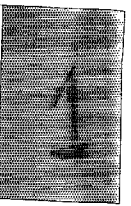




UNITED STATES CENTRAL COMMAND  
7115 SOUTH BOUNDARY BOULEVARD  
MACDILL AIR FORCE BASE, FLORIDA 33621-5101



CCJ4

MEMORANDUM FOR Director for Logistics, the Joint Staff, Washington, DC 20318-0300

SUBJECT: Depleted Uranium Usage, Operation IRAQI FREEDOM (OIF)

- (a) JS Vice Director Memorandum, 9 Sep 03, Subject: Request for Information on Depleted Uranium Usage, Operation IRAQI FREEDOM (OIF)
- (b) CENTCOM message dtg 111144Z AUG 03

- ENCL: (1) ARCENT's Depleted Uranium Usage During OIF  
(2) CENTAF's Depleted Uranium Usage During OIF  
(3) MARCENT's Depleted Uranium Usage During OIF  
(4) CENTCOM's Data Summary

1. Per reference (a), CENTCOM directed that components account for the storage, expenditure, removal, and destruction of all munitions and equipment containing depleted uranium (DU), including the locations of both training and combat expenditures, as well as information regarding the handling and disposition of DU-contaminated equipment during Operation IRAQI FREEDOM (OIF). CENTCOM made the request by message, reference (b). The enclosed reports provide the responses from ARCENT, CENTAF, and MARCENT. NAVCENT and SOCCENT did not expend any Depleted Uranium munitions.

2. Both ARCENT and MARCENT noted the difficulty in "tracking" the latitude and longitude of individual DU rounds fired during ground combat. With this in mind, the information provided is general latitudes and longitudes of battle areas; DU rounds may have impacted anywhere within these areas. ARCENT and CENTAF have data still to be collected to complete their submissions, and the remaining data will be provided prior to 20OCT03. A summary of data provided to date is provided in enclosure (4).

3. CENTCOM's point of contact is

(b)(6)

WILLIAM E. MORTENSEN  
Major General, USA  
Director of Logistics

Tab  
A

**From:** JOC CENTAF  
**Sent:** Thursday, August 12, 2004 9:42 AM  
**To:** JOC AIR  
**Subject:** FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Forwarded as requested.

-----Original Message-----

**From:** (b)(6)  
**Sent:** Wednesday, August 11, 2004 5:43 AM  
**To:** CENTCOM CCJ3-O RFI Manager  
**Cc:** JOC CENTAF  
**Subject:** FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Sir,  
Please pass along to the JS, if or as necessary. We just got asked about this early this morning.

VR,  
(b)(6)

-----Original Message-----

**From:** JOC CENTAF  
**Sent:** Wednesday, August 11, 2004 2:19 AM  
**To:** Wasielewski, (b)(6)  
**Subject:** RE: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

(b)(6) et al,

This Tasker was closed out here through CENTAF on 7 Aug. The message (as shown below) was sent to the CENTCOM CCJ3-O RFI Manager. This response was sent:

Sir,  
To the following question: " Have any of the laser or satellite-guided bombs, guided missiles, or Tomahawk or air-launched cruise missiles, used in Iraq since March 19, 2003, incorporated any components manufactured from depleted uranium or any alloy of any type of uranium".

CENTAF response is: "...Our review of the constituent's specific question regarding the use of certain munitions in recent operations confirms that none of the guided bombs or cruise missiles that the U.S. used in Iraq and Afghanistan contained uranium of any type..."

V/R

(b)(6)  
USCENTCOM JOC CENTAF FWD  
DSN (b)(6)  
DRSN (b)(6)  
(b)(6)

-----Original Message-----

**From:** (b)(6)  
**Sent:** Tuesday, August 10, 2004 9:52 PM  
**To:** JOC CENTAF  
**Subject:** FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Sir,

Any words?

VR,

(b)(6)

-----Original Message-----

From: CENTCOM SJS (Secretary Joint Staff)

Sent: Monday, August 09, 2004 5:26 PM

To: (b)(6) (USAF)

Subject: FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Was this reply formalized and sent to requester at JCS ?

R/

(b)(6)

-----Original Message-----

From: JOC CENTAF

Sent: Saturday, August 07, 2004 11:20 AM

To: CENTCOM CCJ3-O RFI Manager

Cc: (b)(6); CAT CENTAF; JOC AIR; JOC CENTAF; (b)(6)

(b)(6) BG Douglas E. (USA)

Subject: FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Sir,

To the following question: " Have any of the laser or satellite-guided bombs, guided missiles, or Tomahawk or air-launched cruise missiles, used in Iraq since March 19, 2003, incorporated any components manufactured from depleted uranium or any alloy of any type of uranium".

CENTAF response is: "...Our review of the constituent's specific question regarding the use of certain munitions in recent operations confirms that none of the guided bombs or cruise missiles that the U.S. used in Iraq and Afghanistan contained uranium of any type..."

Please ensure this answer gets to BG Lute.

v/r

(b)(6)

USCENTCOM JOC CENTAF LNO

DSN (b)(6)

DRSN (b)(6)

(b)(6)

-----Original Message-----

From: AUABCAOC Director of Staff

[mailto:(b)(6)]

Sent: Saturday, August 07, 2004 6:11 PM

To: JOC CENTAF

Cc: CAT CENTAF; 9 AF/DS Director of Staff

Subject: FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Classification: UNCLASSIFIED

JOC,

To the following question: " Have any of the laser or satellite-guided bombs, guided missiles, or Tomahawk or air-launched cruise missiles, used in Iraq since March 19, 2003, incorporated any components manufactured from depleted uranium or any alloy of any type of uranium".

CENTAF response is: "...Our review of the constituent's specific question regarding the use of certain munitions in recent operations confirms that none of the guided bombs or cruise missiles that the U.S. used in Iraq and Afghanistan contained uranium of any type..."

Please ensure this answer gets to BG Lute.

v/r

(b)(6)  
CAOC Deputy Director of Staff

-----Original Message-----

From: Seip Norman Brig Gen CENTAF-AUAB CAOC DCFACC  
Sent: Saturday, August 07, 2004 4:36 PM  
To: (b)(6) CENTAF-AUAB CAOC DIRECTOR OF STAFF  
Subject: RE: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

UNCLASSIFIED

boomer--ok--send pls to BG Lute--thanks--ns

-----Original Message-----

From: (b)(6) CENTAF-AUAB CAOC DIRECTOR OF STAFF  
Sent: Saturday, August 07, 2004 12:53 PM  
To: Seip Norman Brig Gen CENTAF-AUAB CAOC DCFACC  
Subject: FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038  
Importance: High

Classification: UNCLASSIFIED

Gen Seip, this is a tasker which came down today and due at 1600 today. Wanted to ensure you're chop before we relpy to JOC CENTAF. Gen Lute asked for CFACC/DCFACC input:

" Have any of the laser or satellite-guided bombs, guided missiles, or Tomahawk or air-launched cruise missiles, used in Iraq since March 19, 2003, incorporated any components manufactured from depleted uranium or any alloy of any type of uranium".

The following statement is correct WRT to question:

"...Our review of the constituent's specific question regarding the use of certain munitions in recent operations confirms that none of the guided bombs or cruise missiles that the U.S. used in Iraq and Afghanistan contained uranium of any type..."

vr/ (b)(6)

(b)(6)

CAOC D/S

(b)(6)

-----Original Message-----

From: (b)(6) CENTAF-FWD/A3

Sent: Saturday, August 07, 2004 3:43 PM

To: AUABCAOC Director of Staff

Subject: FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Classification: UNCLASSIFIED

A3F Comments below.

-----Original Message-----

From: (b)(6) CENTAF-AUAB CAOC A-3

Sent: Saturday, August 07, 2004 3:30 PM

To: (b)(6) CENTAF-FWD/A3

Subject: RE: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038

Classification: UNCLASSIFIED

To the best of my knowledge, within the short time able to analyze the following question:

" Have any of the laser or satellite-guided bombs, guided missiles, or Tomahawk or air-launched cruise missiles, used in Iraq since March 19, 2003, incorporated any components manufactured from depleted uranium or any alloy of any type of uranium".

The following statement is correct WRT to question:

"...Our review of the constituent's specific question regarding the use of certain munitions in recent operations confirms that none of the guided bombs or cruise missiles that the U.S. used in Iraq and Afghanistan contained uranium of any type..."

(b)(6)

(b)(6)

CAOC A3 FWD CAS Action Officer

DSN (b)(6)

-----Original Message-----

From: (b)(6) CENTAF-FWD/A3  
Sent: Saturday, August 07, 2004 11:45 AM  
To: (b)(6) CENTAF-AUAB CAOC A-3; (b)(6)  
CENTAF-AUAB CAOC A-3 DIRECTOR OF STAFF  
Cc: (b)(6) CENTAF-AUAB CAOC A3; (b)(6)  
CENTAF-AUAB CAOC JA  
Subject: FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE  
TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES  
IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038  
Importance: High

Classification: UNCLASSIFIED

(b)(6)-- I need a proposed response for the DCFACC on this. Please keep it unclass and approx 2 paragraphs. Will run it by the JAG before we send it back. If you need an A4 input, please talk with them quick. I need a response by 1545.

Thx ... (b)(6)

-----Original Message-----

From: AUABCAOC Director of Staff  
Sent: Saturday, August 07, 2004 2:35 PM  
To: AUABAFFOR/A3  
Subject: FW: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE  
TO SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES  
IN IRAQ A ND AFGHANISTAN Tasker # 20040804-038  
Importance: High

Classification: UNCLASSIFIED

OPR: A3f

Suspense: 1600L 7 Aug

(b)(6)  
CAOC Deputy Director of Staff

-----Original Message-----

From: JOC CENTAF [mailto:(b)(6)]  
Sent: Saturday, August 07, 2004 2:27 PM  
To: '6. AUABCAOC Director of Staff'  
Cc: '1. 9AF/DS'; CAT CENTAF; JOC CENTAF; (b)(6)  
(b)(6)  
Subject: TASKER: HOT! JOINT STAFF TASKER--COORDINATION ON RESPONSE TO  
SENA TOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN  
IRAQ A ND AFGHANISTAN Tasker # 20040804-038  
Importance: High

Sir,  
Believe it or not, this question continues to rear it's ugly head. Could you please provide an e-mail as supporting documentation on this subject

(USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND AFGHANISTAN ).  
The bottom line is that we have not used depleted Uranium in any of our weapons in Iraq and we have civilian authorities stating that (Ref. below ), but the powers that be want the military to also state this. This is very time sensitive (It is due today) 7 Aug / 1600Z.

1. Purpose. To obtain J3 signature on Memo at TAB A.
2. Discussion. (b)(6) has requested DJS coordinate on a response letter to Senator Jon Kyl regarding a letter from a constituent on the use of depleted uranium in bombs and missiles in Iraq and Afghanistan.

a. The constituent's specific question is:

" Have any of the laser or satellite-guided bombs, guided missiles, or Tomahawk or air-launched cruise missiles, used in Iraq since March 19, 2003, incorporated any components manufactured from depleted uranium or any alloy of any type of uranium".

b. The response letter to Senator Kyl from the Director of Defense Systems states:

"...Our review of the constituent's specific question regarding the use of certain munitions in recent operations confirms that none of the guided bombs or cruise missiles that the U.S. used in Iraq and Afghanistan contained uranium of any type..."

3. Recommendation. Please provide response to this tasker NLT 7 Aug / 1600Z.

v/r

(b)(6)  
USCENTCOM JOC CENTAF LNO  
DSN (b)(6)  
DRSN (b)(6)  
(b)(6)

> -----Original Message-----

> From: JOC AIR  
> Sent: Saturday, August 07, 2004 1:55 PM  
> To: JOC CENTAF  
> Cc: (b)(6)  
> Subject: FW: JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENATOR  
> KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND  
> AFGHANISTAN Tasker # 20040804-038  
>  
> CENTAF  
> Could you please provide an e-mail as supporting documentation on  
> this subject (USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND  
> AFGHANISTAN ). The bottom line is that we have not used depleted Uranium  
> in any of our weapons in Iraq and we have civilian authorities stating  
> that (Ref. below ), but the powers that be want the military to also state  
> this. This is very time sensitive (It is due today).  
> Please send your response to (b)(6) as he is the action officer on  
> this tasker. Thanks for the help.  
> Semper Fi

> [redacted] (b)(6)  
> CCJ-3 OPS CENTCOM  
> JOC AIR x-8388  
> Time Sensitive Targeting  
> DSN [redacted] (b)(6)  
> IP 2064

> -----Original Message-----

> From: CENTCOM CCJ3-O RFI Manager  
> Sent: Saturday, August 07, 2004 1:36 PM  
> To: [redacted] (b)(6) (USMC)  
> Subject: FW: JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENATOR  
> KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND  
> AFGHANISTAN Tasker # 20040804-038

> [redacted] (b)(6)

> I got two no deliveries to JOC AIR. Take of this please.

> [redacted] (b)(6)

> [redacted] (b)(6) USAF  
> Chief, Current Air Operations Branch Chief  
> USCENTCOM, CCJ3-OA  
> FWD [redacted] (b)(6)  
> DRSN [redacted] (b)(6)

> -----Original Message-----

> From: CENTCOM CCJ3-O RFI Manager  
> Sent: Saturday, August 07, 2004 1:32 PM  
> To: JOC AIR  
> Subject: FW: JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENATOR  
> KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND  
> AFGHANISTAN Tasker # 20040804-038

> [redacted] (b)(6) USAF  
> Chief, Current Air Operations Branch Chief  
> USCENTCOM, CCJ3-OA  
> FWD [redacted] (b)(6)  
> DRSN [redacted] (b)(6)

> -----Original Message-----

> From: CENTCOM CCJ3-O RFI Manager  
> Sent: Saturday, August 07, 2004 1:15 PM  
> To: JOC AIR  
> Cc: [redacted] (b)(6)  
> Subject: FW: JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENATOR  
> KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND  
> AFGHANISTAN Tasker # 20040804-038

> Gents,



> You need to show the coordination that took place between CENTAF/CFACC,  
> who is was and when. An e-mail to back it up would be nice to upload in  
> the tool. Thanks and push it up!

> V/R,  
> (b)(6)/

> (b)(6) USAF  
> Chief, Current Air Operations Branch Chief  
> USCENTCOM, CCJ3-OA  
> FWD (b)(6)  
> DRSN (b)(6)

> -----Original Message-----

> From: (b)(6)  
> Sent: Saturday, August 07, 2004 6:09 AM  
> To: (b)(6)  
> Subject: JOINT STAFF TASKER--COORDINATION ON RESPONSE TO SENATOR KYL  
> REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND  
> AFGHANISTAN Tasker # 20040804-038

> =====UNCLASSIFIED===== ELECTRONIC STAFF PACKAGE

> SUBJECT: Coordination on Response to Senator Kyl Regarding Use of Depleted  
> Uranium in Bombs and Missiles in Iraq and Afghanistan

> -----SUMMARY

> (b)(6) has requested DJS coordinate on a response letter to Senator  
> Jon Kyl regarding a letter from a constituent on the use of depleted  
> uranium in bombs and missiles in Iraq and Afghanistan.

> -----Form 14

> <<Form14>>

> -----TAB A (Memo for J3 signature)

> <<TAB A>>

> -----TAB B (Director Defense Systems response to

> Senator Kyl)

> <<TAB B>>

> (b)(6)

(b)(6)

**USCENTCOM CCJ6-RDF**



**From:** (b)(6)  
**Sent:** Wednesday, September 24, 2003 9:35 AM  
**To:** CAT SG  
**Subject:** USCENTCOM POLICY FOR OPERATION IRAQI FREEDOM DEPLETED URANIUM (

RAAUZYUW RUEOMFO8397 2662006-UUUU--RUCAICS.  
ZNR UUUUU ZUI RUEOMCF7126 2662006  
R R 151735Z SEP 03  
FM USCENTCOM MACDILL AFB FL//COS//  
TO ZEN/CJTF7 TMS1 ADMIN  
ZEN/COMUSARCENT (FWD) DOHA KU  
INFO RUERHNA/CJTF 180CMDGRP  
RUCAICS/COMSOCCENT MACDILL AFB FL  
ZEN/CJTF HOA  
ZEN/COMUSCENTAF SHAW AFB SC  
ZEN/COMUSMARCENT  
ZEN/COMUSNAVCENT  
BT  
UNCLAS  
QQQQ  
SUBJ: USCENTCOM POLICY FOR OPERATION IRAQI FREEDOM DEPLETED URANIUM (DU) MEDICAL MANAGEMENT (U)  
UNCLASSIFIED//  
UNCLAS  
OPER/IRAQI FREEDOM//  
MSGID/GENADMIN/CCSG//  
SUBJ/USCENTCOM POLICY FOR OPERATION IRAQI FREEDOM DEPLETED URANIUM

PAGE 02 RUEOMFO8397 UNCLAS  
(DU) MEDICAL MANAGEMENT  
//

REF/A/ASD/HA OIF DU MED MGT POLICY HA 03/301200ZMAY2003// REF/B/ASD/JOINT STAFF OIF DU MED MGT POL/261200ZJUN2003// RMKS/1. COMPONENT COMMANDERS WILL IDENTIFY ALL PERSONNEL WITH LEVEL I AND LEVEL II EXPOSURES TO DEPLETED URANIUM IAW REFS A & B.

2. THE DESIRED END-STATE WILL BE THAT LEVEL I AND LEVEL II PERSONNEL WITHIN 180 DAYS POST-EXPOSURE AND STILL IN THEATER ARE IDENTIFIED, INTERVIEWED, CATEGORIZED AS TO POTENTIAL EXPOSURE LEVEL, TESTED, AND FULLY INFORMED OF RESULTS AND ANY HEALTH RISKS ASSOCIATED WITH DU EXPOSURE, IAW RESPECTIVE SERVICE POLICY.

3. POINT OF CONTACT FOR THIS ACTION: (b)(6) CCSG, FORCE HEALTH PROTECTION, DSN (b)(6)

(b)(6)

#8397

NNNN

Received from AUTODIN 232006Z SEP 03

(b)(6)



Q	23-Mar-03	RAMBO12	A10	30MM	160 5X VEHICLES	MASS	32.1833333	44.28333333	3211N 04417E	ATTACK 5X VEHICLES PARKED ON A DIRT ROAD.
Q	23-Mar-03	WOODY67	A10A	30MM	50 OBSERVATION POST	POST	32.25	44.053215N04403E		
Q	23-Mar-03	WOODY67	A10A	30MM	50 TOWED ARTILLERY	ARTILLERY	32.25	44.13215N04408E		
Q	23-Mar-03	WOODY68	A10A	30MM	100 OBSERVATION POST	POST	32.25	44.13215N04408E		
Q	23-Mar-03	WOODY76	A10A	30MM	100 ARTILLERY PIECES	PIECE	32.3166667	44.23219N04412E		AGAINST AN INDIVIDUAL IZ VEHICLE CONVOY HEADING AGAINST SEVERAL IZ VEHICLES IN A CONVOY HEADING
Q	23-Mar-03	ZEAL13	A10A	30MM	300 VEHICLE CONVOY	VEHICLE	32.3458333	44.19722222	322045N0441150E	TROOPS IN CONTACT HDG 270 850FT AGL AT 310KTS
Q	23-Mar-03	ZEAL73	A10A	30MM	250 TROOPS IN REVETMENTS	IN	31.2886111	45.28444444	311719N0451704E	TROOPS IN CONTACT HDG 270 750FT AGL AT 310KTS
Q	23-Mar-03	ZEAL73	A10A	30MM	250 TROOPS IN REVETMENTS	IN	31.2886111	45.28444444	311719N0451704E	TROOPS IN CONTACT HDG 270 750FT AGL AT 310KTS
Q	23-Mar-03	ZEAL74	A10A	30MM	300 TROOPS IN REVETMENTS	IN	31.2886111	45.28444444	311719N0451704E	TROOPS IN CONTACT HDG 270 600FT AGL AT 310KTS
Q	23-Mar-03	ZEAL74	A10A	30MM	300 TROOPS IN REVETMENTS	IN	31.2886111	45.28444444	311719N0451704E	TROOPS IN CONTACT HDG 270 600FT AGL AT 310KTS
R	24-Mar-03		A10A	30MM	11XT-55 TANK	IN				GROUND FAC.
R	24-Mar-03		A10A	30MM	11XT-55 TANK	IN				GROUND FAC.
R	24-Mar-03		A10A	30MM	17 VEHICLES IN COMPOUND	IN				ASSESSMENT FROM HUD VIDEO.
R	24-Mar-03	CORPUS15	A10A	30MM	100 ARTY PIT	IN	32.7052778	43.92388889	324219N0435528E	BRINGING THE TOTAL TO 300 RDS OF 30MM IN THE SAME
R	24-Mar-03	CORPUS15	A10A	30MM	150 ARTY PIT	IN	32.7052778	43.92388889	324219N0435528E	HIS ALTITUDE BUT IF THERE WAS SOMETHING IT WAS
R	24-Mar-03	CORPUS16	A10A	30MM	150 ARTY PIT	IN	32.7052778	43.92388889	324219N0435528E	
R	24-Mar-03	FEMUR61	A10A	30MM	160 IZ GROUND TROOPS IN TREE LINE	INFANTRY	30.4166667	47.96666667	3025N04758E	
R	24-Mar-03	FEMUR62	A10A	30MM	90 IZ GROUND TROOPS IN TREE LINE	INFANTRY	30.4166667	47.96666667	3025N04758E	
R	24-Mar-03	INLAW65	A10	30MM	230 GUARD SHACK	IN	33.2700687	42.41542	N3316.204 E042.41542	JSTARS, CALLSIGN MACHETTI AT N3316.204 E042.41542.
R	24-Mar-03	JUMBO21	A10A	30MM	200 MULTIPLE MIL VEHICLES	IN				THE RAZZAZZAH LAKE AND AN UNKN HWY AND FIRED
R	24-Mar-03	JUMBO22	A10A	30MM	251 MULTIPLE MIL VEHICLES	IN				THE RAZZAZZAH LAKE AND AN UNKN HWY AND FIRED
R	24-Mar-03	KERMIT05	A10A	30MM	130 CONVOY	VEHICLE	39.9166667	47.56666667	3055N04734E	
R	24-Mar-03	L	A10A	30MM	250 AMMO STORAGE WITH MULTIPLE VEHICLES	IN				STRAFE PASS CAUSING A CHAIN REACTION OF
R	24-Mar-03	L	A10A	30MM	1150 AMMO STORAGE WITH MULTIPLE VEHICLES	IN				ENVIRONMENT BY AFAC POPPY 11. TARGET APPEARED
R	24-Mar-03	L	A10A	30MM	900 AMMO STORAGE WITH MULTIPLE VEHICLES	IN				AREA STRAFING TWICE ONE RIGHT AFTER THE OTHER
R	24-Mar-03	TOTO11	A10	30MM	260 MRL BATTALION	IN	31.786167	47.12445	3146.717N 4707.467E	B2 EMPLOYMENT, TOTO 11 CIRCLED AND DID A GUN
S	25-Mar-03	DYNO21	A10	30MM	200 COMMAND POST	POST	30.7430556	47.52916667	304435N0473145E	COMMAND POST THAT IS BEEN GOING THROUGH THE
S	25-Mar-03	L	A10A	30MM	400 APC	IN	33.2271833	41.68653333	3313.687N 04141.138E	RDS EACH AGAINST THE 6 APCS. THEY WERE UNABLE
U	27-Mar-03		A10A	30MM	600 IZ TRACTOR AND TRAILER	IN				TRACTOR AND TRAILER LOCATED APPROX 30M
U	27-Mar-03		A10A	30MM	350 CONVOY OF 7 VEHICLES	IN	32.3176667	44.39033333	3219.06N04423.42E	AND 370 RDS 30MM GAU-8 ON 3 VEHICLES TO SUPPRESS
U	27-Mar-03		A10A	30MM	1000 XPOSS ASTROS IN WRL	IN	32.0198833	44.33956333	3201.193N04420.375E	STAB 28 HDG 245 FLT 060 EXPENDED 1000RDSX30MM
U	27-Mar-03		A10A	30MM	200 IZ ARTY PIECE	IN	32.5577778	46.79222222	323328N0464732E	300RDSX30MM CM ON 2XGUN PASSES AGAINST 2X IZ
U	27-Mar-03		A10A	30MM	400 ARTS WITH MILITARY EQUIPMENT	IN	32.8791667	44.3875	325245N0442315E	CARRYING 1X ARTY PIECE AND 3XTANKS. THE HETS AND
U	27-Mar-03		A10A	30MM	1100 IZ AMMO STORAGE REVETMENTS	IN	30.6697222	47.70688889	30491N0474232E	REVETMENTS LOCATED APPROX 150-200M APART
U	27-Mar-03		A10A	30MM	670 IZ ARMORED VEHICLES IN REVETMENTS	IN	30.675	47.7075	304030N0474227E	IN SAND REVETMENTS APPROX 150-200M APART
U	27-Mar-03		A10A	30MM	750 REVETTED ARMOR AND ARTILLERY	ARMOR AND	32.4743333	44.1205	3228.46N0407.23E	MAVERICKS, 8XMK42, AND 750 ROUNDS OF 30MM GAU-8
U	27-Mar-03		A10A	30MM	300 IZ ARTY PIECE	IN	32.5577778	46.79222222	323328N0464732E	200RDSX30MM CM ON 2XGUN PASSES AGAINST 2X IZ
U	27-Mar-03		A10A	30MM	300 IZ AMMO AND 3 ARMORED VEHICLES	IN	32.8504667	44.39065	3251.028N04422.851E	ALONG A TREE LINE BUT WERE UNABLE TO PID AFTER
U	27-Mar-03	DOGLEG75	A10A	30MM	130 S-60	S-60	32.3421667	44.82466667	3220.53N04449.48E	AMPLIFICATION
U	27-Mar-03	DOGLEG76	A10A	30MM	150 S-60	S-60	32.3421667	44.82466667	3220.53N04449.48E	
V	28-Mar-03		A10A	30MM	320 TANK REVETMENTS COVERED WITH TARPS	IN	32.8388889	44.27333333	324926N0441624E	AGAINST 3 TANK REVETMENTS COVERED WITH TARPS
V	28-Mar-03		A10A	30MM	150 TANK REVETMENTS COVERED WITH TARPS	IN	32.8388889	44.27333333	324926N0441624E	AGAINST 1 TANK REVETMENT COVERED WITH TARPS.
V	28-Mar-03		A10A	30MM	600 1X BUILDING	IN	31.3166667	45.26666667	3119N04516E	AGAINST TWO BUILDINGS IVO 3119N04516E AT 080FL.
V	28-Mar-03		A10A	30MM	300 MIL COMPOUND	IN	32.4666667	45.13333333	3228N04508E	MILITARY COMPOUND IVO 3228N04508E. THE FLT MADE
V	28-Mar-03		A10A	30MM	500 POL STORAGE TANKS	IN	32.4683333	44.15833333	3228.1N4409.5E	AREA BY ADVANCE I5. BERTHA FLT MADE SEVERAL
V	28-Mar-03		A10A	30MM	900 POL STORAGE TANKS	IN	32.45	44.15	3227N4409E	AREA BY ADVANCE I5. BERTHA FLT MADE SEVERAL
V	28-Mar-03		A10A	30MM	500 3X VEHICLES IN REVETMENTS	IN	32.4666667	44.2	3228N04412E	OF 500RDSX30MM CM AT 100FL AND 300KIAS.
V	28-Mar-03	BARFLY23	A10A	30MM	175 XOL-FUEL TANKS	IN	32.4666667	44.17916667	3228N0441045E	CM HDG350 130FL 375KIAS. BARFLY 23 DID NOT SEE SECONDARIES
V	28-Mar-03	DEVOUR63	A10A	30MM	330 FUEL TANKS	IN	32.5333333	44.18333333	3232N04411E	CM HDG350 130FL 375KIAS. BARFLY 24 ASLO STRAFFED
V	28-Mar-03	GUNDOG41	A10	30MM	200 REPUBLICAN GUARD COMPOUND	DECONTAMIN	32.9277	45.675	3231.662N 04540.50E	DELOUR 54 STRAFED WITH 250 RDSX30MM AGAINST THE
V	28-Mar-03	GUNDOG42	A10	30MM	210 REPUBLICAN GUARD COMPOUND	DECONTAMIN	32.9277	45.675	3231.662N 04540.50E	CHEMICAL DECON VEHICLE LOCATED IVO 3231.662N
V	28-Mar-03	MORTARFA	A10A	30MM	1700 MORTAR FACTORY	IN				EXPENDING 700RDS HEI WITH HDG 360, 095FL, 350KIAS.
V	28-Mar-03	OXAJAW44	A10	30MM	100 FUEL TRUCK IN A MARSHALLING YARD	MASS	32.4833333	44.11666667	3229N 04407E	FUEL TRUCK IN A MARSHALLING AREA IVO 32228N
V	28-Mar-03	THICK71	A10	30MM	11 TOW REVETTED APC	IN				CARRIERS IVO 3229N 04407E AFTER RECEIVING
V	28-Mar-03	WHITEMI	A10A	30MM	178 WHITE MILITARY TRUCK	IN				AGAINST ONE WHITE MILITARY TRUCK. WALL 008 WAS
V	28-Mar-03	ZEAL28	A10	30MM	64 IN	EMPLACEMENT	34.1311667	42.2757	N3407.870 E04216.542	I X S-60 EMPLOYMENT AT N3407.870 E04216.542. HDG
V	28-Mar-03	ZEAL28	A10	30MM	160 IN	EMPLACEMENT	34.1311667	42.2757	N3407.870 E04216.542	AGAINST I X S-60 EMPLOYMENT AT N3407.870 E04216.542. HDG
W	29-Mar-03		A10	30MM	120 MILITARY COMPOUND	IN	30.5323333	47.27	3131.4N 04716.2E	WHEN THEY WERE VECTORED TO A MILITARY
W	29-Mar-03		A10	30MM	100 ARTILLERY IN REVETMENTS	IN	31.4225	47.86277778	312521N0472146E	
W	29-Mar-03		A10A	30MM	150 IZ TANK	IN				056 WITH 100RDSX30MM CM SPARKLING THE TANK TGT
W	29-Mar-03		A10A	30MM	150 IZ TANK	IN				060 WITH 1 PASS OF 150RDSX30MM CM PASS. MSV AND
W	29-Mar-03		A10A	30MM	400 MILITARY COMPOUND	IN				FL060, 350KIAS, 40DEG DOWN ANGLE WITH 200X30MM
W	29-Mar-03		A10A	30MM	550 MILITARY COMPOUND	IN				WHEN THEY WERE VECTORED TO A MILITARY
W	29-Mar-03		A10A	30MM	900 COMPOUND	IN				IN A MILITARY COMPOUND AT N3108 230E04727 384
W	29-Mar-03		A10A	30MM	100 EXGN-45 ARTILLERY PIECES	IN	31.1371667	47.4564	N3108.230E04727.384	PIECES AT N3101.088E04718.529 BETWEEN 2232Z-2235Z.
W	29-Mar-03		A10A	30MM	440 2X IZ TANK	IN	31.0181333	47.30881667	N3101.088E04718.529	FLT 100-950 WITH 440RDSX30MM CM SPARKLING THE
W	29-Mar-03		A10A	30MM	2150 STORAGE FACILITY	IN	32.025	47.16666667	3201.5N04725.0E	ATTACKED AT STORAGE FAC. IVO 3201.5N04725.0E. IN
W	29-Mar-03		A10A	30MM	200 IZ ARTY POSITION	IN	30.8694444	47.39388889	30580N0472338E	HDG 190, FLT 095 WITH 1 PASS OF 200RDSX30MM CM
W	29-Mar-03		A10A	30MM	270 REVETTED ARTILLERY PIECE	IN	32.0052333	47.45165	N3200.314 E04725.889	COMPLEX AT N3200.314 E04725.889 WITH 1XAGM-55D
W	29-Mar-03		A10A	30MM	200 IZ ARTY POSITION	IN	30.9669444	47.39388889	30580N0472338E	HDG 210, FLT 094 WITH 200RDSX30MM CM SPARKLING
W	29-Mar-03		A10A	30MM	100 IZ APC	IN				087 WITH 100RDSX30MM CM SPARKLING THE APC TGT
W	29-Mar-03		A10A	30MM	200 IZ ARTY POSITION	IN	30.9669444	47.39388889	30580N0472338E	HDG 215, FLT 090 WITH 200RDSX30MM CM SPARKLING

W	29-Mar-03	IN	A10A	30MM	200 1X IZ ARTY POSITION	IN	30.9669444	47.39388889	305801N0472338E	HGD 190. FLT 110 WITH 1 PASS OF 200RDSX30MM CM.
W	29-Mar-03	IN	A10A	30MM	350 STORAGE DEPOT	IN	32.515	45.23333333	3230.9N04514.0E	87AUL. THEY WERE TASKED TO ATTACK A STORAGE WHEN THEY WERE VECTORED TO A MILITARY
W	29-Mar-03	IN	A10A	30MM	1200 MILITARY COMPOUND	IN				090 WITH 200RDSX30MM CM SPARKLING THE TGT
W	29-Mar-03	IN	A10A	30MM	200 1X IZ TANK IN REVETMENT	IN				090 WITH 200RDSX30MM CM SPARKLING THE TGT
W	29-Mar-03	IN	A10A	30MM	200 2X IZ TRUCK CONVOY	IN	31.475	47.35111111	312320N0472140E	1XAGM85G MAVERICK. 150 PASSES. WSV AND PILOT
W	29-Mar-03	IN	A10A	30MM	900 ARTILLERY TUBES	EQUIPMENT	31.9536667	47.11233333	3157220N047074E	REVERTED EQUIPMENT ASSOCIATED WITH AN
W	29-Mar-03	IN	A10A	30MM	300 ARTILLERY BATTERY AND EQUIPMENT	EQUIPMENT	31.904125	47.12960833	30470746.58E	KAHUNA 73-74 WAS TASKED BY TWINACT TO TARGET
W	29-Mar-03	IN	A10A	30MM	400 MILITARY COMPOUND	IN	31.5249167	47.29433333	3131499N04715.860E	LINEN67 AND LINEN 68 WERE CALLED BY TROPICAL TO A
W	29-Mar-03	IN	A10A	30MM	200 MILITARY COMPOUND	IN	31.515	47.29433333	3130.9N04715.1E	N3108.114E04725.763 BETWEEN 0125Z AND 0150Z. STAB
W	29-Mar-03	IN	A10A	30MM	1230 ARTILLERY PIECES	IN	31.1519	47.42921667	N3109.114E04725.763	03231.118N 04523.659 WHILE WORKING THE AFAC
W	29-Mar-03	IN	A10A	30MM	120 ARTILLERY BATTALION	GUN TUBE				
W	29-Mar-03	IN	A10A	30MM	80 AMMO STORAGE REVETMENTS	MASS	31.5199194	47.27305556	313111.71N 0471623.90E	OF 30MM ON THE TRGT FROM 9K FT AGL. HDG 180. 350
W	29-Mar-03	IN	A10A	30MM	250 AMMO STORAGE REVETMENTS	MASS	31.5199194	47.27305556	313111.71N 0471623.90E	OF 30MM ON THE TRGT FROM 12K FT AGL. HDG 360. 363
W	29-Mar-03	IN	A10A	30MM	200 AMMO STORAGE REVETMENTS	MASS	31.5166667	47.27305556	313111.71N 0471623.90E	MAVERICKS ON 4 REVETTED BUNKER POSITIONS. 3
W	29-Mar-03	IN	A10A	30MM	1200 MILITARY COMPOUND	IN	30.4568333	47.78933333	3027.41N04717.38E	
W	29-Mar-03	IN	A10A	30MM	240 ARTILLERY	IN	31.5166667	47.25852667	31311N04715.486E	MILITARY COMPOUND AT COORDINATES
W	29-Mar-03	IN	A10A	30MM	1280 COMPOUND	IN				
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN	31.9002778	47.47472222	315401N0472829E	040 WITH 2X PASSES OF 200RDSX30MM EACH. PILOT
X	30-Mar-03	IN	A10A	30MM	400 IZ TANK FORMATIONS	IN	31.7984444	47.13490556	N314754.40E0470805.66E	PROVIDED TARGET AND RI POINTER FOR YOGI 55. YOGI
X	30-Mar-03	IN	A10A	30MM	700 REVETTED BMPS	IN	31.9002778	47.47472222	315401N0472829E	040 WITH 2X PASSES OF 175RDSX30MM EACH. PILOT
X	30-Mar-03	IN	A10A	30MM	400 IZ TANK FORMATIONS	IN				
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	150 ARMOR IN REVETMENTS	IN	31.1503389	47.427375	N310901.22E0472538.5E	AND ENGAGED MULTIPLE ARMORED VEHICLES IN
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	200 ARTILLERY IN REVETMENTS	IN	31.9151611	47.4728278	315454.58N 0472821.48E	PASS AT 0436Z FROM HDG360. FL168. 350KIAS. 40DEG
X	30-Mar-03	IN	A10A	30MM	1700 MILITARY COMPOUND	IN	31.46	47.31166667	3127.6N04718.7E	BEFORE BEING PASSED TO TROPICAL FOR CONTROL.
X	30-Mar-03	IN	A10A	30MM	1500 TANKS, APC'S, LIGHT SKIN VEHICLES	IN				
X	30-Mar-03	IN	A10A	30MM	100 MILITARY COMPOUND	IN				
X	30-Mar-03	IN	A10A	30MM	200 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	605 ARMOR VEHICLE AMMUNITION BUNKERS	IN	31.9116667	47.45166667	3154.7N04727.1E	FLT 035 WITH 1 PASS OF 150RDSX30MM CM. WSV AND
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	1900 NUMEROUS IZ APC, TANKS, TRUCKS	IN	31.1591697	47.43222222	3109.33N04725.6E	FLT 070 WITH 1 PASS OF 100RDSX30MM CM. PILOT
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	150 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	100 1X IZ TANK-APC	IN				
X	30-Mar-03	IN	A10A	30MM	200 REVETTED TANK	IN				
X	30-Mar-03	IN	A10A	30MM	300 POSS PARAMILITARY IN 2-STORY BLDG	IN	32.0833333	47.4266667	3203.48N0472536E	NASARIYAH TO SEARCH FOR POSS PARAMILITARIES. AT
X	30-Mar-03	IN	A10A	30MM	200 EQUIPMENT IN REVETMENTS	MASS	32.08955	47.42626667	N304.173N 04725.576E	EQUIPMENT IN REVETMENTS IVO 3204. 0750Z 04725.576E.
X	30-Mar-03	IN	A10A	30MM	150 TANK 2 OF 4	TANK	34.1055	42.41216667	N3406.33 E04224.73	AGAINST TANKS IN KILLBOX 90A0. TOT 0508Z NYLON21
X	30-Mar-03	IN	A10A	30MM	150 TANK 2 OF 4	TANK	34.1055	42.41216667	N3406.33 E04224.73	AGAINST TANKS IN KILLBOX 90A0. TOT 0456Z NYLON21
X	30-Mar-03	IN	A10A	30MM	100 TANK 3 OF 4	TANK	34.1055	42.41216667	N3406.33 E04224.73	AGAINST TANKS IN KILLBOX 90A0. TOT 0500Z NYLON21
X	30-Mar-03	IN	A10A	30MM	100 TANK 3 OF 4	TANKS	34.1055	42.41216667	N3406.33 E04224.73	AGAINST 1 X S-60 EMPLOYMENT. HDG 285. FLO85.
X	30-Mar-03	IN	A10A	30MM	128 S-60 EMPLOYMENTS	EMPLACEMENT	34.1978333	42.374	N3411.870 E04222.440	AGAINST 1 X S-60 EMPLOYMENT. HDG 280. FLO85.
X	30-Mar-03	IN	A10A	30MM	128 S-60 EMPLOYMENTS	EMPLACEMENT	34.1978333	42.374	N3411.870 E04222.440	REVERTED ARTILLERY TUBE LOCATED AT 3100.142N
X	30-Mar-03	IN	A10A	30MM	200 PROBABLE ARTILLERY BATTERY	PROBABLE	31.0023667	46.18753333	3100.142N 04610.032E	REVERTED VEHICLES. 3 SHORT BURSTS OF 30MM 150
X	30-Mar-03	IN	A10A	30MM	100 REVETTED VEHICLE AND TROOPS	VEHICLE	34.1055	42.41216667	N406.33N 04224.73E	REVETTED VEHICLES. 3 SHORT BURSTS OF 30MM 150
X	30-Mar-03	IN	A10A	30MM	150 REVETTED VEHICLE AND TROOPS	VEHICLE	34.1055	42.41216667	N406.33N 04224.73E	REVETTED VEHICLES. 3 SHORT BURSTS OF 30MM 150
X	30-Mar-03	IN	A10A	30MM	100 S-60	IN	34.1978667	42.37585	N3411.842 E04222.551	ATO. X. MSN 6343. DMPLI NA. VELVET43. 02. MMV
X	30-Mar-03	IN	A10A	30MM	118 POSS REVETTED ARMOR	IN	34.1978667	42.37585	N3411.842 E04222.551	ATO. X. MSN 6343. DMPLI NA. VELVET43. 04. MMV
X	30-Mar-03	IN	A10A	30MM	110 S-60	IN	34.1978667	42.37585	N3411.842 E04222.551	ATO. X. MSN 6343. DMPLI NA. VELVET43. 06. MMV
X	30-Mar-03	IN	A10A	30MM	173 S-60	IN	34.1978667	42.37585	N3411.842 E04222.551	ATO. X. MSN 6343. DMPLI NA. VELVET43. 03. MMV
X	30-Mar-03	IN	A10A	30MM	129 POS REVETTED ARMOR	IN	34.1978667	42.37585	N3411.842 E04222.551	ATO. X. MSN 6343. DMPLI NA. VELVET43. 01. MMV
X	30-Mar-03	IN	A10A	30MM	129 POS REVETTED ARMOR	IN	34.1978667	42.37585	N3411.842 E04222.551	ATO. X. MSN 6343. DMPLI NA. VELVET43. 07. MMV
X	30-Mar-03	IN	A10A	30MM	131 POS REVETTED ARMOR	IN	31.1321833	47.4332	3107.931N 04725.992E	MUNITIONS ON A SUSPECTED ARTY SITE AT 3107.931N
X	30-Mar-03	IN	A10A	30MM	131 POS REVETTED ARMOR	IN	31.1321833	47.4332	3107.931N 04725.992E	MUNITIONS ON A SUSPECTED ARTY SITE AT 3107.931N
X	30-Mar-03	IN	A10A	30MM	930 MILITARY COMPOUND	IN	31.1321833	47.4332	3107.931N 04725.992E	TRIG65 BEGAN A BOMBING RUN FROM HDG310. FL128.
X	30-Mar-03	IN	A10A	30MM	100 MILITARY COMPOUND	IN	32.61	45.89566667	3230.60N04553.74E	WERE TASKED TO ATTACK TANKS IN REVETMENTS IVO
X	30-Mar-03	IN	A10A	30MM	450 TANKS IN REVETMENTS	IN	31.1358333	47.45566667	3108.15N04727.34E	FROM GYPSUM 73 FLIGHT. THICK FLIGHT WAS IN THE
X	30-Mar-03	IN	A10A	30MM	150 ARMORED VEHICLES IN REVETMENTS	IN	31.1358333	47.45566667	3108.15N04727.34E	WAS VECTORED TO A MILITARY COMPOUND BY
X	30-Mar-03	IN	A10A	30MM	100 ARMOR AND SOFT-SKIN VEHICLES	IN				1632Z AT QV 34048 47274. KITE 53 HAD A FLIGHT
X	30-Mar-03	IN	A10A	30MM	300 IZ REVETTED VEHICLES	IN				VEHICLES IN REVETS WITH 300RDSX30MM HEL. WSV AND
X	30-Mar-03	IN	A10A	30MM	650 AMMO DUMPS	IN				1632Z AT QV 34048 47274. KITE 53 HAD A FLIGHT
X	30-Mar-03	IN	A10A	30MM	800 VEHICLES IN REVETMENTS	IN				SEAFOX 61 AFTER BEING DIRECTED TO THE TARGET
X	30-Mar-03	IN	A10A	30MM	300 1X IZ REVETTED APC	IN				IN REVET WITH 300RDSX30MM HEL. WSV AND PILOT
X	30-Mar-03	IN	A10A	30MM	350 IZ TANK FORMATIONS	IN	31.9002778	47.47472222	315401N0472829E	040 WITH 2X PASSES OF 200RDSX30MM CM EACH. PILOT
X	30-Mar-03	IN	A10A	30MM	800 POSS IZ TERRORIST BUSES	IN	32.6513889	45.98111111	47274.03N0453652E	TERRORISTS BOARDING SEVERAL WHITE BUSES WITH
X	30-Mar-03	IN	A10A	30MM	300 MILITARY COMPOUND	IN				AT 38R QV 34048472740310809.80N 0472717.20E
X	30-Mar-03	IN	A10A	30MM	350 IZ TANK FORMATIONS	IN	31.9002778	47.47472222	315401N0472829E	040 WITH 2X PASSES OF 175RDSX30MM CM EACH. PILOT
X	30-Mar-03	IN	A10A	30MM	300 APC'S, AND TANKS	IN	32.6166667	44.4	8237N04424E	300RDS 30MM AT 150FL. 350KIAS. AND 45 DEGREE DIVE.
X	30-Mar-03	IN	A10A	30MM	440 APC'S, AND ARMOR	IN	31.4333333	47.25666667	3126N04716E	WITH 200 RDS 30MM AT 150FL. HDG 190. 350 KIAS. 45
X	30-Mar-03	IN	A10A	30MM	250 1 TANK	IN				



Y	31-Mar-03	ATOMIC76	A10A	30MM	TANKS	31.43333333	47.26666667	3126N04716E	IN
Y	31-Mar-03	ATOMIC76	A10A	30MM	TANKS	31.43333333	47.26666667	3126N04716E	IN
Y	31-Mar-03	ATOMIC76	A10A	30MM	TANKS	31.43333333	47.26666667	3126N04716E	IN
Y	31-Mar-03	UN	A10A	30MM	TANKS	31.43333333	47.26666667	3126N04716E	IN
Y	31-Mar-03	EVELID17	A10	30MM	200 AMMO STORAGE BLDG	30.80865	47.64966667	3048.519N 04738.980E	AFAC. ATOMIC FLIGHT STATED IT WAS VERY DARK AND TARGETS AT 3048.519N 04738.980E. AT 0514Z, 4100FT. CONTROL OF DIABLE25. DIABLE 25 TASKED OXJAW FLI
Y	31-Mar-03	EVELID17	A10	30MM	200 AMMO STORAGE BLDG	30.80865	47.64966667	3048.519N 04738.980E	AMMO STORAGE CACHE WITH 400RDSX30MM HEI. PILOT
Y	31-Mar-03	MULTIPLEVEH	A10A	30MM	100 MULTIPLE VEH	32.4319889	44.45555556	322563N0442720E	AMMO STORAGE CACHE WITH 400RDSX30MM HEI. PILOT
Y	31-Mar-03	POSSIZ	A10A	30MM	400 POSS IZ AMMO STORAGE CACHE	32.4319889	44.45555556	322563N0442720E	TERRORISTS AND VEHICLES WITH 2X GUN PASSES
Y	31-Mar-03	POSSIZ	A10A	30MM	800 POSS IZ AMMO STORAGE CACHE	32.6519889	43.98111111	323905N0436662E	AGAINST ARMOR IN REVETMENT. HDG 089. FL1115.
Y	31-Mar-03	POSSIZ	A10A	30MM	210 ARMOR IN REVETMENTS	33.4564667	43.18333333	N3327.388 E0431.1012	AGAINST ARMOR IN KILLOX 90A0. TOT 0282Z POTENT25
Y	31-Mar-03	POTENT17	A10	30MM	79 ARMOR IN REVETMENTS	33.4564667	43.18333333	N3327.388 E0431.1012	AGAINST ARMOR IN KILLOX 90A0. TOT 0532Z POTENT25
Y	31-Mar-03	POTENT17	A10	30MM	100 NORTHERN 2 TANKS IN REVETMENTS	34.1197667	42.40866667	N3407.186 E04224.578	AGAINST ARMOR IN KILLOX 90A0. TOT 0532Z POTENT25
Y	31-Mar-03	POTENT25	A10	30MM	100 WEST TANK IN REVETMENT	34.09913333	42.40866667	N3407.186 E04224.578	AGAINST ARMOR IN KILLOX 90A0. TOT 0526Z POTENT25
Y	31-Mar-03	POTENT25	A10	30MM	50 EAST TANK IN REVETMENT	34.1197667	42.40866667	N3407.186 E04224.578	760RDS 30MM. AT 1146Z STAB 31 STRAFED 420
Y	31-Mar-03	SEVERALAA	A10A	30MM	760 AAA SITE	32.4319889	44.45555556	322563N0442720E	IDENTIFY 4 REVETTED VEHICLES AT QV 189 793 AND
Y	31-Mar-03	L	A10A	30MM	150 REVETTED VEHICLES	31.81	47.085	3148.6N04705.1E	EACH PASS) WITH A TOTAL 600RDS OF 30MM. AGAINST
Y	31-Mar-03	TAMALE74	A10A	30MM	600 VEHICLES	31.81	47.085	3148.6N04705.1E	WERE VECTORED TO ATTACK MULTIPLE TRUCKS IVO
Y	31-Mar-03	TRUCKSDE	A10A	30MM	400 POL TRUCK	82(3)2708.02N			IN
Y	31-Mar-03	U	A10A	30MM	200 REVETTED VEHICLES AND EQUIPMENT	82(3)2708.02N			THAT THERE WERE TARGETS AT 38R QV 18
Y	31-Mar-03	U	A10A	30MM	200 REVETTED VEHICLES AND EQUIPMENT	82(3)2708.02N			IN
Y	31-Mar-03	U	A10A	30MM	500 REVETTED VEHICLES AND EQUIPMENT	82(3)2708.02N			IN
Y	31-Mar-03	VELVET23	A10	30MM	50 TANK IN OPEN	34.1197667	42.40866667	N3407.186 E04224.578	AGAINST ARMOR IN KILLOX 90A0. TOT 0439Z VELVET23
Y	31-Mar-03	VELVET23	A10	30MM	120 TANK IN REVETMENT	34.1197667	42.40866667	N3407.186 E04224.578	AGAINST ARMOR IN KILLOX 90A0. TOT 0439Z VELVET23
Y	31-Mar-03	XEROX73	A10	30MM	100 REVETTED VEHICLE	31.1594167	47.42446667	3109.565N 04725.468E	POSSIBLE TANKS OR VEHICLES AT 3109.565N
Y	31-Mar-03	XEROX73	A10	30MM	100 REVETTED VEHICLE	31.1594167	47.42446667	3109.565N 04725.468E	POSSIBLE TANKS OR VEHICLES AT 3109.565N
Y	31-Mar-03	XEROX74	A10	30MM	120 REVETTED VEHICLE	31.1594167	47.42446667	3109.565N 04725.468E	POSSIBLE TANKS OR VEHICLES AT 3109.565N
Y	31-Mar-03	XEROX74	A10	30MM	100 REVETTED VEHICLE	31.1594167	47.42446667	3109.565N 04725.468E	POSSIBLE TANKS OR VEHICLES AT 3109.565N
Z	01-Apr-03	BIP0D16	A10A	30MM	200 IZ ARTY PC	31.1486111	47.375	310855N0472230E	200RDSX30MM HEI. PILOT RPTD HVY DAMAGE TO TGT
Z	01-Apr-03	BIP0D16	A10A	30MM	200 IZ ARTY PC	31.1486111	47.375	310855N0472230E	100RDSX30MM HEI. PILOT RPTD LT DAMAGE TO TGT
Z	01-Apr-03	BIP0D16	A10A	30MM	200 IZ ARTY PC	31.1486111	47.375	310855N0472230E	200RDSX30MM HEI. PILOT RPTD DAMAGE TO TGT WITH
Z	01-Apr-03	BIP0D33	A10A	30MM	200 IZ TANKS	31.33333333	47.4	3120N04724E	KILL 2 TANKS.
Z	01-Apr-03	BIP0D33	A10A	30MM	900 PETROLEUM TANK	31.33333333	47.4	3120N04724E	DESTROY 1 PETROLEUM TANK.
Z	01-Apr-03	BIP0D33	A10A	30MM	500 IZ TANKS	31.33333333	47.4	3120N04724E	KILL 2 TANKS.
Z	01-Apr-03	BIP0D46	A10A	30MM	250 REVETTED VEHICLE	31.996	47.25666667	3159.76N 04713.54E	REVETMENTS WITH 250X30MM DESTROYING A
Z	01-Apr-03	BIP0D46	A10A	30MM	250 REVETTED VEHICLE	31.996	47.25666667	3159.76N 04713.54E	RDSX30MM. PILOT RPTD NO VEHICLE IN REVETMENT
Z	01-Apr-03	BIP0D74	A10A	30MM	425 REVETMENT	31.996	47.25666667	3159.76N 04713.54E	AND 1XSTORAGE SHED WITH 425RDSX30MM. PILOT
Z	01-Apr-03	BIP0D74	A10A	30MM	200 IZ TANK	31.996	47.25666667	3159.76N 04713.54E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	BIP0D74	A10A	30MM	200 IZ TANK	31.996	47.25666667	3159.76N 04713.54E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	CARAT25	A10A	30MM	200 IZ TANKS-APC	32.55	45.43333333	3233N04526E	SEVERAL REVETS WITH 30MM. FIFTH PASS WAS
Z	01-Apr-03	CARAT25	A10A	30MM	200 IZ TANKS-APC	32.55	45.43333333	3233N04526E	SEVERAL REVETS WITH 30MM. FIRST PASS WAS
Z	01-Apr-03	CARAT26	A10A	30MM	200 IZ TANKS-APC	32.55	45.43333333	3233N04526E	SEVERAL REVETS WITH 30MM. FOURTH PASS WAS
Z	01-Apr-03	CARAT26	A10A	30MM	200 IZ TANKS-APC	32.55	45.43333333	3233N04526E	SEVERAL REVETS WITH 30MM. SECOND PASS WAS
Z	01-Apr-03	CARAT26	A10A	30MM	60 TANK OR APC IN REVETMENT	32.55	45.43333333	3233N04526E	MILITARY VEHICLES DESTROYING TWO OF THEM.
Z	01-Apr-03	FEAMUR73	A10A	30MM	200 REVETTED TANK OR APC	32.55	45.43333333	3233N04526E	REVETTED MILITARY VEHICLES DESTROYING TWO OF
Z	01-Apr-03	FEAMUR74	A10A	30MM	400 REVETTED MILITARY VEHICLES	34.18333333	42.33333333	N3411.504220	TANK PARKED IN A REVETMENT. NO SECONDARY
Z	01-Apr-03	FEAMUR74	A10A	30MM	210 REVETTED MILITARY VEHICLES	34.18333333	42.33333333	N3411.504220	UNKNOWN TYPE (THREE REVETTED VEHICLES), WITH A
Z	01-Apr-03	LOOK33	A10	30MM	170 BUILDING	34.20333333	42.369	N3412.210 E04222.140	UNKNOWN TYPE (FOUR REVETTED VEHICLES), WITH A
Z	01-Apr-03	LOOK33	A10	30MM	200 AAA POSITION	34.20333333	42.369	N3412.210 E04222.140	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10	30MM	500 TANK	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10	30MM	600 THREE VEHICLES IN REVETMENTS	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10	30MM	400 FOUR VEHICLES IN REVETMENTS	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10	30MM	150 IZ TANK	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10A	30MM	150 IZ TANK	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10A	30MM	150 IZ APC	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10A	30MM	150 IZ TANK	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10A	30MM	150 IZ APC	31.0161111	47.40833333	310056N0472430E	PILOT RPTD TGT HVLY DAMAGE UPON CLIMB OUT.
Z	01-Apr-03	LOOK33	A10A	30MM	200 AMMO STORAGE REVETMENT	32.9805	44.37983333	3256.83N04422.79E	WITH 30MM ROUNDS. SECONDARY EXPLOSIONS WERE
Z	01-Apr-03	LOOK33	A10A	30MM	250 AMMO STORAGE REVETMENT	32.9805	44.37983333	3256.83N04422.79E	ROUNDS. SECONDARY EXPLOSIONS WERE OBSERVED.
Z	01-Apr-03	LOOK33	A10A	30MM	200 TANKS IN REVETMENTS	32.9805	44.37983333	3256.83N04422.79E	WITH 30MM ROUNDS. SECONDARY EXPLOSIONS WERE
Z	01-Apr-03	LOOK33	A10A	30MM	250 AMMO STORAGE REVETMENT	32.9805	44.37983333	3256.83N04422.79E	ROUNDS. SECONDARY EXPLOSIONS WERE OBSERVED.
Z	01-Apr-03	LOOK33	A10A	30MM	200 AMMO STORAGE REVETMENT	32.9805	44.37983333	3256.83N04422.79E	WITH 30MM ROUNDS. SECONDARY EXPLOSIONS WERE
Z	01-Apr-03	LOOK33	A10A	30MM	200 AMMO STORAGE REVETMENT	32.9805	44.37983333	3256.83N04422.79E	WITH 30MM ROUNDS. SECONDARY EXPLOSIONS WERE
Z	01-Apr-03	LOOK33	A10A	30MM	200 AMMO STORAGE REVETMENT	32.9805	44.37983333	3256.83N04422.79E	WITH 30MM ROUNDS. SECONDARY EXPLOSIONS WERE
Z	01-Apr-03	LOOK33	A10A	30MM	200 AMMO STORAGE REVETMENT	32.9805	44.37983333	3256.83N04422.79E	WITH 30MM ROUNDS. SECONDARY EXPLOSIONS WERE
Z	01-Apr-03	LOOK33	A10A	30MM	150 ADOBE BUILDING WITH TROOPS	34.20033333	42.3615	N3412.020 E04221.68	PASS THAT WAS A DIRECT HIT AND CAUSED SEVERE
Z	01-Apr-03	LOOK33	A10A	30MM	100 ADOBE BUILDING WITH TROOPS	34.20033333	42.3615	N3412.020 E04221.68	STRAFED THE TARGET WITH 100RDS OF 30MM. DIRECT
Z	01-Apr-03	LOOK33	A10A	30MM	100 IZ TANK	30.91666667	47.45	3055N04727E	30MM DUE TO BORE SIGHT ISSUES WITH GAU-3.
Z	01-Apr-03	LOOK33	A10A	30MM	100 IZ TANK	30.91666667	47.45	3055N04727E	DESTROYING THE TGT. NO SECONDARIES REPORTED BY
Z	01-Apr-03	LOOK33	A10A	30MM	100 IZ TANK	30.91666667	47.45	3055N04727E	DESTROYING THE TGT. NO SECONDARIES REPORTED BY







B	03-Apr-03	CARAT13	A10A	30MM	71 APC	IN	31,7715	47,0695	53,146,290N04704,17E	30MM GUN.
B	03-Apr-03	CARAT14	A10A	30MM	100 APC	IN	31,7715	47,0895	51,46,290N04704,17E	UNKNOWN BDA DUE TO DARKNESS.
B	03-Apr-03	DECAF55	A10	30MM	200 MILITARY EQUIPMENT	IN				AN AMMO STORAGE REVETMENT AT 13K FT AGL.
B	03-Apr-03	DECAF55	A10	30MM	200 MILITARY EQUIPMENT	IN				FT AGL, HEADING 180T, 380KIAS, AND A 40 DEGREE DIVE
B	03-Apr-03	DECAF55	A10	30MM	200 MILITARY EQUIPMENT	IN				ROUNDS OF 30MM COMBAT MIX AND REPORTED.
B	03-Apr-03	DECAF55	A10	30MM	100 MILITARY EQUIPMENT	IN				A REVETED MILITARY VEHICLE IN AN AMMO STORAGE
B	03-Apr-03	DECAF55	A10	30MM	139 MILITARY EQUIPMENT	IN				FT AGL, HEADING 270T, 350KIAS, AND A 45 DEGREE DIVE
B	03-Apr-03	DECAF55	A10	30MM	103 MILITARY EQUIPMENT	IN				VEHICLES IN A TREE LINE, PILOT RPT'D GOOD WITH
B	03-Apr-03	DEMO057	A10A	30MM	300 BNPS AND VEHICLES	IN	32,95	44,99	52,770N04457E	CONTACT WITH US GRD FORCES. PILOT RPTD GOOD
B	03-Apr-03	EWOK17	A10	30MM	200 ARTILLERY POSITION 8	IN	34,0803333	42,3518333	N3404,82 E04221,11	BUNKERS DESTROYED. PILOT RPTD GOOD SPARKLING
B	03-Apr-03	EWOK17	A10	30MM	350 IZ TROOPS IN CONTACT	IN				VEHICLES IN REVTD POSITIONS. PILOT RPTD GOOD.
B	03-Apr-03	HONCH03	A10A	30MM	150 IZ AMMO BUNKERS IN REVTS	IN	33,2305556	43,6822222	331,350N0434056E	VEHICLES IN REVTD POSITIONS. PILOT RPTD GOOD.
B	03-Apr-03	HONCH03	A10A	30MM	150 IZ VEHICLES IN REVTS	IN	33,2305556	43,6822222	331,350N0434056E	VEHICLES IN REVTD POSITIONS. PILOT RPTD GOOD.
B	03-Apr-03	HONCH03	A10A	30MM	150 IZ VEHICLES IN REVTS	IN	33,2305556	43,6822222	331,350N0434056E	BUNKERS DESTROYED. PILOT RPTD GOOD SPARKLING
B	03-Apr-03	HONCH04	A10A	30MM	100 IZ AMMO BUNKERS IN REVTS	IN	33,2305556	43,6822222	331,350N0434056E	BUNKERS DESTROYED. PILOT RPTD GOOD SPARKLING
B	03-Apr-03	HONCH04	A10A	30MM	100 IZ AMMO BUNKERS IN REVTS	IN	33,2305556	43,6822222	331,350N0434056E	BUNKERS DESTROYED. PILOT RPTD GOOD SPARKLING
B	03-Apr-03	HONCH04	A10A	30MM	200 IZ AMMO BUNKERS IN REVTS	IN	33,2305556	43,6822222	331,350N0434056E	BUNKERS DESTROYED. PILOT RPTD GOOD SPARKLING
B	03-Apr-03	HONCH04	A10A	30MM	150 IZ AMMO BUNKERS IN REVTS	IN	33,2305556	43,6822222	331,350N0434056E	AGAINST A TANK AT N3407,203 E04224,59 AT 2313Z.
B	03-Apr-03	HONCH04	A10A	30MM	147 TANK	IN	34,12005	42,4098333	N3407,203 E04224,590	AGAINST A TANK AT N3407,203 E04224,590 AT 2308Z.
B	03-Apr-03	HOTEL51	A10	30MM	169 TANK	IN	34,12005	42,4098333	N3407,203 E04224,590	DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	HOTEL52	A10	30MM	92 APC	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP47	A10A	30MM	118 IZ APC POSITIONS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP47	A10A	30MM	130 IZ APC POSITIONS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP47	A10A	30MM	34 IZ APC POSITIONS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP47	A10A	30MM	134 IZ APC POSITIONS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP47	A10A	30MM	130 IZ APC POSITIONS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP48	A10A	30MM	300 IZ APC POSITIONS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP48	A10A	30MM	225 IZ APC POSITIONS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP71	A10	30MM	360 TRUCKS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	JAMUP72	A10	30MM	360 TRUCKS	IN				DESTROYED WITH VISABLE FIRE.
B	03-Apr-03	MUDDOG11	A10A	30MM	150 AMMO BUNKER IN REVETMENT	IN	31,745	47,1027778	31,4442N0470610E	TRUCKS DESIGNATED WITH AN IR POINTER SPOT BY
B	03-Apr-03	MUDDOG11	A10A	30MM	200 AMMO BUNKER IN REVETMENT	IN	31,745	47,1027778	31,4442N0470610E	TRUCKS DESIGNATED WITH AN IR POINTER SPOT BY
B	03-Apr-03	MUDDOG12	A10A	30MM	150 AMMO BUNKER IN REVETMENT	IN	31,745	47,1027778	31,4442N0470610E	AT PA982145 AT 1505Z WITH 200X30MM ROUNDS. NO
B	03-Apr-03	MUDDOG12	A10A	30MM	200 AMMO BUNKER IN REVETMENT	IN	31,745	47,1027778	31,4442N0470610E	AT PA982145 AT 1506Z WITH 150X30MM ROUNDS. NO
B	03-Apr-03	ODOR67	A10A	30MM	200 BUNKER	IN	31,745	47,1027778	31,4442N0470610E	AT PA982145 AT 1506Z WITH 150X30MM ROUNDS. NO
B	03-Apr-03	ODOR68	A10A	30MM	200 BUNKER	IN	31,745	47,1027778	31,4442N0470610E	AT PA982145 AT 1504Z WITH 200X30MM ROUNDS. NO
B	03-Apr-03	ODOR68	A10A	30MM	200 BUNKER	IN	31,745	47,1027778	31,4442N0470610E	COMPLEX AND DESTROYED THE BUNKER
B	03-Apr-03	ODOR68	A10A	30MM	200 BUNKER	IN	31,745	47,1027778	31,4442N0470610E	COMPLEX AND DESTROYED THE BUNKER
B	03-Apr-03	PIRAN73	A10A	30MM	157 TANK	IN	33,3166667	44,99	53,190N04457E	COMPLEX AND DESTROYED THE BUNKER
B	03-Apr-03	POSSE57	A10	30MM	250 2X MILITARY VEHICLES IN A REVETMENT	IN	31,4968417	47,3101	0471836,36E	1XTANK. PILOT RPTD GOOD WITH SECONDARIES
B	03-Apr-03	POSSE57	A10	30MM	250 WITH POSS AMMO IN THE BACK	IN	31,4968417	47,3101	0471836,36E	IN OPEN KILLBOX 84AY. POSSE58 WORKED WITH AFAC
B	03-Apr-03	POSSE57	A10	30MM	270 REVETMENTS	IN	31,4968417	47,3101	0471836,36E	IN OPEN KILLBOX 84AY. POSSE58 WORKED WITH AFAC
B	03-Apr-03	POSSE58	A10	30MM	100 1X MILITARY VEHICLE IN A REVETMENT	IN	31,4968417	47,3101	0471836,36E	IN OPEN KILLBOX 84AY. POSSE58 WORKED WITH AFAC
B	03-Apr-03	POSSE58	A10	30MM	100 POSS AMMO IN THE BACK	IN	31,4968417	47,3101	0471836,36E	IN OPEN KILLBOX 84AY. POSSE58 WORKED WITH AFAC
B	03-Apr-03	POSSE58	A10	30MM	150 2X MILITARY VEHICLES IN A REVETMENT	IN	31,4968417	47,3101	0471836,36E	IN OPEN KILLBOX 84AY. POSSE58 WORKED WITH AFAC
B	03-Apr-03	POSSE58	A10	30MM	200 2X MILITARY VEHICLES IN A REVETMENT	IN	31,4968417	47,3101	0471836,36E	IN OPEN KILLBOX 84AY. POSSE58 WORKED WITH AFAC
B	03-Apr-03	POSSE58	A10	30MM	150 1X MILITARY VEHICLE IN A REVETMENT	IN	34,1903333	42,3672833	34,04,537N 04220,702E	WHERE THEY BELIEVED ENEMY FIRE WAS COMING
B	03-Apr-03	POSSE58	A10	30MM	87 K3 AFD	IN	34,0755	42,3666667	34,04,53N 04219,72E	HADITHA WHERE THEY BELIEVED ENEMY FIRE WAS
B	03-Apr-03	POSSE58	A10	30MM	120 OPEN AREA TROOPS	IN	34,1666667	42,3666667	34,10N 04222E	HADITHA WHERE THEY BELIEVED ENEMY FIRE WAS
B	03-Apr-03	POSSE58	A10	30MM	22 OPEN AREA TROOPS	IN	34,1666667	42,3666667	34,10N 04222E	DAMAGING IT. WSV
B	03-Apr-03	POSSE58	A10	30MM	116 MOVING WHITE VEHICLES	IN				116RDS DESTROYING IT. WSV
B	03-Apr-03	TURF15	A10A	30MM	56 SMALL BOATS	IN	34,2401167	42,40865	34,14,407N 4224,519E	30MM INTO THE BOATS AND SAW THE BULLETS IMPACT.
B	03-Apr-03	TURF15	A10A	30MM	100 SMALL BOATS	IN	34,2401167	42,40865	34,14,407N 4224,519E	BURSTS PUTTING 100 RDS 30MM INTO THE BOATS AND
B	03-Apr-03	TURF15	A10A	30MM	58 SMALL BOATS	IN	34,2401167	42,40865	34,14,407N 4224,519E	IZ TROOPS WERE USING TO SNEAK UP ON COALITION
B	03-Apr-03	TURF15	A10A	30MM	175 SMALL BOATS	IN	34,2401167	42,40865	34,14,407N 4224,519E	PUTTING 175 RDS 30MM INTO THE BOATS AND SAW THE
B	03-Apr-03	TURF15	A10A	30MM	40 OPEN AREA TROOPS	IN	34,0756167	42,3666667	34,10N 04222E	HADITHA WHERE THEY BELIEVED ENEMY FIRE WAS
B	03-Apr-03	TURF15	A10A	30MM	180 TROOPS AND GUNS	IN	34,0756167	42,3450333	34,04,537N 04220,702E	OF 30MM. RDS IMPACTED IN DESIRED AREA. WSV
B	03-Apr-03	TURF15	A10A	30MM	180 TROOPS AND GUNS	IN	34,18895	4,3433333	N3411,337 E0420,606	ATO_B_THICK31, MSN_633, DMPLI_NA_006.amv
B	03-Apr-03	TURF15	A10A	30MM	66 BUILDING	IN	31,7716667	47,07	31,46,3N04704,2E	ORDINANCE WAS SEEN EXPLODING ON TARGET.
B	03-Apr-03	TURF15	A10A	30MM	200 VEHICLES ON ROAD	IN	31,7716667	47,07	31,46,3N04704,2E	ORDINANCE WAS SEEN EXPLODING ON TARGET.
B	03-Apr-03	TURF15	A10A	30MM	200 VEHICLES ON ROAD	IN	31,7716667	47,07	31,46,3N04704,2E	ORDINANCE WAS SEEN EXPLODING ON TARGET.
B	03-Apr-03	TURF15	A10A	30MM	200 VEHICLES ON ROAD	IN	31,7716667	47,07	31,46,3N04704,2E	ORDINANCE WAS SEEN EXPLODING ON TARGET.
B	03-Apr-03	TURF15	A10A	30MM	200 VEHICLES ON ROAD	IN	31,7716667	47,07	31,46,3N04704,2E	ORDINANCE WAS SEEN EXPLODING ON TARGET.
B	03-Apr-03	TURF16	A10A	30MM	150 POSSIBLE SEERSUCKER	IN				STUCK A POSSIBLE SEERSUCKER. UNKNOWN BDA
B	03-Apr-03	TURF16	A10A	30MM	150 POSSIBLE SEERSUCKER	IN				STUCK A POSSIBLE SEERSUCKER. UNKNOWN BDA
B	03-Apr-03	TURF16	A10A	30MM	150 POSSIBLE SEERSUCKER	IN				STUCK A POSSIBLE SEERSUCKER. UNKNOWN BDA
B	03-Apr-03	TURF16	A10A	30MM	150 POSSIBLE SEERSUCKER	IN				STUCK A POSSIBLE SEERSUCKER. UNKNOWN BDA
B	03-Apr-03	TURF16	A10A	30MM	150 POSSIBLE SEERSUCKER	IN				STUCK A POSSIBLE SEERSUCKER. UNKNOWN BDA
B	03-Apr-03	TURF16	A10A	30MM	200 IZ TANK-APC	IN				WSV AND PILOT RPTD TGT SPARKLED WITH WITH'LTT













DATE	TIME	TYPE	STATUS	DESCRIPTION	COORDINATES	REMARKS
10-Apr-03	10:00	30MM	IN	129 VEHICLES	36.05133333	NOVAK45 FIRED ONE BURST OF 30MM ONTO A
10-Apr-03	10:00	30MM	IN	140 T-72	43.46883333	3603.680N 04328.130E
10-Apr-03	10:00	30MM	IN	280 2X1-T2	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	150 T-72	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	150 T-72	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	200 2XTRUCKS	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	87 APC	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	173 T-72	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	51 T-72	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	179 T-72	45.26166667	3342.8N04515.7E
10-Apr-03	10:00	30MM	IN	100 HET		
10-Apr-03	10:00	30MM	IN	80 HET		
10-Apr-03	10:00	30MM	IN	80 HET		
10-Apr-03	10:00	30MM	IN	200 ARTY	44.2595	3330.62N04415.57E
10-Apr-03	10:00	30MM	IN	150 ARTY PIECE	44.2595	3330.62N04415.57E
10-Apr-03	10:00	30MM	IN	150 AAA		
10-Apr-03	10:00	30MM	IN	100 AAA		
10-Apr-03	10:00	30MM	IN	120 AAA		
10-Apr-03	10:00	30MM	IN	200 5-TON TRUCK	44.29275	3332.863N04415.765E
10-Apr-03	10:00	30MM	IN	300 IZ TRUCK	44.29275	3332.863N04415.765E
10-Apr-03	10:00	30MM	IN	164 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	164 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	164 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	164 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	166 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	203 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	203 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	204 BLDG	43.59085	3441.085N 04334.851E
10-Apr-03	10:00	30MM	IN	100 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	97 APC	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	68 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	103 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	108 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	108 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	90 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	97 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	100 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	200 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	179 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	140 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	165 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	191 LARGE GROUP OF VEHICLES	43.60125	344225.4N 0433604.5E
10-Apr-03	10:00	30MM	IN	360 REVETTED AMMO STORAGE CONTAINERS	44.51663333	3405.188N04436.998E
10-Apr-03	10:00	30MM	IN	570 REVETTED AMMO STORAGE CONTAINERS	44.51663333	3405.188N04436.998E
10-Apr-03	10:00	30MM	IN	260 REVETTED AMMO STORAGE CONTAINERS	44.51663333	3405.188N04436.998E
10-Apr-03	10:00	30MM	IN	136 AIRCRAFT	43.51633333	N3440.533 E04330.983
10-Apr-03	10:00	30MM	IN	80 AIRCRAFT	43.51633333	N3440.533 E04330.983
10-Apr-03	10:00	30MM	IN	118 AIRCRAFT	43.51633333	N3440.533 E04330.983
10-Apr-03	10:00	30MM	IN	130 APPROX 30 VEHICLES	43.59396667	N3444.312 E04335.638
10-Apr-03	10:00	30MM	IN	160 REVETTED VEHICLES	43.61418333	N3444.312 E04336.851
10-Apr-03	10:00	30MM	IN	127 REVETTED TELS WITH MISSILES	43.59056667	N3442.944 E04331.834
10-Apr-03	10:00	30MM	IN	71 REVETTED VEHICLES	43.61418333	N3444.312 E04336.851
10-Apr-03	10:00	30MM	IN	89 REVETTED TELS WITH MISSILES	43.59056667	N3442.944 E04331.834
10-Apr-03	10:00	30MM	IN	87 REVETTED AMMO STORAGE AREAS	43.61418333	N3444.312 E04336.851
10-Apr-03	10:00	30MM	IN	176 UI VEHICLES	44.56566667	3403N 04434E
10-Apr-03	10:00	30MM	IN	260 UI VEHICLES	44.56566667	3403N 04434E
10-Apr-03	10:00	30MM	IN	220 UI VEHICLES	44.56566667	3403N 04434E
10-Apr-03	10:00	30MM	IN	200 UI VEHICLES	44.56566667	3403N 04434E
10-Apr-03	10:00	30MM	IN	200 UI VEHICLES	44.56566667	3403N 04434E
10-Apr-03	10:00	30MM	IN	190 GROUP OF REVETTED VEHICLES	44.53655	33559.578N 04432.193E



J	11-Apr-03	PANCHO43	A10	30MM	90 GROUP OF REVETTED VEHICLES	IN	33.9929667	44.53655	3359.578N	04432.193E	N	0081X
J	11-Apr-03	PANCHO43	A10	30MM	157 GROUP OF REVETTED VEHICLES	IN	33.9929667	44.53655	3359.578N	04432.193E	N	0081X
J	11-Apr-03	PANCHO43	A10	30MM	113 GROUP OF REVETTED VEHICLES	IN	33.9929667	44.53655	3359.578N	04432.193E	N	0081X
J	11-Apr-03	PANCHO43	A10	30MM	246 GROUP OF REVETTED VEHICLES	IN	33.9929667	44.53655	3359.578N	04432.193E	N	0081X
J	11-Apr-03	PANCHO44	A10	30MM	150 GROUP OF REVETTED VEHICLES	BRDM	33.9929667	44.53655	3359.578N	04432.193E	N	0081X
J	11-Apr-03	PANCHO44	A10	30MM	150 GROUP OF REVETTED VEHICLES	IN	33.9929667	44.53655	3359.578N	04432.193E	N	0081X
J	11-Apr-03	PANCHO44	A10	30MM	100 GROUP OF REVETTED VEHICLES	IN	33.9929667	44.53655	3359.578N	04432.193E	N	0081X
J	11-Apr-03	STAB52	A10	30MM	200 POSS BOX TRUCK	IN	35.1958333	43.2798333	N3511.75	E04316.79	N	0081X
J	11-Apr-03	STOIC71	A10	30MM	200 MILITARY VEHICLES	IN	33.5554833	44.2647	3333.329N	4415.882E	N	0081X
J	11-Apr-03	STOIC71	A10	30MM	200 MILITARY VEHICLES	IN	33.5554833	44.2647	3333.329N	4415.882E	N	0081X
J	11-Apr-03	STOIC72	A10	30MM	100 MILITARY VEHICLES	IN	33.5554833	44.2647	3333.329N	4415.882E	N	0081X
J	11-Apr-03	SUM043	A10A	30MM	130 FUEL TRUCK	IN	33.3050167	45.8933833	3316.301N	04553.603E	N	0081X
J	11-Apr-03	SUM044	A10A	30MM	110 FUEL TRUCK	IN	33.3050167	45.8933833	3316.301N	04553.603E	N	0081X
J	11-Apr-03	THROAT31	A10A	30MM	150 12 ARMOR VEH IN REVETMENT	IN	33.305025	43.89491667	3318.315N	04363.695E	N	0081X
J	11-Apr-03	THROAT32	A10A	30MM	200 12 ARMOR VEH IN REVETMENT	IN	33.305025	43.89491667	3318.315N	04363.695E	N	0081X
J	11-Apr-03	TUB74	A10	30MM	100 REVETTED TANKER	IN	33.582	44.18233333	3334.92N	04410.94E	N	0081X
J	11-Apr-03	TUB74	A10	30MM	100 REVETTED TANKER	IN	33.582	44.18233333	3334.92N	04410.94E	N	0081X
J	11-Apr-03	VARK53	A10A	30MM	100 TANK	IN	33.582	44.18233333	3334.92N	04410.94E	N	0081X
J	11-Apr-03	VARK54	A10A	30MM	100 TANK	IN	33.582	44.18233333	3334.92N	04410.94E	N	0081X
J	11-Apr-03	VARK54	A10A	30MM	300 TANK	IN	33.582	44.18233333	3334.92N	04410.94E	N	0081X
K	12-Apr-03	AMWAY25	A10	30MM	100 MILITARY VEHICLE	IN	33.3034667	43.6036333	3318.208N	04336.218E	N	0081X
K	12-Apr-03	AMWAY26	A10	30MM	150 MILITARY VEHICLE	IN	33.3034667	43.6036333	3318.208N	04336.218E	N	0081X
K	12-Apr-03	AMWAY26	A10	30MM	150 MILITARY VEHICLE	IN	33.3034667	43.6036333	3318.208N	04336.218E	N	0081X
K	12-Apr-03	KONG72	A10	30MM	200 PROB APCS	IN	34.5566	43.78241667	N3433.396	E04346.845	N	0081X
K	12-Apr-03	KONG72	A10	30MM	250 PROB APCS	IN	34.5566	43.78241667	N3433.396	E04346.845	N	0081X
K	12-Apr-03	KONG73	A10	30MM	215 BUILDING	IN	34.5573167	43.7871667	N3433.439	E04346.723	N	0081X
K	12-Apr-03	KONG73	A10	30MM	85 BUILDING	IN	34.5573167	43.7871667	N3433.439	E04346.723	N	0081X
K	12-Apr-03	MUSKET75	A10	30MM	87 SA-2 MISSILES	IN	35.20025	43.28338333	N3512.015	E0437.003	N	0081X
K	12-Apr-03	MUSKET76	A10	30MM	131 SA-2 MISSILES	IN	35.20025	43.28338333	N3512.015	E0437.003	N	0081X
K	12-Apr-03	MUSKET76	A10	30MM	108 SA-2 MISSILE	IN	35.2007833	43.17	N3512.047	E0437.003	N	0081X
K	12-Apr-03	MUSKET76	A10	30MM	108 SA-2 MISSILE	IN	35.20025	43.28338333	N3512.015	E0437.003	N	0081X
K	12-Apr-03	STOIC35	A10	30MM	105 REVETTED APC	MASS						
K	12-Apr-03	STOIC35	A10	30MM	100 REVETTED APC	MASS						
K	12-Apr-03	STOIC35	A10	30MM	100 REVETTED APC	MASS						
K	12-Apr-03	STOIC35	A10	30MM	105 REVETTED APC	MASS						
K	12-Apr-03	STOIC36	A10	30MM	220 REVETTED APC	MASS						
K	12-Apr-03	STOIC36	A10	30MM	220 REVETTED APC	MASS						
K	12-Apr-03	STOIC36	A10	30MM	110 TANK	IN	34.7097167	43.60225	3442.583N	04336.135E	N	0081X
K	12-Apr-03	STOIC36	A10	30MM	96 TANK	IN	34.7097167	43.60225	3442.583N	04336.135E	N	0081X
K	12-Apr-03	SUM037	A10A	30MM	160 FUEL TRUCK	IN	33.6959833	44.39681667	3341.759N	04423.809E	N	0081X
K	12-Apr-03	SUM037	A10A	30MM	160 FUEL TRUCK	IN	33.6959833	44.39681667	3341.759N	04423.809E	N	0081X
K	12-Apr-03	SUM043	A10A	30MM	280 MIG-21	MIG-21	33.2666667	43.6833333	3316N	04341E	N	0081X
K	12-Apr-03	SUM044	A10A	30MM	150 REVETTED MILITARY VEHICLE	MILITARY	33.2666667	43.6833333	3316N	04341E	N	0081X
L	13-Apr-03	IN	A10	30MM	130 REVET AMMO	IN	35.2009833	43.28101667	3512.023N	4316.861E	N	0081X
L	13-Apr-03	IN	A10	30MM	107 REVETTED AMMO	IN	35.1795	43.28178333	3510.770N	4316.907E	N	0081X
L	13-Apr-03	AMWAY56	A10	30MM	100 VEHICLE	IN	34.4333333	385LD56563724				0381BEX
L	13-Apr-03	AMWAY56	A10	30MM	300 REVETTED MILITARY VEHICLE	MILITARY	34.4333333	3426N	04341E			0081X
L	13-Apr-03	COOTIE71	A10	30MM	125 2 REVETTED MILITARY TRUCKS	MASS		385LD734340				6881X
L	13-Apr-03	COOTIE71	A10	30MM	125 2 REVETTED MILITARY TRUCKS	MASS		385LD734340				6881X
L	13-Apr-03	COOTIE71	A10	30MM	125 REVETTED MILITARY TRUCK	MASS		385LD734340				6881X
L	13-Apr-03	COOTIE71	A10	30MM	125 REVETTED MILITARY TRUCK	MASS		385LD734340				6881X
L	13-Apr-03	HTMAN65	A10A	30MM	200 VEH IN REVETMENT	MASS	34.6434333	43.60346667	3436.606N	04336.208E	N	0081X
L	13-Apr-03	HTMAN65	A10A	30MM	140 VEH IN REVETMENT	IN	34.6434333	43.60346667	3436.606N	04336.208E	N	0081X
L	13-Apr-03	HTMAN65	A10A	30MM	204 VEH IN REVETMENT	IN	34.6434333	43.60346667	3436.606N	04336.208E	N	0081X
L	13-Apr-03	HTMAN65	A10A	30MM	181 ARTY IN REVETMENT	IN	34.6434333	43.60346667	3436.606N	04336.208E	N	0081X
L	13-Apr-03	KONG71	A10	30MM	85 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	KONG71	A10	30MM	95 SA-2 STORAGE DEPOT	STORAGE	35.2012333	43.2816	N3512.074	E04316.896	N	0081X
L	13-Apr-03	KONG71	A10	30MM	90 SA-2 STORAGE DEPOT	STORAGE	35.2012333	43.2816	N3512.074	E04316.896	N	0081X
L	13-Apr-03	KONG71	A10	30MM	80 MISSILES IN REVET	REVET	35.2012333	43.2816	N3512.074	E04316.896	N	0081X
L	13-Apr-03	KONG71	A10	30MM	120 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	KONG71	A10	30MM	130 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	KONG71	A10	30MM	130 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	KONG71	A10	30MM	155 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	KONG71	A10	30MM	140 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	KONG71	A10	30MM	150 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	KONG71	A10	30MM	160 SA-2 STORAGE DEPOT	STORAGE	35.201	43.28333333	N3512.060	E0437.000	N	0081X
L	13-Apr-03	MUSKET07	A10	30MM	90 SINGLE VEHICLE IN A REVET	VEHICLE IN A	34.725	43.61666667	N3443.5	E04337.0	N	0081X
L	13-Apr-03	MUSKET07	A10	30MM	230 VEHICLES IN REVET	REVET	34.725	43.61666667	N3443.5	E04337.0	N	0081X
L	13-Apr-03	PANCHO75	A10	30MM	70 SA-2 MISSILE ON SEMI TRAILER	IN						LD 757 285
L	13-Apr-03	PANCHO76	A10	30MM	200 SA-2 MISSILE ON SEMI TRAILER	IN						LD 757 285
L	13-Apr-03	STAB05	A10	30MM	207 CONEX BOX	IN	34.7089833	43.60503333	N3442.539	E04336.302	N	0081X
L	13-Apr-03	STAB05	A10	30MM	157 IPROB REVETTED APC	IN	34.7082833	43.60515	N3442.487	E04336.309	N	0081X



PrimDMPISucc	TOTN	TOT	Fuze	Fuze Delay	RelHdgN	RelHdg	RelAlt	RelAltSpd	RelAltSpd	RelDist	RelAng	RelAng	PrimDMP	AIDMPI
BUT NOT DESTROYING TOWER	00-Jan-00 2012Z	CM	UN	90/90	300/300T	15000/15000MSL	300/300KTS	300/300KTS	300/300KTS	SLANT RANGE	DIVE	IN	IN	
SUCCESSFUL DUE TO DAMAGE OF TRUCK OBSERVED	00-Jan-00 1049Z	CM	CM	0/0	341/341	7500/7500FTMSL	325/325	325/325	325/325	RANGE	20/20 DEGREES	IN	IN	
SUCCESSFUL	00-Jan-00 1047Z	CM	UN	270/270	120/120T	7500/7500FTMSL	325/325	325/325	325/325	RANGE	20/20 DEGREES	IN	IN	
SUCCESSFUL DUE TO DAMAGE TO TRUCK OBSERVED	00-Jan-00 1044Z	CM	UN	90/90	300/300T	7500/7500FTMSL	325/325	325/325	325/325	RANGE	20/20 DEGREES	IN	IN	
OBSERVED	00-Jan-00 1046Z	CM	UN	180/180	290/290T	7500/7500FTMSL	325/325	325/325	325/325	RANGE	20/20 DEGREES	IN	IN	
EMPLACEMENT	00-Jan-00 1051Z	CM	UN	270/270	350/350	7500/7500FTMSL	325/325	325/325	325/325	RANGE	20/20 DEGREES	IN	IN	
SUCCESSFUL DUE TO DAMAGE TO TRUCK OBSERVED	00-Jan-00 1048Z	CM	UN	90/90	300/300T	7500/7500FTMSL	325/325	325/325	325/325	RANGE	20/20 DEGREES	IN	IN	
SUCCESSFUL	00-Jan-00 0700Z	UN	UN	090 TO 90 TO 0	1000FL	1000FL	325/325KIAS	325/325KIAS	325/325KIAS	IN	OF 15	IN	IN	
SUCCESSFUL	00-Jan-00 0700Z	UN	UN	090 TO 270	1000FL	1000FL	325/325KIAS	325/325KIAS	325/325KIAS	IN	OF 15	IN	IN	
SUCCESSFUL	00-Jan-00 0945Z	UN	UN	360/360	350/350KIAS	1000FL	350/350KIAS	350/350KIAS	350/350KIAS	IN	32/32 DEG	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 2218Z	IN	UN	270/270	340/340	15000/FL150	340/340	340/340	340/340	IN	IN	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 2207Z	IN	UN	180/180	371/371	17000/FL170	340/340	340/340	340/340	2.2/2.2	IN	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 2240Z	IN	UN	90/90	371/371	14400/FL144	371/371	371/371	371/371	2.2/2.4	IN	IN	IN	
UNKNOWN SECONDARIES NOTED	00-Jan-00 2240Z	IN	UN	90/90	371/371	13200/FL132	290/290	290/290	290/290	2.4/2.4	IN	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 2233Z	IN	UN	90/90	300/300T	15100/FL151	290/290	290/290	290/290	IN	48.5/48.5	IN	IN	
TARGET AREA	00-Jan-00 1157Z	IN	UN	90/90	300/300T	5500/FL055	400/400KIAS	400/400KIAS	400/400KIAS	IN	33.8/33.8	IN	IN	
TARGET AREA AND FIRES CONTINUE TO BURN	00-Jan-00 1205Z	IN	UN	20/020 DEG	8500/FL085	8500/FL085	350/350KIAS	350/350KIAS	350/350KIAS	IN	45/45 DEGREES	IN	IN	
TARGET AREA AND VEHICLES BURNING	00-Jan-00 0939Z	HE 5	HE 5	315/315T	9300/FL093	9300/FL093	331/331	331/331	331/331	IN	35/35 DEGREES	IN	IN	
FACILITY, FACILITY REDUCED TO BURNING RUBBLE	00-Jan-00 0936Z	HE 5	HE 5	315/315T	10000/FL100	10000/FL100	331/331	331/331	331/331	5848	Assumed	IN	IN	
SUCCESSFUL PILOT VIEWED RDS HITTING THE VEHICLE	00-Jan-00 1560Z	UN	UN	90/90	90/90	1000FL	250/250KIAS	250/250KIAS	250/250KIAS	5848	UN	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 0553Z	IN	UN	300/300T	13000/FL130	13000/FL130	370/370 KIAS	370/370 KIAS	370/370 KIAS	SLANT	45/45 DEG	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 052706Z	IN	UN	120/120T	13006/13006FT	13006/13006FT	341/341	341/341	341/341	18111/18111	Known	IN	IN	
SUCCESSFUL	00-Jan-00 052142Z	IN	UN	120/120T	12598/12598FT	12598/12598FT	373/373	373/373	373/373	18111/18111	Known	IN	IN	
COULD NOT SEE DUST FROM IMPACT DUE TO	00-Jan-00 052835Z	IN	UN	300/300T	12598/12598FT	12598/12598FT	333/333	333/333	333/333	18111/18111	Known	IN	IN	
COULD NOT SEE DUST FROM IMPACT DUE TO	00-Jan-00 0555Z	IN	UN	290/290T	13001/13001FT	13001/13001FT	304/304	304/304	304/304	18111/18111	Known	IN	IN	
COULD NOT SEE DUST FROM IMPACT DUE TO	00-Jan-00 1915Z	IN	UN	350/350	120FL MSL	120FL MSL	345/345	345/345	345/345	2/2NM	DIVE	IN	IN	
PIT	00-Jan-00 1925Z	IN	UN	300/300	120FL MSL	120FL MSL	300/300	300/300	300/300	2/2NM	DIVE	IN	IN	
BULLETS IMPACT FUSEING BUILDINGS AND FIRE AND	00-Jan-00 1932Z	IN	UN	360/360	120FL MSL	120FL MSL	300/300	300/300	300/300	2/2NM	DIVE	IN	IN	
FUSEING TARGET AREA AND EXPLODING, BUILDINGS	00-Jan-00 0515Z	IN	UN	80/HDG080	2500/FL025	2500/FL025	267/267KIAS	267/267KIAS	267/267KIAS	IN	20/20DEG	IN	IN	
BULLETS IMPACT FUSEING TARGET AREA ADDING TO	00-Jan-00 0521Z	IN	UN	95/HDG085	1300/FL013	1300/FL013	300/300KIAS	300/300KIAS	300/300KIAS	IN	26/26DEG	IN	IN	
IMPACT FUSEING BUILDING REMNANTS IN TARGET	00-Jan-00 0521Z	UN	UN	46/HDG046	2000/FL020	2000/FL020	300/300KIAS	300/300KIAS	300/300KIAS	IN	12/12DEG	IN	IN	
WRECKAGE	00-Jan-00 0230Z	FUSE	UN	55/HDG055	2100/FL021	2100/FL021	300/300KIAS	300/300KIAS	300/300KIAS	2MILES	30/30	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 0055Z	IN	UN	180/180	80FL-100FL	80FL-100FL	350/350KIAS	350/350KIAS	350/350KIAS	2MILES	30/30	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 0113Z	IN	UN	270/270	8100/FL081	8100/FL081	350/350	350/350	350/350	1.8/1.8NM	IN	IN	IN	
SUCCESSFUL SECONDARIES NOTED	00-Jan-00 0057Z	IN	UN	90/90	14400/FL144	14400/FL144	371/371	371/371	371/371	2.2/2.4NM	IN	IN	IN	
UNDETERMINED BUNKER DAMAGE	00-Jan-00 0443Z	IN	UN	180/180	8100/FL081	8100/FL081	350/350	350/350	350/350	2.4/2.4NM	IN	IN	IN	
SUCCESSFUL HIT VEHICLES DESTROYED	00-Jan-00 0437Z	IN	UN	92/92	11500/11500MSL	11500/11500MSL	285/285KTS	285/285KTS	285/285KTS	2.0572354/12500FT	DIVE	IN	IN	
AND COULD BE SEEN FROM HUD FILM	00-Jan-00 1237Z	IN	UN	225/HDG225	5800/FL058	5800/FL058	270/270KIAS	270/270KIAS	270/270KIAS	2.7155508/16500FT	DIVE	IN	IN	
THE TARGET	00-Jan-00 0513Z	IN	UN	60/90	5000/5000 MSL	5000/5000 MSL	350/350 KIAS	350/350 KIAS	350/350 KIAS	1.1 MI SLANT	26/26 DEG	IN	IN	
SUCCESSFUL AFAC NAIL 28 CONFIRMED HIT	00-Jan-00 2210Z	MIX	UN	140/140	100FL	100FL	340/340	340/340	340/340	IN	IN	IN	IN	
SUCCESSFUL AFAC NAIL 28 CONFIRMED HIT	00-Jan-00 2212Z	MIX	UN	180/180	090FL	090FL	390/390KIAS	390/390KIAS	390/390KIAS	IN	DIVE ANGEL	IN	IN	
SUCCESSFUL AFAC NAIL 28 CONFIRMED HIT	00-Jan-00 2227Z	HEI	UN	200/200	120FL	120FL	322/322KIAS	322/322KIAS	322/322KIAS	SLANT 2.1NM	IN	IN	IN	
EXPLODED	00-Jan-00 0920Z	IMPACT	UN	180/180	080FL	080FL	320/320KIAS	320/320KIAS	320/320KIAS	IN	IN	IN	IN	
EXPLODED	00-Jan-00 0916Z	IMPACT	UN	IN	050FL	050FL	325/325KIAS	325/325KIAS	325/325KIAS	IN	IN	IN	IN	
EXPLODED	00-Jan-00 1103Z	IMPACT	UN	IN	080FL	080FL	350/350KIAS	350/350KIAS	350/350KIAS	IN	IN	IN	IN	
EXPLODED	00-Jan-00 1044Z	IMPACT	UN	IN	070FL	070FL	375/375KIAS	375/375KIAS	375/375KIAS	IN	45/45	IN	IN	
EXPLODED	00-Jan-00 1103Z	IMPACT	UN	IN	070FL	070FL	375/375KIAS	375/375KIAS	375/375KIAS	IN	45/45	IN	IN	
SPARKLING TARGET AREA	00-Jan-00 1405Z	IMPACT	UN	44/HDG044	120/120FT	120/120FT	330/330KTS	330/330KTS	330/330KTS	IN	45/45	IN	IN	
EXPLODED	00-Jan-00 0230Z	IMPACT	UN	IN	80FL-100FL	80FL-100FL	350/350KIAS	350/350KIAS	350/350KIAS	2MILES	30/30	COMPOUN	IN	
EXPLODED	00-Jan-00 0230Z	IMPACT	UN	IN	80FL-100FL	80FL-100FL	350/350KIAS	350/350KIAS	350/350KIAS	2MILES	30/30	COMPOUN	IN	
LITTLE MORE AMPLIFICATION	00-Jan-00 1330Z	IMPACT	UN	270/270	3000/3000	3000/3000	300/300 KIAS	300/300 KIAS	300/300 KIAS	1.1 MI SLANT	30/30	IN	IN	
TGTS	00-Jan-00 0825Z	IMPACT	UN	120/HDG120	4000/FL040	4000/FL040	300/300KIAS	300/300KIAS	300/300KIAS	IN	45/48DEG	IN	IN	
TGTS	00-Jan-00 0832Z	IMPACT	UN	HDG344-350	9500/FL095	9500/FL095	340/340KIAS	340/340KIAS	340/340KIAS	IN	35-45DEG	IN	IN	
EXPLODED	00-Jan-00 0300Z	IMPACT	UN	HDG345-350	FL080-100	FL080-100	360/360KIAS	360/360KIAS	360/360KIAS	IN	60/60	IN	IN	
EXPLODED	00-Jan-00 0300Z	IMPACT	UN	30/30	040FL	040FL	300/300KIAS	300/300KIAS	300/300KIAS	1.3166307/8000FT	45/45	IN	IN	
FIRE ON 57MM AAA	00-Jan-00 1045Z	IMPACT	UN	UN	5000/FL050	5000/FL050	UN	UN	UN	IN	35/35DEG	IN	IN	
30MM SPARKLING TARGET AREA	00-Jan-00 1044Z	IMPACT	UN	37/HDG037	60/060FT	60/060FT	310/310KTS	310/310KTS	310/310KTS	IN	30/30DEG	IN	IN	
30MM SPARKLING TARGET AREA	00-Jan-00 1042Z	IMPACT	UN	200/HDG200	58/058FT	58/058FT	310/310KTS	310/310KTS	310/310KTS	IN	35/35DEG	IN	IN	
MULTIPLE SECONDARIES	00-Jan-00 1425Z	IMPACT	UN	60/HDG060	60/060FT	60/060FT	375/375KIAS	375/375KIAS	375/375KIAS	2 RANGE	47/47DEG	3XTELS	IN	
MULTIPLE SECONDARIES	00-Jan-00 0640Z	IMPACT	UN	265/265	8.5K FT MSL	8.5K FT MSL	380/380KIAS	380/380KIAS	380/380KIAS	2.2 RANGE	50/50DEG	3XTELS	IN	
200RDS/30MM AT ARTY WITH HI-ORDER DETS	00-Jan-00 0644Z	IMPACT	UN	88/HDG088	AL1500FT	AL1500FT	300/300KTS	300/300KTS	300/300KTS	IN	38/38DEG	IN	IN	
100RDS/30MM AT ARTY WITH HI-ORDER DETS	00-Jan-00 0644Z	IMPACT	UN	90/HDG090	AL1450FT	AL1450FT	310/310KTS	310/310KTS	310/310KTS	IN	45/45DEG	IN	IN	
DIRECTLY INTO REVETMENT AND HIT VEHICLE	00-Jan-00 0740Z	UN	UN	330/HDG330	12000/FL120	12000/FL120	350/350KIAS	350/350KIAS	350/350KIAS	IN	45/45DEG	IN	IN	
DIRECTLY INTO REVETMENT AND HIT VEHICLE AND	00-Jan-00 0743Z	UN	UN	325/HDG325	12000/FL120	12000/FL120	355/355KIAS	355/355KIAS	355/355KIAS	IN	42/42DEG	IN	IN	
GUN PASS	00-Jan-00 1245Z	UN	UN	260/260	6000/6000FT AGL	6000/6000FT AGL	330/330KIAS	330/330KIAS	330/330KIAS	1.5 RANGE	26/26DEG	S	IN	

UNITS	TIME	COORDINATES	TYPE	STATUS	RESULTS	AGL	RANGE	DEG	OTHER
GUIN PASS	00-Jan-00 1246Z	260 260	IN	IN	6000 6000FT	AGL	1.5	26 26 DEG	S
POST	00-Jan-00 1011Z	270 HDG270	IN	IN	5400 FL 054			35 35 DEG	IN
DAMAGED	00-Jan-00 1005Z	50 HDG050	IMPACT	0 INST	5200 FLO52			35 35 DEG	IN
SUCCESSFUL	00-Jan-00 1011Z	40 HDG040	IMPACT	0 INST	5400 FLO54			43 43 DEG	IN
EXPLODED	00-Jan-00 1133Z	90 HDG090	IMPACT	INSTANTA	8100 FLO81			35 35 DEG	IN
30MM SPARKLING TARGET AREA	00-Jan-00 1206Z	50 HDG050	IMPACT	0 INSTANTA	24 024FT			20 20 DEG	IN
30MM SPARKLING TARGET AREA WITH SMOKE AND	00-Jan-00 1210Z	90 HDG090	IMPACT	0 INSTANTA	75 075FT			35 35 DEG	IN
250RDS X 30MM	00-Jan-00 0510Z	270 HDG270	IMPACT	IMPACT	ALT 1860FT			35 35 DEG	IN
TROOPS WITH 300RDS X 30MM	00-Jan-00 0513Z	270 HDG270	IMPACT	IMPACT	ALT 1970FT			35 35 DEG	IN
TROOPS WITH 300RDS X 30MM	00-Jan-00 0518Z	260 HDG260	IMPACT	IMPACT	ALT 1760FT			40 40 DEG	IN
1X T-55 TANK M-KILLED	00-Jan-00 0512Z	270 HDG270	IMPACT	IMPACT	ALT 1600FT			35 35 DEG	IN
1X T-55 TANK M-KILLED	00-Jan-00 1448Z	IN	IN	IN	IN			IN	IN
7 VEHICLES IN COMPOU	00-Jan-00 1450Z	IN	IN	IN	IN			IN	IN
ARTY PIT	00-Jan-00 1445Z	IN	IN	IN	IN			IN	IN
IN ART PIT	00-Jan-00 0556Z	350 HDG350	IN	IN	9500 FLO95			30 30 DEG	IN
AREA	00-Jan-00 0556Z	285 HDG285	IN	IN	9000 FLO90			35 35 DEG	IN
SUCCESSFUL	00-Jan-00 0951Z	280 280	IN	IN	8500 FLO85			40 40 DEG	IN
30MM SPARKLES ON MIL VEHICLES LOCATED IN	00-Jan-00 0840Z	270 HDG270	IMPACT	0 INSTANTA	8500 FLO85			35 35 DEG	IN
30MM SPARKLES ON MIL VEHICLES LOCATED IN	00-Jan-00 0640Z	90 90	IMPACT	0 INSTANTA	6848 6848MSL		2.4719741	22 11 22 11	IN
TORRE IT UP	00-Jan-00 0345Z	360 HDG360	IN	IN	FLT 130			42 42 DEG	IN
250 RNDSD COMBAT MIX GAU-8	00-Jan-00 0920Z	90 HDG090	IN	IN	5000 FLO50			34 34 DEG	IN
1150 RNDSD HEI GAU-8	00-Jan-00 0010Z	IN	IN	IN	IN			IN	IN
900 RNDSD COMBAT MIX GAU-8	00-Jan-00 0015Z	IN	IN	IN	IN			IN	IN
DETERMINE BDA	00-Jan-00 0446Z	305 305	IN	IN	18000 FL180		3.4	55 55 DEG	IN
7-9X ARTY IN REVETME	00-Jan-00 1109Z	92 92T	IN	IN	6450 6450		8731	IN	IN
400 RDS OF 30 MM API	00-Jan-00 0501Z	100FL	IN	IN	19000 190			IN	IN
1X IZ TRACTOR AND TR	00-Jan-00 0330Z	IN	IN	IN	IN			IN	IN
3 VEHICLES DESTROYED	00-Jan-00 0625Z	IN	IN	IN	IN			IN	IN
2X IZ MRL DESTROYED	00-Jan-00 0325Z	IN	IN	IN	IN			IN	IN
2X IZ ARTY DAMAGED	00-Jan-00 0957Z	IN	IN	IN	IN			IN	IN
1X ARTY ON HET DESTRO	00-Jan-00 0330Z	IN	IN	IN	IN			IN	IN
8 DESTROYED AMMO STO	00-Jan-00 0923Z	IN	IN	IN	IN			IN	IN
5-7X ARMORED VEHICLES	00-Jan-00 0923Z	IN	IN	IN	IN			IN	IN
3 ARMORED VEHICLES A	00-Jan-00 0342Z	IN	IN	IN	IN			IN	IN
2X IZ ARTY DAMAGED	00-Jan-00 1015Z	IN	IN	IN	IN			IN	IN
1X AMMO TRUCK POSSIB	00-Jan-00 0815Z	IN	IN	IN	IN			IN	IN
TARGET, ASSESSED AS GOOD HIT	00-Jan-00 1340Z	90 HDG090	IN	IN	9500 FLO95			34 34 DEG	IN
TARGET, ASSESSED AS GOOD HIT	00-Jan-00 1340Z	180 HDG180	IN	IN	9000 FLO90			30 30 DEG	IN
3 TANK REVETMENTS CO	00-Jan-00 0005Z	IN	IN	IN	IN			IN	IN
1 TANK REVETMENTS CO	00-Jan-00 0008Z	IN	IN	IN	IN			IN	IN
1X BUILDING DESTROYE	00-Jan-00 0700Z	IN	IN	IN	IN			IN	IN
SUCCESSFUL	00-Jan-00 0805Z	270 HDG270	IN	IN	14000 FL140			IN	IN
5 POL STORAGE TANKS	00-Jan-00 1047Z	IN	IN	IN	IN			IN	IN
11 POL STORAGE TANKS	00-Jan-00 1025Z	IN	IN	IN	IN			IN	IN
3X VEHICLES IN REVETM	00-Jan-00 1045Z	IN	IN	IN	IN			IN	IN
175RDS X 30MM CM	00-Jan-00 1345Z	IN	IN	IN	IN			IN	IN
330RDS X 30MM CM	00-Jan-00 1345Z	IN	IN	IN	IN			IN	IN
690X30MM CM	00-Jan-00 0439Z	270 270	IN	IN	13148 13148 MSL			48 48 DEG	HIT
SUCCESSFUL	00-Jan-00 0851Z	20 20	IN	IN	13500 13500 MSL			49 49 DEG	HIT
SUCCESSFUL	00-Jan-00 0840Z	IN	IN	IN	IN			IN	IN
1700RDS X 30MM CM AND HEI	00-Jan-00 1258Z	170 170	MIX	IN	16K FT AGL			IN	IN
UNSUCCESSFUL - NO SECONDARIES NOTED	00-Jan-00 0350Z	90 90	IN	IN	16000 MSL			45 45 DEG	IN
178RDS X 30MM HEI	00-Jan-00 0856Z	90 90	IN	IN	4200 FLO42			31 31 DEGREES	IN
SUCCESSFUL DUE TO 30MM IMPACTING TGT	00-Jan-00 2309Z	80 080T	IN	IN	6800 FLO68			29 29 DEGREES	IN
SUCCESSFUL DUE TO 30MM IMPACTING TGT	00-Jan-00 2309Z	90 090T	IN	IN	IN			IN	IN
FOR THE BOMBS OR THE GAU-8 TO PENETRATE	00-Jan-00 0647Z	IN	IN	IN	IN			IN	IN
REPORTED SEEING BLACK SMOKE RISING UP FROM THE	00-Jan-00 0835Z	IN	IN	IN	IN			IN	IN
1X IZ TANK DESTROYED	00-Jan-00 0916Z	IN	IN	IN	IN			IN	IN
1X IZ TANK HVLY DAMA	00-Jan-00 0931Z	IN	IN	IN	IN			IN	IN
2 TANKS DESTROYED OR	00-Jan-00 0630Z	IN	IN	IN	IN			IN	IN
3 POSSIBLE FROG-7 TE	00-Jan-00 0909Z	IN	IN	IN	IN			IN	IN
MULTIPLE TANKS AND V	00-Jan-00 0935Z	IN	IN	IN	IN			IN	IN
2XD-30 ARTILLERY PIE	00-Jan-00 2251Z	IN	IN	IN	IN			IN	IN
1X9HN-45 DESTROYED A	00-Jan-00 2235Z	IN	IN	IN	IN			IN	IN
2X IZ TANK HVLY DAMA	00-Jan-00 0938Z	IN	IN	IN	IN			IN	IN
4XD DESTROYED ARMOR VE	00-Jan-00 1248Z	IN	IN	IN	IN			IN	IN
1X IZ ARTY HVLY DAMA	00-Jan-00 1304Z	IN	IN	IN	IN			IN	IN
1XBUILDING DAMAGED	00-Jan-00 1650Z	IN	IN	IN	IN			IN	IN
1X IZ ARTY DESTROYED	00-Jan-00 1301Z	IN	IN	IN	IN			IN	IN
1X IZ APC HVLY DAMAG	00-Jan-00 0937Z	IN	IN	IN	IN			IN	IN
00-Jan-00 1310Z	00-Jan-00 1310Z	IN	IN	IN	IN			IN	IN





TARGET AREA BUT NO SECONDARIES WERE OBSERVED	00-Jan-00 0319Z	IN	IN	30 030 DEG	7400 FLO74	300 300KIAS	IN	IN	30 30 DEGREES	IN
TARGET AREA BUT NO SECONDARIES WERE OBSERVED	00-Jan-00 0315Z	IN	IN	330 330 DEG	7300 FLO73	330 330KIAS	IN	IN	45 45 DEGREES	IN
TARGET AREA BUT NO SECONDARIES WERE OBSERVED	00-Jan-00 0318Z	IN	IN	90 090 DEG	5300 FLO53	345 345KIAS	IN	IN	49 48 DEGREES	IN
8XMK92, 600 RDS OF COMBAT MIX 30MM	00-Jan-00 1820Z	IN	IN	90 90	5100 5100FT	338 338KIAS	IN	1.2 1.2NM SLANT	45 45	IN
THE TARGET AND REPORTED SEEING WHITE SMOKE	00-Jan-00 0514Z	IN	IN	90 90	4400 4400FT	324 324KIAS	IN	1.2 1.2NM SLANT	45 45	IN
THE TARGET AND REPORTED SEEING WHITE SMOKE	00-Jan-00 0615Z	IN	IN	90 90			IN			IN
1,000X30MM CM EXPENDED ON TARGET	00-Jan-00 1247Z	IN	IN	98 098T	11500 FL115	303 303KIAS	IN	SLANT RANGE	37 37 DEGREES	IN
800RDSX30MM HEI	00-Jan-00 1250Z	IN	IN	180 180T	9400 FLO94	361 361KIAS	IN	SLANT RANGE	41 41 DEGREES	IN
400RDSX30MM HEI	00-Jan-00 0915Z	IN	IN	270 270	8400 8400FT MSL	360 360KIAS	IN	RANGE	DIVE	IN
200RDSX30MM HEI	00-Jan-00 0915Z	IN	IN	270 270	8700 8700FT MSL	310 310KIAS	IN	RANGE	DIVE	IN
ARMOR REVETMENT	00-Jan-00 1746Z	IN	IN	20 20	6700 6700FT MSL	350 350KIAS	IN	RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED 2 TANKS	00-Jan-00 1720Z	IN	IN	120 120	7000 7000FT MSL	388 388KIAS	IN	RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED TANK	00-Jan-00 0528Z	IN	IN	90 90	9200 9200FT	330 330KIAS	IN	2 2NM SLANT	25 25	IN
SUCCESSFUL 30MM IMPACTED TANK	00-Jan-00 0535Z	IN	IN	278 278	9300 9300FT	224 224KIAS	IN	1.5 1.5NM SLANT	30 30	IN
SUCCESSFUL 30MM IMPACTED TANK	00-Jan-00 0533Z	IN	IN	90 90	8600 8600FT	366 366KIAS	IN	2.5 2.5NM SLANT	26 26	IN
SUCCESSFUL 30MM IMPACTED TANK	00-Jan-00 0526Z	IN	IN	90 90	8200 8200FT	377 377KIAS	IN			IN
760RDSX30MM	00-Jan-00 1137Z	IN	IN	90 90	FLT028	KTS348	IN		DEG24	IN
8XMK92, 150 ROUNDS 30MM CM HEI	00-Jan-00 1740Z	IN	IN	180 HDG080	FLT028	KTS290	IN		DEG30	IN
600 RDS 30MM	00-Jan-00 0945Z	IN	IN	180 HDG180	FLT038	KTS325	IN		DEG45	IN
400X30MM CM EXPENDED ON TARGET	00-Jan-00 0714Z	IN	IN	90 90	5600 55	350 350	IN	RANGE	30 30	IN
30MM API	00-Jan-00 2137Z	IN	IN	360 360	7000 70	360 360	IN	RANGE	42 42	IN
30MM API	00-Jan-00 2137Z	IN	IN	90 90	5500 85	350 350	IN	RANGE	30 30	IN
30MM API	00-Jan-00 2137Z	IN	IN	180 180	6000 FLO60	300 300KIAS	IN	1.3 1.3 66307 8000FT	30 30	IN
SUCCESSFUL 30MM IMPACTED TANK	00-Jan-00 0439Z	IN	IN	350 HDG350	FLT110	KTS320	IN	SLANT RANGE	DEG45	IN
SUCCESSFUL 30MM IMPACTED TANK	00-Jan-00 0438Z	IN	IN	380 HDG380	100FT	KTS310	IN	SLANT RANGE	DEG35	IN
GET A LOCK ON THE TARGET BEFORE FIRING HIS RDS.	00-Jan-00 0008Z	IN	IN	80 HDG080	FLI120	KTS365	IN	9000FT SLANT	DEG38	IN
GET A LOCK ON THE TARGET BEFORE FIRING HIS RDS.	00-Jan-00 0005Z	IN	IN	110 HDG110	FLI125	KTS385	IN		DEG60	IN
GET A LOCK ON THE TARGET BEFORE FIRING HIS RDS.	00-Jan-00 0005Z	IN	IN	40 HDG040	FLI140	KTS350	IN		DEG68	IN
GET A LOCK ON THE TARGET BEFORE FIRING HIS RDS.	00-Jan-00 0003Z	IN	IN	40 HDG040	FLI140	KTS350	IN		DEG35	IN
SUCCESSFUL TGT HVLY DAMAGED	00-Jan-00 0759Z	IMPACT	0 INSTANT	40 HDG040	FLI110	KTS370	IN		DEG43	IN
SUCCESSFUL TGT LT DAMAGED	00-Jan-00 0752Z	IMPACT	0 INSTANT	40 HDG040	FLI140	KTS350	IN		DEG40	IN
SUCCESSFUL TGT DAMAGED	00-Jan-00 0751Z	IMPACT	0 INSTANT	150 150 DEG	FLI150	KTS350	IN		DEG40	IN
PENETRATIONS	00-Jan-00 1423Z	IN	IN	180 180 DEG	10000 FL100	378 378KIAS	IN		45 45 DEGREES	IN
BLACK SMOKE FROM TARGET	00-Jan-00 1417Z	IN	IN	220 220	10000 FL100	350 350KIAS	IN		47 47 DEGREES	IN
PENETRATIONS	00-Jan-00 1423Z	IN	IN	59 59	10000 10000FT MSL	392 392KIAS	IN		80 60	IN
MILITARY VEHICLES IN REVETMENTS	00-Jan-00 0320Z	IMPACT	0 ANEOLUS	180 180 DEG	FLI100-080	320 320KIAS	IN	SLANT RANGE	45 45 DEGREES	IN
SUCCESSFUL DESTROYED 1XVEHICLE IN REVETMENT	00-Jan-00 0243Z	IMPACT	IN	225 225	10000 10000 MSL	330 330	IN	SLANT RANGE	55 55 DEGREES	IN
SUCCESSFUL POSSIBLY EMPTY REVETMENT	00-Jan-00 0316Z	IMPACT	IN	180 180	11000 11000 MSL	320 320	IN	GROUND	55 55 DEGREES	IN
1XSTORAGE SHED DESTROYED	00-Jan-00 0316Z	IMPACT	0 INSTANT	90 HDG090	FLT070	KTS300	IN	SLANT RANGE	DEG40	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1130Z	IMPACT	0 INSTANT	80 HDG080	FLT080	KTS300	IN	SLANT RANGE	DEG45	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1131Z	IMPACT	0 INSTANT	50 HDG050	FLT090	KTS300	IN	SLANT RANGE	DEG45	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1156Z	IMPACT	0 INSTANT	100 HDG100	FLT100	KTS300	IN	SLANT RANGE	DEG38	IN
UNSUCCESSFUL TGT MISSED	00-Jan-00 1192Z	IMPACT	0 INSTANT	70 HDG070	FLT090	KTS300	IN	SLANT RANGE	DEG35	IN
UNSUCCESSFUL TGT MISSED	00-Jan-00 1142Z	IMPACT	0 INSTANT	90 HDG090	FLT100	KTS300	IN	SLANT RANGE	DEG45	IN
UNSUCCESSFUL TGT HVY DAMAGE	00-Jan-00 1154Z	IMPACT	0 INSTANT	180 180	10000 FL100	350 350KIAS	IN	SLANT RANGE	45 45 DEG	IN
UNSUCCESSFUL TGT MISSED	00-Jan-00 1148Z	IMPACT	0 INSTANT	360 360	10000 FL109	337 337KIAS	IN	SLANT RANGE	45 45 DEG	IN
SECONDARIES	00-Jan-00 0858Z	IN	IN	225 225	FLI100-080	320 320KIAS	IN	GROUND	55 55 DEGREES	IN
NO SECONDARIES WERE OBSERVED	00-Jan-00 0850Z	IN	IN	180 180	11000 11000 MSL	320 320	IN	GROUND	55 55 DEGREES	IN
VEHICLE EXPLOSION	00-Jan-00 1621	IMPACT	0 ANEOLUS	80 80	15000 FL150	350 350KIAS	IN	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED BUILDING	00-Jan-00 0912Z	IN	IN	59 59	10000 10000FT MSL	392 392KIAS	IN	SLANT RANGE	45 45 DEGREES	IN
IMPACTING AAA EMPLOYMENT	00-Jan-00 2105Z	IN	IN	180 180 DEG	FLI100-080	320 320KIAS	IN	SLANT RANGE	60 60 DEG	IN
SUCCESSFUL	00-Jan-00 1050Z	INS	INS	225 225	10000 10000 MSL	330 330	IN	GROUND	55 55 DEGREES	IN
SUCCESSFUL MUNITIONS IMPACTED DESIRED AREA	00-Jan-00 0346Z	INS	INS	180 180	11000 11000 MSL	320 320	IN	GROUND	55 55 DEGREES	IN
SUCCESSFUL MUNITIONS IMPACTED DESIRED AREA	00-Jan-00 0358Z	IN	IN	90 HDG090	FLT070	KTS300	IN	SLANT RANGE	DEG40	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1414Z	IMPACT	0 INSTANT	80 HDG080	FLT080	KTS300	IN	SLANT RANGE	DEG45	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1415Z	IMPACT	0 INSTANT	50 HDG050	FLT090	KTS300	IN	SLANT RANGE	DEG45	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1418Z	IMPACT	0 INSTANT	100 HDG100	FLT100	KTS300	IN	SLANT RANGE	DEG38	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1421Z	IMPACT	0 INSTANT	70 HDG070	FLT090	KTS300	IN	SLANT RANGE	DEG35	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1427Z	IMPACT	0 INSTANT	90 HDG090	FLT100	KTS300	IN	SLANT RANGE	DEG45	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1438Z	IMPACT	0 INSTANT	180 180	10000 FL100	350 350KIAS	IN	SLANT RANGE	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 1201Z	INS	INS	270 270	10000 FL100	325 325KIAS	IN	SLANT RANGE	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 1202Z	INS	INS	360 360	10000 FLO90	330 330KIAS	IN	SLANT RANGE	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 1206Z	INS	INS	90 90	10000 FL100	328 325KIAS	IN	SLANT RANGE	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 1208Z	INS	INS	270 270	80000 FL800	400 400KIAS	IN	SLANT RANGE	46 46 DEG	IN
SUCCESSFUL	00-Jan-00 1208Z	INS	INS	180 180	10500 FL105	415 415KIAS	IN	SLANT RANGE	41 41 DEG	IN
SUCCESSFUL	00-Jan-00 1208Z	INS	INS	90 90	98000 FL980	315 315KIAS	IN	SLANT RANGE	46 46 DEG	IN
SUCCESSFUL	00-Jan-00 1202Z	INS	INS	270 270	90000 FL900	320 320KIAS	IN	SLANT RANGE	35 35 DEG	IN
SUCCESSFUL	00-Jan-00 1206Z	INS	INS	75 075T	9776 9776	372 372	IN	11273 11273	Known	IN
POD VIDEO CONFIRMS DIRECT HIT	00-Jan-00 0937Z	IN	IN	75 075T	11340 11340	334 334	IN	15748 15748	Known	IN
IN	00-Jan-00 0928Z	IN	IN	240 HDG240	FLI121	KTS345	IN	17	DEG43	IN
GUN BORESIGHT PROBS.	00-Jan-00 0516Z	IMPACT	0 INSTANT	30 HDG030	FLI100	KTS345	IN		DEG45	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1258Z	IMPACT	0 INSTANT	360 HDG360	FLI120	KTS325	IN		DEG45	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1308Z	IMPACT	0 INSTANT				IN		DEG45	IN

SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1254Z	IMPACT	0 INSTANT	30 HDG030	FLI100	KTS352	IN	IN	DEG54	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1249Z	IMPACT	0 INSTANT	30 HDG030	FLI100	KTS348	IN	IN	DEG45	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1238Z	IMPACT	0 INSTANT	360 HDG360	FLI120-130	KTS313	IN	IN	DEG50	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1306Z	IMPACT	0 INSTANT	360 HDG360	FLI120	KTS325	IN	IN	DEG43	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1305Z	IMPACT	0 INSTANT	45 HDG045	FLI120	KTS350	IN	IN	DEG45	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1239Z	IMPACT	0 INSTANT	360 HDG360	FLI120-130	KTS360	IN	IN	DEG30	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1303Z	IMPACT	0 INSTANT	345 HDG345	FLI135	KTS310	IN	IN	DEG43	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1309Z	IMPACT	0 INSTANT	40 HDG040	FLI123	KTS321	IN	IN	DEG48	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1307Z	IMPACT	0 INSTANT	340 HDG340	FLI114	KTS331	IN	IN	DEG57	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1305Z	IMPACT	0 INSTANT	337 HDG337	FLI130	KTS325	IN	IN	DEG40	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1249Z	IMPACT	0 INSTANT	355 HDG355	FLI110	KTS325	IN	IN	DEG48	IN
SUCCESSFUL TGT POSSIBLY DESTROYED	00-Jan-00 1245Z	IMPACT	0 INSTANT	10 HDG010	FLI137	KTS318	IN	RANGE	DEG44	IN
LEFT TGT POSSIBLY DESTROYED	00-Jan-00 0228	IMPACT	0 INSTANT	336 HDG336	FLI138	KTS332	IN	IN	DEG55	IN
SECONDARIES	00-Jan-00 0523	IN	IN	360 360 DEG	10500 FL106	370 370 KIAS	IN	IN	36 35 DEGREES	IN
OBSERVED. THE SUSPECTED SSM BURNED FOR THE	00-Jan-00 0518Z	IN	IN	90 090 DEG	13000 FL130	277 277 KIAS	IN	IN	48 48 DEGREES	IN
SECONDARIES	00-Jan-00 0509Z	IN	IN	360 360 DEG	10000 FL100	300 300 KIAS	IN	IN	34 34 DEGREES	IN
SECONDARIES	00-Jan-00 0525Z	IN	IN	360 360 DEG	10000 FL100	348 345 KIAS	IN	IN	32 32 DEGREES	IN
SECONDARIES	00-Jan-00 0530Z	IN	IN	360 360 DEG	10000 FL100	300 300 KIAS	IN	IN	34 34 DEGREES	IN
SECONDARIES	00-Jan-00 0520Z	IN	IN	360 360 DEG	13000 FL130	300 300 KIAS	IN	IN	34 34 DEGREES	IN
SECONDARIES	00-Jan-00 0511Z	IN	IN	360 360 DEG	10000 FL100	345 345 KIAS	IN	IN	32 32 DEGREES	IN
SUCCESSFUL PILOT REPORTED SEEING SECONDARIES	00-Jan-00 0813Z	IN	IN	90 90	10000 10000	330 330 KIAS	IN	IN	45 45	IN
TARGET AND SAW SPARKELS ON ONE OF THE TWO	00-Jan-00 0809Z	IN	IN	20 20	11000 FL110	320 320 KIAS	IN	SLANT	48 48	IN
ASSESSED SUCCESSFUL DUE TO BLOWING SMOKE	00-Jan-00 1933Z	IN	IN	210 210	7000 FL070	300 300 KIAS	IN	SLANT	30 30	IN
ASSESSED SUCCESSFUL DUE TO BLOWING SMOKE	00-Jan-00 1937Z	IN	IN	30 30	8000 FL080	300 300 KIAS	IN	SLANT	45 45	IN
EXPLOSIONS AND WAS UNABLE TO PERFORM BDA	00-Jan-00 2240Z	IN	IN	180 180	3000 FL030	269 269 KIAS	IN	SLANT	30 30	IN
OBSERVATION	00-Jan-00 2245	IN	IN	60 HDG060	3500 FL035	270 270 KIAS	IN	1.5 MILES	30 30	IN
SUCCESSFUL TGT DESTROYED	00-Jan-00 0923Z	IMPACT	0 INSTANT	50 HDG050	FLI040	KTS280	IN	IN	DEG35	IN
SUCCESSFUL TGT DESTROYED	00-Jan-00 0919Z	IMPACT	0 INSTANT	HOG0180	FLI040	KTS300	IN	IN	DEG35	IN
SUCCESSFUL TGT DESTROYED	00-Jan-00 0918Z	IMPACT	0 INSTANT	50 HDG050	FLI080	KTS300	IN	IN	DEG30	IN
SUCCESSFUL TGT DESTROYED	00-Jan-00 0918Z	IMPACT	0 INSTANT	270 HDG270	FLI080	KTS310	IN	IN	DEG35	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0907Z	IMPACT	0 INSTANT	8 HDG008	FLI030	KTS300	IN	IN	DEG30	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0905Z	IMPACT	0 INSTANT	270 HDG270	FLI070	KTS380	IN	IN	DEG46	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0918Z	IMPACT	0 INSTANT	280 HDG280	FLI065	KTS380	IN	IN	DEG48	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0925Z	IMPACT	0 INSTANT	180 HDG180	FLI050	KTS300	IN	IN	DEG45	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0927Z	IMPACT	0 INSTANT	180 HDG180	FLI050	KTS310	IN	IN	DEG40	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0920Z	IMPACT	0 INSTANT	300 HDG300	FLI060	KTS340	IN	IN	DEG45	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0930Z	IMPACT	0 INSTANT	190 HDG190	FLI045	KTS300	IN	IN	DEG40	IN
SUCCESSFUL TGT HVI DAMAGED	00-Jan-00 0929Z	IMPACT	0 INSTANT	300 HDG300	FLI055	KTS320	IN	IN	DEG35	IN
SUCCESSFUL	00-Jan-00 2320Z	IN	IN	120 HDG120	3000 FL030	300 300 KIAS	IN	RANGE	15 15 DEGREE	IN
SUCCESSFUL	00-Jan-00 2325Z	IN	IN	80 80	3000 FL030	300 300 KIAS	IN	RANGE	15 15 DEGREE	IN
SUCCESSFUL	00-Jan-00 1037Z	INS	INS	90 90	FLI143-108	388 385 KIAS	IN	SLANT	54 54 DEG	IN
FIREBALL	00-Jan-00 1440Z	IMPACT	0 INSTANT	360 360	4000 FL040	321 321 KIAS	IN	SLANT	54 54 DEG	IN
REMAINED	00-Jan-00 1440	HEI	INS	270 270	030 FL	360 360 KIAS	IN	1 MILE	30 30	IN
SUCCESSFUL	00-Jan-00 0655	HEI	INS	230 230	8000 FL080	270 270	IN	6000 SLANT	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 0210Z	INS	INS	90 90	8000 FL080	350 350	IN	2.5 NM SLANT	50 50 DEG	IN
SUCCESSFUL	00-Jan-00 0215Z	INS	INS	260 260	8000 FL080	330 330 KIAS	IN	SLANT	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 0240Z	INS	INS	260 260	6000 FL060	330 330 KIAS	IN	SLANT	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 0235Z	INS	INS	280 280	8000 FL080	330 330 KIAS	IN	SLANT	45 45 DEG	IN
SUCCESSFUL	00-Jan-00 0235Z	INS	INS	210 HDG210	FLI 140	KTS325	IN	RANGE	45 45 DEG	IN
SUCCESSFUL 1XREVETTED APC DESTROYED	00-Jan-00 0817Z	IMPACT	0 INSTANT	100 HDG100	FLI086	KTS375	IN	RANGE	DEG50	IN
SUCCESSFUL 1XREVETTED APC DESTROYED	00-Jan-00 2139Z	IN	IN	90 HDG090	FLI084	356 356 KIAS	IN	SLANT RANGE	DEG50	IN
SUCCESSFUL 30MM ROUNDS DETONATED ON TARGET	00-Jan-00 2145Z	IN	IN	70 70	10800 FL08	341 341 KIAS	IN	1.6457883 10000 FT	45 45	IN
SUCCESSFUL 30MM ROUNDS DETONATED ON TARGET	00-Jan-00 0431Z	IN	IN	4000 4000 MSL	4000 4000 MSL	270 270 KIAS	IN	1.5 SLANT	20 20 DEG	IN
SUCCESSFUL 1XFUEL TRUCK DESTROYED	00-Jan-00 1236Z	IMPACT	0 INSTANT	270 HDG270	FLI 060	KTS370	IN	IN	DEG47	IN
SUCCESSFUL 1XFUEL TRUCK DESTROYED	00-Jan-00 1236Z	IMPACT	0 INSTANT	270 HDG270	FLI070	KTS380	IN	IN	DEG38	IN
SUCCESSFUL REVETTED VEHICLE DESTROYED	00-Jan-00 1240Z	IMPACT	0 INSTANT	180 HDG180	FLI070	KTS380	IN	IN	DEG38	IN
SUCCESSFUL 1XFUEL TRUCK DESTROYED	00-Jan-00 1232Z	IMPACT	0 INSTANT	270 HDG270	FLI 060	KTS380	IN	IN	DEG47	IN
SUCCESSFUL ROUNDS DETONATED ON TARGET	00-Jan-00 1905Z	IN	IN	10000 FL100	FLI100	350 350 KIAS	IN	IN	45 45	IN
SUCCESSFUL STORAGE BUNKER DAMAGED	00-Jan-00 0303Z	IMPACT	0 INSTANT	270 HDG270	FLI085	KTS380	IN	IN	DEG55	IN
SUCCESSFUL STORAGE BUNKER DAMAGED	00-Jan-00 0235Z	IN	IN	90 90	FLI085	KTS380	IN	IN	DEG46	IN
DIFFERENT SECONDARY EXPLOSIONS OF THE SIX	00-Jan-00 0415Z	IN	IN	8000 8000 FT	8000 8000 FT	370 370 KIAS	IN	9000 FT SLANT	45 45	IN
SUCCESSFUL	00-Jan-00 0426Z	IN	IN	80 80	10000 FL100	298 296 KIAS	IN	SLANT	48 48	IN
SUCCESSFUL	00-Jan-00 0415Z	IN	IN	300 300	10000 FL120	300 300 KIAS	IN	SLANT	44 44	IN
SUCCESSFUL	00-Jan-00 0424Z	IMPACT	0 INSTANT	300 300	10000 FL120	300 300 KIAS	IN	SLANT	45 45	IN
SUCCESSFUL DESTROYED AMMO STORAGE AREA	00-Jan-00 1835Z	IN	IN	120 120 DEG	8000 FL080	395 395 KIAS	IN	SLANT RANGE	IN	IN
IMPACTING ARMOR	00-Jan-00 1831Z	IN	IN	120 120 DEG	8100 FL081	394 394 KIAS	IN	RANGE	55 55 DEGREES	IN
IMPACTING ARMOR	00-Jan-00 1834Z	IN	IN	205 205 DEG	7900 FL079	384 384 KIAS	IN	SLANT RANGE	33 33 DEGREES	IN
IMPACTING ARMOR	00-Jan-00 1827Z	IN	IN	200 200 DEG	11400 FL114	348 348 KIAS	IN	SLANT RANGE	44 44 DEGREES	IN
SUCCESSFUL 30MM IMPACTED TROOPS POSITION	00-Jan-00 0844Z	IN	IN	170 170	9300 9300 FTMSL	462 462 KTS	IN	SLANT RANGE	DIVE	IN

DESCRIPTION	TIME	STATUS	COORDINATES	ALTITUDE	WEAPONS	RESULTS	REMARKS	TYPE	STATUS	COORDINATES	ALTITUDE	WEAPONS	RESULTS	REMARKS	TYPE	STATUS	COORDINATES	ALTITUDE	WEAPONS	RESULTS	REMARKS	
SUCCESSFUL 30MM IMPACTED 3RD VEHICLE	00-Jan-00 2042Z	IN	115 115	6900	6900FTMSL	399 399KTS	RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL 30MM IMPACTED VEHICLE	00-Jan-00 2043Z	IN	105 105	5800	5800FTMSL	362 362KTS	RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL 30MM IMPACTED 2ND VEHICLE	00-Jan-00 2040Z	IN	90 90	7400	7400FTMSL	388 388KTS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL DUE TO MULT 30MM HITS ON TGT.	00-Jan-00 1509Z	IN	90 90	10000	FL100	350 350KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL DUE TO MULT 30MM HITS ON TGT.	00-Jan-00 1505Z	IN	90 90	10000	FL100	350 350KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL DUE TO MULT 30MM HITS ON TGT.	00-Jan-00 1513Z	IN	90 90	10000	FL100	350 350KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL DUE TO MULT 30MM HITS ON TGT.	00-Jan-00 1500Z	IN	90 90	10000	FL100	350 350KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL DUE TO MULT 30MM HITS ON TGT.	00-Jan-00 1503Z	IN	90 90	10000	FL100	350 350KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IMPACTING THEIR TARGETS BUT WERE UNABLE TO	00-Jan-00 1047Z	IN	145 145	9000	9000FT	370 370KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL	00-Jan-00 1045Z	IN	90 90	9000	9000FT	340 340KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL	00-Jan-00 1056Z	IN	310 310	10000	10000FT	355 355KIAS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
NOT SEE DUE TO PULLING OFF OF TARGET AREA.	00-Jan-00 1631Z	IN	70 70	12000	FL120	351 351KIAS	2.0572354 12500 FT	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
3 PROBABLE DAMAGED TANKS	00-Jan-00 1651Z	IN	80 80	12000	FL120	335 335KIAS	1.7280778 10500FT	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
FIRE POSITION IN BANKS OF THE RIVER	00-Jan-00 1127Z	IN	160 HDG160	FL1 090	FL1 090	FLTS360	DEG42	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
FIRE POSITION	00-Jan-00 1125Z	IN	240 HDG240	FLT090	FLT090	FLTS400	DEG56	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL 1X REVETTED TRUCK DESTROYED	00-Jan-00 1044Z	IN	240 HDG240	FLT090	FLT090	FLTS400	DEG56	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL 1X REVETTED TRUCK DESTROYED	00-Jan-00 1116Z	IN	350 HDG350	FLT070	FLT070	FLTS400	DEG65	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT DAMAGED	00-Jan-00 1318Z	IN	180 HDG180	FLT125	FLT125	FLTS360	DEG50	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1320Z	IN	150 HDG150	FLT120	FLT120	FLTS350	DEG55	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1330Z	IN	230 HDG230	FLT120	FLT120	FLTS350	DEG45	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 1331Z	IN	230 HDG230	FLT120	FLT120	FLTS350	DEG50	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT DAMAGED	00-Jan-00 1343Z	IN	210 HDG210	FLT118	FLT118	FLTS330	DEG50	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
OR ARMOR WERE DESTROYED. BDA WAS NOT ABLE TO	00-Jan-00 1345Z	IN	10 HDG010	FLT120	FLT120	FLTS370	DEG35	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
DESTROYED. BDA WAS NOT ABLE TO BE DETERMINED.	00-Jan-00 1946Z	IN	100 100	15000	FL150	325 325KIAS	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
ARTILLERY OR ARMOR WERE DESTROYED. BDA WAS	00-Jan-00 1942Z	IN	110 110	15000	FL150	325 325KIAS	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
POD VIDEO SHOWS BULLETS WIDE OF TARGET	00-Jan-00 0556Z	HE 5	240 240T	10076	10076	386 386	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
HE 5	00-Jan-00 0552Z	HE 5	240 240T	10076	10076	386 386	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
POD VIDEO SHOWS BULLETS SHORT	00-Jan-00 0911Z	IN	70 HDG070	FLT064	FLT064	FLTS360	5.000FT SLANT	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0911Z	IN	70 HDG070	FLT064	FLT064	FLTS360	5.000FT SLANT	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0916Z	IN	80 HDG080	FLT040	FLT040	FLTS386	1.0MM SLANT	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0908Z	IN	90 HDG090	FLT051	FLT051	FLTS360	8000	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNSUCCESSFUL TGT LTY DAMAGED	00-Jan-00 0907Z	IN	80 HDG080	FLT045	FLT045	FLTS325	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNSUCCESSFUL DUE TO MISSING THE TARGET	00-Jan-00 1407Z	IN	180 180	4000	FL040	410 410KIAS	1.6457883 10000FT	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
HAD TO BE DONE MANUALLY	00-Jan-00 1463Z	IN	150 150	5000	FL050	375 375KIAS	2MILE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
HAD TO BE DONE MANUALLY	00-Jan-00 1449Z	IN	90 90	5000	FL050	375 375KIAS	1MILE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKNOWN DUE TO DARKNESS	00-Jan-00 2232Z	IN	180 180	10000	FL100	350 350KIAS	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKNOWN DUE TO DARKNESS	00-Jan-00 2230Z	IN	180 180	10000	FL100	350 350KIAS	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKNOWN DUE TO DARKNESS	00-Jan-00 2230Z	IN	180 180	10000	FL100	350 350KIAS	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKNOWN DUE TO DARKNESS	00-Jan-00 2232Z	IN	180 180	10000	FL100	350 350KIAS	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKNOWN DUE TO DARKNESS	00-Jan-00 2232Z	IN	180 180	10000	FL100	350 350KIAS	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL WINGO 22 NOTED THE ROUNDS HIT	00-Jan-00 1055Z	IN	240 240T	14500	14500FTMSL	350 350KIAS	4.7 RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKNOWN BDA DUE TO POOR LIGHT VISIBILITY	00-Jan-00 1524Z	IN	90 HDG090	10000	FL100	300 300KIAS	RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKNOWN BDA DUE TO POOR LIGHT VISIBILITY	00-Jan-00 1527Z	IN	90 HDG090	10000	FL100	300 300KIAS	RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNSUCCESSFUL TGT LTY DAMAGED	00-Jan-00 1000Z	IN	140 HDG140	FLT100	FLT100	FLTS300	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT DAMAGED	00-Jan-00 1012Z	IN	144 HDG144	FLT045	FLT045	FLTS300	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT DAMAGED	00-Jan-00 1013Z	IN	144 HDG144	FLT045	FLT045	FLTS300	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT DAMAGED	00-Jan-00 1011Z	IN	343 HDG343	FLT095	FLT095	FLTS300	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT DAMAGED	00-Jan-00 1009Z	IN	140 HDG140	FLT150	FLT150	FLTS350	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNSUCCESSFUL 30MM DID NOT IMPACT AAA POSITION	00-Jan-00 0455Z	IN	270 270	7400	7400FTMSL	416 416KTS	RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL 30MM IMPACTED AAA POSITION	00-Jan-00 0447Z	IN	300 300	9900	9900FTMSL	408 408KTS	RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL 30MM IMPACTED AAA POSITION	00-Jan-00 0472Z	IN	300 300	9900	9900FTMSL	445 445KTS	RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL 30MM IMPACTED AAA POSITION	00-Jan-00 0447Z	IN	300 300	7800	7800FTMSL	431 431KTS	SLANT RANGE	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0520Z	IN	90 HDG090	FLT110	FLT110	FLTS376	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
UNKN TGT BDA UNKN DUE TO SMOKE IN TGT AREA	00-Jan-00 0530Z	IN	90 HDG090	FLT110	FLT110	FLTS376	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0527Z	IN	270 HDG270	FLT117	FLT117	FLTS344	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0528Z	IN	345 HDG345	FLT110	FLT110	FLTS350	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0529Z	IN	90 HDG090	FLT129	FLT129	FLTS330	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0527Z	IN	90 HDG090	FLT129	FLT129	FLTS330	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0523Z	IN	90 HDG090	FLT118	FLT118	FLTS360	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
SUCCESSFUL TGT HVY DAMAGED	00-Jan-00 0520Z	IN	295 HDG295	FLT127	FLT127	FLTS323	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IN	00-Jan-00 1341Z	IN	140 140	12KFT AGL	12KFT AGL	360 360KIAS	2.6 2.6NM	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IN	00-Jan-00 1336Z	IN	176 175	6KFT AGL	6KFT AGL	350 350KIAS	2.2NM	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IN	00-Jan-00 1316Z	IN	180 180	8.8KFT AGL	8.8KFT AGL	330 330KIAS	1.8 1.8NM	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IN	00-Jan-00 1348Z	IN	210 210	12KFT AGL	12KFT AGL	350 350KIAS	2.2 2.2NM	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IN	00-Jan-00 1354Z	IN	169 165	9KFT AGL	9KFT AGL	370 370KIAS	1.9 1.9NM	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IN	00-Jan-00 1320Z	IN	200 200	9KFT AGL	9KFT AGL	365 365KIAS	2.2NM	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
IN	00-Jan-00 1350Z	IN	90 90	8KFT AGL	8KFT AGL	360 360KIAS	1.7 1.7															



00-Jan-00 1718Z	00-Jan-00 1718Z	IN	IN	IN	IN	341 341	2800 FLO28	370 370KIAS	0.6418575 3900FT	32 32	IN	IN
00-Jan-00 1719Z	00-Jan-00 1719Z	IN	IN	IN	IN	270 270	4000 FLO40	360 360KIAS	1.1MILES	26 26	IN	IN
00-Jan-00 1353Z	00-Jan-00 1353Z	IN	IN	IN	IN	120 120T	13K FT AGL	340 340KIAS	2 RANGE	DIVE	IN	IN
00-Jan-00 1358Z	00-Jan-00 1358Z	IN	IN	IN	IN	180 180T	13K FT AGL	360 360KIAS	2 RANGE	DIVE ANGLE	IN	IN
00-Jan-00 1421Z	00-Jan-00 1421Z	IN	IN	IN	IN	210 210T	13K FT AGL	340 340KIAS	2 RANGE	DIVE ANGLE	IN	IN
00-Jan-00 1422Z	00-Jan-00 1422Z	IN	IN	IN	IN	210 210T	13K FT AGL	320 320KIAS	2 RANGE	DIVE ANGLE	IN	IN
00-Jan-00 1359Z	00-Jan-00 1359Z	IN	IN	IN	IN	210 210T	13K FT AGL	315 315KIAS	2 RANGE	DIVE ANGLE	IN	IN
00-Jan-00 1354Z	00-Jan-00 1354Z	IN	IN	IN	IN	270 270T	11K FT AGL	350 350KIAS	2 RANGE	DIVE ANGLE	IN	IN
00-Jan-00 0956Z	00-Jan-00 0956Z	IMPACT	IMPACT	IMPACT	IMPACT	100 HDG100	14400 FL144	334 334KIAS	IN	DEG41	IN	IN
00-Jan-00 0655Z	00-Jan-00 0655Z	IN	IN	IN	IN	20 20	13900 13900FTMSL	389 389KTS	SLANT RANGE	DEG41	IN	IN
00-Jan-00 0955Z	00-Jan-00 0955Z	IMPACT	IMPACT	IMPACT	IMPACT	90 HDG090	15000 FL150	320 320KIAS	IN	DEG45	IN	IN
00-Jan-00 0452Z	00-Jan-00 0452Z	IMPACT	IMPACT	IMPACT	IMPACT	120 HDG120	10000 FL100	350 350KIAS	IN	DEG45	IN	IN
00-Jan-00 0447Z	00-Jan-00 0447Z	IMPACT	IMPACT	IMPACT	IMPACT	90 HDG090	11800 FL118	370 370KIAS	IN	DEG45	IN	IN
00-Jan-00 0448Z	00-Jan-00 0448Z	IMPACT	IMPACT	IMPACT	IMPACT	110 HDG110	11000 FL110	380 380KIAS	IN	DEG45	IN	IN
00-Jan-00 0444Z	00-Jan-00 0444Z	IMPACT	IMPACT	IMPACT	IMPACT	120 HDG120	9500 FLO95	350 350KIAS	IN	DEG45	IN	IN
00-Jan-00 0453Z	00-Jan-00 0453Z	IMPACT	IMPACT	IMPACT	IMPACT	150 HDG150	12000 FL120	350 350KIAS	IN	DEG45	IN	IN
00-Jan-00 0451Z	00-Jan-00 0451Z	IMPACT	IMPACT	IMPACT	IMPACT	110 HDG110	10000 FL100	350 350KIAS	IN	DEG45	IN	IN
00-Jan-00 0456Z	00-Jan-00 0456Z	IMPACT	IMPACT	IMPACT	IMPACT	90 HDG090	15000 FL150	330 330KIAS	IN	DEG45	IN	IN
00-Jan-00 0454Z	00-Jan-00 0454Z	IMPACT	IMPACT	IMPACT	IMPACT	110 HDG110	10000 FL100	350 350KIAS	IN	DEG45	IN	IN
00-Jan-00 0449Z	00-Jan-00 0449Z	IMPACT	IMPACT	IMPACT	IMPACT	170 HDG170	10000 FL100	350 350KIAS	IN	DEG45	IN	IN
00-Jan-00 2313Z	00-Jan-00 2313Z	IN	IN	IN	IN	90 90	8616 8616MSL	413 413KIAS	10763 10763SLANT	50.61 50.61DEG	IN	IN
00-Jan-00 2308Z	00-Jan-00 2308Z	IN	IN	IN	IN	60 60	1002 1002MSL	10994 10994SLANT	60.35 60.35DEG	50.33 50.33DEG	IN	IN
00-Jan-00 2312Z	00-Jan-00 2312Z	IN	IN	IN	IN	60 60	7982 7982MSL	359 359KIAS	DIS9776SLANT	50.3 50.3DEG	IN	IN
00-Jan-00 0644Z	00-Jan-00 0644Z	IMPACT	IMPACT	IMPACT	IMPACT	90 HDG090	FLT100	KT5400	1.717NM SLANT	DEG57	IN	IN
00-Jan-00 0714Z	00-Jan-00 0714Z	IMPACT	IMPACT	IMPACT	IMPACT	90 HDG090	FLT100	KT5353	1.911NM SLANT	DEG57	IN	IN
00-Jan-00 0706Z	00-Jan-00 0706Z	IMPACT	IMPACT	IMPACT	IMPACT	90 HDG090	FLT100	KT5350	2.121NM SLANT	DEG57	IN	IN
00-Jan-00 0640Z	00-Jan-00 0640Z	IMPACT	IMPACT	IMPACT	IMPACT	360 HDG360	FLT100	KT5375	1.8 RANGE	DEG57	IN	IN
00-Jan-00 0710Z	00-Jan-00 0710Z	IMPACT	IMPACT	IMPACT	IMPACT	180 HDG180	FLT100	KT5385	2.0NM SLANT	DEG57	IN	IN
00-Jan-00 0635Z	00-Jan-00 0635Z	IMPACT	IMPACT	IMPACT	IMPACT	180 HDG180	FLT120	KT5360	1.911NM SLANT	DEG61	IN	IN
00-Jan-00 0642Z	00-Jan-00 0642Z	IMPACT	IMPACT	IMPACT	IMPACT	360 HDG360	FLT120	KT5316	1.911NM SLANT	DEG46	IN	IN
00-Jan-00 2350Z	00-Jan-00 2350Z	IN	IN	IN	IN	340 340	8000 8000 MSL	350 350 KIAS	1.5 SLANT	32 32 DEG	WEAPON	IN
00-Jan-00 2352Z	00-Jan-00 2352Z	IN	IN	IN	IN	335 335	14200 14200 MSL	328 328 KIAS	3.5 3.8 SLANT	27 27 DEG	WEAPON	IN
00-Jan-00 1505Z	00-Jan-00 1505Z	IN	IN	IN	IN	78 78	10000 FL100	373 373KIAS	IN	48 48	IN	IN
00-Jan-00 1507Z	00-Jan-00 1507Z	IN	IN	IN	IN	50 50	10000 FL100	332 332KIAS	IN	50 50	IN	IN
00-Jan-00 1504Z	00-Jan-00 1504Z	IN	IN	IN	IN	150 150	13000 FL130	300 300KIAS	IN	51 51	IN	IN
00-Jan-00 2253Z	00-Jan-00 2253Z	IN	IN	IN	IN	200 200	7000 FL130	290 290KIAS	IN	47 47	IN	IN
00-Jan-00 2251Z	00-Jan-00 2251Z	IN	IN	IN	IN	190 190	7700 FLO77	376 376	1.547041 9400FT	40 40	IN	IN
00-Jan-00 2250Z	00-Jan-00 2250Z	IN	IN	IN	IN	160 160	6300 FLO63	395 395KIAS	1.5305632 9300FT	40 40	IN	IN
00-Jan-00 1348Z	00-Jan-00 1348Z	IMPACT	IMPACT	IMPACT	IMPACT	245 HDG245	7700 FLO77	376 376	1.547041 9400FT	50 50	IN	IN
00-Jan-00 1320Z	00-Jan-00 1320Z	IN	IN	IN	IN	59 59	8000 FLO80	345 345KIAS	IN	DEG46	IN	IN
00-Jan-00 1324Z	00-Jan-00 1324Z	IN	IN	IN	IN	180 180	12K FT MSL	340 340	2.4 RANGE	60 60DEG	IN	IN
00-Jan-00 1343Z	00-Jan-00 1343Z	IN	IN	IN	IN	320 320	10K FT MSL	340 340	RANGE	40 40DEG	IN	IN
00-Jan-00 1345Z	00-Jan-00 1345Z	IN	IN	IN	IN	20 20	8K FT MSL	330 330	2.3 RANGE	45 45DEG	IN	IN
00-Jan-00 1322Z	00-Jan-00 1322Z	IN	IN	IN	IN	0 0	9.5K FT MSL	348 348	RANGE	38 38DEG	IN	IN
00-Jan-00 1326Z	00-Jan-00 1326Z	IN	IN	IN	IN	210 210	8K FT MSL	312 312	RANGE	30 30DEG	IN	IN
00-Jan-00 1332Z	00-Jan-00 1332Z	IN	IN	IN	IN	160 160	8K FT MSL	304 304	SLANT RANGE	42 42DEG	IN	IN
00-Jan-00 0747Z	00-Jan-00 0747Z	IN	IN	IN	IN	45 45	8.8K FT MSL	320 320	RANGE	46 46DEG	IN	IN
00-Jan-00 0828Z	00-Jan-00 0828Z	IN	IN	IN	IN	90 90	11230 11230	325 325	13254 13254	Known	Y VEHICLE	IN
00-Jan-00 0845Z	00-Jan-00 0845Z	IN	IN	IN	IN	90 90	13904 13904	295 295	17690 17690	Known	49DEG	IN
00-Jan-00 0853Z	00-Jan-00 0853Z	IN	IN	IN	IN	90 90	10888 10888	295 295	15659 15659	Known	40DEG	IN
00-Jan-00 0750Z	00-Jan-00 0750Z	IN	IN	IN	IN	360 360T	12324 12324	299 299	19000 19000	Known	42DEG	IN
00-Jan-00 0751Z	00-Jan-00 0751Z	IN	IN	IN	IN	160 160T	10899 10899	405 405	12542 12542	Known	44DEG	IN
00-Jan-00 0356Z	00-Jan-00 0356Z	IN	IN	IN	IN	90 90	9238 9238	280 280	11599 11599	Known	48DEG	IN
00-Jan-00 0355Z	00-Jan-00 0355Z	IN	IN	IN	IN	90 90	1500	278 278	5050 5050	Known	30DEG	IMPACTE
00-Jan-00 0402Z	00-Jan-00 0402Z	IN	IN	IN	IN	90 90	3270	3997 3997	3997 3997	Known	30DEG	IMPACTE
00-Jan-00 0630Z	00-Jan-00 0630Z	IN	IN	IN	IN	90 90	5988	4627 4627	4627 4627	Known	36 36DEG	IMPACTE
00-Jan-00 0557Z	00-Jan-00 0557Z	IN	IN	IN	IN	120 120T	6990 6990	342 342	8148 8148	Known	41DEG	IMPACTE
00-Jan-00 0556Z	00-Jan-00 0556Z	IN	IN	IN	IN	120 120T	5536 5536	446 446	8742 8742	Known	22DEG	IN
00-Jan-00 1533Z	00-Jan-00 1533Z	IN	IN	IN	IN	150 150T	10964 10964	342 342	13105 13105	Known	36 36DEG	IN
00-Jan-00 1756Z	00-Jan-00 1756Z	IN	IN	IN	IN	160 HDG160	6864 6864MSL	374 374KIAS	11282 11282SLANT	33.15 33.15DEG	IN	IN
00-Jan-00 1752Z	00-Jan-00 1752Z	IN	IN	IN	IN	160 HDG160	8000 FLO80	325 325KIAS	IN	30 30	IN	IN
00-Jan-00 1747Z	00-Jan-00 1747Z	IN	IN	IN	IN	160 HDG160	8000 FLO80	325 325KIAS	IN	30 30	IN	IN
00-Jan-00 1749Z	00-Jan-00 1749Z	IN	IN	IN	IN	160 HDG160	8000 FLO80	325 325KIAS	IN	30 30	IN	IN
00-Jan-00 1758Z	00-Jan-00 1758Z	IN	IN	IN	IN	180 HDG180	8000 FLO80	325 325KIAS	IN	30 30	IN	IN
00-Jan-00 0119Z	00-Jan-00 0119Z	IN	IN	IN	IN	80 80	9000 FLO90	329 329KIAS	IN	30 30	IN	IN
00-Jan-00 0115Z	00-Jan-00 0115Z	IN	IN	IN	IN	80 80	9000 FLO90	300 300KIAS	IN	41 41	IN	IN
00-Jan-00 0123Z	00-Jan-00 0123Z	IN	IN	IN	IN	80 80	9000 FLO90	300 300KIAS	IN	41 41	IN	IN
00-Jan-00 0125Z	00-Jan-00 0125Z	IN	IN	IN	IN	80 80	9000 FLO90	300 300KIAS	IN	41 41	IN	IN
00-Jan-00 0117Z	00-Jan-00 0117Z	IN	IN	IN	IN	80 80	9000 FLO90	300 300KIAS	IN	41 41	IN	IN
00-Jan-00 1211Z	00-Jan-00 1211Z	IMPACT	IMPACT	IMPACT	IMPACT	250 HDG250	5600 FLO55	250 250KIAS	IN	DEG45	IN	IN

SUCCESS. TGT PROB DESTROYED	00-Jan-00 1206Z	IMPACT	0INST	245 HDG245	7000 FLO70	350 350KIAS	IN	IN	DEG40	IN
SUCCESS. TGT PROB DESTROYED	00-Jan-00 1208Z	IMPACT	0INST	340 HDG340	5000 FLO50	270 270KIAS	IN	IN	DEG45	IN
SUCCESS. TGT DESTROYED	00-Jan-00 1204Z	IMPACT	0INST	350 HDG350	7500 FLO75	340 340KIAS	IN	IN	DEG40	IN
SUCCESS. TGT PROB DESTROYED	00-Jan-00 1206Z	IMPACT	0INST	360 HDG360	5000 FLO50	340 340KIAS	IN	IN	DEG45	IN
SUCCESS. TGT DESTROYED	00-Jan-00 1207Z	IMPACT	0INST	90 HDG090	7500 FLO75	350 350KIAS	IN	IN	DEG42	IN
SUCCESS. TGT DESTROYED	00-Jan-00 1203Z	IMPACT	0INST	270 HDG270	5000 FLO50	370 370KIAS	IN	IN	DEG35	IN
SUCCESS. TGT HVY DAMAGED	00-Jan-00 1214Z	IMPACT	0INST	155 HDG155	11500 FLO115	360 360KIAS	IN	IN	47 47DEG	IN
SUCCESS. TGT PROB DESTROYED	00-Jan-00 1218Z	IMPACT	0INST	245 HDG245	12000 FLO120	360 360KIAS	IN	IN	47 47DEG	IN
SUCCESS. TGT PROB DESTROYED	00-Jan-00 1217Z	IMPACT	0INST	340 HDG340	5000 FLO50	270 270KIAS	IN	IN	45 45DEG	IN
SUCCESS. TGT HVY DAMAGED	00-Jan-00 1216Z	IMPACT	0INST	90 HDG090	15000 FLO150	370 370KIAS	IN	IN	45 45DEG	IN
SUCCESS. TGT HVY DAMAGED	00-Jan-00 1215Z	IMPACT	0INST	100 HDG100	11500 FLO115	340 340KIAS	IN	IN	55 55DEG	IN
SUCCESS. TGT HVY DAMAGED	00-Jan-00 1220Z	IMPACT	0INST	110 HDG110	12500 FLO125	360 360KIAS	IN	IN	45 45DEG	IN
SUCCESS. TGT HVY DAMAGED	00-Jan-00 1216Z	IMPACT	0INST	45 45	4500 FLO45	351 351KIAS	IN	1MILES	35 35	IN
SUCCESSFULLY DESTROYED ONE CONVOY VEHICLES.	00-Jan-00 2125	IN	IN	360 360	5000 FLO50	300 300KIAS	IN	2000	10 10 DEGREES	IN
SUCCESSFULLY DESTROYED 1 VEHICLE IN CONVOY	00-Jan-00 0736Z	INS	INS	180 180DEG	5000 FLO50	350 350KIAS	IN	2500	10 10 DEGREES	IN
SUCCESSFUL	00-Jan-00 0742Z	INS	INS	180 180DEG	5000 FLO50	350 350KIAS	IN	2500	10 10 DEGREES	IN
SUCCESSFUL	00-Jan-00 0737Z	INS	INS	180 180DEG	5000 FLO50	350 350KIAS	IN	2500	10 10 DEGREES	IN
SUCCESSFUL	00-Jan-00 0743Z	INS	INS	270 270DEG	5000 FLO50	360 360KIAS	IN	2300	10 10 DEGREES	IN
SUCCESSFUL	00-Jan-00 0830Z	INS	INS	90 90	11000 FLO110	350 350KIAS	IN	2.2 2.2NM SLANT	45 45	IN
DAMAGE	00-Jan-00 1451Z	IN	IN	360 360	8000 FLO80	350 350KIAS	IN	1.4647516 8300FT	47 47	IN
DAMAGE	00-Jan-00 1450Z	IN	IN	70 70	7000 FLO70	350 350KIAS	IN	1.7NM FT	47 47	IN
DAMAGE	00-Jan-00 1451Z	IN	IN	90 90	9800 FLO98	325 325KIAS	IN	1.7NM FT	48 48	IN
DAMAGE	00-Jan-00 1453Z	IN	IN	60 60	10000 FLO100	313 313KIAS	IN	2000 FT	47 47	IN
FURTHER MANPAD OR AAA ACTIVITY	00-Jan-00 1462Z	IN	IN	65 65	17600-15400	265 265 KIAS	IN	3.29 15787 2000 FT	32 32	IN
SUCCESSFUL	00-Jan-00 1424Z	INS	INS	200 200DEG	6000 FLO60	375 375KIAS	IN	1.3NM FT	49 49DEG	IN
SUCCESSFUL	00-Jan-00 1434Z	INS	INS	200 200DEG	6000 FLO60	375 375KIAS	IN	1.7NM FT	49 49DEG	IN
SUCCESSFUL	00-Jan-00 1426Z	INS	INS	185 185DEG	6000 FLO60	431 431KIAS	IN	1.7NM FT	49 49DEG	IN
SUCCESSFUL 30MM IMPACTED TANK	00-Jan-00 0835Z	IN	IN	60 60	12900 12800FTMSL	429 429KIAS	IN	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED VEHICLES	00-Jan-00 0931Z	IN	IN	90 90	10000 10000FTMSL	400 400KIAS	IN	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED VEHICLES	00-Jan-00 0928Z	IN	IN	105 105	9100 9100FTMSL	453 453KIAS	IN	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED TRUCK	00-Jan-00 0945Z	IN	IN	210 210	6000 6000FTMSL	400 400KIAS	IN	RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED TRUCK	00-Jan-00 0944Z	IN	IN	170 170	7600 7600FTMSL	470 470KIAS	IN	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM HIT TANK	00-Jan-00 2205Z	IN	IN	45 45	7000 7000FTMSL	374 374KIAS	IN	RANGE	DIVE	IN
SUCCESSFUL 30MM HIT TANK	00-Jan-00 2204Z	IN	IN	30 30	4500 4500FTMSL	443 443KIAS	IN	RANGE	DIVE	IN
SUCCESSFUL 30MM HIT TANK	00-Jan-00 2203Z	IN	IN	30 30	3000 3000FTMSL	468 468KIAS	IN	RANGE	DIVE	IN
SUCCESSFUL 30MM HIT TANK	00-Jan-00 2202Z	IN	IN	45 45	7000 7000FTMSL	473 473KIAS	IN	RANGE	DIVE	IN
SUCCESSFUL 30MM HIT TANK	00-Jan-00 1420Z	IMPACT	0INST	360 HDG360	10000 FLO100	355 355KIAS	IN	41 41DEG	IN	IN
UNSUCCESSFUL. TGT MISSED	00-Jan-00 1422Z	IMPACT	0INST	360 HDG360	10000 FLO100	355 355KIAS	IN	42 42DEG	IN	IN
UNSUCCESSFUL. TGT HVY DAMAGED	00-Jan-00 0916Z	IMPACT	0INST	270 HDG270	8500 FLO85	240 240KIAS	IN	40 40DEG	IN	IN
UNSUCCESSFUL. TGT HVY DAMAGED	00-Jan-00 0908Z	IMPACT	0INST	270 HDG270	14300 FLO143	345 345KIAS	IN	41 41DEG	IN	IN
UNSUCCESSFUL. TGT MISSED	00-Jan-00 0907Z	IMPACT	0INST	270 HDG270	13500 FLO135	350 350KIAS	IN	56 56DEG	IN	IN
UNSUCCESSFUL. TGT DESTROYED	00-Jan-00 0915Z	IMPACT	0INST	200 HDG200	10000 FLO100	280 280KIAS	IN	45 45DEG	IN	IN
UNSUCCESSFUL. TGT DESTROYED	00-Jan-00 0753Z	IN	IN	210 210T	12210 12210	340 340	IN	19275 19275	35DEG	IN
GFAC SAID IMPACT IN DESIRED AREA	00-Jan-00 0637Z	IN	IN	90 90T	10060 10060FT	343 343	IN	2.4706675 15012FT	38 38DEG	IN
POD VIDEO SHOWS GOOD HITS	00-Jan-00 050640Z	IN	IN	90 90T	7796	317 317	IN	8768 8768	50DEG	IN
UNKNOWN EFFECTS WITHOUT VIDEO	00-Jan-00 0730Z	IN	IN	180 180T	13478 13478	281 281	IN	13058 13058	52DEG	IN
UNKNOWN EFFECTS WITHOUT VIDEO	00-Jan-00 0732Z	IN	IN	180 180T	10340 10340	372 372	IN	10754 10754	58.7DEG	IN
UNKNOWN EFFECTS WITHOUT VIDEO	00-Jan-00 0734Z	IN	IN	180 180T	10652 10652	345 345	IN	12018 12018	57DEG	IN
UNKNOWN EFFECTS WITHOUT VIDEO	00-Jan-00 0735Z	IN	IN	270 270T	13480 13480	316 316	IN	15318 15318	55DEG	IN
UNKNOWN EFFECTS WITHOUT VIDEO	00-Jan-00 0726Z	IN	IN	310 310T	10508 10508	359 359	IN	12065 12065	53.8DEG	IN
UNSUCCESSFUL. PILOT OBSERVED	00-Jan-00 1526Z	IN	IN	360 360T	13960 13960	307 307	IN	16538 16538	4000 4000SLANT	IN
UNSUCCESSFUL. PILOT OBSERVED	00-Jan-00 1548Z	IN	IN	270 270T	8555 8555MSL	395 395KIAS	IN	4000 4000SLANT	42.49 42.48DEG	IN
SUCCESSFUL. TGT DAMAGED	00-Jan-00 0319Z	IMPACT	0INST	220 HDG220	5000 FLO50	300 300KIAS	IN	311 311TAS	45 45DEG	IN
SUCCESSFUL. TGT DAMAGED	00-Jan-00 0317Z	IMPACT	0INST	260 HDG260	4800 FLO49	340 340KIAS	IN	350 350	45 45DEG	IN
SUCCESSFUL. TGT DAMAGED	00-Jan-00 0328Z	IMPACT	0INST	270 HDG270	7000 FLO70	323 323KIAS	IN	350 350	45 45DEG	IN
SUCCESSFUL. TGT DAMAGED	00-Jan-00 0330Z	IMPACT	0INST	220 HDG220	6500 FLO65	300 300KIAS	IN	350 350	45 45DEG	IN
SUCCESSFUL. TGT DAMAGED	00-Jan-00 0327Z	IMPACT	0INST	240 HDG240	8000 FLO80	320 320KIAS	IN	350 350	45 45DEG	IN
SUCCESSFUL. TGT DAMAGED	00-Jan-00 0325Z	IMPACT	0INST	180 HDG180	6500 FLO65	340 340KIAS	IN	350 350	45 45DEG	IN
SUCCESSFUL. TGT DAMAGED	00-Jan-00 0328Z	IMPACT	0INST	180 HDG180	7000 FLO70	330 330KIAS	IN	350 350	45 45DEG	IN
SUCCESSFUL SPARKLES OBSERVED ON HIT OF TANKS	00-Jan-00 1415Z	IN	IN	45 HDG045	6000 FLO60	350 350KIAS	IN	45 45	45 45	IN
SUCCESSFUL SPARKLES OBSERVED ON HIT OF APC'S	00-Jan-00 1417Z	IN	IN	48 HDG048	5000 FLO50	350 350KIAS	IN	45 45	40 40	IN
SUCCESSFUL SPARKLES OBSERVED ON HIT OF TANK	00-Jan-00 1401Z	FMU-139	IMPACT	120 HDG120	10000 FLO100	350 350KIAS	IN	2	40 40	IN
SUCCESSFUL	00-Jan-00 0559Z	IN	IN	351 351	8000 8000 MSL	350 350	IN	RANGE	40 40 DEGREES	IN
SUCCESSFUL	00-Jan-00 0620Z	IN	IN	360 360	7500 7500FT	350 350KIAS	IN	SLANT	45 45	IN
SUCCESSFUL	00-Jan-00 1311Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1309Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1313Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1320Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1325Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1314Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1312Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1310Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN
SUCCESSFUL	00-Jan-00 1322Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	IN	2.3370194 14200FT	35 35	IN

SUCCESSFUL ROUNDS HIT ON TARGET	00-Jan-00 1326Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	2,3370194	14200FT	3535	IN	IN
SUCCESSFUL ROUNDS HIT ON TARGET	00-Jan-00 1327Z	IN	IN	360 HDG360	8000 FLO80	300 300KIAS	2,3370194	14200FT	3535	IN	IN
SUCCESSFUL	00-Jan-00 1308Z	INS	INS	90 090DEG	10000 FL100	368 388KIAS		12,000 FT	41 41DEG	IN	RELEASE
SUCCESSFUL	00-Jan-00 1309Z	INS	INS	90 090DEG	10000 FL100	378 378KIAS		12,000 FT	46 46DEG	IN	RELEASE
SUCCESSFUL	00-Jan-00 1313Z	INS	INS	90 090DEG	8500 FLO85	360 380KIAS		9,300 FT	45 45DEG	IN	RELEASE
SUCCESSFUL	00-Jan-00 1313Z	INS	INS	90 090DEG	10000 FL100	375 375KIAS		6,000 FT	43 43DEG	IN	RELEASE
UNKNOWN	00-Jan-00 2366Z	IN	IN	270 HDG270	15000 FL150	266 266KIAS		IN	36 36	IN	IN
UNKNOWN	00-Jan-00 2354Z	IN	IN	270 HDG270	15000 FL150	266 266KIAS		IN	36 36	IN	IN
SUCCESSFULLY IMPACTED TARGET	00-Jan-00 2244Z	IN	IN	10 10	7000 7000FT	330 330KIAS		IN	20 20	IN	IN
SUCCESSFULLY IMPACTED TARGET	00-Jan-00 2245Z	IN	IN	10 10	8400 8400FT	330 330KIAS		IN	16 16	IN	IN
SUCCESSFUL	00-Jan-00 0501Z	IN	IN	360 360	11000 11000 MSL	290 290 KIAS		HORIZONTAL	35 35 DEG	IN	HIT
SUCCESSFUL	00-Jan-00 0499Z	IN	IN	360 360	10000 10000 MSL	370 370 KIAS		HORIZONTAL	38 38 DEG	IN	HIT
SUCCESSFUL	00-Jan-00 0511Z	IN	IN	46 46	10500 10500 MSL	332 332 KIAS		HORIZONTAL	46 46 DEG	IN	HIT
SUCCESSFUL	00-Jan-00 0500Z	IN	IN	360 360	8400 8400 MSL	324 324 KIAS		HORIZONTAL	35 35 DEG	IN	HIT
SUCCESSFUL	00-Jan-00 0848Z	INS	INS	180 180	6000 FLO60	300 300KIAS		12,000 FT	10 10DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0850Z	INS	INS	180 180	6000 FLO60	300 300KIAS		12,000 FT	10 10DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0855Z	INS	INS	180 180	6000 FLO60	300 300KIAS		12,000 FT	10 10DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0395Z	INS	INS	270 270DEG	10000 FL100	350 350KIAS		11400	50 50 DEGREES	IN	IMPACTE
SUCCESSFUL	00-Jan-00 0407Z	INS	INS	360 360DEG	16000 FL160	320 320KIAS		12000	30 30 DEGREES	IN	IMPACTE
SUCCESSFUL	00-Jan-00 0357Z	INS	INS	270 270DEG	10000 FL100	350 350KIAS		11400	50 50 DEGREES	IN	IMPACTE
SUCCESSFUL	00-Jan-00 0405Z	INS	INS	310 310DEG	11000 FL110	350 350KIAS		13000	46 46 DEGREES	IN	IMPACTE
HEAVY EQUIPMENT TRANSPORT	00-Jan-00 2240Z	IN	IN	350 350T	10000 FL100	300 300IAS		2,2 STANDOFF	30 30 DEGREES	IN	IN
HEAVY EQUIPMENT TRANSPORT	00-Jan-00 2245Z	IN	IN	350 350T	10000 FL100	300 300IAS		2,2 STANDOFF	30 30 DEGREES	IN	IN
TELL IF VEHICLES WERE HIT OR NOT	00-Jan-00 0423Z	IN	IN	270 HDG270	12500 FL125	345 345KIAS		IN	51 51DEG	IN	IN
NEBULA 255(F-18) BOMBS.	00-Jan-00 245	IN	IN	250 250	12000 FL120	350 350KIAS		IN	30 30	IN	IN
SUCCESSFUL BUILDING DAMAGED	00-Jan-00 0509Z	IN	IN	300 300	12000 12000 FT	300 300 KIAS	1,974946	12000 FT	60 60	IN	IN
SUCCESSFUL BUILDING DAMAGED	00-Jan-00 0513Z	IN	IN	300 300	8000 8000 FT	300 300 KIAS	1,974946	12000 FT	30 30	IN	IN
SUCCESSFUL BLDGS DAMAGED	00-Jan-00 0507	IN	IN	290 290	10000 10000 FT	350 350 KIAS	1,974946	12000 FT	25 25	IN	IN
UNSUCCESSFUL, HIT RIGHT OF TARGET	00-Jan-00 0507	IN	IN	290 290	10000 10000 FT	350 350 KIAS	1,974946	12000 FT	25 25	IN	IN
SUCCESSFUL 30MM ROUNDS LANDED ON TARGET	00-Jan-00 0200Z	INS	INS	360 HDG360	10500 10500	300 300KIAS		IN	13 13	IN	IN
SUCCESSFUL 30MM ROUNDS LANDED ON TARGET	00-Jan-00 0205Z	INS	INS	30 HDG030	8500 FLO85	340 340KIAS		IN	21 21	IN	IN
SUCCESSFUL 30MM HVY MORTAR POSITION	00-Jan-00 0746Z	INS	INS	10 10	8000 8000FT MSL	405 405KTS		SLANT RANGE	30 30DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1446Z	INS	INS	80 80	4800 FLO48	345 345KIAS		9000	23 23DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1443Z	INS	INS	80 80	4500 FLO45	340 340KIAS		10000	20 20DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1440Z	INS	INS	80 80	5000 FLO50	350 350KIAS		8000	27 27DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1453Z	INS	INS	80 80	4700 FLO47	356 356KIAS		9000	24 24DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1442Z	INS	INS	80 80	4500 FLO45	378 378KIAS		8500	21 21DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1500Z	INS	INS	80 80	5000 FLO50	350 350KIAS		8000	30 30DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1450Z	INS	INS	80 80	4700 FLO47	360 360KIAS		8000	28 28DEG	IN	IN
EXPLOSIONS OBSERVED.	00-Jan-00 1445Z	INS	INS	80 80	5500 FLO55	340 340KIAS		8500	43 43DEG	IN	IN
AND TANK DISAPPEARING INTO A CLOUD OF SMOKE	00-Jan-00 1400Z	INS	INS	270 HDG 270	6000 FLO60	354 354KIAS		IN	40 40DEG	IN	IN
SUCCESSFUL, TGT HVLY DAMAGED	00-Jan-00 0525Z	IMPACT	IMPACT	240 HDG240	4000 FLO40	290 290KIAS		IN	45 45DEG	IN	IN
SUCCESSFUL, TGT HVLY DAMAGED	00-Jan-00 0521Z	IMPACT	IMPACT	220 HDG220	6500 FLO65	300 300KIAS		IN	49 49DEG	IN	IN
SUCCESSFUL, TGT HVLY DAMAGED	00-Jan-00 0520Z	IMPACT	IMPACT	90 HDG090	4500 FLO45	250 250KIAS		IN	40 40DEG	IN	IN
SUCCESSFUL, TGT HVLY DAMAGED	00-Jan-00 0512Z	IMPACT	IMPACT	240 HDG240	5500 FLO55	270 270KIAS		IN	40 40DEG	IN	IN
SUCCESSFUL, TGT HVLY DAMAGED	00-Jan-00 0509Z	IMPACT	IMPACT	260 HDG260	4500 FLO45	290 290KIAS		IN	45 45DEG	IN	IN
SUCCESSFUL, TGT HVLY DAMAGED	00-Jan-00 0530Z	IMPACT	IMPACT	240 HDG240	4000 FLO40	200 200KIAS		IN	40 40DEG	IN	IN
SUCCESSFUL, TGT HVLY DAMAGED	00-Jan-00 0527Z	IMPACT	IMPACT	140 HDG140	4000 FLO40	200 200KIAS		IN	40 40DEG	IN	IN
SUCCESSFUL, TGT DAMAGED	00-Jan-00 0512Z	IMPACT	IMPACT	30 HDG030	7000 FLO70	350 350KIAS		IN	45 45DEG	IN	IN
SUCCESSFUL, TGT DAMAGED	00-Jan-00 0510Z	IMPACT	IMPACT	30 HDG030	6500 FLO65	350 350KIAS		IN	48 48DEG	IN	IN
WEAPONS EXPENDED WITHIN PARAMETERS, NO BDA	00-Jan-00 0514Z	IN	IN	120 120	11700 11700	383 383	2,3534773	14300 FT	43 43	IN	IN
WEAPONS EXPENDED WITHIN PARAMETERS, NO BDA	00-Jan-00 0455Z	IN	IN	85 85	10800 10800 FT AGL	355 355	13000	13000	52 52	IN	IN
WEAPONS EXPENDED WITHIN PARAMETERS, NO BDA	00-Jan-00 0432Z	IN	IN	85 85	12300 12300	318 318 KIAS	2,3041037	14000 FT	50 50	IN	IN
WEAPONS EXPENDED WITHIN PARAMETERS, NO BDA	00-Jan-00 0516Z	IN	IN	90 90	12000 12000	365 365	17000	17000	49 49	IN	IN
WEAPONS EXPENDED WITHIN PARAMETERS, NO BDA	00-Jan-00 0433Z	IN	IN	90 90	11000 AGL	371 371	18500	18500	46 46	IN	IN
WEAPONS EXPENDED WITHIN PARAMETERS, NO BDA	00-Jan-00 0430Z	IN	IN	IN	10500 AGL	347 347	2,7978402	17000 FT	43 43	IN	IN
SUCCESSFUL	00-Jan-00 0459Z	INS	INS	270 270	14700 14700	354 354	20500	20500	42 42	IN	IN
SUCCESSFUL	00-Jan-00 0856Z	INS	INS	90 090 DEG	9500 FLO95	364 364KIAS		10000	27 27 DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0851Z	INS	INS	90 090 DEG	8500 FLO85	356 356KIAS		10000	28 28 DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0848Z	INS	INS	275 275 DEG	8000 FLO80	385 385KIAS		12000	25 25 DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0845Z	INS	INS	270 270 DEG	8500 FLO85	395 395KIAS		12000	25 25 DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0857Z	INS	INS	90 090 DEG	8500 FLO85	395 395KIAS		12000	25 25 DEGREES	IN	WITHIN
SUCCESSFUL	00-Jan-00 0892Z	INS	INS	270 270 DEG	8500 FLO85	395 395KIAS		12000	25 25 DEGREES	IN	WITHIN
SUCCESSFUL, TGT AREA HVLY NEUTRALIZED.	00-Jan-00 0904Z	IMPACT	IMPACT	270 HDG270	10000 FL100	340 340KIAS		IN	48 48DEG	IN	IN
SUCCESSFUL, TGT AREA HVLY NEUTRALIZED.	00-Jan-00 0905Z	IMPACT	IMPACT	270 HDG270	10000 FL100	360 360KIAS		IN	45 45DEG	IN	IN
SUCCESSFUL	00-Jan-00 0838Z	INS	INS	90 090DEG	15000 FL150	350 350KIAS		SLANT	40 40 DEGREES	IN	EXPENDE
SUCCESSFUL	00-Jan-00 0840Z	INS	INS	90 090DEG	15000 FL150	350 350KIAS		SLANT	40 40 DEGREES	IN	EXPENDE
SUCCESSFUL	00-Jan-00 0838Z	INS	INS	270 270DEG	4000 FLO40	350 350KIAS		8,000FT SLANT	35 35 DEGREES	IN	IN
WHICH BEGAN TO BURN AND EXPLODE.	00-Jan-00 0849Z	IN	IN	270 HDG 120	6000 FLO60	345 345KIAS		IN	40 40DEG	IN	IN
WHICH BEGAN TO BURN AND EXPLODE.	00-Jan-00 0852Z	IN	IN	130 HDG 130	6700 FLO67	350 350KIAS		IN	40 40DEG	IN	IN
SUCCESSFUL	00-Jan-00 0714Z	IN	IN	80 80	6716 6716 MSL	327 327 KIAS	8381	8381	47 47 DEGREES	IN	SECONDA
SUCCESSFUL	00-Jan-00 0708Z	IN	IN	110 110	6700 6700 MSL	330 330 KIAS	9200	9200	47 47 DEGREES	IN	IN
SUCCESSFUL	00-Jan-00 0716Z	IN	IN	330 330	8100 8100 MSL	305 305 KIAS	10800	10800	48 48 DEGREES	IN	STRUCK
TANK ASSESSED DESTROYED OR SEVERELY DAMAGED	00-Jan-00 1205Z	IN	IN	90 HDG090	5000 FLO50	355 355KIAS		IN	43 43DEG	IN	IN
TANK ASSESSED DESTROYED OR SEVERELY DAMAGED	00-Jan-00 1209Z	IN	IN	90 HDG090	8000 FLO80	352 352KIAS		IN	45 45DEG	IN	IN
TANK ASSESSED DESTROYED OR SEVERELY DAMAGED	00-Jan-00 1212Z	IN	IN	10 HDG010	5000 FLO50	360 360KIAS		IN	42 42DEG	IN	IN

00-Jan-00 00456Z	IMPACT	0INST	130 HDG 180	4000 FLO40	350 350KIAS	IN	1919DEG	IN
SUCCESSFUL TGT HVY DAMAGED	IMPACT	0INST	150 HDG180	4200 FLO42	330 330KIAS	IN	2929DEG	IN
SUCCESSFUL TGT DESTROYED	IMPACT	IN	150 150	2000 FLO42	290-300	IN	3030DEG	IN
SUCCESSFUL	IN	IN	150 150	2000 FLO42	250-300	IN	3030DEG	IN
SUCCESSFUL	IN	IN	150 150	2000 FLO42	250-300	IN	4040DEG	IN
SUCCESSFUL	IN	IN	150 150	2000 FLO42	250-300	IN	2020DEG	IN
SUCCESSFUL	IN	IN	150 150	2000 FLO42	250-300	IN	3030DEG	IN
SUCCESSFUL	IN	IN	150 150	2000 FLO42	250-300	IN	2020DEG	IN
SUCCESSFUL	IN	IN	360 360	3500 FLO42	320 320	IN	3030DEG	IN
SUCCESSFUL	IN	IN	360 360	3500 FLO42	320 320	IN	4040DEG	IN
SUCCESSFUL	IN	IN	110 110	3500 FLO42	320 320	IN	3030DEG	IN
SUCCESSFUL	IN	IN	110 110	3500 FLO42	320 320	IN	3030DEG	IN
SUCCESSFUL	IN	IN	110 110	3500 FLO42	320 320	IN	4040DEG	IN
SUCCESSFUL	IN	IN	360 360	3500 FLO42	320 320	IN	4040DEG	IN
SUCCESSFUL	IN	IN	19 019 DEG	700 FLO07	356 356KIAS	IN	13 13 DEGREES	IN
SUCCESSFUL	INS	INS	120 120 DEG	900 FLO09	350 350KIAS	IN	11 11 DEGREES	IN
SUCCESSFUL	INS	INS	10 010 DEG	600 FLO06	348 348KIAS	IN	13 13 DEGREES	IN
SUCCESSFUL	INS	INS	170 170 DEG	1900 FLO19	338 338KIAS	IN	14 14 DEGREES	IN
SUCCESSFUL	INS	INS	10 010 DEG	1100 FLO11	343 343KIAS	IN	7 DEGREES	IN
SUCCESSFUL	INS	INS	175 175 DEG	900 FLO09	358 358KIAS	IN	13 13 DEGREES	IN
SUCCESSFUL	INS	INS	10 010 DEG	900 FLO09	358 358KIAS	IN	15 15 DEGREES	IN
SUCCESSFUL	INS	INS	170 170 DEG	1100 FLO11	375 375KIAS	IN	13 13 DEGREES	IN
SUCCESSFUL	INS	INS	10 010 DEG	800 FLO08	358 358KIAS	IN	13 13 DEGREES	IN
SUCCESSFUL	INS	INS	10 010 DEG	700 FLO07	350 350KIAS	IN	6 DEGREES	IN
SUCCESSFUL	INS	INS	170 170 DEG	500 FLO05	323 323KIAS	IN	7 DEGREES	IN
SUCCESSFUL	INS	INS	10 010 DEG	1100 FLO11	343 343KIAS	IN	14 14 DEGREES	IN
SUCCESSFUL	INS	INS	170 170 DEG	1600 FLO15	337 337KIAS	IN	14 14 DEGREES	IN
SUCCESSFUL	INS	INS	120 120 DEG	900 FLO09	328 328KIAS	IN	11 11 DEGREES	IN
SUCCESSFUL	INS	INS	135 135 DEG	800 FLO08	297 297KIAS	IN	8 DEGREES	IN
SUCCESSFUL	INS	INS	30 030 DEG	2100 FLO21	333 333KIAS	IN	25 25 DEGREES	IN
PARAMETERS	IN	IN	IN	2000-6000	KIAS	IN	IN	IN
PARAMETERS	IN	IN	IN	2000-6000	270-330	IN	IN	IN
TARGET AND SPARKING	IN	IN	90 HDG080	5600 FLO56	377 377KIAS	IN	38 38DEG	IN
TARGET AND SPARKING	IN	IN	80 HDG080	5600 FLO56	295 295KIAS	IN	33 33DEG	IN
TARGET AND SPARKING	IN	IN	270 HDG270	4000 FLO40	377 377KIAS	IN	38 38DEG	IN
TARGET AND SPARKING	IN	IN	270 HDG270	5500 FLO55	365 365KIAS	IN	38 38DEG	IN
TARGETS	IN	IN	360 360	6000 FLO60	290 290KIAS	IN	46 46	IN
TARGETS	IN	IN	180 180	7800 FLO78	308 308	IN	36 36	IN
TARGETS	IN	IN	360 360	6700 FLO67	286 286KIAS	IN	39 39	IN
TARGETS	IN	IN	9000 FLO90	6000 FLO60	320 320KIAS	IN	46 46	IN
TARGETS	IN	IN	360 360	6000 FLO60	300 300KIAS	IN	40 40	IN
TARGETS	IN	IN	360 360	6000 FLO60	332 332KIAS	IN	45 45	IN
TARGETS	IN	IN	180 180	8700 FLO87	300 300KIAS	IN	43 43	IN
TARGETS	IN	IN	180 180	6800 FLO68	323 323KIAS	IN	60 60	IN
TARGETS	IN	IN	270 270	15000 FLO15	350 350KIAS	IN	49 49	IN
TARGETS	IN	IN	90 90	8600 FLO86	351 351	IN	29 29	IN
TARGETS	IN	IN	10700 FLO107	10500 FLO105	330 330KIAS	IN	27 27	IN
TARGETS	IN	IN	180 HDG180	FLO50-090	325 325KIAS	IN	45 45DEG	IN
TARGETS	IN	IN	180 HDG180	FLO50-090	325 325KIAS	IN	45 45DEG	IN
TARGETS	IN	IN	180 HDG180	FLO50-090	325 325KIAS	IN	45 45DEG	IN
TARGETS	IN	IN	180 HDG180	FLO50-090	325 325KIAS	IN	45 45DEG	IN
TARGETS	IN	IN	180 HDG180	FLO50-090	325 325KIAS	IN	45 45DEG	IN
TARGETS	IN	IN	160 HDG160	FLO50-090	325 325KIAS	IN	45 45DEG	IN
TARGETS	IN	IN	350 HDG350	10500 FLO105	410 410KIAS	IN	42 42	IN
TARGETS	IN	IN	350 HDG350	9800 FLO98	370 370KIAS	IN	31 31	IN
TARGETS	IN	IN	350 HDG350	9700 FLO97	360 360KIAS	IN	47 47	IN
TARGETS	IN	IN	330 HDG330	10500 FLO105	344 344KIAS	IN	52 52	IN
TARGETS	IN	IN	280 HDG280	9100 FLO91	1.974946 12000FT	IN	54 54	IN
TARGETS	IN	IN	340 HDG340	8300 FLO83	270 270KIAS	IN	42 42	IN
TARGETS	IN	IN	350 HDG350	9500 FLO95	1.974946 12000FT	IN	45 45	IN
TARGETS	IN	IN	340 HDG340	6500 FLO65	328 328KIAS	IN	53 53	IN
TARGETS	IN	IN	270 HDG270	10500 FLO105	281 281KIAS	IN	48 48	IN
TARGETS	IN	IN	95 HDG095	10000 FLO100	345 345KIAS	IN	50 50DEG	IN
TARGETS	IN	IN	11000 FLO110	11000 FLO110	360 360KIAS	IN	55 55DEG	IN
TARGETS	IN	IN	900 FLO09	900 FLO09	360 360KIAS	IN	25 25DEG	IN
TARGETS	IN	IN	350 HDG350	2500 FLO25	340 340KIAS	IN	25 25DEG	IN
TARGETS	IN	IN	360 HDG360	3600 FLO36	354 354KIAS	IN	28 28DEG	IN
TARGETS	IN	IN	90 HDG090	3000 FLO30	360 360KIAS	IN	30 30DEG	IN
TARGETS	IN	IN	90 HDG090	2500 FLO25	360 360KIAS	IN	30 30DEG	IN
TARGETS	IN	IN	90 HDG090	3000 FLO30	350 350KIAS	IN	30 30DEG	IN
TARGETS	IN	IN	90 HDG090	3000 FLO30	364 364KIAS	IN	30 30DEG	IN
TARGETS	IN	IN	270 HDG270	3500 FLO35	345 345KIAS	IN	30 30DEG	IN
TARGETS	IN	IN	155 155T	10060 10060MSL	365 365KIAS	IN	38 38	IN
TARGETS	IN	IN	150 150T	1582 1582MSL	403 403KIAS	IN	14 14	IN





SUCCESSFUL	00-Jan-00 1054Z	IN	350 350	8000 8000FT	350 350KIAS	1.5 NM SLANT	40 40	IN	REPORTIE
SUCCESSFUL	00-Jan-00 1110Z	IN	285 285	7000 7000FT	360 360KIAS	1.6 NM SLANT	31 31	IN	REPORTIE
SUCCESSFUL	00-Jan-00 1059Z	IN	280 280	7000 7000FT	330 330KIAS	2 NM SLANT	31 31	IN	REPORTIE
RNDS	00-Jan-00 2039Z	IN	45 045T	13828 13828MSL	305 305KIAS	1.4 1.4 NM SLANT	46.13 46.13 DEG	IN	IN
SUCCESSFUL FLIGHT LEAD OBSERVED DIRECT IMPACT	00-Jan-00 2028Z	IN	105 105	10446 10446MSL	359 359KIAS	1.825 1.825 NM SLANT	50.13 50.13 DEG	IN	IN
SUCCESSFUL 30MM IMPACTED TARGET AREA	00-Jan-00 2149Z	IN	110 110	10900 10900FTMSL	420 420KTS	SLANT RANGE	DIVE	IN	IN
SUCCESSFUL 30MM IMPACTED TARGET AREA	00-Jan-00 2154Z	IN	101 101	14200 14200FTMSL	406 406KTS	SLANT RANGE	DIVE	IN	IN
SUCCESSFUL 30MM IMPACTED TARGET AREA	00-Jan-00 2143Z	IN	101 101	14200 14200FTMSL	422 422KTS	SLANT RANGE	DIVE	IN	IN
SUCCESSFUL 30MM IMPACTED TARGET AREA	00-Jan-00 2145Z	IN	100 100	12100 12100FTMSL	443 443KTS	SLANT RANGE	DIVE	IN	IN
SUCCESSFUL 30MM IMPACTED TARGET AREA	00-Jan-00 2146Z	IN	26 26	15000 15000FTMSL	293 293KTS	SLANT RANGE	DIVE	IN	IN
SUCCESSFUL 30MM IMPACTED TARGET AREA	00-Jan-00 2146Z	IN	27 27	14300 14300FTMSL	322 322KTS	SLANT RANGE	DIVE	IN	IN
SUCCESSFUL 30MM IMPACTED TARGET AREA	00-Jan-00 2182Z	IN	103 103	10100 10100FTMSL	442 442KTS	SLANT RANGE	DIVE	IN	IN
SUCCESSFUL	00-Jan-00 0923Z	IN	89 89	8500 8500FT	360 360KIAS	1.9 1.9 NM	27 27	IN	REPORTIE
SUCCESSFUL	00-Jan-00 0931Z	IN	80 80	11000 FL110	279 279KIAS	2 NM	41 41	IN	REPORTIE
SUCCESSFUL	00-Jan-00 0933Z	IN	120 120	9200 9200FT	330 330KIAS	1.6 1.6 NM	33 33	IN	REPORTIE
SUCCESSFUL	00-Jan-00 0934Z	IN	200 280	10300 FL103	330 330KIAS	2.5 2.5 NM	45 45	IN	REPORTIE
SUCCESSFUL	00-Jan-00 0928Z	IN	270 270	8400 8400FT	263 263 KIAS	1.8 1.8 NM	51 51	IN	REPORTIE
SUCCESSFUL	00-Jan-00 0926Z	IN	280 280	8800 8800FT	338 338 KIAS	1.8 1.8 NM	43 43	IN	REPORTIE
POD VIDEO CONFIRMS	00-Jan-00 0750Z	IN	90 090T	10284 10284MSL	365 365KIAS	2.0 NM	53.6 53.6 DEG	IN	IN
PILOT VERIFIES	00-Jan-00 0754Z	IN	90 090T	6740 6740MSL	374 374KIAS	1.1 1.1 NM	48 48 DEG	IN	IN
PILOT VERIFIES	00-Jan-00 0755Z	IN	90 090T	9008 9008MSL	329 329KIAS	1.9 1.9 NM	48 48 DEG	IN	IN
PILOT VERIFIES	00-Jan-00 0800Z	IN	90 090T	7536 7536MSL	369 369KIAS	1.8 1.8 NM	48 48 DEG	IN	IN
UNSUCCESSFUL, POD VIDEO CONFIRMS MISS	00-Jan-00 1959Z	IN	315 315T	5812 5812MSL	334 334KIAS	8864 8864SLANT	29.5 29.5 500DEG	IN	IN
UNSUCCESSFUL, POD VIDEO CONFIRMS MISS	00-Jan-00 1953Z	IN	315 315T	7714 7714MSL	353 353KIAS	14691 14691SLANT	26.42 26.42 DEG	IN	IN
UNSUCCESSFUL, POD VIDEO CONFIRMS MISS	00-Jan-00 1956Z	IN	315 315T	5530 5530MSL	345 345KIAS	11161 11161SLANT	22.98 22.98 DEG	IN	IN
UNSUCCESSFUL, POD VIDEO CONFIRMS MISS	00-Jan-00 1959Z	IN	315 315T	7608 7608MSL	347 347KIAS	6686 6686SLANT	30.82 30.82 DEG	IN	IN
UNSUCCESSFUL, VIDEO SHOWED FIRE IN BUILDING	00-Jan-00 1959Z	IN	315 315T	8194 8194MSL	363 363KIAS	11394 11394SLANT	37.93 37.93 DEG	IN	IN
UNSUCCESSFUL, VIDEO SHOWED SMALL SECONDARIES	00-Jan-00 1957Z	IN	180 180T	7298 7298MSL	346 346KIAS	12617 12617SLANT	29.88 29.88 DEG	IN	IN
PILOT OBSERVED	00-Jan-00 0754Z	IN	100 100T	8306 8306MSL	337 337KIAS	1.3 1.3 NM	55 55 DEG	IN	IN
PILOT OBSERVED	00-Jan-00 0754Z	IN	100 100T	7302 7302MSL	398 398KIAS	0.8 0.8 NM	55 55 DEG	IN	IN
SUCCESSFUL	00-Jan-00 0943Z	IN	90 90	8000 FLO80	340 340KIAS	SLANT	38 38 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0942Z	IN	360 360	9000 FLO80	325 325KIAS	SLANT	42 42 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0940Z	IN	270 270	8000 FLO75	338 338KIAS	SLANT	49 49 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0938Z	IN	90 90	7500 FLO75	320 320KIAS	SLANT	35 35 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0935Z	IN	360 360	7000 FLO70	325 325KIAS	SLANT	40 40 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0945Z	IN	270 270	7000 FLO70	330 330KIAS	SLANT	43 43 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0950Z	IN	90 90	7500 FLO75	325 325KIAS	SLANT	38 38 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0947Z	IN	360 360	8500 FLO85	340 340KIAS	SLANT	49 49 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0943Z	IN	360 360	9000 FLO90	325 325KIAS	SLANT	45 45 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0944Z	IN	90 90	8500 FLO85	345 345KIAS	SLANT	42 42 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0951Z	IN	90 90	7500 FLO75	325 325KIAS	SLANT	43 43 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0941Z	IN	270 270	8000 FLO80	335 335KIAS	SLANT	42 42 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0939Z	IN	90 90	8500 FLO85	330 330KIAS	SLANT	30 30 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0936Z	IN	360 360	7000 FLO70	325 325KIAS	SLANT	40 40 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0948Z	IN	360 360	8900 FLO89	340 340KIAS	SLANT	35 35 DEG	IN	RDS
SUCCESSFUL	00-Jan-00 0946Z	IN	270 270	7000 FLO70	330 330KIAS	SLANT	38 38 DEG	IN	RDS
THE TARGET	00-Jan-00 0803Z	IN	280 280 DEG	8300 8300FT	370 370KIAS	SLANT	48 48 DEG	IN	NONE
THE TARGET	00-Jan-00 0754Z	IN	205 205 DEG	10000 10000FT	350 350KIAS	9000FT SLANT	34 34 DEG	IN	NONE
THE BOTH TARGETS	00-Jan-00 0752Z	IN	50 080 DEG	13700 FL137	320 320KIAS	9000FT SLANT	44 44 DEG	IN	NONE
IMPACT THE TARGET	00-Jan-00 0810Z	IN	45 045 DEG	9900 9900FT	331 331KIAS	8000FT SLANT	45 45 DEG	IN	NONE
UNSUCCESSFUL, ROUNDS DID NOT IMPACT ON TGT	00-Jan-00 0755Z	IN	310 310 DEG	12800 FL128	340 340KIAS	SLANT	52 52 DEG	IN	NONE
UNSUCCESSFUL, ROUNDS DID NOT IMPACT ON TGT	00-Jan-00 0638Z	IMPACT	360 HDG360	13000 FL130	333.1 333.1 KIAS	SLANT	46 46 DEG	IN	NONE
ARMORED VEHICLE.	00-Jan-00 0636Z	IMPACT	180 HDG180	11400 FL114	345 345KIAS	SLANT	43 43	IN	IN
SUCCESSFUL MULTIPLE SECONDARIES OBSERVED	00-Jan-00 2340Z	IN	0	9200 9200MSL	340 340KIAS	13 000MSL	43 43	IN	IN
TANK 10 METERS AWAY FROM THE 1ST TANK	00-Jan-00 2327Z	IN	35 35	9700 9700MSL	300 300KIAS	SLANT RANGE	40 40	IN	IN
TANK AND SOME BURNING.	00-Jan-00 2333Z	IN	340 340	8000 8000MSL	320 320KIAS	RANGE	37 37	IN	IN
SUCCESSFUL SECONDARIES OBSERVED	00-Jan-00 2330Z	IN	360 360	8000 8000MSL	300 300KIAS	RANGE	40 40	IN	IN
SUCCESSFUL TGT DESTROYED	00-Jan-00 0432Z	IN	50 HDG050	4000 4000FT	292 292KIAS	RANGE	35 35	IN	IN
SUCCESSFUL	00-Jan-00 1308Z	IN	180 180	8000 FLO80	370 370KIAS	11.0 NM	45 45 DEG	IN	IN
UNKNOWN BDA DUE TO DARKNESS	00-Jan-00 2000Z	IN	240 240	7300 7300FT AGL	342 342KIAS	10000FT	50 50 DEG	IN	IN
UNKNOWN BDA DUE TO DARKNESS	00-Jan-00 2004Z	IN	230 230	6460 6460FT AGL	350 350KIAS	10400FT	20 20	IN	IN
SUCCESSFUL ROUNDS HIT TARGET	00-Jan-00 1117Z	IN	355 HDG 355	13000 13000	340 340KIAS	13000 13000	35 35	IN	IN
SUCCESSFUL ROUNDS HIT TARGET	00-Jan-00 1115Z	IN	200 HDG 200	10500 10500	365 365KIAS	13000 13000	51 51 DEG	IN	IN
SUCCESSFUL ROUNDS HIT TARGET	00-Jan-00 1116Z	IN	180 HDG 180	12000 12000	300 300KIAS	15000 15000	45 45 DEG	IN	IN
SUCCESSFUL ROUNDS HIT TARGET	00-Jan-00 1127Z	IN	325 HDG 325	14000 14000	325 325KIAS	16000 16000	50 50 DEG	IN	IN
SUCCESSFUL	00-Jan-00 0450Z	IN	180 180 DEG	4000 4000FT	325 325	3000FT SLANT	15 15 DEG	IN	IN
SUCCESSFUL	00-Jan-00 0453Z	IN	180 180 DEG	4000 4000FT	325 325	3000FT SLANT	15 15 DEG	IN	IN
TARGET ASSESSED 5 VEHICLES DESTROYED	00-Jan-00 0133Z	IMPACT	270 HDG270	9000 FLO90	350 350KIAS	8000FT SLANT	30 30 DEG	IN	IN
TARGET ASSESSED 3 VEHICLES SEVERELY DAMAGED	00-Jan-00 0138Z	IMPACT	270 HDG270	10000 FL100	350 350KIAS	8000FT SLANT	30 30 DEG	IN	IN
PILOT VERIFIES	00-Jan-00 0806Z	IN	270 270T	5908 5908MSL	411 411KIAS	1.482 1.482 NM	35 35 DEG	IN	IN
PILOT VERIFIES	00-Jan-00 0807Z	IN	270 270T	6530 6530MSL	321 321KIAS	1.922 1.922 NM	33 33 DEG	IN	IN
PILOT VERIFIES	00-Jan-00 0808Z	IN	315 315T	7396 7396MSL	337 337KIAS	0.161 0.161 NM	42 42 DEG	IN	IN

PILOT VERIFIES	00-Jan-00 0810Z	IN	2701270T	6990 6990MSL	324 324KIAS	1.3839434 8409FT	48 48DEG	IN
TARGET, 1XTANK DESTROYED, SECONDARIES	00-Jan-00 1510Z	IN	80 HDG090	4200 FL042	350 350KIAS	7000 RANGE	37 37	IN
1XTANK DESTROYED, SECONDARIES PRESENT	00-Jan-00 1438Z	IN	300 HDG300	5600 FL066	353 353KIAS	11000 RANGE	36 36	IN
TARGET, 1XTANK DESTROYED, SECONDARIES	00-Jan-00 1501Z	IN	260 HDG260	5300 FL053	385 385KIAS	7500 RANGE	29 29	IN
TARGET, 1XTANK DESTROYED, SECONDARIES	00-Jan-00 1454Z	IN	300 HDG300	4500 FL045	337 337KIAS	7000 RANGE	45 45	IN
TARGET, 1XTANK DESTROYED, SECONDARIES	00-Jan-00 1505Z	IN	300 HDG300	5000 FL055	365 365KIAS	11000 RANGE	28 28	IN
SUCCESSFUL, TANK DESTROYED, BILLOWING SMOKE.	00-Jan-00 1456Z	IN	340 HDG340	3100 FL031	373 373KIAS	5700 RANGE	31 31	IN
SUCCESSFUL, TANK DAMAGED, ROUNDS ON TARGET.	00-Jan-00 1453Z	IN	340 HDG340	3900 FL029	368 368KIAS	4300 RANGE	34 34	IN
SUCCESSFUL, TANK DAMAGED, ROUNDS ON TARGET.	00-Jan-00 1442Z	IN	255 HDG255	3800 FL036	379 379KIAS	8700 RANGE	26 26	IN
SUCCESSFUL, TANK DESTROYED, STARTED ON FIRE	00-Jan-00 1439Z	IN	265 HDG265	3900 FL039	371 371KIAS	9600 RANGE	34 34	IN
ROUNDS HITTING TARGET, MKILL	00-Jan-00 2109Z	IN	28 HDG028	9900 9500MSL	300 300KIAS	2.0 RANGE	30 30	IN
TARGET	00-Jan-00 2105Z	IN	180 HDG180	9500 9500MSL	375 375KIAS	RANGE	30 30	IN
UNKNOWN, NO IMPACTS NOTED.	00-Jan-00 2109Z	IN	180 HDG180	8000 8000MSL	310 310KIAS	3 RANGE	30 30	IN
ON TARGET, MKILL	00-Jan-00 2107Z	IN	190 HDG190	8000 8000MSL	310 310KIAS	3 RANGE	20 20	IN
SUCCESSFUL, ROUNDS HIT TARGET	00-Jan-00 1234Z	IN	315 315DEG	7000 7000FT	380 380KIAS	8000 NM	48 48DEG	IN
SUCCESSFUL, ROUNDS HIT TARGET.	00-Jan-00 1240Z	IN	315 315DEG	7000 7000FT	380 380KIAS	8000 NM	48 48DEG	IN
UNSUCCESSFUL, ROUNDS MISSED DUE TO WINDSHEER.	00-Jan-00 1155Z	IN	170 170DEG	7000 7000FT	350 350KIAS	7000	30 30DEG	IN
UNSUCCESSFUL, BOMBS MISSED DUE TO WINDSHEER.	00-Jan-00 1150Z	IN	180 180DEG	8000 8000FT	350 350KIAS	1.3 NM	45 45DEG	IN
WINDSHEER, BOMBS MISSED DUE TO WINDSHEER.	00-Jan-00 1162Z	IN	180 180DEG	8000 8000FT	350 350KIAS	1.2 NM	30 30DEG	IN
WINDSHEER.	00-Jan-00 1153Z	IN	160 160DEG	9000 9000FT	350 350KIAS	1.5 NM	30 30DEG	IN
WINDSHEER.	00-Jan-00 1154Z	IN	160 160DEG	9000 9000FT	325 325KIAS	1.5 NM	35 35DEG	IN
ASSESSSES MKILL.	00-Jan-00 2240Z	IN	330 HDG330	9500 FLO95	325 325KIAS	2.5MILES	18 18	IN
ASSESSSES MKILL.	00-Jan-00 2235Z	IN	330 HDG330	9500 FLO95	325 325KIAS	2.5MILES	15 15	IN
SUCCESSFUL, TGT DESTROYED	00-Jan-00 0145Z	IN	IN	7000 7000	292 292KIAS	1000 1000	30 30 DEG	IN
SUCCESSFUL	00-Jan-00 0134Z	IN	134 134T	6000 6000FT	280 280KIAS	1.3 1.3NM SLANT	35 35DEG	IN
SUCCESSFUL	00-Jan-00 0131Z	IN	60 060T	7500 7500FT	290 290KIAS	1.8 1.8NM SLANT	32 32DEG	IN
SUCCESSFUL	00-Jan-00 0132Z	IN	50 050T	8000 8000FT	290 290KIAS	1.9 1.9NM SLANT	38 38DEG	IN
SUCCESSFUL	00-Jan-00 0136Z	IN	138 138T	7000 7000FT	275 275KIAS	1.5 1.5NM SLANT	40 40DEG	IN
SUCCESSFUL	00-Jan-00 0129Z	IN	40 040T	9500 9500FT	250 250KIAS	1.6 1.6NM SLANT	35 35DEG	IN
SUCCESSFUL	00-Jan-00 0128Z	IN	50 050T	8000 8000FT	275 275KIAS	1.5 1.5NM SLANT	31 31DEG	IN
SUCCESSFUL	00-Jan-00 0126Z	IN	80 080T	9500 9500FT	250 250KIAS	1.6 1.6NM SLANT	30 30DEG	IN
SUCCESSFUL	00-Jan-00 0125Z	IN	90 090T	6200 6200FT	285 285KIAS	SLANT	30 30DEG	IN
SUCCESSFUL	00-Jan-00 0130Z	IN	360 360T	6000 6000FT	300 300KIAS	1.5 1.5NM SLANT	30 30DEG	IN
SUCCESSFUL	00-Jan-00 0129Z	IN	340 340T	6300 6300FT	306 306KIAS	1.4 1.4NM SLANT	28 28DEG	IN
SUCCESSFUL	00-Jan-00 0127Z	IN	271 271T	6700 6700FT	300 300KIAS	2 NM SLANT	20 20DEG	IN
SUCCESSFUL	00-Jan-00 0126Z	IN	320 320T	7100 7100FT	328 328KIAS	SLANT	20 20DEG	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0235Z	IN	345 345T	3817 3817 MSL	349 349 KIAS	RANGE	29 29 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0237Z	IN	340 340T	5059 5059 MSL	339 339 KIAS	RANGE	43 43 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0190Z	IN	335 335T	5271 5271 MSL	322 322 KIAS	RANGE	33 33 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0222Z	IN	270 270 T	3793 3793 MSL	347 347 KIAS	RANGE	43 43 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0219Z	IN	350 350T	4900 4900 MSL	328 328 KIAS	RANGE	37 37 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0227Z	IN	350 350T	4696 4696 MSL	328 328 KIAS	RANGE	43 43 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0224Z	IN	340 340T	5539 5539 MSL	291 291 KIAS	RANGE	36 36 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0228Z	IN	310 310T	3793 3793 MSL	394 394 KIAS	RANGE	40 40 DEGREES	IN
SUCCESSFUL-ROUNDS ON TARGET	00-Jan-00 0223Z	IN	320 320T	7500 7500 MSL	300 300 KIAS	SLANT RANGE	41 41 DEGREES	IN
SUCCESSFUL-ROUNDS ON TARGET	00-Jan-00 0243Z	IN	320 320T	6500 6500 MSL	300 300 KIAS	SLANT RANGE	42 42 DEGREES	IN
SUCCESSFUL-ROUNDS ON TARGET	00-Jan-00 0243Z	IN	360 360T	7400 7400 MSL	307 307 KIAS	RANGE	48 48 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0238Z	IN	20 020T	7600 7600 MSL	333 333 KIAS	RANGE	48 48 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0236Z	IN	330 330T	8600 8600 MSL	362 362 KIAS	SLANT RANGE	49 49 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0228Z	IN	330 330T	7200 7200 MSL	300 300 KIAS	RANGE	46 46 DEGREES	IN
SUCCESSFUL-OBSERVED SECONDARIES	00-Jan-00 0226Z	IN	140 HDG140	10000 FL100	300 300 KIAS	SLANT RANGE	42 42 DEGREES	IN
350 ROUNDS OF 30MM ON 4 TOTAL REVETMENTS	00-Jan-00 0928Z	IMPACT	160 HDG160	7000 FL070	350 350KIAS	SLANT RANGE	60 60DEG	IN
570 ROUNDS OF 30MM ON 7 TOTAL REVETMENTS	00-Jan-00 0931Z	IMPACT	70 HDG070	8500 FLO83	365 365KIAS	SLANT RANGE	49 49DEG	IN
260 ROUNDS OF 30MM ON 3 TOTAL REVETMENTS	00-Jan-00 0930Z	IMPACT	180 HDG180	9400 FLO94	350 350KIAS	SLANT RANGE	56 56DEG	IN
SUCCESSFUL 30MM IMPACTED AIRCRAFT	00-Jan-00 2110Z	IN	270 270	10800 10800FTMSL	340 340KTS	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED AIRCRAFT	00-Jan-00 2147Z	IN	270 270	7900 7900FTMSL	455 455KTS	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED AIRCRAFT	00-Jan-00 2114Z	IN	270 270	7900 7900FTMSL	474 474KTS	SLANT RANGE	DIVE	IN
UNSUCCESSFUL 30MM MISSED AIRCRAFT	00-Jan-00 2108Z	IN	270 270	11200 11200FTMSL	420 420KTS	SLANT RANGE	DIVE	IN
SUCCESSFUL 30MM IMPACTED VEHICLES	00-Jan-00 1443Z	IN	92 092T	9700 FLO97	435 435KTS	RANGE	DIVE	IN
RETTED TELS	00-Jan-00 1447Z	IN	270 270T	9500 FLO95	334 334KIAS	SLANT RANGE	46 46 DEGREES	IN
VEHICLE	00-Jan-00 1435Z	IN	95 095T	6800 FLO88	409 409KIAS	SLANT RANGE	45 45 DEGREES	IN
VEHICLE	00-Jan-00 1432Z	IN	90 090T	8100 FLO81	442 442KIAS	SLANT RANGE	41 41 DEGREES	IN
RETTED TELS	00-Jan-00 1450Z	IN	90 090T	10000 FL100	300 300KIAS	SLANT RANGE	47 47 DEGREES	IN
AMMO STORAGE AREA	00-Jan-00 1502Z	IN	270 270T	10000 FL100	400 400KIAS	SLANT RANGE	45 45 DEGREES	IN
RETTED VEHICLES	00-Jan-00 0053Z	IN	120 HDG120	6000 6000 FT	360 360	SLANT RANGE	45 45 DEGREES	IN
SUCCESSFUL DUE TO SECONDARIES	00-Jan-00 0052Z	IN	90 HDG090	13000 13000 FT	325 325	SLANT RANGE	32 32	IN
UNSUCCESSFUL MISSED TGT	00-Jan-00 0029Z	IN	70 HDG070	6000 6000 FT	365 365	SLANT RANGE	28 28	IN
SUCCESSFUL	00-Jan-00 0031Z	IN	45 HDG045	8000 8000 FT	297 297	SLANT RANGE	37 37	IN
UNSUCCESSFUL	00-Jan-00 0045Z	IN	90 HDG090	8000 8000FT	360 360	SLANT RANGE	38 38	IN
UNKNOWN	00-Jan-00 0044Z	IN	50 HDG050	8500 8500FT	350 350	SLANT RANGE	40 40	IN
UNKNOWN	00-Jan-00 0030Z	IN	110 HDG110	8500 8500 FT	350 350	SLANT RANGE	40 40	IN
SUCCESSFUL	00-Jan-00 0746Z	IN	60 060T	11814 11814 MSL	270 270 KIAS	SLANT	35 35 DEG	ON

00-Jan-00 0743Z	IN	IN	IN	360 360T	8872 8872 MSL	353 353 KIAS	SLANT	46 46 DEG	ON
00-Jan-00 0740Z	IN	IN	IN	270 270T	8716 8716 MSL	328 328 KIAS	SLANT	43 43 DEG	ON
00-Jan-00 0735Z	IN	IN	IN	300 300	8739 8739 MSL	357 357 KIAS	SLANT	49 49 DEG	ON
00-Jan-00 0747Z	IN	IN	IN	80 080T	8154 8154 MSL	80 080 KIAS	SLANT	31 31 DEG	ON
00-Jan-00 0738Z	IN	IN	IN	270 270	8081 8081 MSL	320 320 KIAS	SLANT	44 44 DEG	ON
00-Jan-00 0741Z	IN	IN	IN	170 170T	9793 9793 MSL	317 317 KIAS	SLANT	45 45 DEG	ON
00-Jan-00 0736Z	IN	IN	IN	360 360T	8426 8426 MSL	315 315 KIAS	SLANT	42 42 DEG	ON
00-Jan-00 2108Z	IN	IN	IN	90 080T	10000 10000MSL	300 300KIAS	10000 10000SLANT	IN	IN
00-Jan-00 0946Z	IN	IN	IN	200 200	FL150-130	410 410KIAS	SLANT RANGE	45 45 DEGREES	OBSEVE
00-Jan-00 0946Z	IN	IN	IN	180 180	FL180-130	410 410	SLANT RANGE	45 45 DEGREES	IN
00-Jan-00 0946Z	IN	IN	IN	240 240	FL150-1000FT	375 375KIAS	SLANT RANGE	45 45 DEGREES	IN
00-Jan-00 0440Z	IN	IN	IN	240 240	15000-1000FT	375 375KIAS	SLANT RANGE	45 45 DEGREES	IN
00-Jan-00 0443Z	IN	IN	IN	90 90	10 010FT	325 325	SLANT RANGE	45 45 DEGREES	IN
00-Jan-00 1044Z	IN	IN	IN	270 270DEG	10 010FT	330 330	14000FT	30 30DEG	IN
00-Jan-00 1044Z	IN	IN	IN	310 310DEG	11000 FL110	375 375KIAS	14000	50 50DEG	IN
00-Jan-00 1423Z	IN	IN	IN	220 220	13600 FL136	375 375KIAS	15000	55 55DEG	IN
00-Jan-00 1429 30Z	IN	IN	IN	195 195	9 000FT	314 314KIAS	RANGE	38 38 DEGREES	IN
00-Jan-00 0947Z	IN	IN	IN	120 120DEG	8000 FL080	370 370KIAS	RANGE	40 40 DEGREES	IN
00-Jan-00 0949Z	IN	IN	IN	120 120DEG	7000 FL070	340 340KIAS	9500	59 59DEG	IN
00-Jan-00 0946Z	IN	IN	IN	90 090DEG	8000 FL080	360 360KIAS	9000	50 50DEG	IN
00-Jan-00 0948Z	IN	IN	IN	80 080DEG	7000 FL070	365 365KIAS	9000	55 55DEG	IN
00-Jan-00 0723Z	IN	IN	IN	60 060T	10000 10000FT	380 380KIAS	6500FT SLANT	48 48 DEG	REPORTE
00-Jan-00 0725Z	IN	IN	IN	60 060T	5616 5616FT	379 379KIAS	8731FT SLANT	31 31 DEG	REPORTE
00-Jan-00 0727Z	IN	IN	IN	70 070T	9126 9126FT	301 301KIAS	SLANT	47 47 DEG	IN
00-Jan-00 2142Z	IN	IN	IN	125 125T	10000 10000MSL	350 350KIAS	9000 9000SLANT	60 60DEG	IN
00-Jan-00 2145Z	IN	IN	IN	135 135T	9000 9000MSL	375 375KIAS	11000 11000SLANT	45 45DEG	IN
00-Jan-00 2155Z	IN	IN	IN	180 180T	10904 10904MSL	325 325KIAS	15736 15736SLANT	41 56 41 56DEG	IN
00-Jan-00 0068Z	IN	IN	IN	150 150T	8718 8718MSL	338 338	9000 9000	55 87 55 87DEG	IN
00-Jan-00 0068Z	IN	IN	IN	225 225	6850 6850MSL	359 359KIAS	10321 10321SLANT	36 49 36 49DEG	IN
00-Jan-00 0069Z	IN	IN	IN	225 225	7294 7294MSL	359 359KIAS	11596 11596SLANT	35 47 35 47DEG	IN
00-Jan-00 0011Z	IN	IN	IN	30 99 30 99DEG	7822 7822MSL	335 335KIAS	13303 13303SLANT	30 99 30 99DEG	IN
00-Jan-00 1005Z	IN	IN	IN	270 270T	9194 9194MSL	396 396KIAS	15457 15457SLANT	31 71 31 71DEG	IN
00-Jan-00 0954Z	IN	IN	IN	110 110T	12500 12500FT MSL	299 299KIAS	RANGE	DIVE	IN
00-Jan-00 1001Z	IN	IN	IN	330 330T	14300 14300 FT MSL	280 280KIAS	RANGE	DIVE	IN
00-Jan-00 1016Z	IN	IN	IN	25 025T	12900 12900FT MSL	297 297KIAS	RANGE	DIVE	IN
00-Jan-00 1012Z	IN	IN	IN	205 205T	7K FT MSL	285 285KIAS	RANGE	DIVE	IN
00-Jan-00 0959Z	IN	IN	IN	230 230T	10K FT MSL	365 365KIAS	2.5 RANGE	DIVE	IN
00-Jan-00 0812Z	IN	IN	IN	10 10	4580 4580MSL	347 347KIAS	1.122283 68 19FT	38 38DEG	IN
00-Jan-00 1205Z	IN	IMPACT	IN	145 145	3258 3258MSL	425 425KIAS	0.7009413 4258FT	43 42DEG	IN
00-Jan-00 1203Z	IMPACT	IMPACT	IN	170 170	5200 FL052	358KIAS	9.300FT	30 30DEG	IN
00-Jan-00 0517Z	IN	IN	IN	30 HDG030	6400 FL064	390KIAS	10 600FT	37 37DEG	IN
00-Jan-00 0521Z	IN	IN	IN	210 HDG210	9000 FL090	303 303KIAS	IN	49 45DEG	IN
00-Jan-00 0558Z	IN	IN	IN	250 250	6266 6266MSL	310 310KIAS	IN	37 37DEG	IN
00-Jan-00 0558Z	IN	IN	IN	260 260	7000 7000MSL	400 400KIAS	1.5261395 9273FT	42 42DEG	OBSEVE
00-Jan-00 1416Z	IN	IN	IN	160 160	9 903FT	358 358KIAS	1.3166307 8000FT	43 43DEG	D.BY
00-Jan-00 0616Z	IN	IN	IN	210 210T	9000 FL090	355 355KIAS	1.3989201 8500FT	32 32 DEGREES	IN
00-Jan-00 1232Z	IN	IN	IN	190 190T	11900 11900FT MSL	268 268KIAS	RANGE	43 43DEG	IN
00-Jan-00 1229Z	IN	IN	IN	100 100T	11600 11600FT MSL	292 292KIAS	RANGE	DIVE	IN
00-Jan-00 1222Z	IN	IN	IN	145 145T	12K FT MSL	270 270KIAS	2.1 RANGE	DIVE	IN
00-Jan-00 1220Z	IN	IN	IN	330 330T	10K FT MSL	281 281KIAS	2.1 RANGE	DIVE	IN
00-Jan-00 1125Z	INP	INP	INP	348 348	9000 FL090	330 330KIAS	2.1 RANGE	DIVE	IN
00-Jan-00 1114Z	INP	INP	INP	360 360	10000 FL100	360 360KIAS	11 000FT	60 60DEG	IN
00-Jan-00 0610Z	INP	INP	INP	180 180	5700 FL057	370 370KIAS	8 800FT	40 40DEG	IN
00-Jan-00 0624Z	IN	IN	IN	360 360	10200 10200FTMSL	350 350KIAS	12 000FT	40 60DEG	IN
00-Jan-00 0616Z	IN	IN	IN	10 10	8500 8500FTMSL	448 448KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0647Z	IN	IN	IN	180 180	9900 9900FTMSL	416 416KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0608Z	IN	IN	IN	360 360	8500 8500FTMSL	434 434KTS	RANGE	DIVE	IN
00-Jan-00 0611Z	IN	IN	IN	180 180	10200 10200FTMSL	348 348KTS	RANGE	DIVE	IN
00-Jan-00 0614Z	IN	IN	IN	50 90	8100 8100FTMSL	410 410KTS	RANGE	DIVE	IN
00-Jan-00 0620Z	IN	IN	IN	105 105	10000 10000FTMSL	428 428KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0628Z	IN	IN	IN	270 270	9600 9600FTMSL	421 421KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0631Z	IN	IN	IN	210 210	9800 9800FTMSL	409 409KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0646Z	IN	IN	IN	240 240	8400 8400FTMSL	464 464KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0646Z	IN	IN	IN	170 170	8200 8200FTMSL	418 418KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0002Z	IN	IN	IN	270 270	11600 11600FTMSL	387 387KTS	SLANT RANGE	DIVE	IN
00-Jan-00 0000Z	IN	IN	IN	90 90	7000 7000FTMSL	330 330KIAS	SLANT RANGE	DIVE	IN
00-Jan-00 0945 30Z	IN	IN	IN	160 160	15 000FT	330 330KIAS	SLANT RANGE	45 45 DEGREES	IN
00-Jan-00 2251Z	IN	IN	IN	270 270T	9660 9660MSL	359 359KIAS	13981 TAL	45 45 DEGREES	IN
00-Jan-00 2254Z	IN	IN	IN	300 300T	7264 7264MSL	345 345KIAS	10591 TAL	40 52 40 52DEG	IN



UNSUCCESSFUL, VIDEO CONFIRMED MISS IMPACTS	FMU-113	T	280 290T	7638 7638MSL	378 378IAS	10241 10241SLANT	45.4145 40DEG	IN
SUCCESSFUL	00-Jan-00 2252Z	IN	290 290T	4800 4800FT	360 360KIAS	1.2 1.2NM SLANT	35 35 DEG	IN
SUCCESSFUL	00-Jan-00 0437Z	IN	290 290T	4900 4900FT	320 320KIAS	1.1NM SLANT	31 31 DEG	IN
SUCCESSFUL	00-Jan-00 0251Z	IN	135 135T	5500 5500FT	320 320KIAS	1.4 1.4NM SLANT	37 37 DEG	IN
SUCCESSFUL	00-Jan-00 0240Z	IN	240 240T	5000 5000FT	294 294KIAS	1.6 1.6NM SLANT	31 31 DEG	IN
SUCCESSFUL	00-Jan-00 0242Z	IN	245 245T	5000 5000FT	294 294KIAS	1.6 1.6NM SLANT	31 31 DEG	IN
SUCCESSFUL	00-Jan-00 0237Z	IN	140 140 T	7000 7000FT	350 350KIAS	1.4 1.4NM SLANT	48 48 DEG	IN
SUCCESSFUL	00-Jan-00 0444Z	IN	340 340T	8000 8000FT	340 340KIAS	1.2 1.2NM SLANT	34 34 DEG	IN
UNSUCCESSFUL	00-Jan-00 0441Z	IN	340 340T	8000 8000FT	340 340KIAS	1.2 1.2NM SLANT	20 20 DEG	IN
THE TARGET.	00-Jan-00 0534Z	IN	95 HDG095	12200 FL122	340 340KIAS	SLANT RANGE	39 39DEG	IN
THE TARGET.	00-Jan-00 0736Z	IN	160 HDG160	11000 FL110	400 400KIAS	SLANT RANGE	39 39DEG	IN
THE TARGET.	00-Jan-00 0736Z	IN	350 HDG350	9000 FL090	369 369KIAS	SLANT RANGE	33 33DEG	IN
TRUCK.	00-Jan-00 1134Z	IN	160 HDG160	11000 FL110	369 369KIAS	SLANT RANGE	40 40DEG	IN
ARTY PITS	00-Jan-00 1137Z	IN	200 HDG200	10000 FL100	350 350KIAS	1.9 1.9NM	40 40DEG	IN
WITH GUN.	00-Jan-00 2036Z	IN	270 HDG270	8000 FL080	345 345KIAS	2.2NM	39 39DEG	IN
UNSUCCESSFUL ROUNDS WENT LONG ON TARGET.	00-Jan-00 2033Z	IN	340 HDG340	6000 6000MSL	360 360KIAS	SLANT	28 28	IN
UNSUCCESSFUL ROUNDS WENT LONG ON TARGET.	00-Jan-00 2042Z	IN	360 HDG360	7100 7100MSL	360 360KIAS	SLANT	33 33	IN
WINGMAN WITHIN REVETMENT	00-Jan-00 2066Z	IN	HDG10	5000 5000MSL	384 384KIAS	SLANT	28 28	IN
HITTING REVETMENT	00-Jan-00 2044Z	IN	290 HDG290	8000 8000MSL	300 300	SLANT	36 36	IN
CONFIRMED HIT WITHIN REVETMENT	00-Jan-00 2042Z	IN	HDG10	8100 8100MSL	375 375	SLANT	46 46	IN
REVIETMENT	00-Jan-00 2040Z	IN	HDG10	9500 9500MSL	300 300KIAS	SLANT	32 32	IN
CONFIRMED HIT	00-Jan-00 2038Z	IN	HDG10	9500 9500MSL	300 300KIAS	SLANT	56 56	IN
SUCCESSFUL BULLETS HIT CARGO VEHICLE	00-Jan-00 0911.30Z	IN	170 170	11,000FT	320 320KIAS	SLANT	54 54	IN
SUCCESSFUL, PILOT OBSERVED IMPACT ON THE HAS	00-Jan-00 1450Z	IN	200 200	9,500FT	350 350KIAS	SLANT RANGE	52 52	IN
STORAGE FACILITY	00-Jan-00 1438Z	IN	270 270	9,000FT	350 350KIAS	SLANT RANGE	42 42	IN
STORAGE FACILITY	00-Jan-00 1439Z	IN	270 270	9,000FT	350 350KIAS	SLANT RANGE	30 30 DEGREES	IN
SUCCESSFUL	00-Jan-00 1451Z	IN	200 200	9,500FT	350 350KIAS	SLANT RANGE	33 33 DEGREES	IN
SUCCESSFUL	00-Jan-00 1034Z	IN	160 160T	9679K FT AGL	347 347KIAS	SLANT RANGE	35 35 DEGREES	IN
SUCCESSFUL	00-Jan-00 1032Z	IN	30 030T	AGL	309 309KIAS	SLANT RANGE	33 33 DEGREES	IN
SUCCESSFUL	00-Jan-00 1029Z	IN	135 135T	6940K FT AGL	316 316KIAS	SLANT RANGE	43 43DEG	IN
AIRCRAFT	00-Jan-00 1322Z	IN	240 240	10,900FT	280 280KIAS	SLANT RANGE	41 41DEG	IN
AIRCRAFT	00-Jan-00 1322.30Z	IN	271 271T	6,700FT	384 384KIAS	SLANT RANGE	41 41DEG	IN
AIRCRAFT	00-Jan-00 1322Z	IN	240 240	8,900FT	363 363KIAS	RANGE	44 44 DEGREES	IN
AMMO STORAGE	00-Jan-00 0131Z	IN	160 HDG160	5500 FL055	335 335KIAS	SLANT RANGE	45 45 DEGREES	IN
AMMO STORAGE	00-Jan-00 0129Z	IN	340 HDG340	6000 FL060	325 325KIAS	SLANT RANGE	35 35DEG	IN
AMMO STORAGE	00-Jan-00 0127Z	IN	180 HDG180	42000 FL120	340 340KIAS	12000 12000 SLANT	20 20DEG	IN
AMMO STORAGE	00-Jan-00 0129Z	IN	180 HDG180	5700 FL057	296 296KIAS	13000 13000 SLANT	25 25DEG	IN
AMMO STORAGE	00-Jan-00 0127Z	IN	200 HDG200	4300 FL043	296 296KIAS	8000 8000 SLANT	28 28DEG	IN
SUCCESSFUL IMPACT OBSERVED	00-Jan-00 0344Z	IN	358 358	6500 6500 FT	375 375	7000FT SLANT	28 28DEG	IN
SUCCESSFUL IMPACT OBSERVED	00-Jan-00 0341Z	IN	360 360	6700 6700 FT	356 356	8400 FT SLANT	45 45	IN
IN	00-Jan-00 0352Z	IN	353 353	7600 7600 FT	385 385	SLANT	47 47	IN
SUCCESSFUL IMPACT OBSERVED, NO SECONDARY	00-Jan-00 0343Z	IN	20 20	6500 6500 FT	378 378	9500 FT SLANT	48 48	IN
VEHICLES.	00-Jan-00 0355Z	IN	329 329	6700 6700 FT	270 270	SLANT	40 40	IN
SUCCESSFUL APC DESTROYED	00-Jan-00 0342Z	IN	333 333	10150 10150 FT	275 275	SLANT	40 40	IN
REVETED AIRCRAFT, AIRCRAFT DAMMAGED	00-Jan-00 0955Z	IN	300 300	10,500FT	325 325KIAS	SLANT RANGE	35 35	IN
REVETED AIRCRAFT, AIRCRAFT DAMMAGED	00-Jan-00 0952Z	IN	340 340	10,500FT	325 325KIAS	SLANT RANGE	30 30 DEGREES	IN
SUCCESSFUL ROUNDS IMPACTED TARGET	00-Jan-00 0002Z	IN	360 360	10,500FT	325 325KIAS	SLANT RANGE	30 30 DEGREES	IN
SUCCESSFUL ROUNDS IMPACTED TARGET	00-Jan-00 0011Z	IN	180 HDG180	5000 FL050	325 325KIAS	SLANT RANGE	30 30DEG	IN
THE ROUNDS IMPACTED SHORT OF THE TARGET.	00-Jan-00 0632.45Z	IN	328 328	5000 FL050	330 330	SLANT RANGE	30 30DEG	IN
THE ROUNDS IMPACTED LONG OF THE TARGET.	00-Jan-00 0632Z	IN	328 328	6,000FT	325 325	RANGE	45 45DEGREES	IN



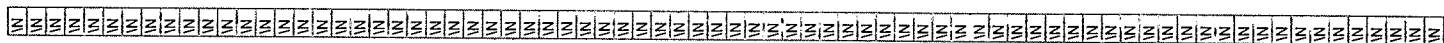


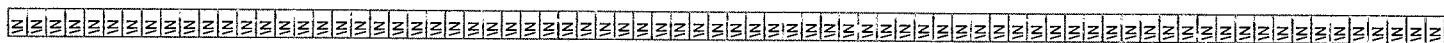
































From: JOC AIR

Sent: Friday, August 13, 2004 9:57 AM

To: (b)(6), JCS J3'

Cc: (b)(6) (USAF)

Subject: RE: Action Folder: 04-05241 - /O/ COORDINATION ON RESPONSE TO  
SEN ATOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN  
IRAQ AND AFGHANISTAN

(b)(6)

I just talked to (b)(6) (USAF) Dep. Chief Current Ops. USCENTCOM, he has reviewed this and is in full concurrence. He has asked that you upload my E-mail as official concurrence and requested that you have this tasker closed out ASAP.

(b)(6) had also reviewed tasker 20040803-011 and concurred with that letter VIA E-mail directly to you. Could you please insure that that tasker is closed too. Thanks for your help.

Semper Fi

(b)(6)

CCJ-3 OPS CENTCOM

JOC AIR x (b)(6)

Time Sensitive Targeting

DSN (b)(6)

IP 2064

Tab  
B.

-----Original Message-----

From: (b)(6), JCS J3

(b)(6)

Sent: Thursday, August 12, 2004 1:58 PM

To: 'JOC AIR'

Cc: J-3 DDRO JOD CENTCOM

Subject: RE: Action Folder: 04-05241 - /O/ COORDINATION ON RESPONSE TO  
SEN ATOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN  
IRAQ AND AFGHANISTAN

CLASSIFICATION: UNCLASSIFIED

(b)(6) An e-mail from you with your 06 name and approval/"chop" will do the trick. If your boss has anything he would like me to change or provide clarity to just add it to the e-mail an I will work it.

Thanks

(b)(6)

-----Original Message-----

From: JOC AIR (b)(6)

Sent: Thursday, August 12, 2004 2:34 AM

To: (b)(6) P), JCS J3'

Cc: (b)(6) (USAF)

Subject: RE: Action Folder: 04-05241 - /O/ COORDINATION ON RESPONSE TO  
SEN ATOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN  
IRAQ AND AFGHANISTAN

(b)(6)

(b)(6)

I've just taken a look at your action concerning a CJCS letter responding to SENATOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND AFGHANISTAN (your tracking number 04-05241) CENTCOM tasker 20040804-038. It looks substantively correct. What level approval/chop do you expect from CENTCOM, and in what format? We have RFIs from JOC Navy and CTAF and both concur with the letter. If you need a higher authority than AO level, please let me know and I'll get it for you. Also, if you need something other than an email concurrence, please let me know. Of course, the more formal and higher level approval, the longer the lead time for gaining that approval. Please respond so that I can have this tasker closed out.

Semper Fi

(b)(6)

CCJ-3 OPS CENTCOM

JOC AIR x (b)(6)

Time Sensitive Targeting

DSN (b)(6)

IP 2064

-----Original Message-----

From: (b)(6), JCS J3

(b)(6)

Sent: Wednesday, August 04, 2004 11:50 PM

To: (b)(6) OCJCS/LA; (b)(6) JCS SJS;

(b)(6)

(b)(6) JCS J4; (b)(6), CIV, J4; CENTCOM JS

COORD; CENTCOM JS COORD

Cc: J-3 DDRO JOD CENTCOM

Subject: Action Folder: 04-05241 - /O/ COORDINATION ON RESPONSE TO SENATOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND AFGHANISTAN

CLASSIFICATION: UNCLASSIFIED

Subject: /O/ COORDINATION ON RESPONSE TO SENATOR KYL REGARDING USE OF DEPLETED URANIUM IN BOMBS AND MISSILES IN IRAQ AND AFGHANISTAN

Coordination Suspense Date: 071700AUG2004

Action Officer: (b)(6)

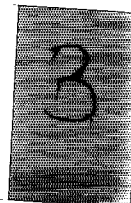
Attached File List

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136 transmittal memorandum.doc (Transmittal Memorandum)  
JS FORM 136 TRANSMITTAL MEMORANDUM.doc (Form 136)  
Depleted Uranium Memo#1.doc (Tab)  
tasker\_04-05241.pdf (Endnote 1)

(b)(6)

<<136 transmittal memorandum.doc>> <<JS FORM 136 TRANSMITTAL  
MEMORANDUM.doc>> <<Depleted Uranium Memo#1.doc>> <<tasker\_04-05241.pdf>>

USCENTAF



# DEPLETED URANIUM

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ACCOUNTING FOR DEPLETED URANIUM  
MUNITIONS AND EQUIPMENT DESTROYED  
BY DEPLETED URANIUM MUNITIONS



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## EXECUTIVE SUMMERY

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This report contains accountability for Depleted Uranium (DU) used during Operation Iraqi Freedom (OIF) from the time of 15 March to 15 April. The A-10 Thunderbolt II and the Marine AV-8B Harrier are the only Air Component assets to employ DU. The Marine AV-8B Harrier DU weapons employment is accounted for by the 3<sup>rd</sup> MAW G3 staff from Miramar in a separate report.

There are currently 1,245,974 rounds of combat mix 30 MM ammunition in theatre. There were 1116 A-10 sorties flown in which 227,008 rounds of combat mix was expended. This equates to approximately 49.3 short tons of DU.

DU is not used for training and therefore there were no DU rounds expended on any training ranges in theater. Specific combat ground engagement locations are detailed in Appendix C. There was one A-10 aircraft assessed as a combat loss and two incidents involving A-10 combat mix expenditures on friendly forces. There were no incidents of A-10 gun barrel or gun system replacements during this time period.

An extensive amount of Public Affairs information indicates that DU, at zero velocity, does not present a public health hazard.

Ninth AF continues to monitor DU expenditures but the numbers indicated in this report should represent a final total since DU is no longer used for continuing operations over Iraq.

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  - A. WEAPON SYSTEM EXPENDITURES
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## Discussion

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### INTRODUCTION

During OIF, the air component used two weapon systems which employed Depleted Uranium (DU) munitions. The Fairchild Republic A-10 Thunderbolt II, using the GAU-8, 30 mm Avenger gun weapons system and the Marine AV-8B Harrier. The Harrier DU expenditure reporting is contained in a separate report produced by the 3<sup>rd</sup> MAW G3 staff at Miramar NAS. The Federation of American Scientists website provides a general description of the A-10 gun weapon systems:

The [GAU-8] gun fires a mix of both high explosive incendiary (HEI) and armored piercing incendiary (API) ammunition. The PGU-13/B HEI High Explosive Incendiary round employs a standard M505 fuze and explosive mixture with a body of naturally fragmenting material that is effective against lighter vehicle and material targets. The PGU-14/B API Armor Piercing Incendiary round has a lightweight body which contains a sub-calibre high density penetrator of Depleted Uranium (DU). In addition to its penetrating capability DU is a natural pyrophoric material which enhances the incendiary effects. The PGU-15/B TP Target Practice projectile simulates the exterior ballistics and provides a ballistic match to the HEI round and is used for pilot training.

A typical combat load for the GAU-8 would include 1,100 rounds of 30mm high explosive or armor piercing ammunition. The 30mm API is mixed with 30mm High Explosive Incendiary (HEI) at the factory and is called Combat Mix Ammunition. The ratio of API to HEI rounds in the Combat Mix is 4:1. Combat mix is a sequential mixture of DU and HEI rounds in which 1 HEI round followed by 4 DU rounds are fired by the AN/GAU-8 gatling gun. DU is the primary munition for the A/OA-10 in a combat environment.

Depleted uranium results from the enriching of natural uranium for use in nuclear reactors. Natural uranium is a slightly radioactive metal that is present in most rocks and soils as well as in many rivers and sea water. Natural uranium consists primarily of a mixture of two isotopes (forms) of uranium, Uranium-235 (U235) and Uranium-238 (U238), in the proportion of about 0.7 and 99.3 percent, respectively. Nuclear reactors require U235 to produce energy, therefore, the natural uranium has to be enriched to obtain the isotope U235 by removing a large part of the U238. Uranium-238 becomes DU, which is 0.7 times as radioactive as natural uranium. . Since DU has a half-life of 4.5 billion years, there is very little decay of those DU materials. When manufactured as 30mm rounds, each DU projectile contains approximately 4,650 grains [0.66 pounds (lbs)] of extruded DU, alloyed with 0.75 weight percent titanium. The projectile is encased in a 0.8 mm-thick aluminum shell as the final DU round.<sup>1</sup>

This report answers very specific questions to establish an enduring historical record for the purpose of studies and analysis of plans, policies, operations, technology, logistics and personnel for the benefit of the national defense. The first section discusses the locations and quantities of DU munitions during and subsequent to OIF. The second section documents employment locations of DU and the final section records the disposition of military assets, friend and foe, which are

associated, in various ways, with DU employment. Information in this report is current through the 18<sup>th</sup> of August, 2003.

**DEPLETED URANIUM MUNITIONS**

Records of total quantity of DU munitions are maintained by USCENTAF A4 Munitions. The numbers of rounds reported are for combat mix loads (4:1 ratio). Actual DU rounds can be obtained by multiplying reported numbers by 0.8. Prior to OIF, there were approximately 1,229,974 rounds of combat mix load in the CENTAF Area of Operations. There were 224,000 rounds shipped to theater in response to OIF. Currently, 208,000 rounds have been shipped back to the United States with more shipments scheduled to follow. There are no rounds unaccounted for and none where destroyed.

Currently 1,245,974 rounds are stockpiled in the following locations:

Location	Wing	Coordinates	Rounds	Status
(b)(3) 130				

Table 1: Current DU Stockpiles.

Previous stockpile locations were:

Location	Wing	Coordinates	Rounds	Status
(b)(3) 130				

Table 2: Previous DU Stockpiles.

Quantities are tracked by the Combat Ammunition System software (Base or Deployed version).

**DEPLETED URANIUM WEAPONS EMPLOYMENT**

The following A-10 units participated in OIF:

Unit	Wing	Location	Coordinates
(b)(3) 130			

(b)(3) 130

Table 3: Participating A-10 units.

Task Force Enduring Look compiled the following information regarding A-10 DU employment<sup>2</sup>. There were 1116 A-10 missions employing 49.3 short tons of DU rounds. There were a total of 227,008 combat mix rounds. Specific engagement expenditures were listed in Appendix A. Specific engagement locations and details are attached in Appendix C. There were 333 missions that did not provide engagement location coordinates in the mission report. Additionally, DU was not used on air-to-ground training ranges.

#### EQUIPMENT DESTROYED - DEPLETED URANIUM MUNITIONS

Destroyed equipment includes one A-10 combat loss and two fratricide events involving A-10 strafing. The combat loss occurred on [redacted] with the aircraft downed location at N33-00 E 044-13 near [redacted]. Quantity of DU munitions on-board were approximately [redacted].

There were two fratricide events involving A-10 DU rounds. The first incident occurred on the 23<sup>rd</sup> of March 2003 north of An Nasiriyah involving U.S. Marines. The approximate rounds employment location was [redacted]. The second event occurred on the 28<sup>th</sup> of March 2003, north of Basra near the town of Ad-dayr and involved a U.K. armored personnel carrier. Rounds employment location was [redacted]. Further information regarding fratricide events can be obtained from USCENCOM//JA//.

There were no A-10 maintenance related DU misfires reported during this time frame.

#### GUIDANCE FOR AVOIDING HAZARDS RELATED TO DEPLETED URANIUM

The Public Affairs guidance message and frequently asked questions were provided in Appendix B. Additionally, Public Affairs and the DOD have published extensive information regarding depleted uranium on the following web sites:

[redacted]  
(b)(6)

[redacted]  
(b)(6)

#### CONCLUSION

DU expenditures for OIF

<sup>2</sup> TF Enduring Look/AFCVAX – POC

[redacted]  
(b)(6)

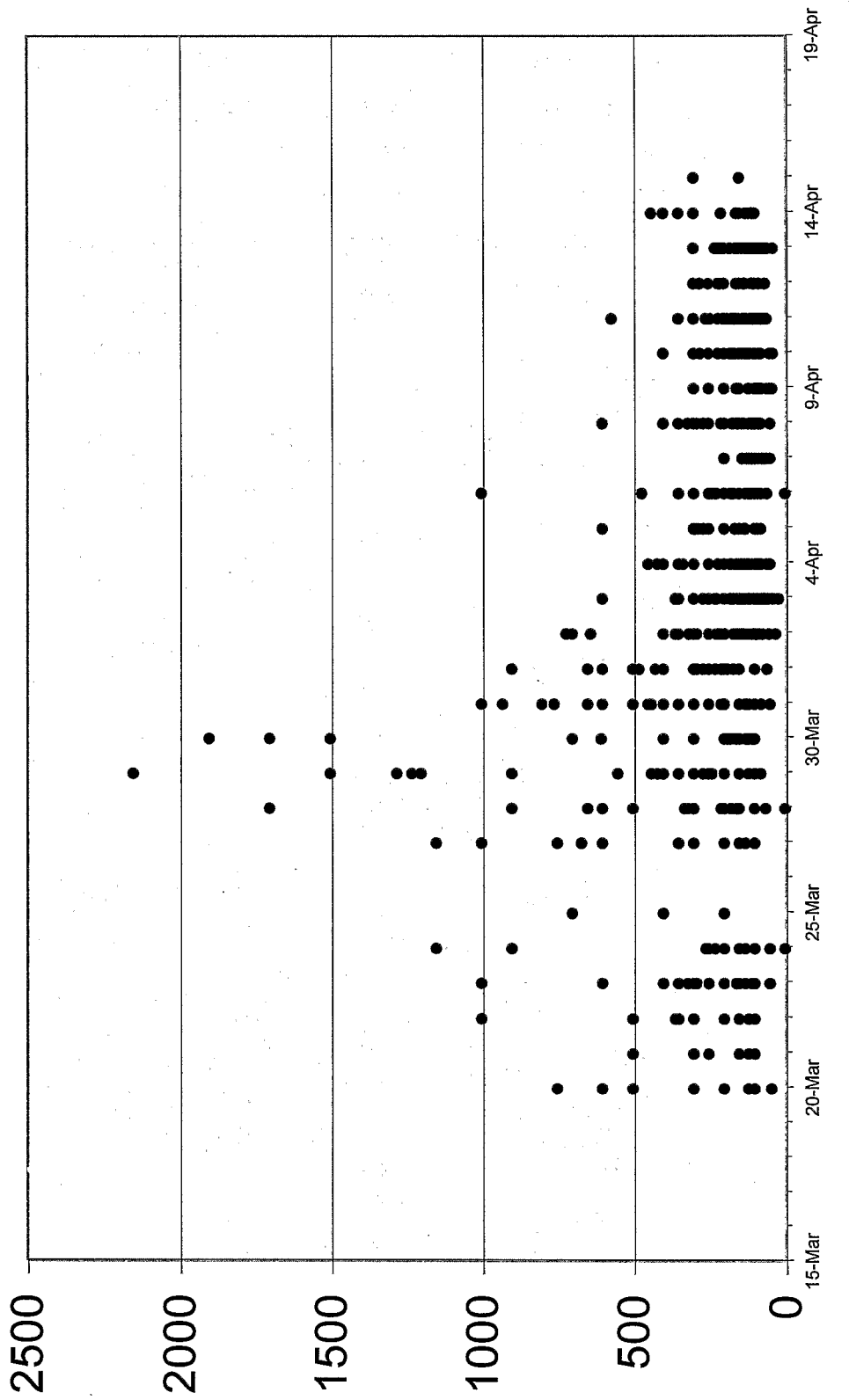
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APPENDICES

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APPENDIX A

# Combat Mix Rounds Expended





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DEPARTMENT OF THE ARMY  
COALITION FORCES LAND COMPONENT COMMAND  
UNITED STATES ARMY FORCES CENTRAL COMMAND  
CAMP DOHA, KUWAIT, APO AE 09304

CFLCC-C3-CHOPS

15 September 2003

MEMORANDUM FOR RECORD

SUBJECT: Executive Summary-Response to CENTCOM Message 111144Z AUG 03

1. The purpose of this document is to outline and explain the accountability of Depleted Uranium (DU) Munitions and equipment destroyed by DU munitions. As of 15 SEP 03 no information was provided to CFLCC by 3<sup>rd</sup> Infantry Division and therefore is not included in this report.
2. Total quantities of DU munitions shipped into theater as of 19 MAR:

Theater Stocks on 19 Mar 03	
DODIC	Quantity
A986	938,703
C380	7,394
C792	0

- a. The total quantities of DU shipped to the CFLCC AOR after 19 MAR 03:

Total Shipped to Theater after 19 Mar 03			
DODIC	Carter	WT & CB	Total
A986	0	312,014	312,014
C380	0	4,001	4,001
C792	4,320	16,222	20,542

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b. The total quantities of DU Shipped out of Theater is as follows:

Shipped out of Theater						
Ship	Carter	Constellation	Bobo	Shugart	Global Paramount	Total
A986	171,720	25,200	25,200	513,739	0	735,859
C792	1,920	1,200	0	0	2,400	5,520

c. Total quantities of DU munitions that remain in storage as of 29 AUG 03:

Storage					
Location	TSA	Arifjan	Al Jalail	Dogwood	
Grid	39RTM22609280	TM22409895	TM24459205	38SMB1448156596	
LAT/LONG	284959N0480926E	285148N0480738E	284936N0481034E	330326n0440506E	
DODIC					Total
A986	161,700	115,860	2,464	21,531	301,555
C380	4,705	3,807	1,444	1,673	11,629
C792	2,877	4,279	0	900	8,056

[26SEP03 email updated DOGWOOD: A986 23,795; C380 839; C792 zero.]

d. The locations of destroyed DU munitions:

4<sup>th</sup> ID: Reported

DODIC	Initial Issue/Beginning OH	Qty Expended	Qty Resupplied	Qty Unserviceable Rounds Destroyed	Location of Rounds Destroyed	Date Rounds Destroyed	Method of Destruction
A986	29216	710	0	0	N/A	N/A	N/A
C380	2731	347	0	4	MC71543355 MC71553355 MC71553354 MC71543354	10MAY03	TAKEN TO CAMP BOOM BY B 204TH FSB AND DESTROYED BY DEMO
C792	2248	40	0	9	MC71543355 MC71553355 MC71553354 MC71543354	3 & 5 MAY 03	TAKEN TO CAMP BOOM BY B 204TH FSB AND DESTROYED BY DEMO

101<sup>st</sup> AAD:

DODIC	Initial issue /Beginning OH	Qty expended	Qty resupplied	Qty Unserviceable Rounds Destroyed	Location of Rounds Destroyed	Date Rounds Destroyed	Method of Destruction
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C380	281	14	0	2	36 19 16N 043 07 14E	25-Jun-03	Turned over to EOD
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d. Additional locations and quantities for DU munitions:

Location/ Grid	Unit	DODIC	Quantities of Past Stockpiles	Dates	Quantities of Current Stockpiles	Dates
FLB Pecan/ LB682892	608th OD CO	CEA	8	MAY-JUN	8	PRESENT
		AA-8B/C				37,866

[26SEP03 CFLCC email: deleted the 3 DOGWOOD entries previously above]

e. Damaged rounds: location and disposition

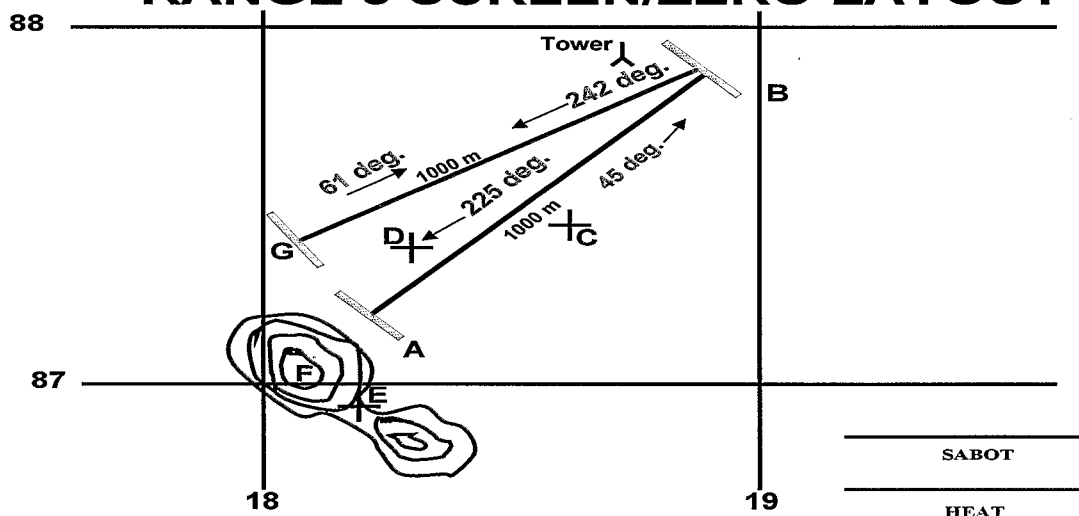
Unit	Location of Storage Yards	Quantity / Type of Destroyed equipment	Quantity / Type of Enemy DU Munitions	Remarks
759TH EOD	QT13456505			INC# 759-19-03 - Team recovered 1 ea M883 120mm DU round and turned it in to the ASP in Arifjan, KU.
759TH EOD	MB36909810			INC# 759-319-03 - Team recovered 1 ea M883 120mm DU round and turned it in to the ASP at Dogwood, IZ
18TH EOD	MB6400481097			30 ea M829A2 120mm DU rounds damaged during a fire and left on site, ACERT Conducted a site survey and will be working on clearing site in Oct.

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Date	Unit	Location of Storage Yards	Quantity / Type of Enemy DU Munitions	Remarks
Unknown	79th EOD	Pecan Regional Depot	unk number of AA-8 missiles	Missiles are safe to store, but DU needs to be removed prior to destruction
Unknown	79th EOD	Taji Regional Depot	unk number of AA-8 missiles	Missiles are safe to store, but DU needs to be removed prior to destruction
26-May-03	79th EOD	Unknown	1ea US 120MM DU round	Responded to a found 120mm DU Round at grid NV955437 which was packaged and turned over to the 38th Ord Gp QASAS

3. DU Ranges: The only training range used for expending DU munitions was Range 8, Udairi Range, Kuwait (29 42 04N 047 15 30E). The total number of DU rounds expended was 1,793. This range is shut down and clean up begins on or about 15 SEP 03. Clean up is expected to be complete on or about 31 OCT 03. A digital map enclosure is provided to better clarify the range and location of the expended DU munitions.

### RANGE 8 SCREEN/ZERO LAYOUT



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The breakdown of DU munitions fired at Range 8 was:

**US Forces:**

C380 - 1,318 expended

C792 - 25 expended

**UK:**

L27A1 - 389 expended

**Kuwait Land Forces:**

C786 - 61 expended

4. Total DU Expenditures: CFLCC is unable to provide a complete report of DU expenditures at this time. 3<sup>rd</sup> Infantry Division was redeploying at the time the CENTCOM message was received. The following is a brief roll-up of the locations with all of the known expenditures of DU by location without 3ID data.

a. The following are the only reported engagements in which DU has been expended:

MAP #	UNIT	C380 EXPENDED	C792 EXPENDED	A986 EXPENDED	LOCATION	TARGET
1	4 ID			111	LD770417	FORTIFICATION
2	4 ID			63	LD792298	FORTIFICATION
3	4 ID			70	LE 7840029800	FORTIFICATION
4	4 ID	38			MC4056	UNK
5	4 ID	2			MOSUL	UNSERVICEABLE
6	4 ID	2			MC 7154033550	UNSERVICEABLE
7	4 ID		9		MC 715403355	UNSERVICEABLE
8	4 ID			36	NC 0420563430	BRDM
9	4 ID			178	NC 0421963398	BRDM
11	4 ID			25	MC285460	UNK TGT
12	4 ID			120	NC077292	DESTROYED
12	4 ID	10			ME554135	UNK VEHICLE
13	4 ID	4			ME405345	MTLB
14	4 ID			41	LD630343	ADA GUN
15	4 ID			66	MD776647	UNK
	<b>TOTALS</b>	56	9	710		

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5. In response to 1.F., 1.G., and 1.H. losses to friendly weapon systems involving DU, a list of the vehicles below is noted as lost and currently being located for recovery back to Kuwait for further action. There have been no additional losses of DU vehicles since the end of PH III Combat Operations reported by CJTF-7. The vehicles listed below were obtained through other sources than 3<sup>rd</sup> Infantry Division.

<u>UNIT</u>	<u>COMBAT SYSTEM</u>	<u>SN</u>	<u>INCIDENT</u>
3ID	M1A1 X2	L12362	Engaged at OBJ Floyd by 25mm 31 54 04N 044 29 31E
C 2-70th AR	M1A1	L13051	Tank fell into well vic. K2 Airfield during an attack 34 50 11N 043 22 37E
C 2-7th IN	M2A2	2ADR3425R	fell into a well, was subsequently recovered and stripped of gear and parts rendering it NMC
3 ID (3-7 CAV)	M3A2	3AC50169	Bradley fell into a well vicinity 32 55 20N 044 15 30E

a. The following are a list of investigations that were conducted due to friendly fire incidents and the status of the investigations. A hard copy of the investigations will follow with the remainder of the report.

<u>Date of Incident</u>	<u>Jag lit #</u>	<u>Unit or MSC</u>	<u>Type</u>	<u>Brief Description/ (Code, Unit, WIA/KIA, Name of Inds, Location, Description)</u>	<u>Suspense Date</u>	<u>Reviewed/ ATTY</u>	<u>Status/Remarks</u>
3-Apr-03	228	3ID	15-6	FRAT CPT Korn 4-64 AR 2BCT, KIA while investigating enemy tank	3-May-03	(b)(3), (b)(6)	COMPLETE. Forwarded to CFLCC
9-Apr-03	318	3ID	15-6	FFI PFC Jason Michael (Deceased) 11 EN CO M1-A1 fired through a wall and struck an M9 Ace blade.			COMPLETE. IO found enemy fire was cause. CG approved 2 June 03.
12-Apr-03	303	3ID	15-6	FFI No inj 3-7th CAV. M1 shot M1. No injuries., IO appointed 12 Apr 03.			COMPLETE. CG approved; being forwarded.

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12-Apr-03	303	3ID	15-6	FFI 3-7th CAV 2 M1s hit by M2 Brad 25mm fire. Both damaged.		COMPLETE
14-Apr-03	322	V Corps	15-6	FFI (b)(3), (b)(6) c/2-6, 1 KIA, 1 WIA. M2 Bradley, V Corps TAC, main gun discharged an AP round.	5-May-03 (b)(3), (b)(6)	COMPLETE

6. In answering question 1.I., the disposal of systems is an ongoing process in the AOR. Initially vehicles identified having been destroyed due to DU munitions were brought back to Udairi Range to be cleaned by Army Contaminated Equipment Retrograde Team (ACERT) and then moved for storage. The ACERT team continues to remove equipment from Iraq and move it south upon notification of possible equipment requiring DU assistance. The final site will be cordoned off in order to ensure that personnel are not exposed to the effects.

7. This has been a brief summary of known information with regards to the accounting for DU munitions and the equipment destroyed by DU munitions. The POC's for the following information provided are (b)(3), (b)(6) and (b)(3), (b)(6) with CFLCC C-3 Ground Operations at (b)(6)

(b)(6), (b)(3)

Encl: 1 – DU CFLCC zip  
2 – DU CJTF -7 zip





**UNITED STATES MARINE CORPS**  
I MARINE EXPEDITIONARY FORCE  
I MARINE EXPEDITIONARY FORCE FMF, BOX 555300  
CAMP PENDLETON, CALIFORNIA 92055-5300

IN REPLY REFER TO:

12 Sep 2003

From: CG, 1<sup>st</sup> Marine Expeditionary Force  
To: CG, Marine Forces Central Command

Subj: ACCOUNTING FOR DEPLETED URANIUM (DU) MUNITIONS AND EQUIPMENT  
DESTROYED BY DU MUNITIONS DURING OPERATION IRAQI FREEDOM

Ref: (a) CENTCOM Msg dtd 111144Z Aug 03

Encl: (1) Public Affairs/Civil Affairs Guidance on Avoiding Potential Hazards of DU and  
Other War Material

1. Per the reference, CENTCOM has directed that components account for the storage, expenditure, removal, and destruction of all munitions and equipment containing depleted uranium (DU), including the locations of both training and combat expenditures, as well as information regarding the handling and disposition of DU-contaminated equipment during Operation Iraqi Freedom. The attached report addresses I Marine Expeditionary Force and II Marine Expeditionary Brigade (Task Force Tarawa) DU issues, both air and ground, and answers the taskings listed in paragraph (1) of the reference.
2. Knowledge of the use and disposition of DU munitions and DU delivery systems is important to the safety and well-being of coalition military personnel, as well as civilians in combat areas. It is also very important from an international and geopolitical standpoint. In the attached report we provide the most accurate and up to date information possible regarding DU usage before, during, and after Operation Iraqi Freedom. In response to paragraph (1) k of the reference, we have included information (Encl (1)) provided by the I MEF Public Affairs Office (PAO) regarding PAO/Civil Affairs guidance on avoiding potential DU hazards.
3. Although it was relatively easy to track aviation DU expenditures during the war, tracking the latitude and longitude of individual tank DU rounds fired during combat is nearly impossible. Given that DU was used in ammunition fired by the Abrams tank, Bradley Fighting Vehicle, USAF A-10, and USMC AV-8B Harrier, it is not practical to attempt to locate all fired DU rounds that may be in Iraq. It is unrealistic to expect units engaged in combat to record detailed round expenditure information and lat/long locations. The fact that tanks maneuver freely and often fire in a 360-degree arc during any given battle is not the only issue; tank crews in the heat of battle do not have time to track where individual rounds are impacting. With this in mind, we have provided general latitudes and longitudes of battle areas; DU rounds may have impacted anywhere within these areas.
4. ANNEX L to USCENTCOM Op Plan 1003V briefly mentions responsibilities for monitoring and recording locations where DU munitions have been stored and/or fired, and where DU-destroyed equipment is collected or buried. However, there is no specific requirement to track individual round impact locations. ANNEX L (Environmental) to the CFLCC Op Plan contains

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no references to DU munitions/weapons systems or any requirement to track DU usage or storage; it only mentions hazardous materials and hazardous waste disposition. However, there is a disclaimer in paragraph 3.d (1) (Compliance Requirements), which reads: "Units in combat contact are not required to comply with CFLCC environmental regulations; however, commanders are expected to encourage pollution prevention and stewardship of host nation natural resources."

5. Point of Contact is (b)(3)(b)(6)

(b)(3)(b)(6)

By dir

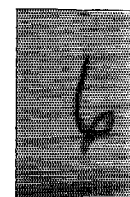
RMKS/1. (U) CENTCOM COMPONENTS WILL PROVIDE THE FOLLOWING RECORDS TO CCJ4-E.

1.A. (U) TOTAL QUANTITIES OF DU SHIPPED TO THEATER, SHIPPED BACK, STOCKPILED, UNACCOUNTED FOR OR DESTROYED. IF DESTROYED OR BURIED PROVIDE DATE, UNIT, AND LOCATION (LAT/LONG). IF DESTROYED, INCLUDE METHOD OF DESTRUCTION.

GROUND AMMUNITION DATA:

- SHIPPED INTO THEATER

SOURCE	DODIC	QUANTITY	COMMENTS
ARMY LOAN	C380	250	
(b)(3) 10 USC 455	C380	400	Shipped in on Turbo CADS 02
ATF EAST	C380	428	
ATF WEST	C380	350	
(b)(3) 10 USC 455	C380	510	MPS-1
	C380	515	MPS-1
	C380	510	MPS-1
	C380	530	MPS-1
	C380	516	MPS-1
	C380	470	MPS-2
	C380	425	MPS-2
	C380	430	MPS-2
	C380	530	MPS-3
	C380	516	MPS-3
	C380	4,000	TPFDD
C380	1,267	TPFDD	
15TH MEU	C380	175	LFORM
24TH MEU	C380	160	LFORM
	TOTAL	11982	



- RETROGRADED FROM THEATER

SOURCE	DODIC	QUANTITY	COMMENTS
ARMY LOAN PAYBACK	C380	240	PAYBACK TO US ARMY
USS TARAWA/15 MEU	C380	175	LFORM BACKLOAD
USS NASSAU/24 MEU	C380	70	LFORM BACKLOAD
USS AUSTIN/24 MEU	C380	28	LFORM BACKLOAD
	TOTAL	513	

AVIATION DATA:

- (NALC: A979, 25MM, PLATFORM: AV-8 HARRIER)
- ISSUED TO 3D MAW: 6,036
- EXPENDED: 136
- TURNED IN: 5,900
- ON-HAND: 0
- UNACCOUNTED FOR: 0

GROUND DATA:

- DODIC: C380 CTG, 120MM ARMOR-PIERCING-FIN-STABILIZE-DISCARDING SABOT-TRACER (APFSDS-T)
- PLATFORM: M1A1 TANK
- EXPENDED: 451
- ON-HAND: 0
- DESTROYED: 20 APR, CSSB-10 HAD AN EXPLOSIVE MISHAP AT RRP-26 (b)(3) 10 USC 455 WHERE 816 120MM ARMOR-PIERCING FIN STABILIZED DISCARDING SABOT WITH TRACER (APFSDS-T) ROUNDS (DODIC C380) WERE DESTROYED IN A FIRE. THE CORRESPONDING EOD BLOW TO "CLEAN UP" THE DEBRIS FROM THE INCIDENT HAPPENED AT RRP-26. DU RODS WERE PLACED AT THE BOTTOM OF THE PIT AND WERE BLOWN. THE EOD DISPOSAL BLOW WAS CONDUCTED ON 25 APR 03.

**1.B. (U) LOCATION (NAME, UNIT, LAT/LONG) AND QUANTITY OF PAST AND CURRENT DU STOCKPILES.**

AVIATION DATA:

- ASP LOCATION: (b)(3) 10 USC 455
- PAST STOCKPILE QUANTITY: 6036
- CURRENT STOCKPILES: 0

GROUND DATA:

- LSA (b)(3) 10 USC 455 BOUNDARIES - (b)(3) 10 USC 455  

(b)(3) 10 USC 455
- LSA (b)(3) 10 USC 455 BOUNDARIES - (b)(3) 10 USC 455  

(b)(3) 10 USC 455
- LSA (b)(3) 10 USC 455 BOUNDARIES - (b)(3) 10 USC 455  

(b)(3) 10 USC 455
- TSA IN THE VICINITY OF (b)(3) 10 USC 455 AT THE ARMY'S AMMUNITION SUPPLY POINT IN (b)(3) 10 USC 455
- CURRENT STOCKPILES:

LOCATION	DODIC	Quantity
TSA (b)(3) 10 USC 455	C380	3,280
LSA (b)(3) 10 USC 455	C380	6,922
	TOTAL	10,202

1.C. (U) LOCATION (NAME, LAT/LONG) OF ALL TRAINING RANGES WHERE DU MUNITIONS WERE FIRED, AND TYPE AND QUANTITY OF MUNITIONS FIRED.

AVIATION DATA:

- TRAINING RANGES WHERE FIRED: NONE

GROUND DATA:

- TRAINING RANGES WHERE FIRED (b)(3) 10 USC 455 RANGE IMPACT ARE (b)(3) 10 USC 455

(b)(3) 10 USC 455

- PLATFORM: M1A1 TANK
- DODIC: C380 CTG
- TOTAL EXPENDED:  
(b)(3) 10 USC 455 RANGE: 245

**1.D. (U) TOTAL DU EXPENDITURES FOR EACH WEAPON SYSTEM INCLUDING:  
ABRAMS M1 120MM AND 105MM, BRADLEY FIGHTING VEHICLE (M2/M3), A-10,  
AV-8B, AND PHALANX CLOSE-IN WEAPON SYSTEM.**

AVIATION DATA:

- PLATFORM: AV-8 HARRIER
- NALC: A979, 25MM
- TOTAL EXPENDED: 136

GROUND DATA:

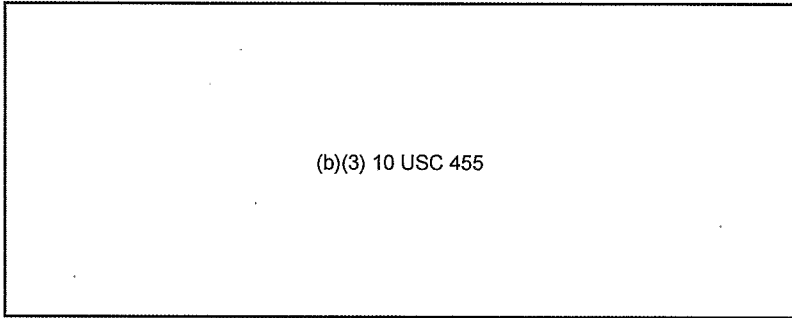
- PLATFORM: M1A1 TANK
- DODIC: C380 CTG
- TOTAL EXPENDED:  
(b)(3) 10 USC 455 RANGE: 245
  - IRAQ:
    - 1ST TANK BN – 173
    - 2ND TANK BN – 21
    - TF TARAWA – 12
      - TOTAL SHOT IN IRAQ: 206
  - TOTAL: 451

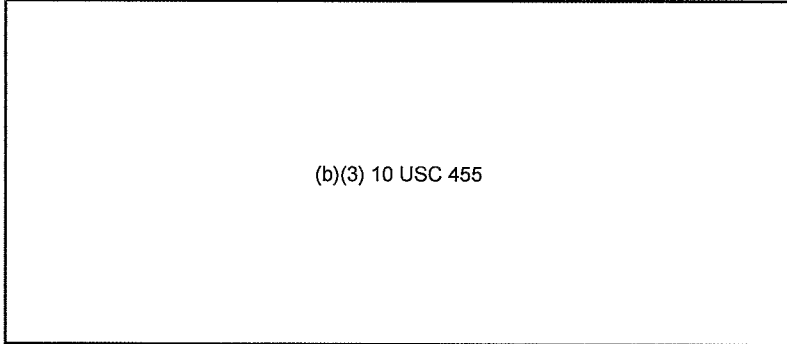
**1.E. (U) DU SURFACE AND AIR ENGAGEMENT LOCATIONS (LAT/LONG) AND QUANTITY EXPENDED. SUPPORTING DOCUMENTATION MAY INCLUDE LOCATION OF KILL BOXES, AMMO LOGS, MISSION DEBRIEFS, ETC.**

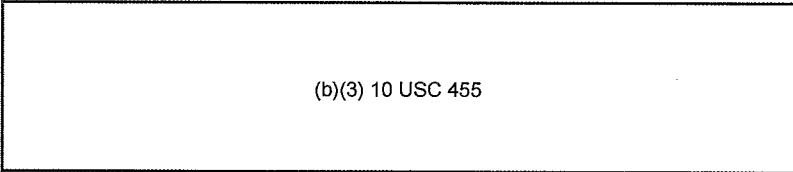
**AVIATION DATA:**

- 2 APR 2003 APPROX 1630 L HOURS, 30 DU ROUNDS AT (b)(3) 10 USC 455 ARMORED VEHICLES
- 3 APR 2003 APPROX 2150 L HOURS 106 DU ROUNDS AT (b)(3) 10 USC 455 ARMORED VEHICLES

**GROUND DATA:**

- 1ST TANK BN - 173
  - A CO (b)(3) 10 USC 455 BOUNDARIES - (b)(3) 10 USC 455  


(b)(3) 10 USC 455
  - B CO / C CO (b)(3) 10 USC 455 BOUNDARIES - (b)(3) 10 USC 455  


(b)(3) 10 USC 455
  - D CO (b)(3) 10 USC 455  


(b)(3) 10 USC 455



- 2ND TANK BN - 21

- ALL ROUNDS WERE EXPENDED NEAR THE (b)(3) 10 USC 455 WEST OF

(b)(3) 10 USC 455

BOUNDARIES - (b)(3) 10 USC 455

(b)(3) 10 USC 455

- TF TARAWA - 12

- ALL ROUNDS WERE EXPENDED IN THE VICINITY OF AN

(b)(3) 10 USC 455

BOUNDARIES -

(b)(3) 10 USC 455

(b)(3) 10 USC 455

**1.F. (U) IDENTIFICATION OF ALL FRIENDLY LOSSES INVOLVING DU, BY WEAPON SYSTEM AND INCLUDING THE STATUS OF ANY DU MUNITIONS ON-BOARD.**

AVIATION DATA:

- NONE

GROUND DATA:

- PEI: M1A1 TANK
- QTY: 4 (2 FROM 1<sup>ST</sup> TANKS, 2 FROM 2<sup>ND</sup> TANKS)
- ANALYZED/ASSESSED: ARMY CONTAMINATED EQUIPMENT RETROGRADE TEAM (ACERT)
- LOCATION (b)(3) 10 USC 455
- AWAITING LIFT FOR MOVEMENT TO (b)(3) 10 USC 455
- AMMO ON BOARD RETURNED TO SERVICE

**1.G. (U) DU WEAPON SYSTEMS LOST DUE TO HOSTILE FIRE, FRIENDLY FIRE, ACCIDENTAL FIRES, ETC.**

AVIATION DATA:

- AV8B HARRIERS: NONE

GROUND DATA:

- M1A1 TANKS: 4 (SEE PARA 1F)

**1.H. (U) FRIENDLY-FIRE INCIDENTS INVOLVING DU AND RELATED INVESTIGATIVE REPORTS.**

AVIATION DATA:

- NONE

GROUND DATA:

- NONE

**1.I. (U) DISPOSAL OF DU-CONTAMINATED EQUIPMENT. INCLUDE LOCATION OF STORAGE YARDS FOR CAPTURED OR RECOVERED ENEMY EQUIPMENT. INCLUDE DISCUSSION OF ANY ENVIRONMENTAL MONITORING FOR CONTAMINATED EQUIPMENT, DISPOSAL SITES, AND ANY LONG-TERM MONITORING/SITE-CONTROL PLANS. INCLUDE QUANTITIES, TYPE AND LOCATION (LAT/LONG) OF ENEMY DU MUNITIONS IF ANY.**

AVIATION DATA:

- NONE

GROUND DATA:

- M1A1 TANKS: 4 (SEE PARA 1F)
- ENEMY ARMOR AND EQUIPMENT ENGAGED WITH DU WERE COLLECTED IMMEDIATELY AFTER THE FIGHTING BY BOTH FRIENDLY AND CIVILIAN MEANS. THESE UNITS HAD NO WAY OF KNOWING WHAT VEHICLES AND EQUIPMENT HAD BEEN DESTROYED BY CONVENTIONAL OR DU ROUNDS. THERE ARE NO RECORDS THAT TRACK THE LOCATION AND MOVEMENT OF INDIVIDUAL ENEMY VEHICLES AND EQUIPMENT.

**1.J. (U) A-10/HARRIER MISFIRES RESULTING IN THE NEED TO REPLACE EITHER A GUN BARREL OR THE ENTIRE GUN SYSTEM (DATE, UNIT, LOCATION, ACTION TAKEN).**

AVIATION DATA:

- NONE

**1.K. (U) PUBLIC AFFAIRS/CIVIL AFFAIRS GUIDANCE ON AVOIDING POTENTIAL HAZARDS OF DU AND OTHER WAR MATERIAL.**

- SEE ENCLOSURE (1)

U.S. CENTRAL COMMAND  
SUMMARY OF DEPLETED URANIUM USAGE DURING OPERATION IRAQI FREEDOM  
October 20, 2003

.. Summary of Data

(a) TOTAL QUANTITIES OF DU SHIPPED TO THEATER, SHIPPED BACK, STOCKPILED, UNACCOUNTED FOR OR DESTROYED. IF DESTROYED OR BURIED PROVIDE DATE, UNIT, AND LOCATION (LAT/LONG). IF DESTROYED, INCLUDE METHOD OF DESTRUCTION.

MARCENT Ground:

- Shipped 11,982 rounds into theater, stockpiled 10,202, retrograded 513 rounds, expended 451 rounds

MARCENT Aviation (NALC: A979, 25MM, AV-8 HARRIER)

- Issued 6,036, expended 136, turned-in 5,900, 0 on-hand, 0 unaccounted for.

CENTAF:

Quantities given in "combat mix, rounds" unit of issues. Multiply given quantities by 0.8333 to convert to DU.

Pre-OIF approx 1,229,974 rounds in theater, 224,000 additional rounds shipped in response to OIF. Currently 208,000 rounds retrograded.

ARCENT

As of 15 OCT 03 3<sup>rd</sup> Infantry Division provided "engagement information". Other data was not available and therefore is not included in this report.

Shipped into theater as of 19 MAR03 by DODIC: A986 938,703; C380 7,394.

Shipped to the CFLCC AOR after 19 MAR 03: A986 312,014; C380 4,001; C792 20,542.

- Total quantities shipped out of theater: A986 735,859; C792 5,520.

(b) LOCATION (NAME, UNIT, LAT/LONG) AND QUANTITY OF PAST AND CURRENT DU STOCKPILES.

See enclosures for details.

MARCENT: ground; 10,202 rounds.

CENTAF: 1,345,836 combat-mix rounds stockpiled as of OCT03.

ARCENT: A986 301,555; C380 11,629; and C792 8,056 rounds stockpiled as of 29AUG03.

(c) LOCATION (NAME, LAT/LONG) OF ALL TRAINING RANGES WHERE DU MUNITIONS WERE FIRED, AND TYPE AND QUANTITY OF MUNITIONS FIRED.

- The only training range used for expending DU munitions was Range (b)(3) 10 USC Range,

(b)(3) 10 USC 455

MARCENT: (b)(3) 10 USC Range, 245 rounds

CENTAF: None

ARCENT: The total number of DU rounds expended was 1,793. This range is no longer operational.

(b)(6)

U.S. CENTRAL COMMAND  
SUMMARY OF DEPLETED URANIUM USAGE DURING OPERATION IRAQI FREEDOM  
October 20, 2003

(d) TOTAL DU EXPENDITURES FOR EACH WEAPON SYSTEM INCLUDING: ABRAMS M1 120MM AND 105MM, BRADLEY FIGHTING VEHICLE (M2/M3), A-10, AV-8B, AND PHALANX CLOSE-IN WEAPON SYSTEM.

MARCENT. AV-8 (25mm): 136 rounds. M1A1 (C380): 245 range, 206 Iraq.  
CENTAF: 1116 A-10 missions. There were a total of 227,008 combat mix rounds.  
ARCENT:

UNIT	DODIC	Initial Issue/ Beginning OH	Qty Expended	Qty Resupplied	Qty Unserviceable Rounds Destroyed
4ID	A986	29216	710	0	0
4ID	C380	2731	347	0	4
4ID	C792	2248	40	0	9
101AAD	C380	281	14	0	2
3ID	C792	TBD	216	TBD	TBD
3ID	A986	TBD	5750	TBD	TBD

(e) DU SURFACE AND AIR ENGAGEMENT LOCATIONS (LAT/LONG) AND QUANTITY EXPENDED. SUPPORTING DOCUMENTATION MAY INCLUDE LOCATION OF KILL BOXES, AMMO LOGS, MISSION DEBRIEFS, ETC.

See enclosures.

(f) IDENTIFICATION OF ALL FRIENDLY LOSSES INVOLVING DU, BY WEAPON SYSTEM AND INCLUDING THE STATUS OF ANY DU MUNITIONS ON-BOARD.

MARCENT: 4 M1A1, 10 USC Ammo on board returned to service

(g) DU WEAPON SYSTEMS LOST DUE TO HOSTILE FIRE, FRIENDLY FIRE, ACCIDENTAL FIRES, ETC.

MARCENT: same as above

CENTAF: A-10

ARCENT: M1A2 X2, M1A1, M2A2, M3A2. See enclosure for details.

(h) FRIENDLY-FIRE INCIDENTS INVOLVING DU AND RELATED INVESTIGATIVE REPORTS.

MARCENT: none

CENTAF: 2 events, see enclosure

ARCENT: see enclosure.

(b)(6)

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U.S. CENTRAL COMMAND  
SUMMARY OF DEPLETED URANIUM USAGE DURING OPERATION IRAQI FREEDOM  
October 20, 2003

(i) DISPOSAL OF DU-CONTAMINATED EQUIPMENT. INCLUDE LOCATION OF STORAGE YARDS FOR CAPTURED OR RECOVERED ENEMY EQUIPMENT. INCLUDE DISCUSSION OF ANY ENVIRONMENTAL MONITORING FOR CONTAMINATED EQUIPMENT, DISPOSAL SITES, AND ANY LONG-TERM MONITORING/SITE-CONTROL PLANS. INCLUDE QUANTITIES, TYPE AND LOCATION (LAT/LONG) OF ENEMY DU MUNITIONS IF ANY.

MARCENT: no records for enemy equipment.

CENTAF: none.

ARCENT: on-going, see enclosure.

(j) A-10/HARRIER MISFIRES RESULTING IN THE NEED TO REPLACE EITHER A GUN BARREL OR THE ENTIRE GUN SYSTEM (DATE, UNIT, LOCATION, ACTION TAKEN).

MARCENT: none

CENTAF: none

(k) PUBLIC AFFAIRS/CIVIL AFFAIRS GUIDANCE ON AVOIDING POTENTIAL HAZARDS OF DU AND OTHER WAR MATERIAL.

MARCENT: see enclosure

CENTAF: see enclosure

2. Notes.

(a) CENTAF's quantities are listed in "combat mix, rounds" unit of issues. Multiply given quantities by 0.8333 to convert to rounds of DU.

(b) NAVCENT & SOCCENT reported expending 0 DU rounds during OIF.

(b)(6)

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