THIRD-ORDER NOTEKEEPING

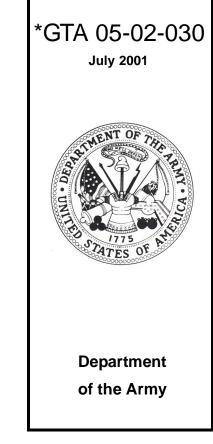
This GTA shows examples of a correct procedure for recording and reducing field notes on DA Forms 4446 and 5817.

Samples include—

- (1) Planetable page 1
- (2) 3-wire leveling page 2
- (3) Horizontal taping page 3
- (4) Traverse Angle (1.0") page 4
- (5) Zenith Distance (1.0") page 5
- (6) Triangulation (0.2") page 6
- (7) Vertical Angle (0.2") page 7

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Planetable

DESIGNATIO	. 28/4	5/31:L/A/	85	IT IN AU	0 2001
STA	BS	BS MEAN	<u> </u>	TATERVAL	SUM OF
5	READING	MEAN		LINERIAL	INTERVALS
TBM #1	2.747				
	2.544	2.5433		.203	
	2.339			.205	.408
	7.630				
	3.025				
	2.747	2.7473		.278	
	2.470			·277	.555
	15.872	5.2906			0.963
		1.4933			1.001
	1	3.7973			1.964
	F DE=	-3.8000		F DIST =	0.2013 K
		+3.7973		B DIST =	0.1964 K
	E.C. =	0.0027			
		AMPLE			
	Ç) ¹			

				- #	
T-SP5 MC				-3 #3087	
MSP4 TH			CLEAR, V	VARM, CAL	.M
FS	FS			SUM OF	0
READING	MEAN		LVIERVAL	TATERVALS	REMARKS
A					
0.686					
0.455	0.4553		.231		
0 2 2 5			230	.461	
1.366					
1.308					
1.038	1.0380		.270		TRENO
0.768			.270	.540	
4.480	1.4933			1.001	
<u></u>	1.1.25			1.001	
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	·····		· · ·		
· - ·····					
AE =	0.012	0.1964			
AE =	0.0053				
	1				North and a state of the

3-Wire Leveling

FROM S	TATION _	TP-	4то	STATION _		TP-5	
ST	ATION	TEMP		% OF	SLOPE	SET-UP	SET-BACK
FROM	TO	FRONT	REAR	FWD	BKWD		
TP-4		55	30,000				
		55	30,000				
		56	30,000				
		55	30,000				
		55	30,000		1		
	TP.5	55	4.779				
			154.779				
TP-5		56	30,000				
		56	30,000				
		55	30,000				
		55 55	30,000				
		54	30,000				
	TP-4	54	4.802				
			154 802				
	1			-			
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			AMPLE				
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CHIEF TAPEMAN ______ SP5 CALDER _____ TAPE NOS __ LURFKIN # 1864

DATE	10 Ji	ily_		20 <i>.01</i> weather <i>CLEAR,_WARM,_CALM</i>
TAPE	INCL	TEMP	CAL	REMARKS
SUPPORT	CORR			
2		0.002	5.021	
2		0.002	0.021	
2		0.002	0.021	
2 2 2 2 2		0.002	0.021	
2		0.002	0.02	
2			0.003	
		0.010	0.108	CORR DIST 154.877
2		0.003	0.021	
2 2 2 2 2 2 2 2		0.003	0.021	
2		0.002	0.021	
2		0.002	0.021	
2		0.002	0.021	
2			0.003	
		0.012	⁺ 0.108	CORR DIST 154.898
				E.C. = 0.021
				MN DIST = 154.888
				B.C. = 1/7700
				,

Horizontal Taping

DESIGNATION	TT-4(USAES)	C2	ATE10\$	ul_ 2001
STA.	TION	D/R	0	1
I FB-	9 (ERDL)58	D	00	00
		R	180	00
FB-72	(ERNL) 58	D	184	16
		R	04	16
2 FB · 29		R	270	05
2.0 21		۵	90	05
FB 30		R	.94	21
FB-32		D	274	21
I FB-32		D	00	00
		R	180	00
FB-29		Δ	175	44
		R	355	44
2 FB-32		R	270	05
			90	05
<u> </u>	.0	LE_{R}	ST	49
FB-29	SAMP		85 265	49

			•				
		T SP.	5 Ruiz			51005	
10\$	ul_ 2001	\$P4	PURVIS	CI	EAR, CO	OOL, CALM	
0	1	<u> </u>	MN "				
00	00	31					
180	00	26	28.5				
184	16	36					
04	16	30	33.0	184	16	04.5	
270	05	32					
90	05	33	32.5				
.94	21	37					
274	21	.38	37.5	184	16	05.0	
				MN 184	16	04.8	
00	00	29					
180	00	14	21.5				
175	44	16					
355	44	04	10.0	175	43	48.5	
270	05	09				+	
90	05	- 11	10.0				
85	49	03					
265	49	08	05.5	175	43	55.5	
				MN 175	43 43	52.0	

Traverse Angle (1.0")

							SP5 HEI	RSHAL	W	1LD T-2	98723	
DESIGNATION	WHEELI	ER (DMS)) 72 p/	TE 10 9	n. 2001		SP4 MO	RRIS	CLC	DUDY, C	OOL, CAL	M
STAT	ON	TIME	D/R	0	1		11					
	T (USAES)		Δ	91	16		-33 +	02.0 =	35.0	H.I.	= 1.40	
1 0211	(1211-10		R	268	43		23 t	02.0 =	25.0			
			SUM	359	.59		56+	04.0 =	60.0			
										91	16 35	0
DEWITT			D	91	16		36 +	01.5 =	37.5			
			R	268	43		21 +	01.5 =	22.5			
			SUM	359	.59		57 +	03.0 =	60.0			
							-			91	16 37	5
										91	16 36.	2
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		AF								/		
		M										
	S	AMPLE					-					
		1										
	,				Zenith	Dista	ance (1.	0")				
						2.000		~ /				

STATION <u>LESLIE (301</u>	ENGR	BN)	61	DATE (YYYYM	MDD)	200	07 10	INSTRUM RECORDE	INSTRUMENT MAN <u>SP5 HAIYKS</u> RECORDER <u>SP4</u> HARMON					INSTRUMENT WILD T-3 5100 WEATHER CIEAR COOL CA				
OBJECT	СН	RON T	IME	STOP	TEL	CI	CIRCLE		CRO	MEAN	ZEN	REMARKS			LEVELS			
OBSERVED	н	м	S	WATCH	D/R	0	1	1ST	2D	MEAN	DIST		REIVIARI	.5	w	E		
HARRY (DMA) 72					Δ	00	00	10.8	11.0	10.9								
					R	180	00	09.2	09.2	09.2								
Tom (DMA) 72	+	-			D	51	00	03.0	03.2	03.1								
	_				R	230	59	59.8	60.0	59.9		50	59	51.5				
JOHN (DMA) 72	_				Δ	108	14	37.2	37.4	37.3								
					R	288	14	34.8	34.8	34.8		108	14	26.0				
HARRY		-			R	202	00	23.8	24.0	23.9								
					D	22	00	26.0	26.2									
TOM								16.6	16.6	16.6	Arrie 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11							
					R	253	00	18.0	18.0	18.0		50	59	52.3				
					D	73	00											
								50.0	49.8									
JOHN								51.0	51.2	51.1		108	14	25.5				
					R	310	14											
			-		۵	130	14	36.8	37.0	36.9								
	_							34.0	34.0	34.0								
HARRY					D	45	02											
					R	225	02	24.0	24.0	24.0			_					
								21.8	21.8	21.8		50	-59	47.5				
TOM					D	96	02											
118 W. La			_		R	276	02	59.8	60.0									
		14						56.2	56.4	56.3		108	14	22.7				
JOHN	_0	シ			D	153	16											
•	NV.				R	333	16											
Jõhn -S	~ '-																	
			-															

STATION SHOTGUN	(ATG	R)	76	DATE (YYYYM	MDDj	2001	0710	INSTRUM	ent man RSf	<u>SBG</u> P4 BIAC	WEATHER CLEAR, CODL, CALA					
OBJECT OBSERVED		RON T		STOP WATCH	TEL D/B	CII	RCLE		CRO	MEAN	N ZEN	REMARKS		LEV		
	н	м	s	WATCH				1ST	2D		Biol	H.I.	167	w	E	
FUMBLE (DMS) 84	02	10			R	<u>89</u> 90	31	<u>09.2</u> 55.2	08.2	08.2		H. 1.	101			
			-		E	-00	28	55.2	55.4	47.1		90°	57' 47.1"			
	_					89	31	06.0	06.2	06.1						
FUMBLE	-				R	90	28		59.6							
					<u> </u>	- 00	57		21.0	53.4		90°	57′ 53.4″			
FUMBLE					L	89	31	07.6	07.4	07.5						
	02	14			R	90	28		57.4	57.3						
						-00	57		50	49.8		90°	57' 49.8"			
		-									MN	90°	57' 50.1"			
	-															
POINT OBSERV	ΞD															
CENTER OF LI	GHT											TARG	ET SHOWN			
								P				5° L	16HT - 1.53			
					·											
	4	-														
SAM							·									