

M95/M96 MORTAR FIRE CONTROL SYSTEM VERSION 7.0



TEAM DRILL #2

**UNITED STATES ARMY INFANTRY SCHOOL
INFANTRY MORTAR LEADER COURSE
MTR CO 1ST BATTALION 19TH INFANTRY REGIMENT
FT. BENNING, GEORGIA 31905
AUGUST 2021**

TEAM DRILL 2 SET-UP DATA**UNIT LIST**

Unit Name	URN	Long Name	Device	COMMO	CONFIG
A1	700000	A1 1/5 CAV	GUN	MFCS	Role: GUN / FDC This Unit Is: A2
A2	701000	A2 1/5 CAV	GUN/FDC	MFCS	Weapon: M121 Controlling FDC: A2
A3	702000	A3 1/5 CAV	GUN	MFCS	Mount: Carrier Controlling FSE: FSE1
A4	703000	A4 1/5 CAV	GUN	MFCS	Commo: VMF 6017A (SWB2)
FOS1	715000	HHC FOS1	FO	6017A	FBCB2 Connection: NONE
FOS2	716000	HHC FOS2	FO	6017A	Mode: TRAINING
FSE1	720000	HHC FSE1	FSE	6017A	☒ COMMO EMULATION ☐ GEO PAIRING

DATA

Date/Time: CURRENT DTG

Datum WGS 1984

Audio Alarm: OFF

Target Prefix: AB

Target Number: 0101-0200 next 0101

POSITION: GUN/FDC This Unit Position

Unit Name	Easting	Northing	Alt	Zone	SQR	Datum
A2	48475	42400	0380	16R	GA	WGE

Position Data Source: Manual**GUN/FO's - Other Unit Position**

Unit Name	Easting	Northing	Alt	Zone	SQR	Datum
A1	48400	42400	0380	16R	GA	WGE
A3	48550	42400	0380	16R	GA	WGE
A4	48625	42400	0380	16R	GA	WGE
FOS1	48400	42800	0440	16R	GA	WGE
FOS2	47500	42100	0450	16R	GA	WGE
FSE1	47500	42100	0450	16R	GA	WGE

MAZ REF: For all guns: 6000 **REF:** 2800**CHANNEL A****Chn A Net Parameters****DEVICE**

SINGARS SIP, RT1523 C/D, RT-1739C

RADIO MIX

2- SINGARS, PRC-152

CONFIGURATION

231-SINGARS_16000_PT_FH

NUMBER OF STATIONS

10

NET USAGE

VOICE & DATA

CHANNEL A PLATOON

Unit Name	En	IP Address	Adr
A2	☒	172.010.029.007	07
A1	☒	172.010.029.009	09
A3	☒	172.010.029.008	08
A4	☒	172.010.029.010	10

!!!DISABLE CHANNEL A!!!**CHANNEL B FIRES**

Unit Name	En	IP Address	Adr
A2	☒	172.010.002.007	07
FOS1	☒	172.010.002.005	05
FOS2	☒	172.010.002.006	06
FSE1	☒	172.010.002.004	04

!!!DISABLE CHANNEL B!!!**Ammo by Unit**

WEAPON M121 CARRIER TEMP 40				
Unit	Lot	Shell	Lot Number	Quantity
A1/2/3/4	A	HE M934A1	1234	100
A1/2/3/4	B	IL M930	4567	100
A1/2/3/4	C	WP M929	8901	200

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[illegible]

BATTLE DAMAGE ASSESSMENT (BDA):	40% CAS
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AIM POINT GRID:

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE.

APD LC v1.00

(2)

SHIFT MISSION / TOT

TARGET NUMBER

AB 0102

$$\square + \square$$

TOT 5 MIN

APD LC v1.00

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ORGANIZATION		DATE	TIME	OBSERVER ID	TARGET NUMBER
				FOS2	KNPT02/AB 0103
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____		POLAR OT DIRECTION <u>2900</u> ALTITUDE _____ DISTANCE <u>4200</u> VERTICAL INTERVAL ☐ UP / ☐ DOWN VERTICAL ANGLE ☐ + ☐ _____	
GRID _____ OT DIRECTION _____ ALTITUDE _____		☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____			

POL POINT

WP I/ FFE

FDC ORDER		INITIAL CHART DATA		INITIAL FIRE COMMAND		ROUNDS EXPENDED
MORTAR TO FFE SEC		DEFLECTION _____		MORTAR TO FOLLOW _____		
MORTAR TO ADJ #2		DEFLECTION CORRECTION		SHELL AND FUZE _____		
METHOD OF ADJ 1RD		☐ L ☐ R		_____		
BASIS FOR CORRECTION _____		RANGE _____		MORTAR TO FIRE _____		MAX ORD _____
SHEAF CORRECTION _____		VI/ALT CORRECTION		METHOD OF FIRE _____		
SHELL AND FUZE HEQ I/ ADJ		☐ + ☐ -		_____		TOF _____
WP I/ FFE		RANGE CORRECTION		DEFLECTION _____		
METHOD OF FFE 3 RDS		☐ + ☐ -		CHARGE _____		
RANGE LATERAL SPREAD _____		CHARGE _____		ELEVATION _____		MARK TIME
TIME OF OPENING FIRE W/R		RANGE _____		TIME SETTING _____		
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐		AZIMUTH _____				
		ANGLE T _____				

[illegible]

AIM POINT GRID:

APD LC v1.00

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[illegible]

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ORGANIZATION		DATE	TIME	OBSERVER ID	TARGET NUMBER
				FOS2	AB0105
☐ ADJUST FIRE ☒ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____		POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____	
GRID 16R GA 48418 / 35653 OT DIRECTION 3176 ALTITUDE 0000		☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____			

TARGET DESCRIPTION	INF PLT IN OPEN
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METHOD OF ENGAGEMENT

FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED
MORTAR TO FFE 3 & 4	DEFLECTION _____	MORTAR TO FOLLOW _____	
MORTAR TO ADJ _____	DEFLECTION CORRECTION ☐ L ☐ R	SHELL AND FUZE _____ _____	
METHOD OF ADJ _____	RANGE _____	MORTAR TO FIRE _____	
BASIS FOR CORRECTION _____	VII/ALT CORRECTION ☐ + ☐ -	METHOD OF FIRE _____ _____	
SHEAF CORRECTION _____	RANGE CORRECTION ☐ + ☐ -	DEFLECTION _____	MAX ORD _____
SHELL AND FUZE HEQ	CHARGE _____	CHARGE _____	TOF _____
METHOD OF FFE 2 RDS	RANGE _____	ELEVATION _____	
RANGE LATERAL SPREAD _____	AZIMUTH _____	TIME SETTING _____	MARK TIME
TIME OF OPENING FIRE W/R	ANGLE T _____		
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐			

[illegible]

BATTLE DAMAGE ASSESSMENT (BDA):	50% CAS
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AIM POINT GRID:

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE

APD LC v1.00

STORE THE SAFETY DATA IN THE CI

**SAFETY DIAGRAM 1
(ALL)**

FIRING UNIT CENTER GRID: _____

	SEG 1	SEG 2
L/L AZ	3000	6000
R/L AZ	6000	6150
MIN RG	200	1500
MAX RG	7000	5000
MIN CHG	1	1
MAX CHG	4	4

AMMO: HE, WP, ILL

**ENTER THE COMPUTER MET
MESSAGE ON THE FOLLOWING PAGE.
AND UPDATE TO CURRENT FILE**

MET DATA

OCTANT	STATION	MDP	LAT	LONG
0	HEIGHT	PRESSURE	013	008
	065	600		

LINE	ALT	DIR	SPEED	TEMP	PRESSURE
0	0	230	002	2955	1006
1	200	200	006	2980	0989
2	500	231	011	3010	0965
3	1000	187	008	2980	0930
4	1500	150	007	2809	0837
5	2000	070	015	2950	0820
6	2500	057	025	2920	0774
7	3000	070	025	2899	0733
8	3500	077	030	2865	0688
9	4000	079	032	2847	0675
10	4500	081	035	2837	0659

CELLS CHANGE COLORS TEMPORARILY WHILE ENTERING DATA:

- (1) ORANGE CELLS SHOW A TREND LIMIT WARNING - YOU EXCEEDED THE TREND LIMITS.**
- (2) RED CELLS SHOW A TREND LIMIT ERROR – INCORRECT DATA WAS ENTERED.**

ONCE YOU’VE COMPLETED ALL DATA ENTRY FOR THE NEW MET, IF THE SCREEN SHOWS ORANGE CELLS, THE TREND LIMITS HAVE BEEN EXCEEDED. VERIFY TREND LIMITS WITH MDP. RED CELLS INDICATE YOU HAVE ENTERED THOSE VALUES INCORRECTLY, AND MUST RE-ENTER THE CORRECT VALUE. THEN SAVE AND APPLY NEW MET.

Enter the following information into the CI:

RFA

Restricted Firing Area

EST UNIT NAME	NAME	Start Time	End Time	HE	WP&RP	IL&IR
FSE 1	RFA1	PRESENT	+1 HOUR	X		
FSE 1	RFA2	PRESENT	+1 HOUR			X

RFA1: Type: Shape
Grid: 16R GA 51000 36000 ALT: 0400
16R GA 52000 36000 ALT: 0400
16R GA 51000 37000 ALT: 0400

RFA2: Type: Circle
Radius: 250 m
Grid: 16R GA 49000 37000 ALT: 0400

COMPUTER'S RECORD

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REGISTRATION MISSION

ORGANIZATION	DATE	TIME	OBSERVER ID FOS1	TARGET NUMBER RP 01/AB0106
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____		
GRID 16R GA 47200 / 38700 OT DIRECTION 3500 ALTITUDE 380		POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____		

TARGET DESCRIPTION **RP 01**

METHOD OF ENGAGEMENT

MTO: PREP TO REGISTER RP 01

FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED
MORTAR TO FFE SEC	DEFLECTION _____	MORTAR TO FOLLOW _____	
MORTAR TO ADJ #2	DEFLECTION CORRECTION ☐ L ☐ R	SHELL AND FUZE _____	
METHOD OF ADJ 1 RD	RANGE _____	MORTAR TO FIRE _____	
BASIS FOR CORRECTION CM	VII/ALT CORRECTION ☐ + ☐ -	METHOD OF FIRE _____	MAX ORD
SHEAF CORRECTION _____	RANGE CORRECTION ☐ + ☐ -	DEFLECTION _____	TOF
SHELL AND FUZE HEQ	CHARGE _____	CHARGE _____	
METHOD OF FFE _____	RANGE _____	ELEVATION _____	MARK TIME
RANGE LATERAL SPREAD _____	AZIMUTH _____	TIME SETTING _____	
TIME OF OPENING FIRE W/R	ANGLE T _____		
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐			

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
R200	- 100										
L100	-50										
R25	-50	R/C									
EOM: S/A RP01			RngCF		AzCF						

BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

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[illegible]

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[illegible]

HUMIDITY: 90
TEMP. GRADIENT: NEUT
WIND SPEED: 13
WINDS: CROSS
WINDS FROM THE RIGHT
IMPACT: LAND

COMPUTER'S RECORD

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QUICK SMOKE MISSION

			DATE	TIME	OBSERVER ID FOS1	TARGET NUMBER AB0109					
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION			SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT ☐ ADD / ☐ DROP ☐ UP / ☐ DOWN		POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____						
GRID 16R GA 47150 / 38650 OT DIRECTION 3450 ALTITUDE 0400					MTA (mils) 0400 Winds WIND FROM RIGHT Cloud Cover CLEAR Smoke Type VISIBLE Length (meters) 300 Duration (minutes) 8						
TARGET DESCRIPTION SCREEN WOODLINE											
METHOD OF ENGAGEMENT 300 X 75 8min ATT: 2000 Cross											
FDC ORDER			INITIAL CHART DATA		INITIAL FIRE COMMAND						
MORTAR TO FFE SEC			DEFLECTION _____		MORTAR TO FOLLOW _____						
MORTAR TO ADJ #2			DEFLECTION CORRECTION ☐ L ☐ R		SHELL AND FUZE _____						
METHOD OF ADJ 1 RD			RANGE _____		MORTAR TO FIRE _____						
BASIS FOR CORRECTION RP01/CM			VI/ALT CORRECTION ☐ + ☐ -		METHOD OF FIRE _____						
SHEAF CORRECTION _____			RANGE CORRECTION ☐ + ☐ -		DEFLECTION _____						
SHELL AND FUZE HE & WP I / ADJ			CHARGE _____		CHARGE _____						
WP I / FFE			RANGE _____		ELEVATION _____						
METHOD OF FFE 3 RDS			AZIMUTH _____		TIME SETTING _____						
RANGE LATERAL SPREAD _____			ANGLE T _____								
TIME OF OPENING FIRE W/R											
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐											
OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
	- 50										
		REPEAT WP									
		FFE									
CONTINUOUS FIRE FROM THE RIGHT											
EOM S/A: TGT AB0109											

BATTLE DAMAGE ASSESSMENT (BDA):

Wood line Screened

AIM POINT GRID:

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[illegible]

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[illegible]

COORD ILLUM MISSION

TARGET NUMBER

AB0112

$$\square + \square = \underline{\hspace{2cm}}$$

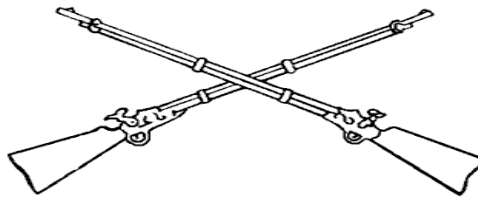
APD 1 C v1 00

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[illegible]

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[illegible]



M95/M96 MORTAR FIRE CONTROL SYSTEM VERSION 7.0



TEAM DRILL #2 SOLUTIONS

**UNITED STATES ARMY INFANTRY SCHOOL
INFANTRY MORTAR LEADER COURSE
MTR CO 1ST BATTALION 19TH INFANTRY REGIMENT
FT. BENNING, GEORGIA 31905
AUGUST 2021**

COMPUTER'S RECORD

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GRID MISSION S&T

ORGANIZATION	DATE	TIME	OBSERVER ID FOS1	TARGET NUMBER KNPT 01/ AB 0101
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____		
GRID 16R GA 48850 / 39350 OT DIRECTION 3150 ALTITUDE 400		POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____		

TARGET DESCRIPTION

PLT ON RIDGELINE

METHOD OF ENGAGEMENT

L 400X W 300 ATT 1500 R to L / N to F

FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED
MORTAR TO FFE SEC	DEFLECTION _____	MORTAR TO FOLLOW SEC	①
MORTAR TO ADJ #2	DEFLECTION CORRECTION ☐ L ☐ R	SHELL AND FUZE HEQ	
METHOD OF ADJ 1 RD	RANGE _____	MORTAR TO FIRE #2	
BASIS FOR CORRECTION _____	VIA/ALT CORRECTION ☐ + ☐ -	METHOD OF FIRE 1 RD I/ ADJ 2 RDS PROX I/ FFE	MAX ORD 2176m
SHEAF CORRECTION SPC/S&T	RANGE CORRECTION ☐ + ☐ -	DEFLECTION 5728 / 3072	TOF 38.2
SHELL AND FUZE HEQ I/ ADJ	CHARGE _____	CHARGE 2	
PROX I/ FFE	RANGE 3072	ELEVATION 1157	MARK TIME
METHOD OF FFE 2 RDS	AZIMUTH 3075	TIME SETTING _____	
RANGE LATERAL SPREAD _____	ANGLE T 80		
TIME OF OPENING FIRE W/R			
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐			

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
	- 50	FFE 1		2928	SEC A1	2 RDS PRX	3096	5704			1185
				2921	A2		3087	5713			1186
				2914	A3		3078	5722			1188
				2908	A4		3069	5731			1189
		FFE 2		3029	A1		3096	5704			1166
				3021	A2		3088	5713			1167
				3014	A3		3079	5721			1169
				3008	A4		3070	5730			1170
		FFE 3		3129	A1		3096	5704			1146
				3122	A2		3088	5712			1147
				3115	A3		3080	5720			1149

BATTLE DAMAGE ASSESSMENT (BDA):

40% CASAIM POINT GRID: **16R GA 48848 / 39400****ALT:400**

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE.

3109**A4****3071 5729****1150****(25)**

EOM S/A KNPT 01

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[illegible]

COMPUTER'S RECORD

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POLAR MISSION

ORGANIZATION	DATE	TIME	OBSERVER ID FOS2	TARGET NUMBER KNPT02/ AB 0103
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION	SHIFT FROM _____		POLAR	
GRID _____	OT DIRECTION _____ ALTITUDE _____		OT DIRECTION 2900 ALTITUDE _____	
OT DIRECTION _____	☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____		DISTANCE 4200	
ALTITUDE _____			VERTICAL INTERVAL	
			☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____	

TARGET DESCRIPTION **POL POINT**

METHOD OF ENGAGEMENT **WP I/ FFE**

FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED
MORTAR TO FFE SEC	DEFLECTION _____	MORTAR TO FOLLOW SEC	1 HE
MORTAR TO ADJ #2	DEFLECTION CORRECTION	SHELL AND FUZE HEQ	
METHOD OF ADJ 1RD	☐ L ☐ R RANGE _____	MORTAR TO FIRE #2	
BASIS FOR CORRECTION _____	VIA/ALT CORRECTION	METHOD OF FIRE 1 RD I/ ADJ	MAX ORD
SHEAF CORRECTION _____	☐ + ☐ - RANGE CORRECTION _____	3 RDS WP I / FFE	2952m
SHELL AND FUZE HEQ I/ ADJ	CHARGE _____	DEFLECTION 5661/3139	TOF
WP I/ FFE	RANGE 4324	CHARGE 3	45.5
METHOD OF FFE 3 RDS	AZIMUTH 3143	ELEVATION 1153	MARK TIME
RANGE LATERAL SPREAD _____	ANGLE T 240	TIME SETTING _____	
TIME OF OPENING FIRE W/R			
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐			

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
R225	+125			4503			3182	5618			1126
L100				4476			3160	5640			1130
R50	-50	FFE		4443	SEC	3 RDS	(1)3181	5619			1138
				4442		WP	(2)3182	5618			1138
				4440			(3)3183	5617			1138
				4439			(4)3184	5616			1138
				EOM	S/A KNPT 02						

BATTLE DAMAGE ASSESSMENT (BDA): **40% CAS** AIM POINT GRID: **16R GA 48573 / 37958** ALT: **0450**

COMPUTER'S RECORD

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SIMO MISSION 1

ORGANIZATION				DATE		TIME		OBSERVER ID FOS1		TARGET NUMBER AB0104	
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION				SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____				POLAR _____ OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN _____ VERTICAL ANGLE _____ ☐ + ☐ _____			
GRID 16R GA 48500 / 35700 OT DIRECTION 3240 ALTITUDE 380											
TARGET DESCRIPTION 3 ARTILLERY PIECES											
METHOD OF ENGAGEMENT											
FDC ORDER			INITIAL CHART DATA				INITIAL FIRE COMMAND				ROUNDS EXPENDED
MORTAR TO FFE SEC			DEFLECTION _____				MORTAR TO FOLLOW SEC				①
MORTAR TO ADJ #2			DEFLECTION CORRECTION				SHELL AND FUZE HEQ				
METHOD OF ADJ 1 RD			☐ L ☐ R RANGE _____ VI/ALT CORRECTION ☐ + ☐ - RANGE CORRECTION ☐ + ☐ - CHARGE _____ RANGE 6698 AZIMUTH 3196 ANGLE T 40				MORTAR TO FIRE #2 METHOD OF FIRE 1 RD I / ADJ 3 RDS I / FFE DEFLECTION 5607 / 3193 CHARGE 4 ELEVATION 0942 TIME SETTING _____				
BASIS FOR CORRECTION _____											MAX ORD
SHEAF CORRECTION _____											2942m
SHELL AND FUZE HEQ											
METHOD OF FFE 3 RDS											TOF
RANGE LATERAL SPREAD _____											45.9
TIME OF OPENING FIRE W/R											MARK TIME
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐											
OBSERVER CORRECTION			CHART/SAFETY DATA			SUBSEQUENT COMMANDS					
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
R150	+ 50			6743	#2		3216	5584			0930
L100				6746	#2		3201	5599			0929
R30		FFE		6744	SEC	3 RDS	(1) 3210	5590			0929
				6745			(2) 3211	5589			0929
				6745			(3) 3212	5588			0929
				6746			(4) 3213	5587			0929
EOM S/A TGT #AB 0104											

BATTLE DAMAGE ASSESSMENT (BDA): **2 ARTILLERY PIECES DESTROYED**

AIM POINT GRID:

16R GA 48418 / 35653 ALT 0380

DA FORM 2399, MAY 2017

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[illegible]

COMPUTER'S RECORD

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REGISTRATION MISSION

ORGANIZATION		DATE	TIME	OBSERVER ID	TARGET NUMBER						
				FOS1	RP 01/AB0106						
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____		POLAR _____							
GRID 16R GA 47200 / 38700		OT DIRECTION _____ ALTITUDE _____		OT DIRECTION _____ ALTITUDE _____							
OT DIRECTION 3500		☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____		DISTANCE _____							
ALTITUDE 380				VERTICAL INTERVAL _____							
				☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____							
TARGET DESCRIPTION RP 01											
METHOD OF ENGAGEMENT MTO: PREP TO REGISTER RP 01											
FDC ORDER		INITIAL CHART DATA		INITIAL FIRE COMMAND							
MORTAR TO FFE SEC		DEFLECTION _____		MORTAR TO FOLLOW SEC							
MORTAR TO ADJ #2		DEFLECTION CORRECTION		SHELL AND FUZE HEQ							
METHOD OF ADJ 1 RD		☐ L ☐ R									
BASIS FOR CORRECTION CM		RANGE _____		MORTAR TO FIRE #2							
SHEAF CORRECTION _____		VI/ALT CORRECTION		METHOD OF FIRE 1 RD I/ ADJ							
SHELL AND FUZE HEQ		☐ + ☐ -									
METHOD OF FFE _____		RANGE CORRECTION		DEFLECTION 5273/ 3528							
RANGE LATERAL SPREAD _____		☐ + ☐ -		CHARGE 3							
TIME OF OPENING FIRE W/R		CHARGE _____		ELEVATION 1217							
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐		RANGE 3912		TIME SETTING _____							
		AZIMUTH 3538									
		ANGLE T 40									
OBSERVER CORRECTION		CHART/SAFETY DATA		SUBSEQUENT COMMANDS							
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
R200	- 100			3825			3582	5218			1228
L100	-50			3767			3556	5244			1235
R25	-50	R/C		3692	SEC	DNF	(1) 3573	5227			1244
				3719			(2) 3573	5227			1241
				3746			(3) 3573	5227			1238
				3773			(4) 3573	5227			1235
EOM: S/A TGT # AB0106 and RP01				RngCF -49 AzCF +35							
BATTLE DAMAGE ASSESSMENT (BDA):											
AIM POINT GRID: 16R GA 47140 / 38928 ALT 0380											

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ORGANIZATION						DATE		TIME		OBSERVER ID FOS1		TARGET NUMBER AB0107			
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION						SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT ☐ ADD / ☐ DROP ☐ UP / ☐ DOWN				POLAR _____ OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐					
GRID 16R GA 48550 / 39150 OT DIRECTION 4060 ALTITUDE 0420															
TARGET DESCRIPTION 3 LIGHT MG W/ COVER															
METHOD OF ENGAGEMENT															
FDC ORDER				INITIAL CHART DATA				INITIAL FIRE COMMAND				ROUNDS EXPENDED			
MORTAR TO FFE SEC				DEFLECTION _____				MORTAR TO FOLLOW SEC				①			
MORTAR TO ADJ #2				DEFLECTION CORRECTION ☐ L ☐ R				SHELL AND FUZE HEQ							
METHOD OF ADJ 1RD				RANGE _____				MORTAR TO FIRE #2							
BASIS FOR CORRECTION RP01/CM				VI/ALT CORRECTION ☐ + ☐ -				METHOD OF FIRE 1RD I/ ADJ							
SHEAF CORRECTION CVG				VIA/ALT CORRECTION ☐ + ☐ -				3 RDS HED I/ FFE				MAX ORD 2159m			
SHELL AND FUZE HEQ I/ ADJ				RANGE CORRECTION ☐ + ☐ -				DEFLECTION 5597/3203				TOF 37.9			
HED I/ FFE				CHARGE _____				ELEVATION 1149							
METHOD OF FFE 3RDS				RANGE 3249				CHARGE 2							
RANGE LATERAL SPREAD W/R				AZIMUTH 3177				ELEVATION 1149				MARK TIME			
TIME OF OPENING FIRE _____				ANGLE T 880				TIME SETTING _____							
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐															
OBSERVER CORRECTION				CHART/SAFETY DATA				SUBSEQUENT COMMANDS							
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV				
L200	+200			3532			3210	5590			1089	②			
R100	-50			3424			3218	5582			1113	③			
L50	+30	FFE		3482	SEC	3 RDS	(1) 3193	5607			1100				
				3481		HED	(2) 3215	5585			1101				
				3481			(3) 3237	5563			1101				
				3483			(4) 3259	5541			1101	⑮			
				EOM											
				S/A TGT #AB 0107											
BATTLE DAMAGE ASSESSMENT (BDA): TGT DEST AIM POINT GRID: 16R GA 48515 / 38918 ALT 0420															

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[illegible]

For use of this form, see TC 3-22.91; the proponent agency is TRADOC **SPECIAL SHEAF MISSION**

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ILLUMINATION MISSION

AIM POINT GRID:

COMPUTER'S RECORD

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COORD ILLUM MISSION

ORGANIZATION		DATE	TIME	OBSERVER ID	TARGET NUMBER						
				FOS1	AB0112						
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____ ☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____		POLAR _____ OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN _____ VERTICAL ANGLE _____ ☐ + ☐ _____							
GRID 16R GA 46250 / 42000 OT DIRECTION 3000 ALTITUDE 0400											
TARGET DESCRIPTION PLATOON I/OPEN											
METHOD OF ENGAGEMENT											
MTO: 1630											
FDC ORDER		INITIAL CHART DATA		INITIAL FIRE COMMAND							
MORTAR TO FFE #2 #3 #4		DEFLECTION _____		MORTAR TO FOLLOW #2 #3 #4 #1							
MORTAR TO ADJ #3		DEFLECTION CORRECTION		SHELL AND FUZE HEQ ILL							
METHOD OF ADJ 1 RD		☐ L ☐ R									
BASIS FOR CORRECTION CM		RANGE _____		MORTAR TO FIRE #3							
SHEAF CORRECTION _____		VI/ALT CORRECTION		METHOD OF FIRE 1 RD AMC							
SHELL AND FUZE HEQ I/ ADJ		☐ + ☐ -		5 RDS PROX I/ FFE AMC							
PROX I/ FFE		RANGE CORRECTION		DEFLECTION 4178/4622							
METHOD OF FFE 5 RDS		☐ + ☐ -		CHARGE 2							
RANGE LATERAL SPREAD _____		CHARGE _____		ELEVATION 1288 1281							
TIME OF OPENING FIRE AMC		RANGE 2334		TIME SETTING 40.0							
MOC TYPE WR ☐ AMC ☒ TOT ☐ OTH ☐		AZIMUTH 4625									
		ANGLE T 1630									
OBSERVER CORRECTION		CHART/SAFETY DATA		SUBSEQUENT COMMANDS							
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
					#1 ILL	1 RD AMC					1281
L200	+100		2134		#3	AMC	4576	4224			1319
					#1	2 RDS AMC					1281
	+50	FFE	2063		#2, #3, #4	5 RDS PROX	(2) 4577	4223	1		1096
			2136			AMC	(3) 4552	4248			1318
			2209				(4) 4528	4273			1308
			EOM S/A TGT AB0112	EOM: ABO111			NO SAVE				

BATTLE DAMAGE ASSESSMENT (BDA): PLATOON DISPERSING EST: 40% CAS AIM POINT GRID: 16R GA 46475 / 41892 ALT: 0400

DA FORM 2399, MAY 2017

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DIRECT LAY

BATTLE DAMAGE ASSESSMENT (BDA): **TROOPS DISPERSED. EST 50% CAS** AIM POINT GRID: