH	REMARKS
			° ' "	° ' "	° ' "	° ' "	° ' "	
	SF Ck	0	34 35 40	214 35 40	34 35 40			sight A across canyon
C	Cor	1	102 44 40	282 45 00	102 44 50	68 09 10		turn direct &
		4	307 13 00	127 13 00	307 13 00	68 09 20		
						(69 09 18)		
		0			307 13 00			
"	"	1	15 22 40	195 22 40	15 22 40	68 09 40		
		4	219 50 00	39 50 00	219 50 00	68 09 15		
								base line = 2378 & ft
base flag	Bullis	0	226 13 00	46 13 00	226 13 00			sight NW Cor 17 turn
		1	02 05 40	182 05 40	02 05 40	135 52 40		
		4	49 45 20	229 45 20	49 45 20	135 53 05		
						(135 53 12)		
		0			49 45 20			
"	"	1	185 38 40	05 38 40	185 38 40	135 53 20		
		4	233 18 40	53 18 40	233 18 40	135 53 20		
			233 18 40	53 18 40	233 18 40			
NW Cor 17	base		267 44 20	87 44 00	267 44 30	34 25 50		
			11 01 00	191 01 00	11 01 00	34 25 35		
						(34 25 30)		
					11 01 00			
"	"	2378.8	45 26 00	225 26 20	45 26 10	34 25 10		
			148 42 40	328 42 40	148 42 40	34 25 25		

counter # 3270

TRAVERSE

FROM _____ TO _____ Sept 15, 1942

LINE STATION OCCUPIED	LINE FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A ° ′ ″	VERNIER B ° ′ ″	MEAN ° ′ ″	DEFLECTION ANGLE ° ′ ″	AZIMUTH ° ′ ″	REMARKS
		435.8	17 26 20	197 26 20	17 26 20	+	(17 26 19)	Occupy Hun. Rk and sight Stairway Flag turn direct
Hun.	Simpson		100 03 00	280 03 00	100 03 00	82 36 40		
Cor	end 5470		182 41 00	02 41 00	182 41 00	82 38 00		
						82 37 20	100 03 39	
					182 41 00	+		
			200 03 20	20 03 20	200 03 20	17 22 20		sight Hun C. defl
5470	Reverse S. line		217 33 20	37 33 20	217 33 20	17 20 00		in reverse to Simpson
						17 21 10	117 24 49	
							297 24 49	S62 35E [S61 00E Gano
					217 33 20	+		
5470	forward-1		227 03 20	47 03 20	227 03 20	09 30 00		Sight back 5470 defl
			236 33 00	56 33 00	236 33 00	09 29 40		
						09 29 50	306 54 39	S53 05E [S51 ½E Gano
			(775½) = 1550 (−13½) 1507 ² comp dist hor.					
				59 40 40	239 40 40	−		
forward-1	Fagan		205 21 00	25 21 00	205 21 00	34 19 40		all to below defl
			171 02 00	351 02 00	171 02 00	34 19 00		
						34 19 20	272 35 19	at possible Corner
								S87 25E from 2nd ⊼ sta
			171 30 00	351 30 00	171 30 00	−		of Simpson
forward 2	Car Dan		156 08 00	336 08 00	156 08 00	15 22 00		
			140 46 00	320 46 00	140 46 00	15 22 00		
						15 22 00	291 32 39	S68 27 E
				31 49 40	211 49 40	+		
Car Dan	Simp Cor		305 03 00	125 03 00	305 03 00	93 13 20		
	Lathe		38 17 40	218 17 40	38 17 40	93 14 40	38 4	
						93 14 00	24 46 39	S24 47W

counter 43271

B.S. Dons Car pt set
A to read 24 46 40 dett & read

TRAVERSE

FROM Occupy Simpsons Corner TO

LINE STATION OCCUPIED	FORWARD STATION SIGHTED	DISTANCE (FEET)	VERNIER A	VERNIER B	MEAN
			° ' " true Azimuth	° ' "	° ' "
Tit	W. end I mt.		174 35 00	brs.	N 05 25 W
Appx high pt I mt			175 09 00		N 04 51 W
Sheer face just below slant drop on E side I mt			176 25 00		N 03 35 W
2nd sheer face			176 33 00		N 03 27 W
center 10 ft Cone pk E. I mt			178 31 00		N 01 29 W
Rk md Cupola mt to E of ℄			214 37 00		N 34 37 E
℄ highest pt irregular mt in Mexico.			303 17 00		S 56 43 E
1st. pk visable above Stair way steps to S-W ℄ high pt			03 00 00		S 03 00 W
Appx & indef high pt (2nd S-W of Stair way Steps & twin daggers			17 26 00		S 17 26 W

counter 73272

Brewster Co. Rld. Sk. #126

TABLE FOR INTERCONVERSION OF FEET AND DECIMALS OF A MILE

FEET	MILES	FEET	MILES	FEET	MILES	FEET	MILES
53	.01	1373	.26	2693	.51	4013	.76
106	.02	1426	.27	2746	.52	4066	.77
158	.03	1478	.28	2798	.53	4118	.78
211	.04	1531	.29	2851	.54	4171	.79
264	.05	1584	.30	2904	.55	4224	.80
317	.06	1637	.31	2957	.56	4277	.81
370	.07	1690	.32	3010	.57	4330	.82
422	.08	1742	.33	3062	.58	4382	.83
475	.09	1795	.34	3115	.59	4435	.84
528	.10	1848	.35	3168	.60	4488	.85
581	.11	1901	.36	3221	.61	4541	.86
634	.12	1954	.37	3274	.62	4594	.87
686	.13	2006	.38	3326	.63	4646	.88
739	.14	2059	.39	3379	.64	4699	.89
792	.15	2112	.40	3432	.65	4752	.90
845	.16	2165	.41	3485	.66	4805	.91
898	.17	2218	.42	3538	.67	4858	.92
950	.18	2270	.43	3590	.68	4910	.93
1003	.19	2323	.44	3643	.69	4963	.94
1056	.20	2376	.45	3696	.70	5016	.95
1109	.21	2429	.46	3749	.71	5069	.96
1162	.22	2482	.47	3802	.72	5122	.97
1214	.23	2534	.48	3854	.73	5174	.98
1267	.24	2587	.49	3907	.74	5227	.99
1320	.25	2640	.50	3960	.75	5280	1.00

counter 43273

360
99
459 56 00
239 19 40
220 36 20
55 09 05

569 54 40
239
330
55 09 07
220 36 00
55 09 00
330 54 20
55 09 03

181
360
541
210

A
195 22 40

Star 114 57 00
80 25 40
time 6 28 PM
50

12.5 538 BM
4
50 0

U.C. 505.4 PM
538.0
32.6 hr 4

AZ star 179 48 00
80 25 40
~~299 22 20~~
260° 13' 40"
55 09 05
205 04 35

Pole to Hoddy =

205 04 35
180
385
25 04 35

120 36 45
342 33 47

counter 43274

Report of a survey of the Rio Grande from mouth of Grand Cannon to U.S. Geo. B.M. 2053, Brewster, Co. Texas. Made for the State of Texas in March, 1910.

Object of Survey

To determine the actual location on the ground of the Rio Grande between the mouth of the Grand Cannon and B.M. 2053, Brewster, Co., Tex. and its connection with and position relative to blocks 17 G.H.& S.A.Ry.Co. G 4 and the S.W. corner of the H. Reams survey.

Field Notes

The field notes of blocks G 4 and 17 were obtained from R.S. Dod's resurvey notes of these blocks which are now on file in the Gen. Land Office.

The field notes of Block 16, G.H.& S.A.Ry.Co. were obtained from the county record of Dennis Corwins resurvey in 1888.

The field notes of the H. Reams survey were obtained from a certified copy of the original field notes issued by the Gen. Land Office.

The Rio Grande is the South boundary of block 16 and for some time it has been the opinion of surveyors working in this district that the position of the river as shown on the county Map was too far south and that the irregular surveys located between the South line of G 4 and the North line of 16 were actually located on top of block 16. This I find to be true with a few exceptions as shown on sketch attached hereto and being a part of this report.

The N.E. corner of Sec. 1 in 16 and the S.E. corner of Block 17 is on the ground and has been identified and accepted by a number of surveyors among them Mr. R.S. Dod, State Surveyor, in his resurvey of block 17.

The H. Reams S.W. corner calls for a rock mound from which a Cottonwood brs. S 3 W 5400 vars. and a willow S 2 W, 5400 vars. on the bank of the Rio Grande. I was unable to positively identify the bearing trees but did find the rock mound which is unquestionably the S.W. corner of the Reams and was so accepted by a number of surveyors as a starting point in locating the line of Sec. 33 in block G 3 at the time of the litigation over the quicksilver claims on that section.

3

counter 73275

The river corners of block 16 have nearly all been destroyed, either by Mexican wood cutters or by changes in the river channel however I found three or four that could be identified and these I connected with on my run down the river.

Variation

The magnetic variation used for this survey is 11°00' E. I established true meridians at four different points along the river and find the true variation to be 10°26' E, showing my meridian to be N 34' W of the true true meridian. The lines of G 4 and 17 are run on a variation of 11 35 E or 1°08' West of a true meridian.

Instrument and Method of Measurment

An engineers transit with stadia wires, vertical circle and solar attachment was used on this survey and all measurments are taken with stadia and reduced to horizontal.

The method of measurment was the special form of stadia measurment designed by Mr. R.S. Dod and is fully described by him in his report of resurvey of G 4. With the method employed by Mr. Dod, each measurment is read twice, once on the front rod and once on the back rod. This is equivalent to running the line twice as the rods are of different design and held in different positions relative to the line of sight.

History of the Survey

The bed of the Rio Grande is indefinite for a distance of fifty to one hundred and fifty vars. and in one place has changed nearly a half mile in the last few years. On account of the brush the meanders were taken practically along the waters edge or the first bank of the river.

I began the survey at U.S. Geo. B.M.2146 set in the rock at the East end of the Grand Cannon, connecting it with the N.E. cor Sec. 1 block 16 and S.E. corner block 17 G.H.& S.A. Ry. Co..I then ran from the B.M. South East following the meanders of the river to B.M. 2053 tying the meander line to B.M. 2124, 2134, and 2087 as I came down the river. I also found and connected with Corwins S.E. Cor. 21, S.E. Cor. 23, and S.E. Cor. 31 block 16 also a corner made by Mr. Moss, County Surveyor, at the mouth of Blue Creek for the S.W. Cor. sec. 12 in block 16.

counter 13276

From B.M. 2053 I ran a line to the S.W. corner of the H. Reams surv. and then East to the S.E. corner of the Reams which corner is 306 vars. North of the S.W. corner of Sec. 27 in block G 3 which I identified on the ground from its bearings.

I now began at B.M. 2053 and ran to 2087, from 2087 to 2134, from 2134 to 2124 and from 2124 to the N.E. corner of Sec. 1, Block 16. This gave me a closing line and also a measurment from the Grand Cannon to B.M. 2053 free from the numerous short courses necessary in meandering the river.

You will note that I have shown on the sketch in colored ink the position of the river as shown on the county map also the river as plotted from field notes of block 16. This shows an excess E-W in 16 which is probably, partly, due to an ommission of a meander course in section 21 as I found the S.E. corner of 21 on the ground and you can see the river varies very little until it reaches section 21.

I have plotted block 16 as best I could from its field notes and corners found by me and while it may not be absolutely correct it shows very closely the relatien between the blocks.

All courses and distances are shown in field notes and sketch attached to and made a part of this report.

The sketch is drawn on a rather large scale on account of short courses in the meanders, this I trust will be satisfactory.

Harold Marsh
State Surveyor

Counter 73277

Field notes of the meanders of the Rio Grande from the mouth of the Grand Cannon to U.S. Geo. B.M. 2053, Brewster County, Tex. Made for the State of Texas, March , 1910. Variation 11 00 E.

Beginning at U.S. Geo. B.M. 2146, a point on the bank of the Rio Grande at the lower end of the Grand Cannon, Brewster County, Tex. from which a rock mound, the N.E. corner of Sec. 1 , Block 16 and the S.E. corner of Block 17, G.H.& S.A. Ry. brs. North 1513.8 vars. and East 1276.6 . Thence down the river with its meanders as follows:

S 75° 30' E 4.0, S 82° 15' E 190.0, S 35° 15' E 232.5, S 40° 15' E 199, S 43° 15' E 267, S 43° 45' E 134, S 50° 30' E 101.0, S 57° 15' E 89, S 62° 15' E 115, S 81° 45' E 270, S 20° 45' E 240, S 29° 45' E 296, S 47° 15' E 955, S 88° 45' E 610, N 83° 45' E 484, N 82° 15' E 153, N 81° 15' E 49, N 77° 30' E 69, N 71° E 409, N 49° 15E 358, N 62° 45' E 248, N 83° 45' E 339, N 85° 45' E 705, East 243.8, N 69° 30' E 151, N 48° 45' E 80, N 30° 45 E 205, N 48° 45' E 242, N 83° 15' E 209, S 62° 45' E 362, S 50° 15' E 435, S 19° 15' E 281, S 24° 15' W 194, S 2° 15' E 670.5, S 16° 15' E 189, S 41° 15' E 363, S 82° 45' E 93.5, N 68° 45' E 274, N 66° 45' E 607, S 39° 15' E 176, S 32° 15' E 187, S 58° 45' E 266, S 63° 15' E 328, S 66° E 603 vars. to a stake from which a rock mound on the West bank of Blue Creek, made by Mr. Moss, County surveyor and marked S.W. 12 brs N 8° 18' E 170 vars.

Thence S 66° E 185, S 37° 45' E 574, S 21° 15' E 533, S 12° 15' E 243, S 8° E 721, S 12° 45' E 218, S 41° 15' E 516, N 57° 15' E 479.5, N 83° 45' E 270, S 68° 15' E 322, S 29° 15' E 262, S 2° 30' E 224, S 42° 30' E 256 to a stake on bank of river from which B.M. 2124 brs. North 1368.6 and West 6.6 vars.

Thence S 42° 30' E 250, S 72° 30' E 426, S 60° E 350, S 38° E 518, S 38° 15' E 251, S 33° 30' E 1077, S 28° E 560, to a stake on the river bank from which B.M. 2134 brs North 122.9 and East 1074.6 vars.

Thence S 31° E 186, S 31° 15' E 347, S 41° E 94, S 71° E 295, S 35° E 804, S 65° 15' E 379, S 71° 30' E 528, S 17° E 315, S 9° 20' E 253 vars. to a stake from which a rock mound, the S.E. corner of section 21 brs. N 74° 50' W 15 vars from which rock mound (on a rocky bank) Red Top Mountain (Castellan) brs N 21° 15' W and Emory brs N 41° 20' E. Thence S 9° 45' W 848, S 17° W 470, S 9° 15' E 330, S 18° E 292, S 31° 45' E 101, S 52° E 219, S 83½ E 351 N 89° 15' E 44, N 79° E 416, North 765.1, S 87° 30' E 107, N 88° 30' E 173, N 80° 30' E 158 to a stake

counter 43278

on the river bank from which a rock mound ~~xxx~~ on hill brs N 53° 56' E 181vars. from which rock mound S.E. cor sec· 23 brs S 10 W 40 vars. Thence N 88° 45' E 834, South 229, S 2° 45' E 762, S 41° E 461.5, South 45, S 47° E 407, S 69° E 556, S 66° 30' E 760, S 21° 15' W 86, S 10° 30' E 1538, to a stake from which B.M.2087 brs. North 762.6 and East 631.2 vars.

Thence S 55° 30' E 402.5, S 88° E 550, S 64° 30' E 510, S 60° E 814, S 89° 30' E 345, N 84° E 224, S 89° E 549, S 4° W 84.5 to a stake from which a rock mound on brow of rocky ~~hill~~ Bluff Bank brs S 78° 20' E 30 vars. from which mound Upper point of long rock forming island in river brs S 13° 30' W and monument on Red Top (Castellan) mountain brs N 37° W. Thence S 11° 30' E 373, S 15° 30' E 223, S 45° 30' E 428, N 71° 30' E 543, N 54° 45' E 568, S 66° E 412, S 24° 45' E 408, S 1° 30' E 725, S 48° E 330, S 89° 30' E 603, S 76° E 547, S 80° 30' E 203, S 71° 30' E 528, S 46° E 835, N 61° 45' E 135, N 59° 45' E 350, N 48° E 344, N 46° 45' E 249, N 36° 30' E 878, N 5° E 1823, N 41° 30' E 152.5, N 19° E 279, N 52° 30' E 568, N 85° E 199.5 to stake on river bank.

Thence N 85° E 196, N 81° E 204, N 89° E 182, N 72° 15' E 84 to B.M. 2053 near a Jacal known as the Reed Camp.

Thence N 1° 48' E 5437.1 varas to the SW corner of the H· Reams survey, a large rock mound in the foot hills of the Chisos Mt. near Mabry Spring.

Thence East (with 11 35 variation) 3715 vars, Thence North 71.9 var. to the S.E. corner of the H, Reams surv. a rock mound from which the S.W. corner of section 27 block G 3 brs. S 306 varas. This corner is on the ground and was identified by its bearings.

I do hereby certify that the foregoing described survey is correct and that it was made by me in the field in accordance with law, and that the limits, boundaries and corners, with the marks, natural and artificial are truly and correctly described in the foregoing plat and field notes.

Harold Marsh
State Surveyor.

counter 13279

Alpine, Tex. April, 8, 1910.

4294

Hon. J.T. Robison,

Comr. Gen. Land Office,

Austin, Tex.

Dear Sir:

I am sending you today field notes and sketch of the meanders of the Rio Grande from The Grand Cannon to Reed Camp, Brewster County, Tex., which I trust you will find satisfactory.

Yours truly,

Harold Marsh

State Surv.

RECEIVED

APR 11 1910

Referred to Map

3

counter 13280

MISCELLANEOUS 2

HAROLD MARSH
REPORT
BREWSTER COUNTY

NO. A

See Brewster Co. R.S. A
Counter # 8925

counter 43281

MISCELLANEOUS 2

R.S. HUNNICUTT REPORT
BREWSTER COUNTY

NO. 21

Counter 43282

General Land Office.

State of Texas.

Austin.

J. T. ROBISON, COMMISSIONER
~~J. H. WALKER, CHIEF CLERK~~
J. M. MELSON, CHIEF CLERK

April 1, 1914.

See Judgment in F. 115859 & F. 121982

Mr. Harry L. Monroe,
209 International Life Bldg.,
St. Louis, Mo.
Dear Sir:

I have yours of the 27th ultimo with reference to lands in Brewster County. I note the advice which has been given you by the Tax Collector of Brewster County with reference to the reduction of the acreage on the T. & St. L. surveys in that county. Permit me to suggest to you that the matter of the correct survey of sections in the T. & St. L. blocks is now being investigated by this department, and as soon as the matter is completed we will then be in a position to advise you more fully in the premises. It is possible that the reduction on some of the surveys in those blocks heretofore made was erroneous. However, I cannot finally say until the matter has been completed. If you can call our attention to the matter again in the next month or two we can give you something more definite.

Very truly yours,

Acting Commissioner.

Hutch/hm

JT

counter 43283

81 1/2 E. 1400 vs. to a point in a small valley of Bee Cave Creek, just above where said creek enters a very rough canyon and goes in a Northeasterly direction; Thence S. 57 1/2 E. passing through a low gap and entering the valley of a small creek, 720 vs. to a ravin Thence up said ravine S. 84 E. 220 vs. to the foot of the Maravillis range of mountains;

Thence N. 54 1/2 E. along the foot of the mountains 380 vs. to a canyon; Thence up said canyon N. 76 E. 760 vs. to the top of the

JT'

counter 43284

Block 231, T. &. St. L. R. R. Co.

Brewster County, Texas, February 22, 1908.

See copy of Judgment in F. 121982 & F. 115859 filed 11/27/26 - Clark -

Hon. John J. Terrell,

Com. Gen'l Land Office,

Austin, Texas.

Dear Sir:--

I have complied with your instructions of February 8th. which were for me to make a thorough investigation of the rock mound found by me for the S. W. corner of Block G 1, D. & W. R. R. Co. and its surroundings, and to connect the same, if possible, with some identified corner in Block 231, T. & St. L. R. R. Co.

I went to the Rock mound for the S. W. cor. of Block G 1. and ascertained the exact course and distance from said corner to the top of Stairway peak, which is S. 19 1/2 W. 1230 vs. the distance called for in field notes being 950 vs.

The top of Iron Mountain bears N. 1 1/2 E. and looks to be about two miles, though it is not less than three miles. From this rock monument I followed the meanderings of General Gano, the original surveyor, as follows:

North 1900 vs. found a pile of rocks;

Thence S. 74 1/2 E. 2940 vs. to the West side of "Black Gap": Thence N. 62 3/4 E. at 1060 vs. passed through the East side of "Black Gap" and at 1560 vs. to a point in the valley of Bee Cave Creek; (N. 52 W. 1500 vs.) Thence N. 85 E. down the creek to a tall rock bluff, (the South bank of the creek) where the creek makes an abrupt turn to the left; Thence N. 49 3/4 E. 1000 vs; Thence N. 81 1/2 E. 1400 vs. to a point in a small valley of Bee Cave Creek, just above where said creek enters a very rough canyon and goes in a Northeasterly direction; Thence S. 57 1/2 E. passing through a low gap and entering the valley of a small creek, 720 vs. to a ravin Thence up said ravine S. 84 E. 220 vs. to the foot of the Maravillis range of mountains;

Thence N. 54 1/2 E. along the foot of the mountains 380 vs. to a canyon; Thence up said canyon N. 76 E. 760 vs. to the top of the

JT!

counter 13284

mountain.

I did not follow the meanderings any further. The next call is S. 72 3/4 E. 2850 vs. which could not be followed from this place, though there is a canyon that leads off from this place East about 1 1/2 miles to Maravillis Creek, that the surveyor could and must have followed.

I did not meander the Maravillis Creek, but from where the last canyon above mentioned enters it down, I checked the different courses and found them to be close enough to convince me that General Gano followed the creek with his meanderings.

The Maravillis Creek has a channel about 300 feet wide and winds down through a valley from 1200 feet to 2500 feet wide, the sides bounded with rough, steep mountain cliffs. About 700 vs. above the mouth it passes through a gorge about 150 feet wide with rock bluff banks, and then takes a straight shoot S. 86 E. to the Rio Grandi.

The mouth of the creek has never been any further North than it is now, though a new bank and young and old timbers on the South side indicates a change of about 100 feet to the North within the last twenty years.

The 4th. course and distance in the meanderings (N. 52 W. 1500 vs.) cannot be used in connection with the other calls; it turns back on the side of Iron Mountain and the other lines from there would pass through country too rough to chain. It would have been possible for the surveyor to have gone S. 52 E., but that would have passed through a very rough country also.

I think in copying from his field book the surveyor got mixed with the preceding call N. 62 3/4 E. 1560 vs. (62 & 52 - 1560 vs. & 1500 vs.)

Stairway Peak is one of the tallest points in the Rio Grande range of mountains and is visible from the mouth of Maravillis creek. I took the course and triangulated the distance and found said peak to be S. 88 1/2 W. 21928 vs. from the mouth of said creek.

I found and identified the S. W. corner of Section 36, Block 231, and made direct connection with it and the S. W. corner of Block G1,

counter 13285

and found that it is North 19314 vs. and West 21723 vs. from the S. W. corner of Block G 1.

As so much depends on the correct location of the S. W. corner of Block G 1, (while I am satisfied) I would be glad if you could have the owners of the T. & St. L. R. R. Co. lands to send a competent surveyor to make an examination of it.

Yours truly,

R.S.Hunnicutt.
State Surveyor.

JT 3

counter 73296

General Land Office,

State of Texas, Austin.

March 6th 1908.

Mr. R. S. Hunnicutt,

State Surveyor,

Marathon, Texas.

Dear Sir:--

Your letter of the 22nd. ult. in regard to your investigations of the S. W. Corner of Block G1, and giving connection between the S. W. corner of section No. 36 block No. 231, and the S. W. corner of Block G1, has been received.

Am sending under a separate cover a plat showing the general plan by which the Texas and St. Louis blocks 243, 227, 228, 229, 230, 235, 236, 237, 238, 239 and 240 are to be constructed.

In order that you may easily understand the history of those locations I am herewith sending you a copy of the original file or application made on the 7th. day of March 1881 by Powell & Gage.

You observe that it appropriated all the public domain now covered by blocks 225 to 243 inclusive, and that they therefore collectively constitute one mass or system of surveys located about the same time by S. A. Thompson. A certain number of certificates were applied on that body of land embraced within the file, and each certificate is entitled to a part of the land. Now that a shortage has been found in the surveys the unfortunate certificates must suffer a diminution of area, but none should be entirely eliminated in order that others may enjoy the full quantity of land called for in field notes.

The proper plan of construction is to distribute equally the distance between any two proximate coners that you may identify or lines controlled by those coners to the section that intervene between subh lines or corners.

The collections of Tex. & St. L. blocks should be treated as one large block of surveys made under one application. Each small block of 36 sections is a subdivision part of the whole and but for the convenience of numbering the sections the subdivision

blocks have no significance. In other words the sections in the entire body of land appropriated by the T. & St. L. certificates bear the same relation to each other that they would bear had they been arranged by numbers into one large block. We should therefore consider

JT4

counter 13287

the boundaries of the 36 section blocks as a convenience that may be ignored without affecting the relations between the several sections throughout the entire T. & ST. L. system. The S. W. corner of Block G1.~~&~~. which is the S. E. corner of section No. 36, blk. No. 237, is the S. E. corner of the entire T. & St. L. system. From it (the S. W. corner of G1) a line should be produced north for the eastern line of the T. & St. L. locations and the western line of blocks G1 & G15. From the same corner a line should be produced west for the southern boundary line of the T. & St. L. surveys located by virtue of the Powell & Gage file. Within these two exterior lines and Thompson's original corners in the interior the full number of sections must be constructed. Some will be full and others fractional.

The S. W. corner of No. 36. block ~~&~~ 231 is one of the most eastern corners made by Thompson. The distance between a line passing North and South through it and the western line of block G1 (reported by you to be ~~2[illegible]~~ 21723 varas) must be apportioned equally to the thirteen tiers of sections extending north and south. The lines extending east and west must be controlled by Thompsons original corners that may be found in blocks 242, 226, 231, 234 and 239. The distance between any two proximate corners whether short or excessive should be apportioned to the tiers of sections lying between lines passing through those two corners.

You should as early as possible find all the Thompson corners that can be identified in blocks 234 and 239 in addition to those found in 242, 226 & 231, if you have not already done so.

His most southern corners were made for the two southern corners of No. 19, block No. 239. According to your connection the two tiers of sections lying south of that section 19 and extending East and west will be reduced to narrow strips probably not more than 200 varas ~~in~~ North and South width.

The plat I am sending you does not indicate all details of construction but only a general plan to show how shortage or excess shall be distributed. You will have to wrok out details from original corners you may identify.

JT[5]

counter 73288

R. S. H. - 3 -

I have caused blank field notes to be printed for your use in preparing corrected field notes of every section for which you may make a corner. You will therefore please observe the importance of keeping a full and complete description of all corners made by you together with notes on topography and records of your connecting lines. All erroneous marks for corners whether made by you or some one else should be destroyed.

You may now continue your work in the T. & St. L. blocks wherever you may find it most advantageous. As soon as you get connections if not already made, between all controlling original corners you should be able to plat your work in advance and complete it by blocks as you go.

Respectfully,

John J. Terrell,

Commissioner.

Hun-Ward.

JT'b

counter 13289

MISCELLANEOUS 2

JAMES P. DODD
REPORT
BREWSTER CO.

NO.47

counter 43290

Marfa Texas
Sept. 3rd.1930

Hon. J.H.Walker
Commissioner General Land Office
Austin Texas.

Report of a survey made by me, on the ground August 2nd to 22nd, 1930, to determine the location of surveys in Blocks 343, D-11 and D-12, requiring, under instructions from the Commissioner of the General Land Office, a connection between the Maxon Spring corner at N.E corner Survey 11, Block G, Brewster County, Texas, and the Myers or Spring Corner at Survey 335. T.W.N.G.in Terrell County.

DATA FOR SURVEY:

Working sketches from General Land Office, showing Maxon Spring Corner and Connections. Official County Maps of Brewster and Terrell Counties. Field notes obtained from the County Surveyor's Records of Brewster and Terrell Counties of Blocks involved and through which connections would be run.

GROUND SURVEY:

We went to the NE corner Survey 11, Block G, known as the Maxon Springs Corner and at which corner two bearings are given, a call of S 34° W 70 varas to the "Chimneys" was found Okay. The call of round rocky peak N 2° E 200 varas was found to be N 2° E 900 varas possible a mistake of the original surveyor in copying his notes, as the chimney call and the nature of the peak bearings as called for determine the location of the corner definitely, giving a variation of 11°44' E.

From this corner we ran East, and at 1912 varas, pass 5 varas North of an old rock mound, an at 3800 placed RM at NE 13 39 varas East 11 varas North of a rock mound under fence.

We then ran on east 1900 varas and North 950 varas to the NE 24 and at this point found a mound marked NE 24 - 8 varas North and 3 varas East.

Turning East weran 1900 varas and found a rock mound marked "A" 44 varas south of our point. Turned N 45° E 2688 to NE 21, East 1900 varas to NE 20 and set a rock mound in flat on east 1900 varas and set a RM on North side R.R. at the NE 19 - could not find mound as called for.

We then ran North 45° E 2688 and looked for NE 15 but cound not find it. We then ran South 45° E 2688 varas and looked

counter 43291

for RM marked "A3" at SE 16 but no mound found.

We then ran south to locate the "B3" corner at NW 1 Block 343, this corner is described as being near head of draw, we ran south 2150 varas and East 32 varas to a rock mound on a point of ridge between two draws which ran into a deep Canyon some distance further on. This R.M. has been accpted by other surveyors as the "B3" corner, but as there are no bearings it cannot be definitely located other than by connection with other corners. Some 138 varas North and 48 varas West of this corner we found another very old Rock Mound, on side of ridge and very near the head of Canyon, but this cannot be identified. The call distance from the NE 11, Block G, places this corner 950 varas North and 17100 varas East from said NE 11, The rock Mound first mentioned above is 17132 varas East and 700 varas North of said NE 11, The second mentioned mound is 838 varas North and 17084 varas East from NE 11.

Returning to our point at SE 16, we ran North and at 1625 varas were 13 varas West of a rock Mound marked E, this mound is in a wide flat, but gives no bearings, the actual distance between this corner and the "B3"corner is 3775 and West 19 varas from said corner.

Turning N 45° E, down the flat, we ran 2738 and were at this point 64 varas South and 31 varas East of a Rock mound marked F, but the age of this md could not be determined as it had been recently disturbed.

We then ran East from our point 5700 varas and established a Rock Mound marked 17 S.C. and took bearings. This md. is 24749 varas East and 6411 varas North of the Maxon Springs Corner. We then ran S 45° E 5376 and set a point 28549 varas East and 2611 varas North of the Maxon Spring Corner- (from this point a Rock Mon. on rock ledge marked PCo 24 S.F. B.Co. bears South 245 and East 235.) from this point we set a Rock Mound 11 varas South and 17 varas West, for the NE corner Survey 44, Block 343, same being 1900 varas North and 11400 varas East from the "B3" Corner,

counter 13292

We then ran south 12048 varas and placed a Rock Md. 145 varas East of the NE 23, Block 343, on south 1900 varas and West 145 varas and placed the SE 23 and NW 27, Block 343.

From NW 27, we ran south 5700 varas, placing corners at each, to the SW 29 Block 343, and NE 40, Block 336. We then ran East 1900 to NW 31, Block 343, and NE 43, Block 336, ran South 1900 varas and placed a Rock Mound at NW 32 and SW 31, Block 343, and NE 44, Block 336. This Md. is 19648 varas South and 13155 varas East of "B3" corner. Course and distance from the Maxon Spring Corner - if the Commissioner considers the location of the "B3" Corner indefinite or doubtful, would place this Corner 250 varas North and 32 varas West.

We then ran East 5700 varas placing Corner at each mile to the NW 60, Block 343,

Then South 1900 to SW 60 and SE 55.

We then ran West 1900 and placed the NW 56 Block 343, and NE 49, Block 336,

We then turned south and ran 3800 varas and placed the SE 50, Block 336, and SW 57, Block 343, returning to NW 54,- NE 32, Block 343, we ran North 1900 varas and placed a Rock Mound at the SW 50, Block 343.

This concluded our work in this Block, and we went to Myers Spring to bring the connection from the East, from the SW corner 335.T.W.N.G. Terrell County, through Block A-2, D-9, D-10, imto D-11 and D-12, to determine extent of conflict.

The N.E.Corner 335, is called for as 1344 varas N 45 E from the Painted Rock or Myer Spring, which would place the S.W. cor. S 45° W 1344. Myer Spring emerges from a small round hole in the face of a solid bluff, some thirty feet high, the hole is about ten or twelve inches in diameter, and during the wet season the spring runs the full capacity of the hole. There has been a stone tank built below the spring of recent years. We began our survey at this hole and ran S 45° W 1344 varas. At a point 47 varas West of us was an old Rock Mound, on some

counter 43293

35 varas South was a more recent mound and 86 varas South still another, both bearing recent marks as "SW 335", but all within the past five or ten years.

The Rock Mound first mentioned is 950 varas South and 997 varas West from the Spring and shows to have been in place for a long time.

Beginning at this Md. we ran West and at 6050 varas ran South 669 varas to the SW 1, Block A-2, crossing fences, we then ran West 15304 varas passing several mounds and to a large rock mound marked "SE 9", the SE corner survey 9, Block A-2, on West 7685 varas to the West Block Line, A-2.

We then ran South passing a Rock Mound marked "NW 61" 9600 varas to the SW Corner Survey 61, Block A-2, an X and SW 61 cut on bluff on East side of Sanderson Canyon. We then ran South 203 varas and East 525 varas to a large Rock Mound on top of hill and marked NW 1, D-9 R.S.Dod 12/24/08.

We then returned to SW 61 and ran North 2647 varas, and set a Rock Mound for NE 1, D-10, 2850 varas North 0 and 525 varas West of NW 1, D-9, and in West boundary line Survey 60, Block A-2.

We then ran West and at 10915 varas passed 143 varas North of a Rock Mound set by R.S.Dod for the NW 72, Block D-10. This Mound is 143 varas South and 40 varas West of Call position from NW 1, D-9, continuing West from point North of Mound, 5700 varas to a R.M. in edge of road,

We then ran South 143 to point West from Rock Md. at NW 72, on South 3800 varas and West 1900 varas to SW 119, from which a Rock Mound set by Mr. Hope bears West 86 varas and North 22 varas on West 1900 varas to SW 122, from which Hope corner bears North 93 varas. We then ran south 1900 varas to SE 142, West 3800 varas to SW 147, from which Hopes Cor. bears North 43 and West 55, on West 11400 varas to SW 15, setting corners every 1900 varas, from which Hopes Cor. bears North 239 varas and West 186 varas on West 9500 varas setting corners every 1900 varas to the SW 29, D-12. From the SW Corner 29, D-12, we ran West 2263 varas and North 4 varas to the SE 26 - SW 27, Block 343, as set from Maxon Springs.

The "47" 4 counter 43294

The included angle as turned from our East and West line extended from SW 29, D-12 to theNorth and South line of 26 as brought from Maxon Springs was 90° 48' - checking the transit lines and variation obtained from observations made in the two lines. The variation used in Block 343 and 336 from Maxon being 11° 44' E, and that used in D-9-10-11-12 and Block A-2 from Myer being 10° 56' E.

The result of the survey can best be observed from plat filed with this report.

Surveys in Block 343 conflicting with senior surveys in Blocks D-11 and D-12 are shown.

All of the Confederate Script files 1020-1021-1022 are entire wiped out, and only a small portion of survey 1019 remains.

Discussion of the merits of Corners adopted on this survey is probably unnecessary with the exception of the "B3" Corner at NW 1, Block 343. The Corners placed by me on this survey, from the NE Corner of 44, Block 343 on through the Block to the SW 57, Block 343, and SE 50 Block 336, are all placed from this "B3" Corner. Although same is 250 varas South of Call distance from NE 11, Block G. and the chain of Corners North and East from same are so irregular. Other surveyors have adopted and used it as in place and have set lines to the North and East from same, this does not necessarily bind me to accept same, when in the discretion of the Commissioner the Course and Distance call from NE 11, Block G may be held superior to a rock mound not definitely established by bearings.

The adoption of the Rock Mound at SW 335 seems to be as close as can be ascertained from connections made.

The adoption of R.S.Dod's Monument at NW 1, D-9, checks as follows: his call is 28510 West and 10450 South. I make it 28514 West and 10472 South, a difference of 4 varas East and West and 22 North and South. Evidently we were bear the same point at SW 335, or made compensating measurements through Block A-2. His NW 72 in 143 varas South of proper position and 40 varas West possibly an acumalated error in his long run South from NW 1, D-9 to the river and his river meander and line North to NW 72,

a distance of possibly thirty miles. But since he has placed a line of corners through the block South from NW 72, which have been of record in the Land Office some 21 years and have been generally used and accepted I thought best to adopt his location for NW 72 and from the SW 142, (the first corner placed West) I have used that location. Should your office not approve of the course followed in this, and desire the corners corrected to a position 40 varas East and 143 North of where they are now placed, same will be promptly done. If this were done it would cause a smaller conflict with some of the sections in Block 343, Field notes of certain Surveys in Block 343 are transmitted herewith and upon notice of the approval of survey by your pffice more will be forwarded. Please inform me at your earliest convenience of any corrections or changes you desire to have made in the work.

Respectfully submitted,

James P. Dod

James P.Dod

Licensed State Land Surveyor of Texas.

"4" 6

counter 43296

Brewster Co. Rld. Sk. #126

Report by
James P. Dodd in
Brewster & Terrell Counties

A connection between the Moxon
Spring Corner at N.E. Corner Sur 11, Block G.
Brewster Co. and the Myers~~x~~ or
Spring Corner at Sur. 335 T.W.N.G. in
Terrell County

Keep with Brwester Co. Rolled Sk "47"

47

counter # 3297

MISCELLANEOUS 2

W. L. RIDER REPORT
BREWSTER COUNTY
NO. 49

counter 43298

October 10, 1930

Supplemental Report to Report
Made in August 1930
of
Survey in South Brewster County
For Asa A. Jones
El Paso, Texas

Hon. J. H. Walker
State Land Commissioner
Austin, Texas

Dear Sir:

In August I sent you a report of Survey of sundry blocks and public surveys in Southeastern Brewster County made for Asa Jones together with map of same, and field notes of certain sections shown thereon.

My map showed a tentative location made by compass bearings at Dod's N. E. corner of Survey 44, Bl. 336 T. C. R. R. Co., and in my report I stated that it was our intention to connect this corner by actual survey with my survey for Mr. Jones above mentioned. This I did Sept. 22, 23, and Mr. Jones has sent you a new blue print of my work for him which shows my traverse between said Dod("B") corner of said Sur. 44 and rock mound which I set in the division line of Surveys 7 and 8, Bl. G 20, T.C. R.R., 201.1 varas south of the joint north corner of the same, which rock mound was located by survey from Thompson's N. W. corner of Sur. 1 Bl.234 T. & S. L. Ry. and is referred to in the field notes of said Survey 7 which I sent you in August.

Instead of finding an overlap, as I expected, along the north line of Bl. G. 18 T. C. Ry. due to a supposed shortage between Dod's "B" corner and that line, I found an excess of 3.66 varas north and south, my total latitude between Dod's "B" corner and my rock mound, 201.1 varas south of the south line of Bl. G. 18 being 13,504.76 varas as shown on new blue print. Subtracting the 201.1 varas leaves 13,303.66 varas for the seven miles across Bl. G 18 and on up to the Dod corner. Using 1900 varas even per mile as I did on all this work, leaves 3.66 varas excess as I have stated, which of course is negligible, thereby eliminating the supposed conflict between Bl. G 18 and the blocks to the north; except for a possible difference in variation or meridian, my meridian being that of Thomson in the T. & S. L. blocks. East and West, however, I find a difference of only 5379.7 varas between Dod's "B" corner and my division line between Surveys 7 and 8, Bl. G 20 produced northerly to its intersection with a line running east from Dod's "B" corner, indicating that the surveys adjourning Bl G 18 on the

Π_0^3

counter 43299

Brewster Co. Rld Sk. 126

north jog east of those in Bl G 18, a difference between 5700 varas (3 miles) and 5379.7 varas, or 320.3 varas.

After tying Dod's "B" corner to my work in Bl. G 20, I found it necessary to change the compass bearings shown on my original blue print for fences running south and east from Dod's "B" corner, and to mountain peaks, 21 minutes, to fit my bearings in Bl. G 20. These corrected bearings are shown on the new blue print recently sent you by Mr. Jones, as also in enclosed field notes of said Sur. 44 Bl 336 which we submit for your approval, and for record, with my ties to Bl G 20 in order to permanently remove the non-existent overlap heretofore shown on land office maps along the north line of Bl G 18 and to reference in Dod's "B" corner by bearings.

I ran this north line of Bl G. 18 easterly from my survey line for several miles for the owners on both sides of the block line (Messrs. Wolf and Belcher) to their mutual satisfaction, and followed closely a series of rock mounds set by a Deputy Surveyor Molinaux, I was told, starting 65 feet south of his line at my calculated position of same and crossing it about three miles farther east, indicating a difference in our meridians of about 14 minutes. Part of the way we followed the remains of an old fence very close to my line.

I also ran the south line of Bl G 18 for the owners on each side (Messrs. Belcher and Jones) east four miles and west two miles from the joint north corner of Survey 7 and 8 Bl G 20, setting rock mounds ~~and~~ at said joint corner and the northwest corner of Sur. 9 Bl G 20; the former marked "N W 7, N E 8, WLR." and the latter marked "N W 9, N E 10, WLR.". I also ran the north line of Surveys 28 and 29 Bl G 18 for Mr. Belcher, connecting by survey with my north line of Sur. 9 Bl G 20, and setting unmarked rock mound at the northeast corner of said Sur. 29.

If my latest map, with field notes of Sur. 44 Bl 336 T. C. Ry. Co. accompanying this report, together with filed notes of sundry sections in the "G" blocks sent in August are approved, it will satisfy all owners interested and remove long standing conflicts between the "G" blocks and those surveyed by Thomson.

I regret that my survey data shown in red on the original tracing did not print well on the blue print furnished you. Mr. Jones has the original, however, and I should suggest to him that he file it in your office.

Respectfully submitted

W. L. Rider

W. L. Rider
Licensed Land Surveyor

No 4

counter 43300

ASA A. JONES
CATTLE AND RANCHES
2807 PERSHING DRIVE
EL PASO, TEXAS
MAIN 6382

Sept 30 - 30

RECEIVED
OCT 2 - 1930
REFERRED TO

Mr. J. H. Walker.
Austin, Texas.

Dear Mr. Walker.

Under seperate Cover I am Mailing you a blue print of the work Mr. Rider recently made in the eastern part of Brewster Co. for us, with the addition of a line run from Capt. Dodi B. Corner South to Mr. Rider's work. Which checks remarkably close one with the other.

When I phoned you I had understood that Mr. Rider had run about 4 Varas past or South of his rock mound which would have made a difference of something over 200 Varas but instead he had only run about 4 varas past the block line which almost checks as it should. Both Mr. Belcher & myself are very much pleased with the outcome of this work. With best personal regards

Yours very Truly
Asa A. Jones

T/o 5

counter #3301

"Report."

Kerrville, Texas,
May 17th, 1930.

Mr Asa A. Jones,
Alpine, Texas,

Dear Mr. Jones-

I have gone carefully over my work in connection with a survey made for you on certain surveys in Brewster County Texas, beginning about May 13th, 1930.

Going into detail, will state that I began at a rock mound made and marked by S. R. Dad, a State Surveyor, for the N.E. corner of 22, B. 334. But which he subsequently declared by certified sketch to be 319 vs. to far East, and that by order of land Office must be East 146.6 vs. and 215.6 vs. S. for cor. of Sur. No 22.

Ran West on Dads line 5700 vs., adjusting the N.W. 24 B. 334, as my, corner, according, to the above figures.

Ran South 5700 vs. and West 148 vs. for N.E. 36. B. G. 15.

Ran traverse S 45 W. 2688 vs. for N.E. 18, G. 15.

Ran East 3800 vs. for N.E. cor 16, G. 15.

Ran traverse S 45 E. 2688 vs. for S.W. 14, G. 15.

Ran East 3800 vs. N.E. 4, G, 18.

Assuming that Dad's work correct from N.E. 22, B 334 to N.E. 44, B 336, I began at N.E. 44, requiring (7 mi) 13300 vs. S. and 5700 vs. E. to reach N.E. G. 20.

Ran traverse on ground best suited, - South 13334 vs. and East 6844 vs; which is 1144 vs. too far East and 34 vs. to far South, this to Mullins line as marked on the ground.

The error in Southings of 34 vs. is not serious and rather than make a new line, just adopted Mullin's line for southing.

The 1144 vs. in Easting is to great, this point being marked by Mullins as N.E. 8, G. 20.

In order to check my work on the East with

Π0

counter 43302

my work on the west, both from Dodd connection, I began at the last point above mentioned, requiring (9 mi) 17100 vs + 148 vs. (shift West) + 1144 vs. (too far east) = 18392 vs, and North 1900 vs. (1 mi).
Rarly traverse thus: West 18373 vs. and North 1939 vs.
Thus you see a difference of 19 vs. in westings and 39 in Northings. In all this I used the Dodd variation.
My work checks fairly well, and I cannot see why Mr Mullins was so far out E and W. having began at the same point (N.E. 44) used by myself.
Of course the Harmon work does not agree, neither does the Dod work on the South.
Am submitting sketch to more fully explain what I have done.
I was exceeding busy upon my return, hence am in some what of a hurry, but think the figures are correct. If you wish me to make an official report can submit it a little more carefully and have it typed.
I am sure you understand the above figures as they show every foot of ground covered by me.

Very sincerely and truly
A. L. Starkey
Licensed Land Surveyor.
Kerrville, Texas.

counter 43303

Alpine, Texas,

August 11, 1930

Hon. J. H. Walker,
Commissioner of the General Land Office
Austin, Texas.

Dear Sir:

Recently, June 27- July 17, 1930, I made an extensive survey in southeastern Brewster County for Mr. Asa Jones of El Paso, Texas and Tesnus, Texas, for the purpose of fixing certain corners in the socalled "G" blocks (originally surveyed by John T. Gano and lying east of T.& S.L. Blocks 228, 229, 236, and 237) in conformity with decrees of Brewster County Dist. Court in case of R. Stillwell vs H. Wigzell, No. 1003, Aug. Term, 1924, and of Terrell Co. Dist. Court in case of A. Stewart vs J. Harrell, No. 1670, Jan. Term, 1926; the effect of which decrees was to set aside the survey of R. S. Hunnicut in said blocks and to remove the conflict between them which his survey created, and to restore the T. & S. L. Blocks and sections on the west of Blocks G 1, D. & W. Ry. Co. and G 15, G. C. & S. F. Ry. Co., to their normal size as originally surveyed by S. A. Thomson.
The corners which Mr. Jones wished located in particular were: the two north corners of Blk. G 1, D. & W. Ry. Co; the northwest corner of Section 7, BLK. G 20; the southwest corner of Sec. 21, G 21; and the two west corners of Sec. 3, Blk. G 24.

After obtaining such data as seemed desirable from the County Surveyor's records at Alpine, I went with Mr. Jones

and surveying crew on the ground, and our first work was to find Hunnicut's north corners of G 1, which we did by survey from a relocation of his survey by a Mr. Harmon; using tentatively Harmon's north corners of 190 and running west on his north line of Blk. G 1 until we came upon what we assumed to be Hunnicut's north corners of 193, 1907.3 varas apart and somewhat north of my survey line as based on Harmon. From the more westerly of these corners, using the line between them for east and west, I continued my survey by a meandering traverse to Hunnicut's N. W. corner of survey 200 and of Blk. G 1; which corner checked itself to within five minutes by its bearings, and precisely by the angles between them. Calculating back from Hunnicut's N. W. 200 to his assumed north corners of 193, I found it to be in line with them and at an average distance from them of 1907.2 varas per section along his north line of Blk. G 1, the same distance I had found by actual measurement between the 193 corners; thus proving them to be his.

This much accomplished, Mr. Jones and I went to Austin to consult with the State land office. There we were advised by Mr. Clark to locate the N. W. corner of Blk. G 1, twenty miles north of the S. E. corner of Blk. 237, T. & S. L. Ry. Co., said latter corner to be also the S. W. corner of G 1 and to be fixed at 13 miles east and twelve miles, plus excess distance found, south of the N. W. corner of section 1, Blk. 234, which corner in turn should satisfy Thomson's calls in Blk. 234. As to the excess distances in the twelve miles south referred to, Mr. Clark furnished us with a copy of Mr. Hunnicut's map of T. & S. L. Blocks, which indicated, according to Mr. Hunnicut's investigations, a total excess of 111 varas in the first nine miles, and none in the remaining three miles; and he, Mr. Clark, stated that it would be satisfactory to accept Mr. Hunnicut's excess distance but advised verifying it first.

Returning to the field and adopting for the time being Hunnicut's meridian, I connected with my survey previously run

counter 73305

to Hunnicut's N. W. corner Blk. G 1 at a point which I estimated would be nearest to my relocation of said corner on a basis of the Thomson survey, and ran a meandering traverse some fourteen or fifteen miles southwesterly to a rock mound which proved by its bearings to be Hunnicut's corrected location of the joint corner of T. & S. L. Blks. 230, 231, 234, and 235. Still using Hunnicut's Blk. G 1 meridian, I then ran west and at 1656.4 varas (Hunnicut field notes 1671) came to a rock mound which required a change in my line of fifteen minutes to fit. Adopting for east and west this corrected line between monuments, Hunnicut's bearings for Thomson's N. W. corner of survey 1, Blk. 234 fitted here exactly, identifying the corner and showing that his meridian as used in Blk. G 1 differed by 15 minutes from his meridian at this point as derived from Thomson's lines, the former being N. 0°, 15' E. if we call the latter north. Near this N. W. corner of Sec. 1, Blk. 234, at the proper course and distance, I found the catclaw tree called for by both Thomson and Hunnicut, and also identified by its bearing the lone cedar on a mountain called for by Hunnicut alone.

Using this new and final meridian of my survey, or Thomson's meridian, I now ran due south with the purpose of checking Thomson's corners further, as well as Hunnicut's excess distances, and at 1928.9 varas (Hunnicut 1930) hit rock mound at S. W. corner Section 1 in the center without change of course. Thence I ran diagonally on a calculated course to a point slightly N. W. of rock mound which fulfilled all the natural conditions of Thomson's calls for the N. W. corner of survey 23 Blk. 234 on the west side of Persimmon Gap. It was not however due south of a point 1 mile west of the S. W. corner of Section 1, but S. 0°, 29¼' E. by calculation, and at a distance of 3816.8 varas as against Hunnicut's 3828 varas. From this N. W. corner of 23, I continued south two more miles and again found corner (N. W. Sec. 35 Blk. 234) fulfilling its natural calls, but again somewhat out of line, S. 0°, 19¼' E. with a distance of 3841.3 varas as against Hunnicut's 3817. I then set a rock mound at Hunnicut location of the missing N. W. corner of Survey 26, Blk. 234 (1904

11/08

counter 73306

varas from N. W. 23 in line between it and N. W. 35) which checked bearing of field notes to "Tablelunk Peak".

Altogether in the five miles south from the north line of Blk. 234 I found an excess of 87 varas as against Hunnicut's 75; and as the country farther south was very rough and an accurate check of the remaining excess very difficult as well as expensive to ascertain with precision, I decided to go no farther but to allow 24 varas more excess for the next four miles, or six varas per mile, so as to equal Hunnicut's total of 111 varas in nine miles. On that basis I decided to fix the S. W. corner of Section 97, Blk. G 1, 111 varas south of the N. E. corner of Blk. 236, with the latter corner 24700 varas (13 Miles) east of the N. W. corner of survey 1, Blk. 234.

Using my survey traverse between this N. W. corner of Survey 1 Blk. 234 and Hunnicut's N. W. corner of Blk. G 1 as a basis of calculation and changing all courses on said traverse 15 minutes to conform with Thomason's meridian, I found by calculation that a due east course from the N. E. corner of survey 1 Blk. 234 crossed the Hunnicut west line of G 1 at 21715. 8 varas as against his 21723, a fairly close check. Hunnicut made no mention of, and apparently did not find a 15 minute difference between his T. & S. L. survey and his G 1 Survey, hence his ties between N. W. corner of Section 14 Blk. 228 (Thomson location) and his N. W. corner of Blk. G 1 do not agree with mine within 74.2 varas east and west; a difference due mostly to the 15 minutes divergence northerly from the south line of Blk. 229. Our difference north and south between these two points is much less, being only 16.8 varas. These ties, in view of the rejection of the Hunnicut survey are immaterial, and I mention them and indicate them on my map only to show that Mr. Hunnicut and I checked each other fairly well. From the point heretofore mentioned where my traverses to Hunnicut N. W. G 1 and Thomson N. W. corner of Section 1 Blk. 234 meet, I calculated the

T/o 9

counter 13307

position of my N. W. corner of G 1 to be S. 82°, 47½' W. 1085 varas. The last work I did was to run this line and set this block corner.

The direct diagonal course from the N. W. corner of Survey 1, Blk. 234 to my N. W. corner of Blk. G 1, being the hypothenuse of the triangle 24700 varas east and 15089 varas north, calculates N. 58°, 34.8' E. 28944.4 varas. My survey traverse between the same two points calculates N. 58°, 34.2' E. 28946.7 varas which is within a reasonable limit of error and proves my traverse calculations to be very nearly correct. We next went to the starting point of my survey at Harmon N. W. 190 and changing his east course to N. 89 degrees, 47 minutes east to fit Thomson's meridian followed it easterly about a half a mile to a point where we turned Northeasterly to a flag which Mr. Jones said was Starkey's location of N. W. corner of Section 17, Blk. G 15, G. C. & S. F. Ry. Co. I then calculated my position of this corner from my traverse from my location of the N. W. corner of Block G 1, which is the S. W. corner of said Blk. 15, on a basis of its being nine miles (17100 varas) east and two miles (3800 varas) north of said N. W. corner of G 1, and found it to be 269.9 varas west and 97.6 varas north of Starkey location of same, Starkey having worked south from Dod corners in T. C. Ry. Co., Blk. 334.

A working sketch of Land Office dated Jan. 13, 1930, shows a slight conflict N. & S. between Blk. 334, and Blk. 15 corresponding to the above 97.6 varas and a jog east and west between section corners of the two blocks corresponding to the above 269.9 varas, with no distances given. It also shows Dod's location of section 44, Blk. 336 as surveyed from Maxon Spring; which section I have platted approximately in its true position on my map by means of needle bearings taken at its N. E. corner and correllated with my Thomson variation (12 degrees), and this position indicates a similar conflict N. & S. and a similar jog E. & W. at the block line 3 miles south. I took these bearings at this corner of Dod's in order to get them of record, and by request of Mr. Jones, who pointed out the corner to me and another one mile south on the same fence line marked S. E. 44. Later we intend to tie in these corners with my survey by actual traverse.

counter 13308

My traverse between my N. W. corner of Section 17, Blk. G 15 and my N. W. corner of Blk. G 1, on rechecking, gives a total of 3795.6 varas north against 3800 the intended distance, and 17087.9 varas east against 17100 varas, the intended distance; which errors are within permissible limits, I think, and to correct which would involve the resetting of monuments hereinafter mentioned. After monumenting, and referencing by bearings, my location of N. W. corner of Section 17, Blk. G 15, we ran two miles (3800 varas) east; monumenting both north corners of Sec. 16 and taking bearings at the N. E. corner of same. East of the N. W. corner of survey 16 at 135 varas we passed an old rock mound less than a vara north of our line, surveyor unknown.

From the N. E. corner of survey 16, Blk. G 15, we ran southwesterly and then southeasterly, to avoid a mountain, to calculated position of S. W. corner of survey 12 of said block. A recheck of this traverse shows less than a foot error in either latitude or departure. At this corner we set a substantial monument and took bearings. Then we ran east two miles (3800 varas), along the north line of Blk. G 1 and south line of Blk. G 15, setting monuments for the S. W. and S. E. corners of section 13, Blk. G 15, the latter being my location of the S. E. corner of said block and the North East corner of Blk. G 1. At this Blk. corner I took a number of bearings and then ran N. E. diagonally across section 4, Blk. G 18, T. C. Ry. to its N. E. corner where we set a rock mound. We then ran east a half mile (950 varas) and set 1/4 section corner midway of north line of section 5, Blk. G 18. At 362.3 varas east of N. W. corner of Sec. 5 and 58.4 varas south, we passed Starkey's rock mound corner set for said N. W. 5, an increase east over his difference with me at N. W. 17 of 92.4 varas and a decrease south of 39.2 varas.

From said middle point of the north line of section 5, Blk. G 18 we ran a meandering traverse in a general southeasterly direction, passing through Beef Gap; to a point on the S. E. side of a road from Reagan Canyon to Sanderson, known as the Bullis Trail,

No. 11

counter 13309

and about 1½ miles S. W. of its junction with the Beef Gap road. In figuring the latitudes of this traverse, to ascertain my position at the Bullis Trail, I made an error in calculating the southing of one course of about 200 varas, which caused me to place all remaining monuments about that far south of their intended position; but my map and field notes show their true position with distances north or south to section corners which they were designed to be. Near our survey line through Beef Gap we tied to corners of surveyors Mullin's, Harmon and Dod, and one other west of Mullin's corner supposed to be Dod's. These corners with their markings and ties are shown on map, in sections 13, Blk. G 18 and 40, G 14 (G. C. & S. F.).

At my point on Bullis Trail in the S. E. 1/4 of Section 42, G 14, I took an observation on Polaris and ascertained that Thomson's meridian, which I had paralleled from Persimmon Gap 33 miles farther west, was at this observation point 57 minutes N. W. and S. E. of the true meridian, making the true variation about 11°, 03' instead of 12° as the needle on numerous occasions indicated Thomson's variation to be. The U. S. Geol. Survey sheet, edition of 1918, gives 10 3/4° variation for this locality; and as the variation of my own knowledge increased at the rate of about 3 minutes per year for the next six or seven years and has since remained about stationary, 11°, 03' variation would seem to be about right for the correct variation of the locality in question in 1930, with 12° as the proper variation to fit the Thomson lines and my locations based upon them. I did not rely upon any particular variation however; for my bearings, after obtaining my starting points, are here, as elsewhere, independent of variation, and obtained by vernier readings, and my needle readings taken merely as a safeguard against error.

From my observation point at the Bullis Trail we first ran in a southeasterly direction (partly by triangulation owing to the difficult terrain), to a point intended for the N. W. corner of Section 3, Block G 24; but which, due to the error above

T/o 12

counter 43310

referred to, and a small compensating error of 6.2 varas, I ascertained afterward to be 195.1 varas south of the true corner. Here we set a rock mound and another 1373.9 varas south, both in the west line of said Section 3. In rechecking also, I discovered a shortage in eastings between this point and my observation point of 2.4 varas which I ignored as negligible.

Returning to my observation point we ran nearly east about two miles to a point about a mile S. W. of Bullis Gap, from which point we ran two meanders, and took bearings to U. S. monument on mountain ridge northeasterly. The first of these meanders had for its objective the S. W. corner of Section 21, Blk. G 21. We reached west line of section 21 at a point 1940.2 varas (corrected) north of its S. W. corner, where we set a rock mound; and then by triangulation we set another 172.6 varas (corrected) north of the desired S. W. corner at top of cliff, the corner itself being inaccessible.

Returning to point about a mile S. W. of Bullis Gap we ran our final meander through Bullis Gap northeasterly, then across a range of hills easterly; to a point in the west line of Survey 7, Block G 20, 201.1 varas south of the true corner which it was intended to be. Here we set a rock mound and took bearings. South and west of this point we passed a fence corner said to be Mullin's corner for N. W. 7, ties to which are shown on map.

All meanders, ties, bearings and other survey data are shown in red on map tendered herewith; and field notes of Sections 188 and 200, Block G 1, based upon the located north corners of said block, together with field notes of sections containing other corners located, are attached.

My original map of which the tracing accompanying this report is an exact copy, was platted on the U. S. Geol. Sur. sheets, carefully fitted together, in order to check my survey with points shown on same; with very satisfactory results throughout.

No. 13

counter 13311

This accounts for the odd scale used of 1875 varas per inch, or 1/62500, which is the scale of the U. S. maps.

Trusting that a check of Survey notes shown on map will disclose no material errors and that this laborious piece of work will meet with your O. K., we beg to remain, Sir,

Respectfully yours,

W. L. Rider

W. L. Rider, Licensed Land Surveyor.

counter 43312

Brewster Co. Rld. Sk. #126

File No.

Brewster County

W. L. Rider Report

~~Field Notes~~

Filed Aug 22 1930

J. H. Walker Com'r.

H. F. McDonald

File Clerk

Keep with
Brewster Co. Rolled Sk. "A9"

counter 43313

MISCELLANEOUS 2

H.R. GARD REPORT

BREWSTER CO.

NO. 50

counter 43314

Alpine, Texas,

June 26, 1934.

Hon. J. H. Walker, Com;
General Land Office.
Austin, Texas.

RECEIVED
JUN 28 1934
REFERRED TO MAP

Dear Sir:-

In RE. your letter of June 22nd, 1934. I have spent considerable time studying Field Notes, Land Office Maps, and U.S. G.S. Topography sheets with regard to formulating a plan to work out the surveys for the Southeast part of Brewster County. and, in as much as there seems to be a likelyhood of enough land owners to get togather to defray the expenses, it appears to me that the best solution would be to start at the S.W. corner of Blk. G-1, D&W. Ry. Co., run a traverse to the mouth of Maravillas, thence down the river to the corner of Survey 95, Blk. G-18, same being the County Line corner between Brewster and Terrell Counties, at the mouth of San Francisco Creek, thence returning via Sections 40 and 42 Blk. G-18, N.W. of Dove Mt. to the Roy Stillwell ranch in Sec. 16 Blk. 236 T&St. L. Ry. Co., tieing to corners as per R.S. Dod, C.F.N. Cause 1003, August 1921 and on to the place of beginning.

Thereby making a closed traverse, and enroute tieing to all of the the available U.S.G.S. Bench Marks, which should be between 15&20 in number. Also to the corner of Blks. B-1 and M-2 at the mouth of Reagan Canyon, also all of the prominent sharp bends in the Rio Grande as well as any old rock mounds that would be contacted, I know of several below the mouth of the Marivillas that I think would be important. Also tie to all improvements within reach, such as buildings, fences, etc.

S-K 7-7-34

2

Counter 43315

also prominent Mountain Peaks, Canyons, ets.

This is the best plan I can think of to get at a basis to adjust the blocks to fit to the best advantage for all concerned.

I realize that this would be a big job and would cost considerable money,

The route I have picked would be the best ground to survey over, its a hard proposition any way you take it.

The Bench Marks and other prominent points used on the traverse line would give a permanant base from which to make future surveys when required.

The U.S.G.S. Topography sheets would also help materially in planning the block lines and sub divisions from such a survey.

I will appreciate it very much if you will tell me if you think this plan is practical or not, and offer any suggestions that you think would be better.

I may be called upon to make some suggestions as to the best plan of locating certain sections in this area, also to make an estimate of the cost of making the survey.

I am mailing under seperate cover a tracing of an old map which was neither dated nor signed, that I borrowed fromthe John. W. Harris Est.; in Sept. 1932 which may be of some service in looking over the situation. Please return the map to me afteryou are through with it.

Thanking you for your cooperation,

I am yours truly.

H.R. Gard

County Surveyor.

Map returned
7-7-34
a.c.

2

counter 43316

Connection required between the following corners:

From the common corner (by Ammerman) of surveys 31 & 32 Blk. 9, distant about 60 vrs. S.W. of road and connect with N.E. corner of sur. no. 1 Blk. W.J.G. 8 by W.J. Glenn, thence South to common corner of sec. 1 & 2 said block, thence South to S.W. cor. 2 & N.E. cor. 3 and then connect one of these last mentioned corners with either the S.W. S.E. or N.E. corners of sur. no. 49, Blk 352, on which Deer Lick Spring is situated, said N.E. corner being a common corner of surveys 43-49, 79 & 93 in said Blk. 352 made by S.A. Thompson.

Then connect the S.E. cor. of 49 being the N.W. cor. 47 both in name of Mrs. M.J. Howard, thence East 950 vrs. to a rock md. on west side of Creek, thence S.E. to the N.E. cor. of no. 6 Blk W.J.G. 8, said N.E. corner of no. 6 being 2280 vrs. North and 73 vrs. East from the N.E. corner of no. 604 Blk 8, said connection was made by Ammerman.

Also connect the S.W. corner of sur. no. 823 by Glenn (as indicated by a yellow circle) with one of Ammermans corners of section 533. 534 or 535 Block 8.

All the corners indicated with yellow circles in Blk. W.J.G. 8 were made by W.J. Glenn, the black circle in Block 352 made by S.A. Thompson.

The true relative position of the several corners above enumerated is of great importance to this office in examining the several claims of A.S. Gage and Jim P. Wilson made under Act of April 15/1905.

May 28/1908.

E. von Rosenberg
Examining Draftsman
G.L.O.

counter 43317

MISCELLANEOUS 2

B.M. HABERER REPORT
TERRELL & BREWSTER CO.
NO. 55

counter13318

San Antonio, Texas
Aug. 15, 1935

See rolled sketch accompanying this.

RECEIVED
AUG 19 1935
REFERRED TO MAP

J. H. Walker
Commissioner, General Land Office
Austin, Texas

Dear Mr. Walker:

Herewith report of survey made July 16 to Aug. 5, 1935 in Terrell and Brewster Counties for purpose of locating survey nos. 1, 3, and 5 Block D-12.

By reason of the fact that the patents called for prominent markers for these Surveys, particularly so for the N.W. corner of Survey 3 Block D-12, I first made diligent search for these monuments in this vicinity but found nothing, and came to the conclusion that these patent corners were made in the office.

July 19, 1935.--Set up over Rock mound set by James P. Dod in 1930 marked M.S.C. (NE. Cor. Sur. 22) sight on rock, said to be line marker ahead, and run East (Variation 11° East) needle reads S.89°45'E (?) 1897.4 vs a point; Rock mound bears N.8°16'E 21.3 varas; ∡ 1°16' Left (to hit corner one mile ahead) at 1160.3 vs a point on East rim of "Brindle Bull" Canyon at 2135.4 varas a point (search for Rock mound 230 varas West, find none) ∡ 0°38' Right, run parallel to and 3.5 varas North of line over last two Rock mounds found, at 1669.6 varas a point on East rim of short draw out of Ballard Canyon, Rock mound S.E. Corner Sur. 18 is 0.5 vara West and 3.8 varas South.

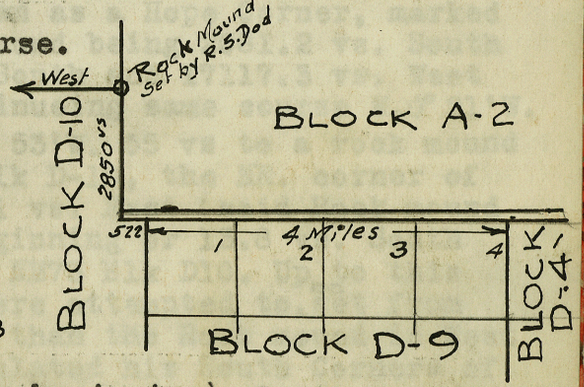
As this difference of 0.3 vara in the 3 miles makes an angle of less than 1/6 of a minute shall call this tangent East and West. Needle reads N.89°40'E (Shall have to determine variation by observation on Polaris at earliest opportunity).

Thence North at 1724.3 vs a point on south side of Road continuing North to Rock mound N.W. Corner Survey 169 Block D-10. Thence West to vicinity lower SW. corner Block "S"; Thence N.26°34'W 4302.1 varas to near upper SW. corner Block "S"; Thence West to fence between A. A. Shelton and Cox pastures; Thence North to Rock Mound set by James P. Dod in 1930 for NE. Cor. Sur. 44 Block 343.

July 23, 1935--Determine Variation by observation on Polaris find it to be 11°15'East.

July 24, 1935--Go to a point on south side of road 1728 varas North of Rock mound marking Survey 18 Block D-11 and run North and East to Stone mound set by R. S. Dod in East line Block A-2.

As the D-Blocks and the "S" Block were located from the East, for a better understanding and setting out of the lattitudes and departures I shall retrace my taverse in reverse.



Beginning at a Rock Mound set by R. S. Dod, State Surveyor in 1909; in West Line Block A-2, 2850 varas North and 522 varas West of the N.W. Corner Block D-9, or 2850 varas North and 8125.2 varas West of the NW. corner of Block D-4: (Using a variation of 11°15'East as determined by observation on Polaris) Thence S.70°39'E. 243.0 vs.; Thence S.89°42'W. at 10861.0 vs a point from which a rock mound, cap rock marked NW.72 & N.E.73 Blk D-10, bears S.88°55'W. 288.6vs (Said Rock Mound being 10920.2 vrs West and 143 vs South from beginning). Back to said point and continuing same course S.89°42'W 1569.4 vs, more or 12430.4 vs in all to a point 2vs North of fence; ~~Thence along fence N.89°52'W. 231.5 vs, N89°57'W.~~

1

counter 43319

Thence along fence N.89° 51'W. 931.5 vs, N.89° 57'W. 305.8 vs, N.89° 59'W. 680.4vs. (at minus 70.9 vs Fence corner 14047.8 vs West and 145 vs South of beginning or 3127.6 vs West and 2 vs South of Rock mound marked NW72 & NE73 B1kD10), continue along fence S.89° 50'W. 1008.5 vs., S.89° 35'W. 185.3 vs., S.89° 55'W. 567 vs., Thence leaving fence N.81° 45'W. 266.3 vs., N.61° 20'W. 349.3 vs., S.89° 42'W. 141.7 vs. to a point in road (Said point in road being 58.8 vs. North and 16591.2 vs. West of beginning or 201.8 vs. North and 5671.0 vs. West of Rock mound marked NW72 & NE73 B1kD10) (Near this point James P. Dod calls for Rock mound 202 vs. South. There is a new cattle guard 200 vs. South and new road construction has destroyed all marks for 300 vs. North and 300 vs. South) Thence with Road S.26° 46'W. 759.4 vs., S.4° 38'E. 324.0 vs., S.9° 11'W. 209.6 vs., S.55° 53'W. 506.2 vs., S.51° 50'W. 339.2 vs., S.48° 53'W. 516.4 vs., S.16° 33'W. 1042.9 vs., S.31° 31'W. 359.4 vs., S.48° 44'W. 450.6 vs., S.89° 16'W. 567.0 vs., N.68° 23'W. 260.2 vs., N.53° 55'W. 205.5 vs., S.86° 56'W. 286.5 vs., S.34° 32'W. 587.3 vs., S. 36° 09'W. 288.6 vs., S.38° 53'W. 1067.2 vs., S.41° 11'W. 347.3 vs., S.34° 58'W. 587.3 vs., S57° 11'W. 444.5 vs., (point in road from which a stone mound marked M.S.C. Dod, $\frac{147|142}{148|141}$ Block D10, bears N.54° 59'W. 38.5 vs., said stone mound being 5900.1 vs. South and 22243.5 vs. West of Beginning or 5757.1 vs. South and11323.3 vs. West of Rock mound marked NW72 & NE73 B1k D10) continuing with road S.81° 13'W. 518.4 vs., S.79° 35'W. 702.7 vs., S.68° 01'W. 496.1 vs., S.85° 15'W. 672.3 vs., S86° 00'W. 688.5 vs., N.51° 24'W 830.2 vs., N.52° 17'W. 613.6 vs., N.51° 40'W. 981.0 vs., N.51° 42'W. 693.6 vs., N.43° 29'W. 336.1 vs., N.55° 45'W. 151.9 vs. point in South line of road; Thence S.0° 21'E. 1724.3 vs. to a point (Rock mound marked M.S.C. Dod set for B1kD11 $\frac{18|171}{19|172}$ B1kD10 bears South 3.8 vs. and West 0.5 vs., being 5940.8 vs. South and 27958.0 vs. West from Beginning or 5797.8 vs. South and 17037.8 vs. West of Rock mound marked NW72 & NE73 B1kD10) Thence S.89° 39'W. 1669.6 vs.; Thence S.89° 01'W. 2135.4 vs. to a point (Rock mound marked M.S.C. Dod set for $\frac{16|17}{21|20}$ BlockD11 bears N.8° 22'E. 21.3 vs., said Rock mound being 5962.7 vs. South and 31759.1 vs West of Beginning or 5819.7 vs. South and 20838.9 vs. from rock mound marked NW72 & NE73 B1kD10) Thence N.89° 43'W. 1879.4 vs. a rock mound marked M.S.C. Dod set for $\frac{15|16}{22|21}$ B1kD11.(Said Rock mound being 5974.4 vs. South and 33659.6 vs West from beginning or 5831.4 vs. South and 22739.4 vs. West of Rock mound marked NW72 &NE73 B1k D10).

Thence back to point 0.5 vs. East and 3.8 vs. North of rock mound marked M.S.C. Dod set by James P. Dod for corner B1kD11 $\frac{18|171}{19|172}$ B1kD10.

Thence N.0 21'W. at 2041.2 vs. a point (a Rock mound 9 vs.E. of N.&S. fence, known as a Hope Corner, marked SW.170; bears N.83° 31'W. 70.9 vs., Said rock mound being 3894.0 vs, South and 28040.9 vs. West of Beginning or 3751 vs. South and 17120.7 vs. West of Rock mound marked NW72 & NE73 B1k D10) continueing same course N.0° 21'W. at 1668.6 vs. more or 3709.8 vs. in all a point (a Rock mound 1 vs E. of N. & S. Fence known as a Hope Corner, marked NW. 170; bears N.21° 26'W. 156.9 vs., said Rock mound being 2081.2 vs. South and 28037.5 vs. West of Beginning or 1938.2 vs. South and 17117.3 vs. West of Rock mound marked NW72 & N.E.73 B1k D10) continueing same course N.0° 21'W. at 2112.1 vs. more in all 5821.9 vs; Thence S.40 53'W. 55 vs to a rock mound set by Hope for NE. Cor. B1k D-11 and NW. Cor. B1k D-10, the NE. corner of Fence running South and West is 77 vs South and 1 vs. East (said Rock mound being 156.8 vs. South and 28029.0 vs. West of Beginning or 13.8 vs. South and 17108.8 vs. West of Rock mound marked NW72 & NE73 B1k D10. Up to this point it seems apparant that the corners found were attempted to be set from the Rock mound marked NW72 & NE73 B1kD10, rather than the Rock mound in West Line Block A2, and it is possible that Hope calculated his South Corners of Block 153½ on this line.

counter 73320

Thence S.89°39'W. at 2247 vs. cross fence running North at from 3900 vs. to 4600vs. cross Canyon and headers, where at approx. 4440 vs. in canyon fence from North corners approx. 50 vs. North and runs West, continuing S.89°39'W., same count, at 5700 vs. in Little Brindle Canyon, search for marker for SE.Corner Block "S" within a radius of 300 vs. but find none; fence running E. & W. crossing canyon is 55 vs. North, however on rim of canyon some 560vs. West fence is 150 vs. to the North, continuing S.89°39'W. Same Count at 11473.7 vs. set a point (This point is 226.8 vs. South and 39502.5 vs. West of Beginning) search for Lower S.W. Corner Block "S" within a radius of 300 vs. but find nothing; Thence N.26°55'W. 4302.1 vs. set a point (This point is 3609.2 vs. North and 41450.0 vs. West of Beginning), search for upper SW. Corner Block "S" within radius of 300 vs. but find nothing, being told of and old corner on a hill one mile to West decide to connect with it. Thence S.89°39'W. 2254.8 vs. set a point (Rock mound marked NW.14 bears S.27°02'E. 185.3 vs. being 3430.3 vs. North and 43620.6 vs. West of Beginning. This out of line with everything so decide to continue West to pasture fence between Shelton and Cox and North along fence to Rock Mound set by James P. Dod for N.E. Corner of Sur. 44 Block 343.) Thence continueing same course S.89°39'W. 3186 vs.more or 5440.8 vs. in all; (Search for markers on James P. Dod line, no luck) Thence N.42°10'E. 341.2 vs. point on West side of fence (This point is 3828.6 vs. North and 46661.8 vs West of Beginning) Thence along fence N.0°37'W. at 231 vs. cross fence,334.1 vs. in all, N.0°09'W. 530.6 vs., N.0°25'W. 1755.3 vs., N.0°27'E. 613.6 vs., N.2°13'E. 307.8 vs., N.1°58'E. 233.6 vs. set point in North line Survey 4 Block D-12 (Said point being 7603.2 vs. North and 46654.8 vs. from Beginning); continueing same course N.0°58'E. 23.6 vs., N.0°21'E. at plus 55 vs. Rock mound marked SW. ⊢ 9.5 vs. West. (said Rock mound being 7681.8 vs. North and 46663.5 vs. West from beginning) at 129.6 vs. in all point, N.1°26'W. 410.1 vs., N.0°48'W. 637.9 vs., N.0°15'W. 567 vs., N.0°02'W. at plus 30 vs. Rock mound marked P.C.O. B.C.O. 24M S F. (said Rock mound being 9401 vs. North and 46674 vs. West of beginning) at 245 vs. in all point, Thence N.72°18'W. 269.3 vs. Rock mound set by James P. Dod for NE. Corner Survey No. 44 Block 343. (Said rock Md being 9698.1 North and 46931.6 vs W. of beg.

Thence back to point set in North line Survey 4 Block D-12 (said point being 7603.2 vs. North and 4654.8 vs. from beginning), Thence West 343.2 vs. set rock mound marked N.E.3 B1kD12 (said rock mound being 7603.2 vs. North and 46998 vs. West of Beginning) Thence continue West 1900.8 vs. more set rock mound marked N.E.3 B1k D-12 (said rock mound being 7603.2 vs North and 48898.8 vs. West of beginning, in sighting East hit fence running E. & W. and continue with same East); Thence South 1900.8 vs. set rock mound marked SW.3 B1k D12 (said rock mound being 5702.4 vs. North and 48898.8 vs. West of beginning.) Thence East 1900.8 vs. set rock mound marked SE.3 B1k D12 (said rock mound being 5702.4 vs.North and 46998 vs. West from beginning) Thence North 1900.8vs. back to NE3 B1kD12; Thence East 1900.8 vs. set Rock mound marked NW.5 B1k D-12 (said rock mound being 7603.2 vs. North and 45097.2 vs. West from beginning) Thence continue East 1900.8 vs. more set Rock mound marked NE.5 SW1 B1kD12 (said rock mound being 7603.2 vs. North and 43196.4 vs. West from beginning) Thence South 1900.8 vs. set Rk Md. marked SE5 B1k D-12 (said rock mound being 5702.4 vs. North and 43196.4 vs. West of Beginning); Thence West 1900.8 vs. set rock mound marked SW.5 B1k D12 (said Rock mound being 5702.4 vs. North and 45097.2 vs. West from beginning) Thence North 1900.8 vs. back to rock mound marked NW.5 B1k D12. Thence East 1900.8 vs. back to rock mound marked NE.5 SW1 B1k D12 Continue East 1900.8 vs. more set Rock mound marked SE1 B1kD12 (Said rock mound being 7603.2 vs. North and 41295.6 vs. West from beginning) Thence North 1900.8 vs. set Rock mound marked NE1 B1k D12 (said rock mound being 9504 vs. North and 41295.6 vs. West from beginning) Thence West 1900.8 vs. set rock mound marked NW1 B1k D12 (said rock mound being 9504.0 vs. North and 43196.4 vs. West from

NW?

counter #3321

beginning) Thence South back to rock mound marked NE5 SW1 Blk D-12

Thence to Rock mound set by James P. Dod for NE. Corner Survey 44 Block 343 and run a traverse to Maxan Springs Corner. As Block 343 was located from the West, for a better understanding and setting out of the lattitudes and departures I shall retrace my traverse in reverse.

Beginning at the Maxan Springs Corner (Locally known as the chimney corner) a Rock mound marked NW14 (A rocky peak bears N.2°E., old chimney bears S.34° W. 70 vs.) Thence S.26°32'E. 167.1 vs., S.79°02'E. 475.9 vs., S.76°00'E. 268.3 vs., S.79°12'E. 708.8 vs., S83°08'E. 688.5 vs., S.66°51'E. 420.2 vs., N.74°20'E. 253.1 Vs., N.62°37'E. 212.6 vs., N47°47'E. 313.9 vs., S.80°53'E. 268.3 vs., N.79°22'E. 303.7 vs., N.88°01'E. 155.9 vs., N82°51'E. 232.9 vs., S.73 35'E. 470.8 vs., S.84°37'E. 288.6 vs., N.56°25'E. 506.2 vs., N.40°30'E. 151.9 vs., N.1°12'E. 354.4 vs., N.81°29'E. 516.4 vs., N.76°22'E. 911.2 vs., N.65°04'E. 542.7 vs., N.65°06'E. 288.6 vs., Rock mound "A" corner $\frac{22|21}{25|26}$ Blk 244 (971.2 vs. North and 7600.4 vs. East of "Chimmy Corner") Thence N. 70°44'E. 263.2 vs., N.65°53'E. 729 vs., N.70°49'E. 972 vs., N.65°11'E. 475.9 vs., N.70°24'E. 729.0 vs., N.79°10'E. 840.4 vs., N.83°24'E. 729 vs., N.88°23'E. 465.7 vs., N.59°51'E. 678.4 vs., N57°06'E. 617.6 vs., N.53°46'E. 597.4 vs., N.64°19'E. 577.1 vs., N.79°51'E. 293.6 vs., N.88°37'E. 536.6 vs., S.81°47'E. 577.1 vs., S.77°46'E. 359.4 vs., S.78°23'E. 739.1 vs., N. 1194.8 vs. to Rock Mound marked "E" (Said rock mound being 4606 vs. North and 17144.1 vs. East of Maxan Springs or "Chimney Corner")

Thence from Rock mound "E" South 3553.9 vs. point, Thence S.8°10'E. 98.2 vs. Rock mound, ground rock marked with cross evidently set for corner 17 and 30 Block 244 $\frac{17|}{30|}$ (said rock mound being 954.9 vs. North and 17158.0 vs. East of Maxan Springs or "chimney" corner)

Back to Rock mound "E", Thence South 3553.9 vs., S.16°38'E. 97.2 vs., S.17°54'E. 98.2 vs., S.7°34'E. 50.1 vs. to Rock mound under fence, said to be identified by James P. Dod as the "B3" corner, I saw no evidence of "B3" markings. (This Rock mound is 815.8 vs. South and 17208.1 vs. East of Maxan Springs or "Chimney Corner").

Back to Rock mound "E" Thence N.36°49'E. 398.9 vs., N.45°E. 2404.7 vs. to Rock mound marked "7", evidently set for SW. Cor. Sur. 7 Block 157 (Said rock mound being 6625.7 vs. North and 19083.5 vs. East of Maxan Springs or "Chimney Corner") Thence N.87°45'E. 465.8 vs., Thence East 5239.7 vs. (From which a Rock mound set by James P. Dod, marked M.S.C. bears S.10°40'W. 22.3 vs.- said Rock mound marked M.S.C. is 6622.1 vs. North and 24784.5 vs. East from Maxan Springs corner--Another Rock mound marked SW.10 bears N.71°40'W. 212.6 vs., said rock mound marked SW.10 being 6710.9 vs. North and 24586.8 vs. East of Maxan Springs Corner) Thence S.45°E. 5328.8 vs. to Rock mound set by James P. Dod for N.E. Cor. Survey 44 Block 343 (Said Rock mound being 2876 vs. North and 28556.6 vs. East of Maxan Springs or "Chimney" corner).

The run to the Maxan Springs Corner was made, not with the idea of questioning the James P. Dod location of the N.E. Corner of Survey 44 Block 343, but rather to determine the ammount the East line of Block 343 is in conflict with Block D-12, also the conflict of the Cox drift fence with Block D-12.

There can be little doubt as to the proper location of the Maxan Springs Corner; as a Mr. Terry Sheely, a man of about sixty years, who has lived in the neighborhood all his life and on whose land the corner is, pointed it out to us as the "Chimmey" corner; also Mr. A. A. Shelton, a man of 48 years and a rancher on Blocks D-11 and D-12, who was with James P. Dod in Aug. 1930 on survey, declares it to be the corner Dod started from on his survey.

The remains of a broad deep hearth, with fire blackened stones, are there at the proper course and distance. The peak is distinct and alone, approx. 1000 vs. away, altho not needle pointed, but distinctly cone shaped with a more or less rounded top of about 1½ degrees across as measured from Rock mound.

The springs are up the draw to the Southwest but have not run for years

counter 13322

except occasionally during very wet spells, and are at present tapped with a ninety foot well, sunk by Mr. Sheely, furnishing a generous supply of water.

A study of the lattitudes and departures set out in this report will show a close check, with the James P. Dod Survey, on the East and West distances but not so close on the North and South distances, due to difference in variation used; However in distances between Rock mounds in place on the ground, we are also in close check with him on North and South distances.

A further study of the lattitudes and departures indicate the variation of 11°15'E. fits very closely, as it places the "A" corner (4 miles East, ½ mile North) 20.8 vs. too far North and the "7" corner, called "F" corner by James P. Dod, (10 miles East and 2½ miles North) 27 vs. too far South, and the Rock mound evidently set for SE. Cor. Sur. 17 Blk 244 (9 miles East and ½ mile North) only 3.5 vs. too far north, while the "E" Corner is 146 vs. too far South. To change the variation so that the parallels of lattitude would run thru both the Maxan Springs Corner and the "A" corner, a change of 9½ minutes would place the Rock mound evidently set for SE. Cor Sur. 17 Blk 244, 23 vs. ~~xxx~~ too far South; The "E" Corner 172.4 vs. too far South and the "7" Corner 56 varas too far South.

Using a 11°15'East variation the line from "E" to Rock mound evidently set for SE. Cor. Sur. 17 Blk 244 is S.0°13½'E., the line from "E" to "B3" is S.0°58½'E. from the rim of header to "B3" a distance of 50 vs. the drop is 20 vs. It appears to me that a rock mound would hardly stand up under a cloud burst on such slopes as that, However Mound "E" and Mound "B3" were apparently one run from the other or vica versa, checking within 10 varas of two miles, but why the change of some 58½ minutes in meridian. My experience has been the surveyors in years past, where they were careful, did run true Meridians.

Where ever reference were made to Corners or Rock Mounds set by James P. Dod they were identified by A. A. Shelton who was with Dod as chainman on Survey in Aug. 1930.

Very truly yours,

B. M. Taber

Licensed Land Surveyor
of Texas -

counter #3323

San Antonio, Texas
Aug. 16, 1935

Mr. Carl von Blucher, Chief Draftsman
General Land Office
Austin, Texas

Dear Sir:

In compiling my report to the Commissioner from my field book, while checking against my map I find that I made an error in transfering from my lattitude and departure sheets to the tabulation on my map.

In the tabulation of Coordinates, from Rock Mound set by R. S. Dod in East line Block A-2. The left hand column, 24th line

which reads: N.0° 25'W. 1733.8 1733.8 12.7

should read: N.0° 25'W. 1755.3 1755.3 12.7
The totals on the 28th line will verify this.

Please change this on the tracing for me. Shall perhaps see you on the 26th or 27th.

Very truly yours,

B. M. Haberer

B. M. Haberer

RECEIVED
AUG 17 1935
REFERRED TO MAP

counter 13324

August 22, 1935

Mr. Bruno M. Haberar,
1105 W. Mulberry St.,
San Antonio,
Texas.

Dear Sir:

This acknowledges receipt of your report dated July 15, 1935 which came to this department on August 19th. It concerns certain surveying done by you in Terrell and Brewster Counties in the vicinity of Surveys 1, 3 and 5, Block D12.

I wish to thank you for the courtesy in supplying this information to the General Land Office.

Yours very truly

Commissioner

Blucher/k

counter 13325

MISCELLANEOUS 2

D.B. SCOTT REPORT
BREWSTER CO.

NO 59 AA

counter 43326

D. B. SCOTT

LICENSED STATE LAND SURVEYOR

San Antonio, Texas,
November 4, 1939.

Rt 9 - Box 1504

Mr. Bascom Giles,
Commissioner of General Land Office,
Austin, Texas.

Dear Sir:-

Under date of October 29th, 1939, I attached to a print of a survey made by me of Surveys 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25 and 27, in Block M-2, in Brewster County, Texas, statement over my signature of the manner in which said survey was made, and the details of same, and in the last paragraph referred to the location of the Southwest corner of Survey No. 1 in said block. I note that through stenographic error note is made that the pile of rocks that I found at the Southwest corner of Survey No. 1 is the only point where the meanders of the river, through Surveys Nos. 1 and 2, would fit General Gano's original notes. This 2 is an error, and should be 3. I would appreciate it if you would make the correction on the original which has been sent to you.

Yours very truly,

D. B. Scott

Licensed State Land Surveyor.

RECEIVED
NOV 7 - 1939
REFERRED TO MAP

RECE
NOV 7 - 1939
REFERRED TO

coente143327

D. B. SCOTT

LICENSED STATE LAND SURVEYOR

San Antonio, Texas,
October 29th, 1939.

Mr. Bascom Giles,
Commissioner of General Land Office,
Austin, Texas.

Dear Sir:-

Enclosed please find map showing all of my work done in surveying Surveys 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25 and 27, in Block M-2, in Brewster County, Texas, for the J. C. League Estate in February, March and April, 1931. This map shows all of my triangulations and the methods by which I arrived at the locations of the different points.

One of my men employed in Sanderson recognized the bends of the river from the working sketch sent by the Land Office, and took me to the bluff, where I recognized the meanders of the river shown by Mr. Gano's fieldnotes at the Southwest corner of Survey 19, and the Southeast corner of Survey 21, from which he, Mr. Gano, gives a bearing on a waterfall which falls into a basin resembling a horse-shoe.

When I started my survey in 1931, I bought 400 feet of rope and took my party down the bluff at this point, and found the waterfall described by Mr. Gano. There was not any water falling at the time I was there, but the water falling over the bluff at the mouth of the canyon had washed out a basin in solid rock some 10 or 15 feet wide, which very much resembled a horse-shoe. Placing the Southeast corner of Survey No. 19 by the bearings given in the original fieldnotes from this waterfall, I found it to fit the meanders of the river given in the original fieldnotes.

I then set a flag on a sand bank on the Rio Grande, as shown in the sketch, and we then climbed out of the canyon to camp. The next day I made a triangulation from the top of this bluff to this flag, as shown on the map or working sketch. I then went up near the Northwest corner of Survey No. 23, where I found comparatively level ground and laid off a base line, which is also shown in the working sketch, and calculated the triangle to the flag I had left on the bluff. I then used one of the sides of this triangle as a base for my next triangle, and continued my triangulations as is plainly shown on my working sketch. By placing the Southeast corner of Survey No. 1 from a sharp angle given in the

V'

counter 43328

original fieldnotes at a sharp bend of the river, which I could identify within a few varas, I found a shortage between this Southeast corner of Survey No. 1 and the Southeast corner of Survey No. 19, which I have prorated in the various surveys between these points.

I then ran the course and distance from Mr. Gano's original notes from this point to the Southwest corner of Survey No. 1 and placed a flag. When I came up to this point I found a mound of rocks just one vara from the point I had set, which was 5 varas below an old trail called for in the original fieldnotes. I followed this trail down to the river and found there had been considerable work done on it by hand-placed rocks for a retaining wall for the trail. I took this point as Mr. Gano's starting point for Block M-2. I think that the accompanying map will explain all of my calculations, and they may be checked by any surveyor who so desires. On this work I carried a constant course, turning my angles for course with a vernia and read the angles to minutes. I calculated these triangles by log rhythms and closed each triangle by latitude and departure.

I placed the concrete monuments on the North corners by coordinates from the flag shown on the map at angle points of triangles.

I used a variation of twelve degrees which fits Mr. Gano's courses down the river, but I only used the needle in establishing the first course of my constant course and of course, using the needle as a check in all of the courses. I think that the enclosed working sketch will explain what I did on the ground much better than I could explain in a letter.

I then ran a stadia line down the river, using needle courses, but checked at several points by triangulations to flags I had set on the bluff above. The greatest error I found in the river meander was 14 varas, and corrected these errors at the points that I could see my flag above, by triangulations.

The pile of rocks that I found at the Southwest corner of Survey No. 1 is the only point where the meanders of the river, through Surveys Nos. 1 and 2, would fit General Gano's original notes. If this point were moved in any direction, it would not fit Gano's river meanders.

Yours very truly,

D. B. Scott

Licensed State Land Surveyor.

V2

Counter 43329

MISCELLANEOUS 2

D.B.SCOTT REPORT
BREWSTER COUNTY
NO.59CC

counter 43330

D. B. SCOTT

LICENSED STATE LAND SURVEYOR

San Antonio, Texas,
October 29th, 1939.

Mr. Bascom Giles,
Commissioner of General Land Office,
Austin, Texas.

Dear Sir:-

Enclosed please find map showing connections made by Mr. H. R. Gard, licensed State Land Surveyor, former County Surveyor of Brewster County, Texas, and myself, from the Southwest corner of Block G-1 to the Southwest corner of Survey No. 1 M-2 in January, 1939.

When Mr. Gard and I went down to do this work, we recognized Stairway Peak from the road to Black Gap. We stopped on this road where the bearing given by Mr. Gano from the Southwest corner of G-1 to Stairway Peak should cross said road. Scaling the distance on the topo sheet from this road to where the Southwest corner of Block G-1 should be, we ran a stadia line directly towards said Peak. After getting our distance we stopped and looked for the corner. About 50 or 60 varas from the point we had set, we found a mound of rocks 2½ feet high, which Mr. Gano had called for. On this pile of rocks was a flat rock marked s w cor. Block G-1. We had both Hunnicut's and Gano's fieldnotes with us and we found that all the bearings checked from this point. We then ran North 1900 varas and found another pile of rocks and checked all of the bearings given by Hunnicut and Gano for the Northwest corner of Survey I, Block G-1. We took an observation on Polarus and found that the line between these two piles of rock was North no degrees 43 minutes West by the true course. From this Northwest corner we turned South 74 degrees and 30 minutes East for 2940 varas, which was the course given by Gano.

From there we turned to Gano's third course North 62 degrees 45 minutes East 1560 varas, which line went through Black Gap, which was the most feasible line for a surveyor to chain.

The second and third courses of Gano ran over the smoothest lines that could be had for chaining. At the end of his third course, however, he turns a new course, which would throw him upon a high point, and from there on to Maravilla Canyon I have platted Gano's notes on a tope sheet, and he seems to have put his points for triangulation and not chaining. The different points were on high hills where they could be seen from each other and ran over some very rough country for chaining.

counter 73331

From the end of Gano's third course we made our traverse by stadia to the mouth of Maravilla Canyon, and when we got to the mouth of Maravilla Canyon we could see Stairway Peak, and found the course to be South 87 degrees and 30 minutes West. We made a triangulation from the mouth of Maravilla Canyon to Stairway Peak, but could only get a base line of 300 varas where we could see the Peak at both ends of the base line. I therefore thought that the calculated distance from our stadia line was closer than the triangulated distance, and therefore used the stadia line for distance. We then triangulated the line from the mouth of Maravilla Canyon to the Southwest corner of Survey I, M-2, and as the course and distance check very closely with the distance scaled on the tope sheets I believe we are within 50 varas of the relative position of these three points: The Southwest corner of Block G-1, mouth of Maravilla Canyon, and Southwest corner of Survey I, M-2.

Hoping that this report will be satisfactory to you, I remain,

Yours very truly,

D B Scott

Licensed State Land Surveyor.

counter 43332

Brewster Co. Blk. 9K 1/20

RECEIVED
NOV 4 - 1939
GENERAL LAND OFFICE

counter 43333

MISCELLANEOUS 2

M. P. BALL REPORT.

BREWSTER COUNTY.

NO 60.

counter 73334

Report of a survey covering a part of the North half of Brewster County and the Meyers or Painted Rock Spring Section in Terrell County

Purpose of Survey: - To locate the original survey corners in this area in their true positions as called for in the field notes on file in the General Land Office at Austin, based on the recognized 1927 North American Datum as set forth by the United States Coast and Geodetic Survey; for use in locating future surveys and to better allocate the conflicts that are depicted by the Official Map of Brewster County.

Data for Survey: - All of the records now on file in the General Land Office, pertaining to this area, including all of the field notes, connecting lines, and sketches of the original surveyors supplemented by a composite topographic map covering this area, made by the U. S. Army Engineers in cooperation with the U. S. Geological Survey; also all of the descriptions, positions and azimuths pertaining to the triangulation stations as set by both the U. S. Geological Survey and the U. S. Coast and Geodetic Survey for base work in this area.

For the Field Work a 20" Gurley Transit was used along with a standardized 100 ft. steel tape and rods and pins and other equipment necessary to secure results that conform to the standards of the above mentioned Federal agencies for third order triangulation and traverse.

As an employee under his direction, I was instructed by Bascom Giles, Commissioner of the General Land Office, to make a study of all available survey records pertaining to the northeastern portion of Brewster County and to locate the original survey corners according to their respective field note calls that they might be of more value in definitely locating future surveys in this area and to better allocate the conflicts that are depicted by the Official Map of Brewster County. I was to accomplish this by correlating the necessary amount of office and field work that would be required to make the map conform to the features as found on the ground.

Considerable effort was spent in trying to locate some of the people who were in contact with the original surveyors and who might have records that would be of some assistance in reestablishing the original corners, but we were not able to locate any data that is not on file in the General Land Office at Austin. I plotted all of this data on a map using the U. S. Geological Survey topographic quadrangle sheets as a base and identifying the calls from the topography and information of later surveyors. I assembled the blocks according to their respective survey dates and saw that these blocks did not conform exactly as the original surveyors had doubtless calculated they should. I began and plotted each individual connection line, of which there are several, in its respective position. From this information it is evident that many inconsistencies exist between the results obtained by the original surveyors and even between the results obtained by all of the recent resurveys using modern equipment and methods.

From these results, I deducted that these inconsistencies were brought about by the difficult terrain and ever changing topography which makes it very impracticable to attempt extensive traversing in this locality. I confirmed this deduction by a reconnaissance survey over the area involved which required several days to merely view the more assessible points in question when escorted by those schooled in

counter 3335

ranch life and accustomed to that type of terrain and who are familiar with each and every trail in the entire area.

Having completed my reconnaissance, I returned to Austin and assembled all necessary data and equipment and returned to Brewster County to make connections between all of the old original survey corners, from which the intermediate surveys were constructed. We did this by a system of triangulation using as basic points only those triangulation stations set and accepted by the U. S. Geological and U. S. Coast and Geodetic Surveys and accepting only true azimuths with the needle as a check.

With the assistance of men furnished by Messrs. Asa Jones and Roy Stillwell, I proceeded to mark all of the available triangulation stations by using substantial flags that could easily be seen for a distance of several miles.

Having flagged all of the triangulation stations, we drove to Stairway Mountain and identified a rock mound on its northeast slope as the one called for by R. S. Hunnicutt in his field notes filed in the Land Office December 30, 1908. At the present time, this mound is some two feet high and is located in the west edge of a small ravine and from which the highest vertical ledge on Stairway Mountain bears S 19° 09' W 1220 varas.(This ledge or sheer face being just west of the highest peak on the mountain, but being the only definite point at which a sight can be taken.) A definite ledge on top of Iron Mountain bears N 0° 48' E some three miles "X" chisled in flat top of embedded boulder 12½ feet across top and about 5 feet high bears S 34° 51' E 32 varas. We set a flag in this mound and made a diligent search over the entire eastern slope of that part of the mountain to the Southeast for other mounds or locations but found no place other than the above mentioned mound where the calls of Gano's original field notes could be made to fit. From here we went to where Maravillas Creek enters the Rio Grande River and made a search for a rock mound that Jno. T. Gano calls for in his original field notes as follows: about 300 varas below and northeast of the mound of Maravillas Creek. At the present time the banks of the river and creek are vertical rock ledges and show no signs or means of erosion. There is a flat sandy soil extending from the west bank of the river below the mouth of the Creek to the westernward for several hundred varas. I could find no signs of a rock mound in the vicinity of the one called for in Gano's field notes. We did flag the bluff bank intersection of the Creek and River and by later triangulation found this to bear S 89° 18 E 21,521 varas compared to Gano's call of S 89 3/4° E 21,065 varas. From this point, we went to Bullis Gap and went down Reagan Canyon to its intersection with the Rio Grande River. Jno. T. Gano calls for a stone mound in this area as follows: a rock mound on a rocky point on the bank of the Rio Grande River, on the lower side of the mouth of a canyon and 5 varas below a calvary watering trail, which enters the Rio Grande from a deep canyon, said mound being 46,687 varas S 66° 08' W from a stone mound on the right bank of San Francisco Creek at its junction with the Rio Grande River. I found the lower side of Reagan Canyon to be a rough rocky bluff bank that extends out to the sandy bank of the River and the Canyon to have a flat bottom width of some thirty varas where one coming down to the waters edge could easily ride or walk and any part or all of it can now be used as a trail to reach the waters edge. On a rocky point of the river bank and just below the bluff bank of this canyon, I found a definite stone mound about 1 foot high made of flat stones that bear no markings. Going up this rocky ridge and bearing away from the river, I found two other similar stone mounds which are on higher ground and away

counter 43336

from any probable high water, but containing no marked stones. I searched the river bank above and below this canyon and the canyon about one-half mile up stream, but found no other stone mounds. Searching further, I found a 4" X 4" concrete post protruding about 2 feet which is 497 varas N 13° 19' E from the first of the three mounds mentioned above, but this post is up on the side of the mountains some 150 varas from the bluff bank of the river and at the head of a small blind canyon that leads down to the river. Several flat stones have been placed about this post, but I could find no evidence of a trail from here to the waters edge and at the present time I judge it very impracticable to descend to the water from this point. Leaving Reagan Canyon, we drove to the high bank above the Rio Grande River where San Francisco Creek intersects the river canyon and on the large flat rocks forming this cliff and overlooking the River and Creek, we found a rock mound some 18" high built around a large flat stone set almost vertical. In the bedrock near this mound has been chisled the letters B.C.P.Pr.Co. The letter A chisled in bedrock bears S 67° 33' W. 2.7 varas and the letter T chisled in bedrock bears N 17° 14' W. By later triangulation, this mound was found to bear N 64° 25' E 45,564.7 varas from the rock mound on the river bank at its junction with Reagan Canyon.

We drove to a place on the west bank of Maravillas Creek about one mile northwest of Maravillas Gap and orienting by use of our topographic map, we located a rock mound on the west bank of the creek from which U.S.G. S. BM stamped 3343 bears N 69 50E, 1288.5 varas, metal wind mill bears N 33° 25' W about 250 varas; rock cairn on top of lava cone distant about 6½ miles bears S 43° 41' E, peculiar shaped peak in range of mountains bears S 08° 30' W and the east end of Sierra Santiago peak bears S 39° 01' W. The calls given in the original field notes of C. E. Miner filed in the Land Office on July 25, 1878, for survey 1, block 21, call as follows: a rock mound on the S. W. bank of Creek from which Sierra Santiago bears S. 38¼° W about 7 miles, bunch of willows bears 4 3/4' W. 126 varas; the largest of 3 cottonwoods bears N 5 3/4° W 2400 varas and a water hole in bed of Creek bears S. 36¼ E 40 varas. In 1889 W. D. Mabry filed corrected field notes on this same survey which read as follows: Beginning at a Rock Mound on the southwest bank of Maravillas Creek whence a large water hole now dry bears S 39° E 40 varas and east end of Sierra Santiago bears S 39 3/4 W about 7 miles and the largest of three cottonwoods bears N 5 3/4 W and a peculiar shaped peak in range of mountains east of Santiago peak bears S 9¼° W. At the present time, I find no sign of a water hole in the bed of the creek and there are no willows along the creek that can be made to fit the above call. At a distance of about a mile upstream, there are numerous cottonwoods of considerable size, but none of them fit the calls as given in these field notes.I could find no other rock mounds in this vicinity and as this mound fits the calls of Mabry's corrected field notes, I accepted it and found its true position by triangulation.

We drove to a switch on the G. H. & S. A. Railroad known as Maxan and from the field notes filed in the Land Office in October, 1881, by H. A. Thompson, reading as follows: beginning at a stone mound from which a rocky round mountain bears N 2 E 200 varas and an old chimney bears S 34° W 70 varas; we located our position on the ground. About one-half mile southwest of Maxan, we could see a very prominent isolated cone shaped mountain with large boulders covering its sides from top to bottom. It is so different from any thing I had ever seen it stands out from all of the surround-

ing hills. We proceeded to the mountain and attempted to set the called distance and bearing, but this put us just below a bluff line and into a creek bed. Continuing in the direction of the bearing given in the field notes, we crossed the creek and just above the bank we came upon the old charred ruins of a chimney. From these ruins and a large stone near the center marked "X", we set off the called bearing and distance and found a 3/4" iron pipe driven flush with the ground and surrounded by stones, the largest one of which was marked N. W. Cor. 14. From this pipe the "X" on the charred ruins bears S 36° 03' W 70 varas and the rocky round mountain bears N 1° 22' E 890 varas. I could locate no other mounds in this vicinity so we found the position of this pipe by triangulation.

From here we drove to Dryden and about 8 miles northeast of Dryden to the place known as Painted Rock, or Meyers Spring, situated on Meyers Creek. Approaching this place from a northern direction, we came into the flat slope of the creek and up to a small stream. On the opposite (south) side of the creek, we were facing an overhanging rock bluff bank that rises fifty feet or more. On the rock wall under the cliff were many Indian Paintings. Near the west edge of these paintings stands a water tank erected of cut stones, the cornice of which is carved 1901. Just above this tank and under the overhanging ledge is a large hole in the rock from which water seeps and runs into the tank below. I was informed by old settlers in this locality that water runs from this hole during the wet seasons and merely seeps at other times. Going out of the creek bed and out on top of the overhanging ledge, we found a fence coming in from the southeast. We attempted to locate our point just over the hole in the bluff below and used this point as a base to construct Section 335, the field notes of which were filed in the Land Office in January, 1879 and read as follows; Beginning at a cedar stake and stone mound N 45° E 1344 varas from Painted Rock Spring; Thence S 1900 varas to a cedar stake and stone mound; Thence W 1900 varas to a cedar stake and stone mound; Thence N 1900 varas to a cedar stake and stone mound; Thence E 1900 varas to the place of beginning. We confirmed our position of the spring by a traverse check to the S.W. corner of Survey 335, where we find a fairly old stone mound and one not so old, both containing marked stones.

We located the position of the spring by triangulation and returned to the country around the northern part of Block G-1 and located the N. W. corners of Block G-1, from their respective field notes, as set by R. S. Hunnicut and W.L.Rider. We also located a point referred to by several late surveyors as Dodd's "B" corner, identifying it by W. L. Rider's calls in his field notes for Survey 44, Block 336 and connected this to a rock mound nearby.

We determined the positions (Latitude and Longitude) of all of the points mentioned above by triangulation using the U.S. Geological and U. S. Coast and Geodetic Survey Stations as a base. These points were used to form a base map upon which the blocks and surveys were constructed as described herein.

All streams shown thereon were transferred from the topographic sheets of the U. S. Geological Survey and represent only the center lines of same without regard for widths or bank slopes.

Since the Rio Grande River forms the eastern boundary and a limit on the river surveys, they have been laid in as follows:

Block B-1: Survey 1 was constructed from a stone mound on the bank of the Rio Grande River just above its intersection with Reagan Canyon giving the north line its original field note call E-W; then going south the field note call of 950 varas

COUN19338

and East until the river is reached disregarding call distance. Survey 2 begins at the point where the south line of Survey 1 reaches the river and each succeeding survey is constructed in the same manner from Survey 1-20 inclusive. Survey 21 is located according to its original call and begins at a point about 300 varas below the mouth of Mavarillas Creek and is constructed along with the remaining surveys in this block in the same manner as the first 20 surveys mentioned above.

Block G-18: Survey 95 begins, according to the original field note call, "at a rock mound on the N. W. Bank of the Rio Grande and on a high bluff just above the mouth of San Francisco Creek," and is constructed with the north line taking its field note call, then going south, west and south, respectively, according to the field notes and back east to the river disregarding the call distance. Survey 96 begins at this new point on the river and the succeeding surveys, through Survey 102, inclusive, are constructed in the same manner.

Block M2: Surveys 28 and 26 were constructed from the point where the south line of Survey 102, Block G-18, reached the river and in the same manner. The west line of Survey 1, Block M-2, was constructed from the same rock mound as mentioned in Block B-1, at the mouth of Reagan Canyon, according to its call distance. A straight line was then drawn from this point to the west end of the north line of survey 26, and the line was divided into 26 equal parts to form a proportionate E-W part for each survey in Block M-2. The surveys 1 to 27, inclusive, were constructed in the same manner as the above mentioned river surveys using the E-W distance as determined from the divided line, or 1282 varas.

T. & St. L. Blocks: The surveys in the T. & St. L. Blocks 225 to 237, inclusive, were constructed according to the findings of R. S. Hunnicut. Since Hunnicut found no monuments east of the fifth tier of surveys in Blocks 226, 231, 234 and 239, all surveys east of this line are constructed on an extension of his E-W lines thus allowing the N-S distances to vary as shown but holding the E-W distance to 1900 varas as called in the original field notes. Other T. & St. L. Blocks shown were constructed from the original field notes and are regular sections. Block 21, from which the T. & St. L. Blocks were laid in, was also constructed according to the original field notes and contains only regular sections.

Block G-1 and the other "G" Blocks that the original surveyor constructed from his position for the S. W. corner of Block G-1; namely, Blocks G-13, G-14, G-15, G-18, G-20, G-21, G-22, and G-24 were built according to the calls in the original field notes, and are regular sections based on his original corner.

The D-Blocks, namely, D-10, D-11 and D-12, were constructed from the position of the Meyers, or Painted Rock Spring Survey in Terrell County and according to the original field notes making them regular surveys based on course and distance.

The remaining blocks coming in from the north, namely, Blocks G, 244, 334, 336, 343 and "W" were constructed from the Maxan Spring Survey and based on the course and distance of the original field notes.

The latitude and longitude of the points determined are as follows:

Hunnicut's S. W. Corner, Block G-1
Latitude 29° 33' 51".951 Longitude 102° 57' 56".238

Junction Rio Grande River & Maravillas Creek(Bluff bank)
Latitude 29° 33' 44".654 Longitude 102° 46' 30".423

T-4

county 43339

from S. W. Cor. G-1 Mar. Cr. brs. S 89° 18' E 21,521 varas.

Stone mound at intersection River & Reagan Canyon
Latitude 29° 43' 45".378 Longitude 102° 40' 56".698
from mouth Mar. Cr. Reagan Canyon md. brs.N 26° 30' E 24,410.9 varas.

Stone mound on high bluff at junction River and San Francisco Creek.
Latitude 29° 52' 46".321 Longitude 102° 19' 21".129
from Reagan Canyon, San Francisco Cr. Cor. Brs. N 64° 25' E 45,564.7 varas. from Maravillas Creek San Francisco Creek bears N 51° 24' E 66,544.8 varas.

N. W. Corner Survey 1, Block 21
Latitude 29° 56' 29."764 Longitude 103° 18' 51".616

N. W. Corner Survey 14, Block G (Maxan Springs)
Latitude 30° 04' 32".208 Longitude 102° 52' 35".770

Meyers Spring in center of Survey 335, Terrell County.
Latitude 30° 05' 05".790 Longitude 101° 57' 32".280

Dodds "B" Corner by W. L. Rider notes.
Latitude 29° 56' 01".116 Longitude 102° 36' 30".686

Stone Mound also called "B" Corner
Latitude 29° 56' 07".024 Longitude 102° 36' 35",658

S. W. Corner 1-Bl.M2 by Scott.
Latitude 29° 43' 58".671 Longitude 102° 40' 53".095

N. W. Corner 17-Bl M2 Scott.
Latitude 29° 47' 34".197 Longitude 102° 35' 29".350

N. W. Corner Block G-1 by Hunnicut
Latitude 29° 51' 19".624 Longitude 102° 58' 11".851

N. W. Corner Block G-1 by Rider
Latitude 29° 49' 42".458 Longitude 102° 56' 37".873
from N. W. Corner G-1 Rider, N. W. Corner G-1 by Hunnicut bears N 40° 08' W 4622.2 varas.

Submitted as report of work done in a survey of Northeastern part of Brewster County, during December, 1941, and January, 1942;

This 1st day of July, 1942, A.D.

LICENSED STATE LAND SURVEYOR — TEXAS

M. P. Ball
M. P. Ball

Adopted and approved this 14th day of August, 1942.

M. P. Ball
Licensed State Land Surveyor

Approved and filed as a record in this office this 14TH day of August, 1942.

Bascom Giles
Commissioner of the General Land Office

T-5

Counter 43340

GENERAL LAND OFFICE, AUSTIN, TEXAS, 8-17 1942

I, Bascom Giles Commissioner of the General Land Office of the State of Texas, do hereby certify that on the reverse hereof and attached hereto is a true and correct copy of the original of this instrument now on file in this office together with all endorsements thereon.

IN TESTIMONY WHEREOF, I, hereunto set my hand and affix the seal of said office the day and Date first above written.

Bascom Giles Commissioner of the General Land Office

counter 13341 Brewster Co Rld Sk 126

Brewster Co