

M32 Light Weight Handheld Mortar Ballistic Computer Version 6.0



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

LHMBC SETUP DATA

GEO REFERENCE	
ELLIPSOID:	WGS 1984
DATUM:	WE/WGS 1984
WORLD SETUP DATA	
GEODETIC SYSTEM 1984	

POSITION ENTRY	
EASTING:	14422
NORTHING:	95957
ZONE / SQR:	16S GA

DATA			
DATE / TIME:		CURRENT DATE / TIME	
AUDIO ALARM:		OFF	
TARGET PREFIX:		AB	
TARGET #:	MIN: 0001	MAX: 0100	NEXT: 0001

CREW RESPONSE TIME: 300 SPLASH: 5 SEC UNCLASSIFIED

SECTION A			UNIT LIST INFORMATION							
UNIT	DEVICE	OBS#	WPN / MOUNT	MNT AZ	REF DEFL	PROP TEMP	Zone SQR	EASTING	NORTHING	ALT
A1	GUN	N / A	M252	2900	2800	70	16S GA	14372	95900	150
A2	GUN	N / A	M252	2900	2800	70	16S GA	14405	95910	150
A3	GUN	N / A	M252	2900	2800	70	16S GA	14438	95920	150
A4	GUN	N / A	M252	2900	2800	70	16S GA	14472	95930	150
F16	FO	1	N / A	N / A	N / A	N / A	16S GA	13205	92710	185
FSE	FSE	N / A	N / A	N / A	N / A	N / A	16S GA	13205	92710	185
FDC	FDC	N / A	N / A	N / A	N / A	N / A	16S GA	14422	95957	150

AMMUNITION BY UNIT			
UNIT	LOT	SHELL	QUANTITY
A1/2/3/4	A	HE: M821A2-M734A1	100
A1/2/3/4	B	ILL: M853A1-M772	100
A1/2/3/4	C	RP: M819-M772	200

SAFETY FAN SEGMENT 1

LLAZ	2000	RLAZ	3400
MIN CHG	1	MAX CHG	4
MIN RNG	1500	MAX RNG	5500
HE	YES	ILL	YES
WP	YES	IR	NO
EASTING	14405	NORTHING	95910
ALT	150	ZONE / SQR	16S GA

ENTER THE COMPUTER MET MESSAGE AND APPLY THE MET

COMPUTER MET MESSAGE

IDENTIFI- CATION	OCTANT	LOCATION LaLaLa LoLoLo or or xxx xxx	DATE YY	TIME (GMT) GoGoGo	DURATION (HOURS) G	STATION HEIGHT (10's M) hhh	MDP PRESSURE MB's PdPdPd
METCM	Q						
METCM	0	347 983				037	977
ZONE HEIGHTS (METERS)	LINE NUMBER ZZ	ZONE VALUES					
		WIND DIRECTION (10's M) ddd	WIND SPEED (KNOTS) FFF	TEMPERATURE (1/10 K) TTTT	PRESSURE (MILLIBARS) PPPP		
SURFACE	00	160	007	2900	0977		
200	01	187	011	2887	0965		
500	02	220	015	2878	0937		
1000	03	248	017	2868	0893		
1500	04	278	013	2852	0842		
2000	05	320	011	2830	0793		
2500	06	362	013	2796	0746		
3000	07	378	016	2766	0701		
3500	08	384	017	2737	0659		
4000	09	399	020	2705	0641		
4500	10	415	018	2685	0625		
5000	11						
6000	12						
FROM TO		DATE & TIME (GMT)			DATE & TIME (LST)		
MESSAGE NUMBER					CHECKED		

COMPUTER'S RECORD

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

ORGANIZATION	DATE	TIME	OBSERVER ID	TARGET NUMBER
			F16	AB0001
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____		POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____
GRID 16S GA 15410 / 93110 OT DIRECTION 3100 ALTITUDE 165		☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____		

TARGET DESCRIPTION REGISTRATION POINT

METHOD OF ENGAGEMENT PREPARE TO REG. 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	VI/ALT CORRECTION ☐ + ☐ -	METHOD OF FIRE _____	
SHEAF CORRECTION _____	RANGE CORRECTION ☐ + ☐ -	DEFLECTION _____	MAX ORD _____
SHELL AND FUZE HEQ	CHARGE _____	CHARGE _____	TOF _____
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
R 200	+ 200										
L 100	- 100										
	- 50										
	+ 25		REGISTRATION COMPLETE					MT0: PREPARE TO ADJUST SHEAF, S/R			
#1											
L 10											
#3											
R 10											
#4											
R 20	SHEAF ADJUSTED										
EOM: RECORD AS RP 01			RNCF: _____ AZCF: _____								

COMPUTER'S RECORD

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

ORGANIZATION	DATE	TIME	OBSERVER ID	TARGET NUMBER
			F16	AB0002

☒ 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 _____ ☐ + ☐ _____
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GRID **16S GA 15250 / 93550**

OT DIRECTION **1200**

ALTITUDE **150**

TARGET DESCRIPTION **FPF 150 x 50, ATT: 2400, CENTER**

METHOD OF ENGAGEMENT		SECTION RIGHT	
FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED
SEC MORTAR TO FFE _____ MORTAR TO ADJ _____ METHOD OF ADJ 1 RD BASIS FOR CORRECTION RP 01 / CM SHEAF CORRECTION SPC/CENTER SHELL AND FUZE HED II / ADJ HEQ II / FFE METHOD OF FFE 10 RDS RANGE LATERAL SPREAD _____ TIME OF OPENING FIRE AMC MOC TYPE WR ☐ AMC ☒ TOT ☐ OTH ☐	DEFLECTION _____ DEFLECTION CORRECTION ☐ L ☐ R RANGE _____ VI/ALT CORRECTION ☐ + ☐ - RANGE CORRECTION ☐ + ☐ - CHARGE _____ RANGE _____ AZIMUTH _____ ANGLE T _____	MORTAR TO FOLLOW _____ SHELL AND FUZE _____ MORTAR TO FIRE _____ METHOD OF FIRE _____ DEFLECTION _____ CHARGE _____ ELEVATION _____	MAX ORD _____ TOF _____ MARK TIME _____

FO DETERMINES AFTER FIRING S/R THAT #4 IS DANGER CLOSE GUN

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
	- 100										
R 25	- 100										
	- 100										
R 25	- 50										
		#4 ADJ	FIRE #3								
#3 R 10		#3 ADJ	FIRE #2								
		#2 ADJ	FIRE #1								
	#1 + 20	FPF ADJ									
FO SENDS: FIRE FPF											

BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

EOM: DELETE FPF

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

AIM POINT GRID:

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

BATTLE DAMAGE ASSESSMENT (BDA):	
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AIM POINT GRID:

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

AIM POINT GRID:

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

DA FORM 2399, MAY 2017 PREVIOUS EDITIONS ARE OBSOLETE! AFM 10-11.33

**EOM: EST 80% CAS
TGT NO SAVE**

COMPUTER'S RECORD

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

**HUMIDITY= 30, TEMP GRAD= LAPSE, WIND SPEED= 3-4,
WINDS= HEAD, IMPACT= LAND, LENGTH= 300, MINS= 8.
WIND DIRECTION= FROM THE RIGHT**

OBSERVER ID

TARGET NUMBER

F16

AB0008

☒ ADJUST FIRE ☐ FIRE FOR EFFECT
☐ IMMEDIATE SUPPRESSION

SHIFT FROM

POLAR

OT DIRECTION _____ ALTITUDE _____

OT DIRECTION _____ ALTITUDE _____

DISTANCE _____

VERTICAL INTERVAL

☐ UP / ☐ DOWN

VERTICAL ANGLE

☐ + ☐ _____

GRID **16S GA 16145 / 94005**

OT DIRECTION **1180**

ALTITUDE **150**

☐ LEFT / ☐ RIGHT _____

☐ ADD / ☐ DROP _____

☐ UP / ☐ DOWN _____

TARGET DESCRIPTION

SCREEN WOOD LINE 300 x 40, 8 MIN, ATT: 2000, CENTER

METHOD OF ENGAGEMENT

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 **1 RD**

☐ L ☐ R

BASIS FOR CORRECTION **CM**

RANGE _____

MORTAR TO FIRE _____

SHEAF CORRECTION **SPC / CTR**

VI/ALT CORRECTION

METHOD OF FIRE _____

SHELL AND FUZE **HEQ / RP // ADJ**

☐ + ☐ -

MAX ORD

RP // FFE

RANGE CORRECTION

DEFLECTION _____

METHOD OF FFE _____

☐ + ☐ -

CHARGE _____

TOF

RANGE LATERAL SPREAD _____

CHARGE _____

ELEVATION _____

TIME OF OPENING FIRE **W/R**

AZIMUTH _____

TIME SETTING _____

MARK
TIME

MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐

ANGLE T _____

OBSERVER CORRECTION

CHART/SAFETY DATA

SUBSEQUENT COMMANDS

DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
-----	-------	------------------	--------	-------	----------------	----------------	----------------	------------	--------	------	------

R 50 - 50

REPEAT RP

#2

**1 RD
RP**

SMOKE ADJUSTED, FFE, AMC

SEC

RDS RP AMC

RP RD COUNT BY WPN

#1= _____ RP

#2= _____ RP

#3= _____ RP

#4= _____ RP

#1

#2

#3

#4

**ADJUSTMENT: _____
ESTABLISHMENT: _____
MAINTENANCE: _____
TOTAL: _____**

**CONT. FIRE FROM
THE RIGHT**

SEC, S/R, _____ RDS, 1 rd at _____ SEC INT.

EOM: NO SAVE

BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

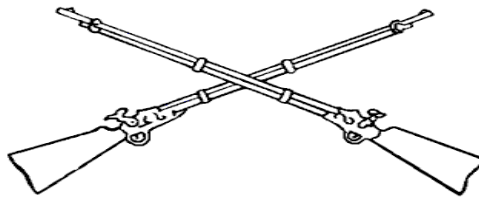
A3 and A4 move to a new firing position.
Use the information below to input the new gun positions

UNIT LIST INFORMATION										
POLAR POSITON A4 FROM A3										
UNIT	DEVICE	OBS#	WPN / MOUNT	MNT AZ	REF DEFL	PROP TEMP	Zone SQR	EASTING	NORTHING	ALT
A3	GUN	N / A	M252	3100	2800	70	16S GA	14990	95949	130
UNIT	DEVICE	OBS#	WPN / MOUNT	MNT AZ	REF DEFL	PROP TEMP	Zone SQR	DIR	DISTANCE	VI
A4	GUN	N / A	M252	3100	2800	70	N / A	1300	35m	0

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

BATTLE DAMAGE ASSESSMENT (BDA): **EST 70% CAS** AIM POINT GRID: _____

DA FORM 2399, MAY 2017 PREVIOUS EDITIONS ARE OBSOLETE. APD LC v1.00



M32 Light Weight Handheld Mortar Ballistic Computer Version 6.0



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**

LHMBC SETUP DATA

GEO REFERENCE	
ELLIPSOID:	WGS 1984
DATUM:	WE/WGS 1984
WORLD SETUP DATA	
GEODETIC SYSTEM 1984	

POSITION ENTRY	
EASTING:	14422
NORTHING:	95957
ZONE / SQR:	16S GA

DATA			
DATE / TIME:		CURRENT DATE / TIME	
AUDIO ALARM:		OFF	
TARGET PREFIX:		AB	
TARGET #:	MIN: 0001	MAX: 0100	NEXT: 0001

CREW RESPONSE TIME: 300 SPLASH: 5 SEC UNCLASSIFIED

SECTION A			UNIT LIST INFORMATION							
UNIT	DEVICE	OBS#	WPN / MOUNT	MNT AZ	REF DEFL	PROP TEMP	Zone SQR	EASTING	NORTHING	ALT
A1	GUN	N / A	M252	2900	2800	70	16S GA	14372	95900	150
A2	GUN	N / A	M252	2900	2800	70	16S GA	14405	95910	150
A3	GUN	N / A	M252	2900	2800	70	16S GA	14438	95920	150
A4	GUN	N / A	M252	2900	2800	70	16S GA	14472	95930	150
F16	FO	1	N / A	N / A	N / A	N / A	16S GA	13205	92710	185
FSE	FSE	N / A	N / A	N / A	N / A	N / A	16S GA	13205	92710	185
FDC	FDC	N / A	N / A	N / A	N / A	N / A	16S GA	14422	95957	150

AMMUNITION BY UNIT			
UNIT	LOT	SHELL	QUANTITY
A1/2/3/4	A	HE: M821A2-M734A1	100
A1/2/3/4	B	ILL: M853A1-M772	100
A1/2/3/4	C	RP: M819-M772	200

SAFETY FAN SEGMENT 1

LLAZ	2000	RLAZ	3400
MIN CHG	1	MAX CHG	4
MIN RNG	1500	MAX RNG	5500
HE	YES	ILL	YES
WP	YES	IR	NO
EASTING	14405	NORTHING	95910
ALT	150	ZONE	16

ENTER THE COMPUTER MET MESSAGE AND APPLY THE MET

COMPUTER MET MESSAGE

IDENTIFI- CATION	OCTANT	LOCATION LaLaLa LoLoLo or or xxx xxx	DATE YY	TIME (GMT) GoGoGo	DURATION (HOURS) G	STATION HEIGHT (10's M) hhh	MDP PRESSURE MB's PdPdPd
METCM	Q						
METCM	0	347 983				037	977
ZONE HEIGHTS (METERS)	LINE NUMBER ZZ	ZONE VALUES					
		WIND DIRECTION (10's M) ddd	WIND SPEED (KNOTS) FFF	TEMPERATURE (1/10 K) TTTT	PRESSURE (MILLIBARS) PPPP		
SURFACE	00	160	007	2900	0977		
200	01	187	011	2887	0965		
500	02	220	015	2878	0937		
1000	03	248	017	2868	0893		
1500	04	278	013	2852	0842		
2000	05	320	011	2830	0793		
2500	06	362	013	2796	0746		
3000	07	378	016	2766	0701		
3500	08	384	017	2737	0659		
4000	09	399	020	2705	0641		
4500	10	415	018	2685	0625		
5000	11						
6000	12						
FROM TO		DATE & TIME (GMT)			DATE & TIME (LST)		
MESSAGE NUMBER					CHECKED		

COMPUTER'S RECORD

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

REGISTRATION

ORGANIZATION	DATE	TIME	OBSERVER ID F16	TARGET NUMBER AB0001
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION		SHIFT FROM _____ OT DIRECTION _____ ALTITUDE _____		POLAR OT DIRECTION _____ ALTITUDE _____ DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____
GRID 16S GA 15410 / 93110 OT DIRECTION 3100 ALTITUDE 165		☐ LEFT / ☐ RIGHT ☐ ADD / ☐ DROP ☐ UP / ☐ DOWN		

TARGET DESCRIPTION REGISTRATION POINT

METHOD OF ENGAGEMENT		PREPARE TO REG. RP 01	
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 CM	VI/ALT CORRECTION ☐ + ☐ -	METHOD OF FIRE 1 RD	
SHEAF CORRECTION _____	RANGE CORRECTION ☐ + ☐ -	DEFLECTION 2860	MAX ORD 1460m
SHELL AND FUZE HEQ	CHARGE _____	CHARGE 2	TOF 32
METHOD OF FFE _____	RANGE 2974	ELEVATION 1016	MARK TIME
RANGE LATERAL SPREAD _____	AZIMUTH 2849	TIME SETTING _____	
TIME OF OPENING FIRE W/R	ANGLE T 0250		
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	
R 200	+ 200			3129				2781	3		1210	②
L 100	- 100			3049				2819			1222	③
	- 50			3000				2823	2		1006	④
	+ 25	REGISTRATION COMPLETE				MTO: PREPARE TO ADJUST SHEAF, S/R						
#1				3025	SEC	S/R #2 DNL		2821			0997	⑦
L 10					#1	2825						
#3					#3	2819						
R 10					#4	2816						
#4					SEC	REFER		2821	R/A	A/P		
R 20	SHEAF ADJUSTED											
EOM: RECORD AS RP 01					RNCF: +016 AZCF: +039							

COMPUTER'S RECORD

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

ORGANIZATION	DATE	TIME	OBSERVER ID F16	TARGET NUMBER AB0002
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☒ 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 _____ ☐ + ☐ _____
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GRID **16S GA 15250 / 93550**
 OT DIRECTION **1200**
 ALTITUDE **150**

TARGET DESCRIPTION **FPF 150 x 50, ATT: 2400, CENTER** SECTION RIGHT

METHOD OF ENGAGEMENT **DANGER CLOSE, HED I/ADJ** **1700**

FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED																
MORTAR TO FFE SEC	DEFLECTION _____	MORTAR TO FOLLOW SEC	(4)																
MORTAR TO ADJ _____	DEFLECTION CORRECTION ☐ L ☐ R	SHELL AND FUZE HED																	
METHOD OF ADJ 1 RD	RANGE _____	MORTAR TO FIRE _____																	
BASIS FOR CORRECTION RP 01 / CM	VIA/ALT CORRECTION ☐ + ☐ -	METHOD OF FIRE 1 RD S/R, AMC																	
SHEAF CORRECTION SPC/CENTER	RANGE CORRECTION ☐ + ☐ -	10 RDS HEQ I/ FFE	MAX ORD																
SHELL AND FUZE HED I/ ADJ	RANGE 2488	<table border="1"> <tr> <th>#1</th> <th>#2</th> <th>#3</th> <th>#4</th> </tr> <tr> <td>DEFLECTION 2826</td> <td>2818</td> <td>2811</td> <td>2803</td> </tr> <tr> <td>CHARGE 2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ELEVATION 1157</td> <td>1149</td> <td>1141</td> <td>1133</td> </tr> </table>	#1	#2	#3	#4	DEFLECTION 2826	2818	2811	2803	CHARGE 2	2	2	2	ELEVATION 1157	1149	1141	1133	1659m
#1	#2	#3	#4																
DEFLECTION 2826	2818	2811	2803																
CHARGE 2	2	2	2																
ELEVATION 1157	1149	1141	1133																
HEQ I/ FFE	CHARGE _____		TOF																
METHOD OF FFE 10 RDS	RANGE 2853		35																
RANGE LATERAL SPREAD _____	ANGLE T 1650																		
TIME OF OPENING FIRE AMC																			
MOC TYPE WR ☐ AMC ☒ TOT ☐ OTH ☐																			

FO DETERMINES AFTER FIRING S/R THAT #4 IS DANGER CLOSE GUN

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS							
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV	
	- 100			2561	#4	1 RD		2764	2		1131	(5)
R 25	- 100			2597	#4	1 RD		2727	2		1122	(6)
	- 100			2613	#4	1 RD		2689	2		1118	(7)
R 25	- 50			2647	#4	1 RD		2672	2		1108	(8)
		#4 ADJ, FIRE #3		2647	#4	DNL		2672	2		1108	
				2613	#3	1 RD		2678	2		1118	(9)
#3 R 10				2623	#3	DNL		2679	2		1115	
		#3 ADJ, FIRE #2		2579	#2	1 RD		2684	2		1127	(10)
		#2 ADJ, FIRE #1		2579	#2	DNL		2684	2		1127	
				2546	#1	1 RD		2689	2		1136	(11)
	#1 + 20	#1 ADJ, FPF ADJ		2541	#1	DNL		2697	2		1137	

BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

NOTE: END FPF

FO SENDS: FIRE FPF

TOTAL RDS FIRED=

(51)

EOM: DELETE FPF

FDC DETERMINED #4 IS DANGER CLOSE GUN

COMPUTER'S RECORD

Form, see TC 3-22.91; the proponent agency is TRADOC

PPF METHOD 2

ORGANIZATION			DATE		TIME		OBSERVER ID		TARGET NUMBER		
							F16		AB0003		
☒ ADJUST FIRE ☐ FIRE FOR EFFECT ☐ IMMEDIATE SUPPRESSION			SHIFT FROM _____			POLAR					
			OT DIRECTION _____ ALTITUDE _____			OT DIRECTION _____ ALTITUDE _____					
GRID 16S GA 15250 / 93550			☐ LEFT / ☐ RIGHT _____ ☐ ADD / ☐ DROP _____ ☐ UP / ☐ DOWN _____			DISTANCE _____ VERTICAL INTERVAL _____ ☐ UP / ☐ DOWN VERTICAL ANGLE _____ ☐ + ☐ _____					
OT DIRECTION 1200											
ALTITUDE 150											
TARGET DESCRIPTION											
PF 150 x 50, ATT: 2400, CENTER											
METHOD OF ENGAGEMENT											
DANGER CLOSE, HED I/ADJ											
FDC ORDER			INITIAL CHART DATA				INITIAL FIRE COMMAND			ROUNDS EXPENDED	
MORTAR TO FFE SEC			DEFLECTION _____				MORTAR TO FOLLOW SEC			(1)	
MORTAR TO ADJ #4			DEFLECTION CORRECTION				SHELL AND FUZE HED				
METHOD OF ADJ 1 RD			☐ L ☐ R				MORTAR TO FIRE #4				
BASIS FOR CORRECTION RP 01 / CM			RANGE _____				METHOD OF FIRE 1 RD AMC				
SHEAF CORRECTION SPC/CENTER			VI/ALT CORRECTION				MAX ORD			1637m	
SHELL AND FUZE HED I/ ADJ			☐ + ☐ -				10 RDS HEQ I / FFE				
HEQ I / FFE			RANGE CORRECTION				DEFLECTION 2803			TOF	
METHOD OF FFE 10 RDS			☐ + ☐ -				CHARGE 2				
RANGE LATERAL SPREAD _____			CHARGE _____				ELEVATION 1133			34	
TIME OF OPENING FIRE AMC			RANGE 2552				TIME SETTING _____			MARK TIME	
MOC TYPE WR ☐ AMC ☒ TOT ☐ OTH ☐			AZIMUTH 2869								
OBSERVER CORRECTION			CHART/SAFETY DATA				SUBSEQUENT COMMANDS				
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
	- 100			2561	#4	1 RD		2764	2		1131
R 25	- 100			2597	#4	1 RD		2727	2		1122
	- 100			2613	#4	1 RD		2689	2		1118
R 25	- 50			2647	#4	1 RD		2672	2		1108
		PPF ADJ			SEC	10 RDS					
				2546	#1	HEQ		2689	2		1135
				2580	#2			2684	2		1127
				2613	#3			2678	2		1118
				2648	#4			2672	2		1108
FO SENDS: FIRE PPF											(45)

BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

16S GA 14948 / 93371 ALT 150

DA FORM 2399, MAY 2017

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NOTE: END PPF

EOM: DELETE PPF

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

[illegible]

COMPUTER'S RECORD

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ILLUMINATION

ORGANIZATION	DATE	TIME	OBSERVER ID F16	TARGET NUMBER AB0005
☒ 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 16S GA 15015 / 93850 OT DIRECTION 1020 ALTITUDE 150				

TARGET DESCRIPTION **SUSPECTED ENEMY MOVEMENT**

METHOD OF ENGAGEMENT **ILLUMINATION**

FDC ORDER	INITIAL CHART DATA	INITIAL FIRE COMMAND	ROUNDS EXPENDED
MORTAR TO FFE #1	DEFLECTION _____	MORTAR TO FOLLOW #1	(1)
MORTAR TO ADJ 1 RD	DEFLECTION CORRECTION ☐ L ☐ R	SHELL AND FUZE ILL	
METHOD OF ADJ _____	RANGE _____	MORTAR TO FIRE 1 RD // ADJ	
BASIS FOR CORRECTION CM	V/ALT CORRECTION ☐ + ☐ -	METHOD OF FIRE _____	MAX ORD
SHEAF CORRECTION _____	RANGE CORRECTION ☐ + ☐ -	2 RDS // FFE, AMC	1725m
SHELL AND FUZE ILL	CHARGE _____	DEFLECTION 2821	TOF
METHOD OF FFE 2 RDS	RANGE 2148	CHARGE 2	34
RANGE LATERAL SPREAD _____	AZIMUTH 2890	ELEVATION 1191	MARK TIME
TIME OF OPENING FIRE AMC	ANGLE T _____	TIME SETTING 33.8	
MOC TYPE WR ☐ AMC ☒ TOT ☐ OTH ☐		CE 15064 CN 93692	

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
R 200	- 400	D 100		2469				2684		33.2	1116
		U 50	PREPARE TO MARK ILLUMINATION								
				2469						32.7	1108
5-4-3-2-1- MARK ILL.....55 SEC'S											
FDC THIS IS F16, ADJ FIRE GRID											

BATTLE DAMAGE ASSESSMENT (BDA):

AIM POINT GRID:

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ORGANIZATION			DATE		TIME		OBSERVER ID		TARGET NUMBER		
							F16		AB0007		
☒ 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 16S GA 15660 / 94315 OT DIRECTION 1020 ALTITUDE 150											
TARGET DESCRIPTION SUPPLY CONVOY: 350 x 40, ATT: 2500, CENTER											
METHOD OF ENGAGEMENT 1500											
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			MAX ORD		
BASIS FOR CORRECTION RP 01 / CM			VI/ALT CORRECTION ☐ + ☐ -			METHOD OF FIRE 1 RD II / ADJ			1782m		
SHEAF CORRECTION _____			RANGE CORRECTION ☐ + ☐ -			DEFLECTION 3146			TOF		
SHELL AND FUZE HEQ			CHARGE _____			CHARGE 2			37		
METHOD OF FFE _____			RANGE 2029			ELEVATION 1250			MARK TIME		
RANGE LATERAL SPREAD _____			AZIMUTH 2521			TIME SETTING _____					
TIME OF OPENING FIRE W/R			ANGLE T 1500								
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
R 100				2129				3141			1230
	- 50	FFE	SEC 5 RDS; SEARCH DOWN; .5 TURNS BETWEEN RDS								
				2005	#1			3131			1264
				2081	#2			3117			1249
				2157	#3			3104			1233
				2233	#4			3091			1217
Relative Orientation: 30			EOM: TGT NO SAVE								
Max Search Limits: 484											
Min Traverse Limits: 800											
BATTLE DAMAGE ASSESSMENT (BDA):											
EST 80% CAS											
AIM POINT GRID: 16S GA 15672 / 94204 ALT 150											
DA FORM 2399, MAY 2017											
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COMPUTER'S RECORD

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QUICK SMOKE

HUMIDITY= 30, TEMP GRAD= LAPSE, WIND SPEED= 3-4,
WINDS= HEAD, IMPACT= LAND, LENGTH= 300, MINS= 8.
WIND DIRECTION= FROM THE RIGHT

OBSERVER ID

F16

TARGET NUMBER

AB0008

☒ ADJUST FIRE☐ FIRE FOR EFFECT☐ IMMEDIATE SUPPRESSION

SHIFT FROM

POLAR

OT DIRECTION

ALTITUDE

DISTANCE

VERTICAL INTERVAL

☐ UP / ☐ DOWN

VERTICAL ANGLE

☐ + ☐GRID **16S GA 16145 / 94005**OT DIRECTION **1180**ALTITUDE **150**

OT DIRECTION

ALTITUDE

☐ LEFT / ☐ RIGHT☐ ADD / ☐ DROP☐ UP / ☐ DOWN

TARGET DESCRIPTION

SCREEN WOOD LINE 300 x 40, 8 MIN, ATT: 2000, CENTER

METHOD OF ENGAGEMENT

1300

FDC ORDER

INITIAL CHART DATA

INITIAL FIRE COMMAND

ROUNDS
EXPENDEDMORTAR TO FFE **SEC**

DEFLECTION

MORTAR TO FOLLOW **SEC**MORTAR TO ADJ **#2**

DEFLECTION CORRECTION

SHELL AND FUZE **HEQ**METHOD OF ADJ **1 RD**☐ L ☐ RMORTAR TO FIRE **#2****1 HE / 1 RP // ADJ**BASIS FOR CORRECTION **CM**

RANGE

METHOD OF FIRE

SHEAF CORRECTION **SPC / CTR**

VI/ALT CORRECTION

5 RP // FFESHELL AND FUZE **HEQ / RP // ADJ**☐ + ☐ -**(1) HE**

MAX ORD

1639m**5 RP // FFE**

RANGE CORRECTION

DEFLECTION **3257**

METHOD OF FFE

☐ + ☐ -

CHARGE

2

TOF

35

RANGE LATERAL SPREAD

CHARGE

ELEVATION

1135TIME OF OPENING FIRE **W/R**

RANGE

2580

TIME SETTING

MARK
TIMEMOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐

AZIMUTH

2446

ANGLE T

1270

OBSERVER CORRECTION

CHART/SAFETY DATA

SUBSEQUENT COMMANDS

DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV	
R 50	- 50			2612				3233			1126	(2) HE
REPEAT RP				2612	#2	1 RD RP		3237	2	28.6	0990	(1) RP
SMOKE ADJUSTED, FFE, AMC					SEC	5 RDS RP AMC						
				2559	#1			3236	2	29.1	1014	
				2612	#2			3237	2	28.6	0990	
				2665	#3			3234	3	39.7	1213	
				2717	#4			3234	3	39.5	1204	(93) RP
RP RD COUNT BY WPN #1= <u>23</u> RP #2= <u>24</u> RP #3= <u>23</u> RP #4= <u>23</u> RP												
ADJUSTMENT: <u>1</u> ESTABLISHMENT: <u>20</u> MAINTENANCE: <u>72</u> TOTAL: <u>93</u>												
CONT. FIRE FROM THE RIGHT SEC, S/R, <u>18</u> RDS, 1 rd at <u>6</u> SEC INT.												
EOM: NO SAVE												

AIM POINT GRID:

16S GA 16119 / 93939 ALT 150

A3 and A4 move to a new firing position.
Use the information below to input the new gun positions

UNIT LIST INFORMATION										
POLAR POSITON A4 FROM A3										
UNIT	DEVICE	OBS#	WPN / MOUNT	MNT AZ	REF DEFL	PROP TEMP	Zone SQR	EASTING	NORTHIN G	ALT
A3	GUN	N / A	M252	3100	2800	70	16S GA	14990	95949	130
UNIT	DEVICE	OBS#	WPN / MOUNT	MNT AZ	REF DEFL	PROP TEMP	Zone SQR	EASTING	NORTHIN G	ALT
A4	GUN	N / A	M252	3100	2800	70	16S GA	15023	95959	130

COMPUTER'S RECORD

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SPLIT SECTION

ORGANIZATION		DATE	TIME	OBSERVER ID	TARGET NUMBER
				F16	AB0009

☒ 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 _____ ☐ + ☐ _____
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GRID 16S GA 15445 / 93840 OT DIRECTION 1120 ALTITUDE 130	SQUAD IN OPEN
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METHOD OF ENGAGEMENT			
FDC ORDER		INITIAL CHART DATA	INITIAL FIRE COMMAND X 1600
MORTAR TO FFE SEC	DEFLECTION _____	MORTAR TO FOLLOW 1 & 2	1
MORTAR TO ADJ #2	DEFLECTION CORRECTION	SHELL AND FUZE HEQ	
METHOD OF ADJ 1 RD	☐ L ☐ R		
BASIS FOR CORRECTION RP01 / CM	RANGE _____	MORTAR TO FIRE #2	MAX ORD
SHEAF CORRECTION LINEAR	VII/ALT CORRECTION	METHOD OF FIRE 1 RD /ADJ	
SHELL AND FUZE HEQ	☐ + ☐ -	3 RDS I/FFE	
METHOD OF FFE 3 RDS	RANGE CORRECTION	DEFLECTION 2944	1714m
RANGE LATERAL SPREAD _____	☐ + ☐ -	CHARGE 2	
TIME OF OPENING FIRE WR	CHARGE _____	ELEVATION 1191	
MOC TYPE WR ☒ AMC ☐ TOT ☐ OTH ☐	RANGE 2316	TIME SETTING _____	36
AZIMUTH 2726			MARK TIME
ANGLE T 1610			

OBSERVER CORRECTION			CHART/SAFETY DATA		SUBSEQUENT COMMANDS						
DEV	RANGE	TIME (HEIGHT)	DEF/AZ	RANGE	MORTAR FIRE	METHOD FIRE	AIM AZIMUTH	DEFLECTION	CHARGE	TIME	ELEV
L 200	- 200			2127				2851			1232
R 100	+ 100			2219				2899			1213
	- 50	FFE			SEC	3 RDS					
				2226	#1			2865			1211
				2223	#2			2867			1212
				2101	#3			2819	2		1238
				2097	#4			2822	2		1239
EOM: TGT NO SAVE											

BATTLE DAMAGE ASSESSMENT (BDA): **EST 70% CAS**AIM POINT GRID: **16S GA 15265 / 93860 AI T 130**

DA FORM 2399, MAY 2017

PREVIOUS EDITIONS ARE OBSOLETE.

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