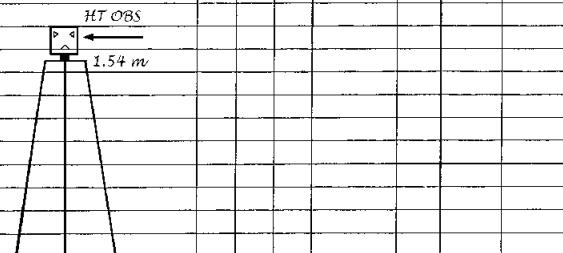
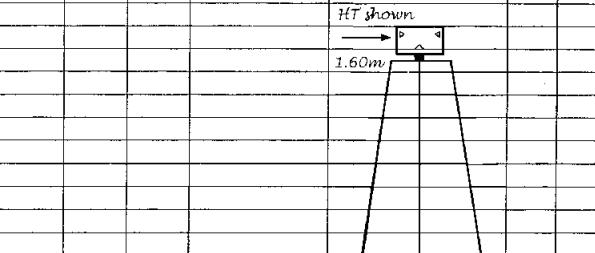


ZENITH DISTANCE/VERTICAL ANGLE
For use of this form, see FM 3-34.331, the proponent agency is TRADOC.

STATION <u>Lewis (USCE&GS) 29</u>			DATE (YYYYMMDD) <u>2001 07 14</u>		INSTRUMENT MAN <u>SFC J. Doe</u>		INSTRUMENT <u>Wild T2 #52119</u>					
			RECODER <u>SPC W. Roe</u>				WEATHER <u>Breezy cool calm</u>					
OBJECT OBSERVED	CHRON TIME		STOP WATCH	TEL D/R	CIRCLE		MICRO		ZEN DIST	REMARKS	LEVELS	
	H	M			S			1ST			2D	MEAN
1. Lewis (USCE&GS) 29	14	25		D	90	04	51	-03.5	=47.5			
				R	269	55	16	-03.5	=12.5	HT = 1.60 m		
				Σ	359	59	67	-07.0	=60.0	HT = 1.54 m		
2.	14	30					52	-0.35	=48.5			
							15	-0.35	=11.5			
							67	-07.0	=60.0	90° 04' 48.5"		
 												

DA FORM 5817, JUL 2001

EDITION OF AUG 1989 IS OBSOLETE.

USAPA V1.00

THIRD-ORDER NOTE KEEPING

This graphic training aid (GTA) show examples of the correct procedures for recording and reducing field notes on Department of the Army (DA) Forms 4253, 5817, and 5820.

The examples include?

- Three-wire leveling.
- Horizontal directions (1.0").
- Zenith distance (1.0").

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*This publication supersedes GTA 05-02-030, July 2001.

***GTA 05-02-030**

1 June 2005



**Headquarters,
Department
of the Army**

THREE-WIRE LEVELING									INST. OP. INT.	1st COMP. INT.	2nd COMP. INT.
For use of this form, see FM 3-34.331; the proponent agency is TRADOC.											
PROJECT Example				LOCATION Fort Belvoir, Virginia			ORGANIZATION DMS				
OBSERVER SFC Jones		RECORDER SGT Smith		INSTRUMENT Wild NA2 - 1234			SUN	WIND	WEATHER		
FROM D2		TO BASS		DATE (YYYYMMDD) 2001 07 15		TIME 0830-0920	LINE OR NET Training 1			PAGE NO. no. 2	NO. OF PAGES 4
STATION	BACKSIGHT FACE OF ROD	MEAN	BACK OF ROD	INTERVAL	SUM OF INTERVALS	FORESIGHT FACE OF ROD	MEAN	BACK OF ROD	INTERVAL	SUM OF INTERVALS	REMARKS
D2	1201					2963					
	0850	0850.3		351		2623	2622.3		340		
	0500			350	701	2281			342	682	
	2551	0850.3			701	7867	2622.3			682	
	2657					0899					
	2406	2406.0		251		0638	0637.7		261		
	2155			251	502	0376			262	523	
	9769	3256.3			1203	9780	3260.0			1205	
	3081					1361					
	2779	2779.3		302		1050	1050.0		311		
	2478			301	603	0739			311	622	
	18107	+6035.6			1806	12930	4310.0			1827	BASS
	-4310.0									1806	
	BDE =	+1.7256							B distance	3633	
									km	0.3633	
	FDE =	-1.7276				AE = 0.012	distance km		F distance	0.3302	
	BDE =	+1.7256				AE = ±0.012	0.3302		B distance	0.3633	
	EC =	-0.0020				AE =	±0.0068				

DA FORM 5820, JUL 2001

EDITION OF AUG 89 IS OBSOLETE.

USAPA V1.00

HORIZONTAL DIRECTION OR ANGLE BOOK													
For use of this form, see FM 3-34.331; the proponent agency is TRADOC.													
STATION <u>LEWIS (30th ENGR BN) 68</u>			DATE <u>(YYYYMMDD) 2001 07 15</u>			INSTRUMENT MAN <u>SFC J. DOE</u>			INSTRUMENT <u>WILD T-2 # 1012</u>				
						RECODER <u>SFC K. SMOE</u>			WEATHER <u>COOL, CLEAR, & CALM</u>				
POS REP	OBJECT OBSERVED	CHRON TIME		STOP WATCH	TEL D/R	CIRCLE		MICRO/VERN 1ST/A(*) 2D/B(*)	MEAN	DIR / ANG	REMARKS	LEVELS	
		H	M			S							W
1	KING 30 th ENGR BN				D	00	00	52					
	68				R	180	00	58	55.0	00.0			
	ET - 1 USC + GS 68				D	325	10	31		STA *			
					R	145	10	35	33.0	38.0	325° 09' 38.0"		
2	KING 30 th ENGR BN				R	210	02	32					
	68				D	30	02	28	30.0	00.0			
	ET - 1 USC + GS 68				R	175	12	12		STA *			
					D	355	12	07	09.5	34.5	325° 09' 34.5"		
1	ET - 1 USC + GS 68				D	00	00			MN STA *	325° 09' 38.8"		
					R	180	00	48					
	KING 30 th ENGR BN				D	34	51	53	50.5	00.0			
	68				R	214	51	15					
2	ET - 1 USC + GS 68				R	210	02	19	17.0	26.5	EXP + 34° 50' 26.5"		
					D	30	02	27					
	KING 30 th ENGR BN				R	244	52	26	26.5	00.0			
	68				D	64	52	56					
								48	52.0	25.5	EXP * 34° 50' 25.5"		
											MN EXP * 34° 50' 26.0"		
											MN STA * 325° 09' 38.8		
											HC 360 00 04.8		
											CORR -04.8 -2.4 & -2.4		
								jco	CORR	STA *	325° 09' 36.4		

DA FORM 4253, JUL 2001

EDITION OF JUN 74 IS OBSOLETE.