

JULY 20

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11 15 Aug 76

DEPARTMENT OF THE ARMY
OFFICE OF THE ADJUTANT GENERAL
WASHINGTON, D. C. 20310

ACDA-A (8) (2 Apr 71) OT-UT-761152

8 APR 1971

SUBJECT: Operational Report (b) Lessons Learned, Headquarters, 191st
ATLBORAD DIVISION

ONE DISTRIBUTION

Operational report for quarterly
period ending 31 August 73

JUN

1. The attached report is forwarded for review and evaluation in
accordance with para 4b, AR 525-15.

20

2. The information contained in this report is provided to insure
that lessons learned during current operations are used to the benefit
of future operations and may be adapted for use in developing training
material.

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Acoustic Sensors
P-45

3. Information of actions initiated as a result of your evaluation
should be forwarded to the Assistant Chief of Staff for Force Development,
ATTN: FOR OT UT within 90 days of receipt of this letter.

4. The aerial flame technique discussed in paragraph 2c(1)(b) of the
inclosed report is being evaluated by the US Army Combat Developments
Command. Pending final results of this evaluation, Army-wide use of
this technique is not recommended.

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BY ORDER OF THE SECRETARY OF THE ARMY:

John W. Pease
John W. Pease
Major General, USA
The Adjutant General

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(Continued on page 2)

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HEADQUARTERS 101ST AIRBORNE DIVISION (AIRMObILE)
Office of the Chief of Staff
APO 96383

AVDG-CS

15 August 1970

SUBJECT: Operational Report - Lessons Learned, 101st Airborne
Division (Airmobile), Period Ending 31 July 1970, RCS
CSFOR-65 (R2) (U)

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The inclosed Operational Report - Lessons Learned is forwarded in
compliance with USARV Regulation 525-15 and XXIV Corps Regulation
525-2.

FOR THE COMMANDER:

Hugh A. Macdonald

HUGH A. MACDONALD
Colonel, GS
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AVDG-GC

SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division
(Airmobile), Period Ending 31 July 1970, RDS CSFRK-65 (R2) (U)

1. (C) Operations: Significant Activities.

a. (C) Operations.

(1) Operation TEXAS STAFF commenced on 1 April 1970 and has continued throughout the entire period of this report. The operation was developed in close coordination and cooperation with the 1st Inf Div (ARVN) and Thua Thien Province and Sector officials to continue to provide territorial security for the accomplishment of pacification and development in the populated lowlands; deny the enemy access to the populace and resources in the coastal areas; and to seek out and destroy enemy forces, base areas, and cache sites.

(a) The 1st and 3d Bdes and reconnaissance assets of the division have been employed to maintain a protective shield beyond the periphery of the populated lowlands of Thua Thien Province to prevent incursions of enemy forces into the populated area, and insure a secure environment for continued progress of the province pacification and development program for 1970. The bdes operated in close coordination with the 1st, 3d, and 54th Regts (ARVN), conducting extensive patrols, surveillance, and security operations in assigned AOs to deny the use of these areas to the enemy. Combat operations by infantry elements were supported by direct and general support artillery fires, provided from mutually supporting fire support bases, secured by elements of the bde and located on a broad front beyond the periphery of the lowland areas. Combined airmobile operations were conducted within assigned AOs to eliminate enemy forces, base areas, and cache sites.

(b) The 2d Bde has been employed in the populated lowlands, piedmont and eastern edge of the canopy in coordination with the 3d and 54th Regts (ARVN), to coordinate and support the pacification and development program, conduct security operations on the edge of the canopy, and secure sustained fire support bases to provide direct support artillery coverage of the area of operations. The 2d Bde coordinated and directed assistance for the ten rural districts of Thua Thien Province and assisted in the achievement of the eight goals of the 1970 Pacification and Development Plan (Reported in OML for period ending 30 April 1970).

(c) An informal area coordination committee (ACC) was established, composed of the CG, 1st Inf Div (ARVN); Province Chief, Thua Thien Province; CG, 101st Atn Div (Abtl), and the Senior Advisor CGADS, to insure that the efforts of all forces operating in the province are in agreement and focused toward the same objectives and goals. Through this means, priorities were established for pacification, civic action projects, and the employment of military forces required to upgrade the degree of security and promote pacification and development in specified areas.

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Inclosure

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SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division
(Airmobile), Period Ending 11 July 1970, RCS USFOR-64 (R2) (U)

(2) The division assumed operational control of Det B-52, 5th SFG-(A) (Project Delta), on 10 May 1970 at SFOR Mai Loc, TB054518. The detachment began Operation BAMBER GLADE on 15 May to conduct deep covert reconnaissance and tactical exploitation of intelligence and to interdict enemy infiltration and supply routes in the Khe Sanh Plain and Da Krong River Valley areas. These operations continued until 9 June, when the detachment terminated operations in western Quang Tri Province and prepared for movement to Nha Trang, RVN, for stand down. On 25 June Det B-52, 5th SFG (A), resumed special reconnaissance operations in the Delta AO, until 30 June 1970, when Operation BAMBER GLADE was terminated. The detachment conducted a total of 38 ground operations, inserting elements to perform area and route reconnaissance and bomb damage assessment of air, artillery, and ARA strikes. The detachment accounted for 15 enemy KIA, 10 enemy trucks, two bulldozers, and a large amount of supplies destroyed along Route 616. Intelligence gathered by the detachment indicated that Route 616 was the main supply route for enemy units in Quang Tri Province and the Laosian Salient area. The detachment also concluded that there was no indication of movement of major enemy units in the area of operation, although the short duration of the second phase of the operation (25-30 June) precluded a complete and thorough coverage of the AO (After Action Report submitted separately by Det B-52, 5th SFG (A)).

(3) Operation CLINCH VALLEY was initiated at 091315 July in response to the discovery of the 9th Regt, 304th NVA Division, infiltrating into South Vietnam. The mission of the 101st Abn Div (Abml) was to provide combat support and combat service support for operations by the 1st Inf Div (ARVN) in the NHE SANH Plateau. During the operation, elements of the 3d Bde and 3d Regt, 1st Inf Div (ARVN) were employed in western Quang Tri Province to locate and destroy elements of the 9th NVA Regt, discovered by armed serial reconnaissance elements on 8 July (After Action Interview Report submitted separately). Artillery was provided by XXIV Corps, 101st Abn Div (Abml), 1st Inf Div (ARVN), and the 1st Bde, 5th Inf Div (Mech) to support reconnaissance in force operations by the 1st and 2d battalions, 3d Regt (ARVN). PHAGO 25 (CLINCH VALLEY) to OPCRUD 2-70 (TEXAS STAR) suspended combined operations by the 3d Bde in the vicinity of fire support/operations bases (FS/OB) AIRBORNE, GOODMAN, and BRADLEY to locate and destroy enemy rear service areas.

(4) Operation CHISAGO PEAK/LAM SON 363, in the mountains northeast of the A SHAU Valley, was originally scheduled to commence on 10 July, but was postponed with the commitment of assets to Operation CLINCH VALLEY. The combined operation, employing elements of the 1st Bde and 3d Regt (ARVN), was rescheduled to commence on 16 July and was to be conducted in two phases. Phase I (preparation) provided for a program of intensive preparatory fires by artillery, B-52, and tactical air south of FS/OB KIPCORD, in the FS/OB AIRBORNE/BRADLEY GOODMAN area, to deny enemy use of the terrain and destroy cache sites and base

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AVDG-GC

SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS CSFOR-65 (R2) (U)

airbas. Persistent and non-persistent CS munitions were employed to deny enemy use of infiltration routes, for terrain restriction, and fire suppression.

Phase II (offensive) provided for the occupation of FS/OB MAUREEN on 25 July by one US battalion, occupation by artillery on 28 and 29 July, and insertion of two battalions of the 3d Regt (ARVN) on 30 July, to locate and destroy enemy cache sites, logistical facilities, and interdict routes of resupply and communication of the 803d and 29th NVA Regiments.

(5) FS/OB RIPCORD was opened in April 1970 as a key forward fire support base in the division's summer offensive plan against the 803d and 29th NVA Regiments. The fire support base was occupied and secured on 11 April by Co C, 2d Bn (Ambl), 506th Inf. Poor weather in the division AO delayed the movement of the battalion CP and Btry B, 2d Bn (Ambl), 319th Arty until 16 April. Btry C, 11th Arty (ARVN) was positioned on the firebase on 17 April to provide support for two battalions of the 1st Regt (ARVN). The light CP, 1st Regt (ARVN) collocated on the firebase with the CP, 2d Bn (Ambl), 506th Inf on 18 April, to facilitate combined operations in the area.

(a) The 2d Bn (Ambl), 506th Inf continued security, patrol and ambush operations in the vicinity of FS/OB RIPCORD without significant enemy attacks, until 1 July 1970. The period 1-23 July was marked by increased enemy attacks by fire on and around the firebase and numerous ground attacks against units operating in the vicinity of the firebase.

(b) In early July it became obvious that NVA forces were massing in an attempt to control the RIPCORD area. Elements of the 6th NVA Regt concentrated around the FS/OB generally to the north and west, joining the 29th and 803d NVA Regiments, operating east of the A SHAU Valley, south and southeast of FS/OB RIPCORD. With the steady increase of indirect and anti-aircraft fire, and enemy ground attacks in the RIPCORD area, it became apparent, by the third week in July, that the cost and effort required for the self-defense of the firebase, placed the successful accomplishment of operations in the BRADLEY/AIRBORNE area in jeopardy.

(c) The closing of FS/OB RIPCORD would make troops available for offensive use against enemy supply caches and logistic installations to the rear of NVA forces massed around RIPCORD. The cache sites in the AIRBORNE/BRADLEY area were believed to be part of the base areas of the 803d and 29th NVA Regiments. The concentration of NVA forces around RIPCORD would further facilitate operations in areas to the south and southeast. Therefore, the decision to extract from RIPCORD was made.

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SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division
(Airmobile), Period Ending 31 July 1970, RCS CSFOR-65 (PZ) (L)

(4) RICOH operations were highly successful, causing heavy NVA casualties and drawing the enemy from his cache sites. His basing of forces around the firebase presented numerous targets vulnerable to heavy air and artillery fire. The 2d Bn (Abtl), 506th Inf was extracted, and FSB RICOH was closed on 23 July.

(6) G3 Air Activities:

(a) During the reporting period, close air support sorties were flown in the division area of operation as follows:

	<u>May</u>	<u>June</u>	<u>July</u>
Preplanned sorties	370	724	1130
Immediate sorties	263	103	207
Combat sky spots	305	127	80
Flareships	17	13	15
Gunships (Spooky, Shadow, and Stinger)	36	46	37

(b) Tactical air strikes expended 7818 tons of bombs and 532 tons of napalm during the reporting period.

(7) Enemy losses during the reporting period:

<u>Month</u>	<u>Contacts</u>	<u>KIA</u>	<u>WIA*</u>	<u>KbH*</u>	<u>PW</u>	<u>I/C</u>	<u>USMC</u>
May	372	407	44	67	2	81	33
June	300	223	9	78	6	65	21
July	431	643	20	232	6	63	43
Totals	1103	1273	73	377	14	209	97

* Killed by artillery and killed by helicopter figures included in KIA figures.

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SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period ending 31 July 1970, IOC Guidelines (1-2) (C)

(3) Friendly losses during the reporting period:

Unit	KIA	MIA	PNS	PPD	WII	WIA
HHC/Div	0	0	0	0	0	0
HHC/1 Eds	0	0	0	0	2	2
HHC/2 Eds	0	1	0	0	1	2
HHC/3 Eds	2	4	0	0	0	3
3/187	13	67	1	4	5	90
1/327	9	51	0	5	13	73
2/327	3	41	0	2	14	60
1/501	6	27	0	2	35	71
— 2/501	41	211	2	2	16	274
1/502	2	6	0	1	14	26
2/502	25	164	0	2	19	212
1/503	39	154	9	1	16	219
2/503	35	208	4	1	28	276
3/503	13	37	0	0	9	59
DIVARTX	18	149	0	3	33	268
— 101 Avn Gp	29	70	2	8	17	126
DISCOM	9	18	0	2	9	38
2/17	12	56	0	7	7	82
1/75 (Rcr)	7	23	0	0	0	30
326 Engr	3	18	0	0	4	25
501 Sig	3	3	0	0	0	6
101 MP	0	0	0	0	0	0
265	0	2	0	0	0	2
TOTALS	269	1312	18	42	240	1881

(9) Operations Narrative. See Inclosure 1.

b. (C) Training.

(1) The seven-day program for battalion refresher training was initiated on 12 May 1970. This program provides two days for troop movement (the first and last) and five days for the conduct of training and reacquaintance. Companies are rotated for one-day stand downs at Eagle Beach during the five-day training period, allowing one day of recreational stand down and four days of training for each company. During the reporting period, all infantry battalions conducted refresher training, and three battalions completed a second refresher training cycle. Under the previous battalion refresher training program,

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AVOC-00

Subject: Operational Report - Lessons Learned, 1st Airborne Division (Airmobile), Period Ending 31 July 1970, RCL CENCR-65 (12) (U)

Infantry battalions conducted ten days of training on a rotational basis. A separate program for recreational stand down was conducted, allowing infantry battalions a three-day recreational period at Eagle Beach, on a rotational basis. This separate program caused the time required for a complete cycle of battalion refresher training to be excessive. The system was not flexible enough to respond to operational requirements, causing several postponements of refresher training. The new system is more responsive to operational requirements because of its decreased length and the fusion of recreational and training stand downs. It allows infantry battalions to conduct refresher training every 50-60 days. This increased frequency of training periods enables more effective integration of replacements, correction of unit tactical weaknesses, and implementation of lessons learned.

(2) A ranger strike operations course was organized at the Screaming Eagle Replacement Training School to train the Ruc Dao (Black Panthers) reconnaissance Company of the 1st Inf Div (ARVN) in the use of airmobile techniques during small unit raids against selected enemy targets. The training program is eight days in duration, with subject areas in map reading and land navigation, small unit airmobile operations, patrolling, and the use of demolitions. The training program is concluded with a field exercise against a target in the division reconnaissance zone, selected from division intelligence sources. Instruction is conducted by SERTS cadre; a special cadre team composed of one officer and four enlisted men from COMPANY L (Ranger), 75th Inf; and specialized instruction presented by the 56th Engr Bn, the 326th Med Bn, and the G2 imagery interpretation section. Interpreters are provided by the 1st Inf Div (ARVN). The cadre team from Co L (Ranger), 75th Inf accompanies the platoon in all training, to include the field exercise. During the period of this report, three platoons completed the training, and an additional three platoons were scheduled to receive the training during the month of August.

(3) The division continued its intensified training program in the populated lowlands with one dedicated battalion and a varying number of mobile training teams. The dedicated battalion is assigned the mission of conducting operations in Phu Loc District, employing 100 percent of its assets and resources in pacification and development and upgrading the combat effectiveness of territorial forces. The district has had a long record of Viet Cong Infrastructure (VCI) incidents. The battalion assists the district chief in all aspects of his administration, training, and operations. To accomplish this mission, the battalion headquarters is collocated with the district headquarters, and elements of the battalion conduct joint operations with Regional Force, Popular Force, and Peoples Self Defense Force units, down to and including squad level. All operations are integrated with those of the district forces. In coordination with MACV mobile advisory teams (MAT) and sector

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SUBJEC.1 Operational Report - Lessons Learned, 101st Airborne Division
(Airmobile), Period Ending 31 July 1970, RCS USFOR-65 (F2) (U)

officials, RF and PF units are rotated to Phu Loc District to receive training with the dedicated battalion. On-the-job training is provided by the dedicated battalion through coordination with the district chief and district senior advisor. Training is tailored to the specific requirements of the unit being trained and is conducted primarily with equipment on hand and available to the unit being trained. In addition to the dedicated battalion, mobile training teams are provided by elements of the 2d Brigade to train and assist RF, FF, and PSDF forces throughout the lowland area. From 20 to 22 mobile training teams (MIT) were provided during the reporting period to assist territorial force commanders in the conduct of combat/security operations and training as required. The concept of employment of MITs was changed on 19 May 1970 at the request of CVN officials. The primary role of the MIT had been to provide formal training. This has been changed to the technique of on-the-spot corrections during the conduct of operations as the primary instructional vehicle. Formal classes are presented only upon request of and for specific instruction desired by CVN officials. Three types of MITs are employed. District (subsector) teams are organized to assist the district staff in improving training and operational effectiveness of FF platoons and PSDF in the district. Three of these teams were deployed as of 31 July 1970. Regional Force group teams are organized to maintain liaison between RF group headquarters and US battalions. They assist the RF group commander and staff in improving the operational effectiveness of the staff and assigned companies. Emphasis is placed on MIT participation with RF companies on actual operations. Seven of these teams were deployed as of 31 July 1970. Separate regional force company teams are organized to improve the operational effectiveness of the separate RF companies by assisting and advising the RF company commander in the planning and conduct of all combat/security operations. Emphasis is placed on MIT participation during the conduct of operations. Twelve separate company teams were deployed as of the end of this reporting period. All MITs operate in close coordination with the district chief and district senior advisor to identify weaknesses and take corrective action in an effort to upgrade the combat effectiveness of the territorial forces. A fixed, rigid program is avoided, and formal training is tailored to correct specific weaknesses of units. It is presented on a level commensurate with the skills required by the unit to perform its mission. During the three months of the reporting period, MITs conducted training for one RF company group, 25 separate RF companies, 20 PF platoons, and 844 members of the PSDF. They also participated in seven RF group operations, 99 company-size operations, 109 platoon-size operations, and 203 squad-size operations. This program of intensified training in the populated lowlands of the division area of operation has been extremely successful. It has substantially improved the capability of local forces and, more importantly, it has established a cadre that can continue its own development.

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SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RGS CSFOR-65 (R2) (U)

(4) The 101st Avn Gp (Abtl) conducted classes on pathfinder operations from 4 to 15 May and from 25 May to 5 June. A total of 30 members of the 1st Inf Div (ARVN) received this training. On 22 and 23 May, a training team from the 101st Airborne Division Support Command (Abtl) conducted classes on helicopter load preparation for 106 members of the 48th ARVN Artillery Battalion at Dong Ha. Instruction included care, maintenance, and capabilities of air items and general sling load preparation procedures for artillery units. The 101st Airborne Division Artillery (Abtl) provided four separate teams consisting of one officer and one NCO to train artillery units of the 1st Inf Div (ARVN) in fire direction and firing battery procedures and techniques. Each unit received two weeks of training, and a total of 14 ARVN artillery batteries received this instruction.

(5) During the reporting period, a readiness report was formulated for Regional Force (RF), Popular Force (PF), and Peoples' Self Defense Force (PSDF) elements. Data for the report are collected from Territorial Forces Evaluation System (TFES) reports, PSDF status reports, and weekly MTT reports. The readiness report provides a concise and comprehensive evaluation of the readiness level of four major areas of development - personnel, equipment, training, and operational proficiency. Reports are prepared each month. The first two monthly reports were completed during this reporting period. Initial indications are that the report will provide an effective means of evaluating the development of territorial force units and will serve as a useful management tool for the deployment of divisional MTT resources.

c. (C) Chemical.

(1) General. The division chemical section, with operational control of the 20th Chemical Detachment (CBRC) and the 10th Chemical Platoon (DS), performed a variety of chemical missions in support of division operations during the reporting period. A discussion of each type mission follows.

(a) Airborne Personnel Detector (APD) Operations. The Airborne Personnel Detector continued to be employed as an intelligence gathering device to supplement and/or confirm other intelligence concerning enemy locations and activity. During April, all APD missions were conducted by the 2d Squadron (Airmobile), 17th Cavalry. Beginning in May, missions were performed by the 1st and 3d Brigades as well as by the 2d Sqdn (Abtl), 17th Cav. A total of 128 missions were conducted during the reporting period. APD reading indicated several areas where enemy activity had significantly increased, assisting the ability of division units to engage the enemy during his incursions into forward base areas. Routes of infiltration were engaged with artillery and air strikes.

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AYDOL-XC

SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCG CCFUW65 (R2) (U)

(b) Aerial Flame Operations. Aerial flame missions were conducted in areas believed to be booby trapped, to clear fields of fire around fire support bases, to clear and expand landing zones, and to destroy suspected enemy positions and cache sites. Both CH47 and UH1H aircraft were used in flame drop operations. A total of 52 flame missions was conducted during the period. As the weather in the division AO improved and division units moved deep into the canopy, several new forward fire support bases were constructed and several abandoned bases reoccupied. Extensive clearing operations were conducted around perimeters to facilitate visual observation and to provide fields of fire. Bulk flame drops, using eight to ten 55-gallon drums of thickened fuel, were conducted utilising an external sling load from a CH47 helicopter. In April and May, a total of 1998 drums of thickened fuel was dropped in 240 sorties during clearing operations. The principal fire support bases cleared were KIMCOLD, GRANITE, GLADIATOR, MAKKASAN, FALCON, VEGHEL, STRIKE, KATHKYN, BICK, and SHOCK. A major flame project was initiated and completed for the 2d ROK Marine Brigade in an area 20 kilometers south of Da Nang during the months of April and May. The project was conducted to assist in clearing a booby trapped area, which had been chosen for resettlement by Vietnamese civilians, and to provide technical assistance and training for the ROK forces in the development of their own flame programs. During the operation, 870 drums of thickened fuel were dropped in 87 aircraft sorties. A total of 13 secondary explosions was observed during the drops. The division provided a CH47 helicopter and necessary personnel for the execution of the mission. Division chemical officers explained concepts of employment and operational techniques in briefings at the ROK brigade headquarters. ROK forces assisted in the operation by marking target areas and rigging drop nets. As a result of training provided by the division, ROK forces commenced their own flame drop program in coordination with the 1st Marine Division. During the month of May, three heavily booby trapped landing zones were cleared using flame fuel. As a result of the six sorties conducted, 27 large secondary explosions occurred.

(c) CS Operations. Bulk CS2 missions were conducted, using both organic CH47 helicopters and Air Force high performance aircraft on routes of infiltration in the division reconnaissance zone. The drops and bombings were targeted to restrict heavy vehicular traffic, thus interdicting enemy tactical and logistic advances into forward base areas. Loads consisting of 55-gallon drums of CS2, rigged with the XM925 impact fuze and burster system, were dropped from CH47 aircraft from an approximate height of 4000 feet. Bulk CS2 missions, using BLU52 bombs, were conducted by Air Force high performance aircraft. These bombs were directed against roads leading into the northern A SHAU and the DA KRONG River Valley. Tactical CS missions were conducted

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AV-CC

SUBJECT: Operational Report .. Lessons Learned, 101st Airborne Division
(Airmobi's), Period E (ing 31 July 1970, RCS CSFOR-65 (X2) (U)

against suspected enemy locations, during combat assaults, in support of artillery raids, during search operations, and in support of combined US/ARVN operations. Tactical CS was employed in support of a 1st Brigade artillery and air raid covering three distinct target areas. UH-1H helicopters delivered CS on all targets. Two aircraft carried ten E158 CS canisters, while a third dropped 16 to 20 rocket tube assemblies, each containing 20 M743 CS grenades. Canisters were dropped from a height of 1000 feet, while grenades were delivered at low level. A total of 60 canisters and 710 grenades were dropped during the operation.

A tactical CS mission was conducted to support a search operation of the 2 Sqdn (Abn), 17th Cav. Four E158 CS canisters were dropped on target areas along the sweep route. Weather conditions did not adversely affect the retention of CS in the canopy vegetation. No ill effects were experienced by friendly ground troops.

A tactical CS mission employing 37 E158 canisters was conducted in support of a combined US/ARVN operation in the vicinity of FS/OB HENDERSON. To support troop insertions, munitions were employed on enemy mortar and automatic weapons positions directed against the proposed landing zones. Throughout the operation, tactical CS was employed on nine separate occasions on suspected enemy locations and during combat assaults without ill effects to friendly troops.

(d) Aerial Defoliation Operations. Diesel defoliation missions were conducted around fire support bases in the piedmont area, where herbicides, such as Agent Blue, could not be used due to the proximity of friendly crops. The diesel spray retarded the growth of the foliage and assisted in burning. Targets included areas adjacent to CAMP EAGLE, CAMP EVANS, and FS/OB BIRMINGHAM to clear fields of fire.

Herbicide defoliation missions, using Agent Blue, to reduce foliage were executed against major NVA infiltration routes west of FS/OB RIPCORD. Areas around FS/OB BASTOGNE and VEGHEL, and Route 547 connecting them, were sprayed to create and preserve fields of fire. Plans were formulated to conduct increased herbicide operations around permanent fire support bases with the approach of the dry season.

(e) Smoke Operations. Smoke operations in support of combat assaults were conducted by the 158th Aviation Battalion (Abn). The XM52 Integral Smoke Generator was used to create smoke screens which effectively obscured enemy observation, limiting his capability to concentrate well aimed fire on assaulting troops and aircraft.

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The M6A2 smoke pot was used by the 1st Brigade in conjunction with psychological operations. A column of smoke, lasting for a five hour period, was created and used as a reference point for enemy soldiers desiring to rally.

(2) Statistics: The following statistics pertain to chemical operations during the reporting period:

TYPE MISSION	NUMBER OF MISSIONS	AMOUNT
Airborne Personnel Detector	128	N/A
Flame Drop	52	1,969 drums
Tactical CS	25	459 E158R2 and 80 H7A3 grenades
Bulk CS	16	56 drums and 76 BLU 52
Fougasse Emplacement	N/A	131 positions
Horch Flare Emplacement	N/A	18 positions
Aerial Defoliation (Herbicide)	17	4,310 gallons
Aerial Defoliation (Diesel)	1	550 gallons
Protective Masks Inspected	N/A	4,265 masks
Bunker Seeding	N/A	105 JEEPOs

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d. (C) Intelligence.

(1) Enemy Situation

(a) At the beginning of the reporting period, enemy units were located as follows:

1. In Military Region Tri-Thien-Hue (MRTTH), local force companies were operating in their traditional areas of operation - Phong Dien Special Action Unit (PDSAU, formerly C113) vicinity Phong Dien (D), Quang Dien Special Action Unit (QDSAU, formerly C114), vicinity YD4724, C115 vicinity YD6614, and C116 vicinity YD8304. The Phu Vang Special Action Unit (PVSAU) was unlocated. The Hue City Reconnaissance Battalion (HCRB) was located vicinity YD6514. The Phu Loc Special Action Unit (PLSAU, formerly the Phu Loc Armed Battalion) and the 4th NVA Regiment continued to operate in the Phu Loc mountains. The 4th NVA regiment headquarters was located vicinity YC9781 with the K4C Battalion vicinity ZC0193, and the K4B Battalion vicinity ZC1896. The 5th NVA Regiment was deployed south and southwest of Hue, with the headquarters vicinity YC5282; the 804th Infantry Battalion vicinity YC8195, the 810th Infantry Battalion vicinity YD571, the 439th Infantry Battalion vicinity YC6297, the K32 Rocket Artillery Battalion vicinity YC7299, the Chi Thua I Sapper Battalion vicinity YC6995, and the Chi Thua II Sapper Battalion vicinity YC7290. The 6th NVA Regiment was deployed in the canopy south of Phong Dien (D), with the regimental headquarters vicinity YD3216; the 800th Infantry Battalion vicinity YD2922; the 802d Infantry Battalion vicinity YD2010; the 806th Infantry Battalion vicinity YD4622; the K35 Rocket Artillery Battalion vicinity YD3620, and the K12 Sapper Battalion vicinity YD3423. The 29th and 803d NVA Regiments of the 324B Division were operating east of the A Shau Valley just south and southeast of the 6th NVA Regiment. The 29th NVA regiment headquarters was located vicinity YD4405, the 7th Infantry Battalion YD5307, the 8th Infantry Battalion vicinity YD4705, and the 9th Infantry Battalion vicinity YD4907. The 803d NVA regiment headquarters was located vicinity YD3415, with the 1st Infantry Battalion vicinity YD3616, and 2d Infantry Battalion vicinity YD4412, and the 3d Infantry Battalion vicinity YD3310. The headquarters of the 324B Division was in Base Area 611 with MRTTH headquarters. The 675th NVA Artillery Regiment remained in Base Area 611. The 11A Reconnaissance Battalion headquarters was located vicinity YC3298. The 7th Front was located in the vicinity of former Base Area 101, with headquarters vicinity YD1931, the 808th Infantry

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Battalion vicinity YD2333, the 814th Infantry Battalion vicinity YD3737, the K34 Rocket Artillery Battalion vicinity YD2636, the K10 Sapper Battalion vicinity YD3133, the K11 Sapper Battalion vicinity YD2842, and the K12 Transportation Battalion vicinity YD1327. The 812th NVA Regiment was engaged in logistic activity in support of the 7th Front, with its headquarters vicinity YD2025, the 4th Infantry Battalion vicinity YD2428, the 5th Infantry Battalion vicinity YD0023, and the 6th Infantry Battalion vicinity YD2025.

2 In the B5 (DMZ) Front, at the beginning of the reporting period, there were ten units operating in the DMZ and in western Quang Tri (P). The 52d NVA Regiment, 320th Division remained in the northwestern corner of Quang Tri (P). The 246th NVA Regiment was operating in the western portion of the central DMZ, with headquarters vicinity XD9371, the 1st Infantry Battalion vicinity XD9455, the 2d Infantry Battalion vicinity XD8363, and the 3d Infantry Battalion vicinity XD9461. The headquarters of the 27th NVA Regiment was located vicinity YD0668 with the 1st Infantry Battalion vicinity YD0563, the 2d Infantry Battalion vicinity YD0570, and the 3d Infantry Battalion vicinity YD0459. The 75th Anti-Aircraft Battalion was operating vicinity XD9561. The 84th and 164th NVA Artillery Regiments were alternating fire support responsibility in the central DMZ area. The headquarters of the 84th NVA Artillery Regiment was located vicinity XD9874, and the headquarters of the 164th NVA Artillery Regiment was located vicinity YD1090. The 126th Naval Sapper Regiment was located vicinity YD2189. The newly arrived 66th NVA regiment headquarters was located vicinity YD0335, with the 7th Infantry Battalion vicinity XD9841, the 8th Infantry Battalion vicinity YD0138, and the 9th Infantry Battalion located in the Ba Long Valley. Forward elements of the 304th Division were operating south of the Khe Sanh Plateau vicinity XD8438. Elements of the 27th Battalion, 31st NVA Regiment were operating in the Quang Tri (P) lowlands, with the battalion and regimental headquarters in North Vietnam, vicinity YD1185. The 270th NVA Regiment remained located north of the Eastern DMZ vicinity YD1986. The 33d Sapper Battalion, B5 Front was operating in the vicinity of XD9939.

(b) May 1970

1 There was a significant increase in activity by NVA units in Military Region Tri-Thien-Hue (MRTTH) during the month. The 5th and 6th Independent Regiments were responsible for attacks by fire on Allied installations in the lowlands. Enemy activity and PW reports confirmed the eastward deployment of the 812th NVA Regiment. The mission of the 812th was to

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protect rear areas and support 7th Front and 6th Regiment incursions into the populated lowlands of Hai Lang and Phong Dien Districts. A PW, captured on 4 May, listed as a penetration agent for MRTTH, stated that the 7th Front had the mission of reconnaissance and attack on the boundary areas of Hai Lang and Trieu Phong Districts, Quang Tri (P), in order to demonstrate the strength of the VC/NVA movement to villagers in these areas. 7th Front incursions into Hai Lang (D) later in the month confirmed this mission. A PW report on 4 May indicated that elements of the 6th Regiment had linked up with the 803d NVA Regiment in order to coordinate rear service activities vicinity FS/OB RIPCORD and Co Pung. US forces operating vicinity FS/OB GRANITE and FS/OB MAUREEN encountered heavy 12.7mm, mortar, RPG, and small arms fire during the month of May. The discovery of 60mm and 82mm CS mortar rounds at YD4411 (1 KM E of FS/OB MAUREEN) and the use of chemical delay fused mortar rounds at FS/OB KATHRYN indicated that the 803d NVA Regiment received logistic priority along Route T7 during April and early May.

2 DMZ activity during the month of May was characterized by attacks by fire in the FS/OB FULLER/CAMP CARROLL area. The presence of the 66th Regiment, 304th NVA Division, in the Da Krong River Valley increased the enemy threat in central Quang Tri (P). The 66th Regiment launched two sapper attacks on Allied firebases during the month, resulting in heavy enemy losses. The 66th Regiment was the target of a B52 strike early in the month, resulting in 97 NVA KIA. Aerial surveillance in the 66th NVA Regiment area of operations indicated heavy logistic activity in the vicinity of the Laotian Salient.

(c) June 1970

1 In Military Region Tri-Thien-Hue, the 7th Front remained inactive throughout the month, possibly recovering from losses suffered in late May following incursions into Hai Lang (D). The 812th, 803d, and 29th NVA Regiments continued to occupy well established mountain base areas east of the Da Krong and A Shau Valleys. The mission of these units was to lure US and ARVN forces deep into the canopy, leaving the coastal lowlands exposed to infiltration by the 7th Front in southwestern Quang Tri (P) and by the 4th, 5th, and 6th Independent Regiments in Thua Thien (P). The 812th NVA Regiment continued to provide logistic support to the 7th Front and to support attacks against ARVN firebases in the central canopy. The 29th NVA Regiment

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shifted its area of operation west to avoid detection and destruction by Allied forces applying pressure from the east. The 803d NVA Regiment showed signs of increased offensive activity and attack preparations in the FS/OB RIPCORD and FS/OB MAUREEN areas. The 4th NVA Regiment launched a coordinated attack against five allied installations in Phu Loc District on 10 June and then returned to its normal low level of activity for the remainder of the month. The 5th and 6th NVA Regiments increased the number of attacks by fire against Allied forces using 60mm and 82mm mortars and 122mm rockets.

2 Enemy DMZ activity during the month of June was at its lowest level since prior to April 1970. Enemy forces in the central DMZ reduced their attacks by fire in the FS/OB FULLER/CAMP CARROLL area in order to resupply and reposition in preparation for future offensive actions in July or August. During the month, there was a significant increase in activity in western Quang Tri (P) and in the Laotian Salient. There were indications that the 9th NVA Regiment, 304th Division was infiltrating into the area to join the 66th NVA Regiment. On 21 June, a map overlay was captured in the Vietnamese Salient by the HAC BAO Company, 1st Infantry Division (ARVN), showing telephone lines from forward elements of the 304th Division, located in the Laotian Salient, to the 7th Front located to the northeast.

(d) July 1970

(1) In Military Region Tri-Thien-Hue, the majority of enemy initiated activity was recorded in the FS/OB RIPCORD area, where elements of the 6th and 803d NVA Regiments had begun to mass. On 17 July, the firebase received 120mm mortar fire. This was the first use of that weapon in the MRTTH area of operation in over 18 months. The enemy continued to intensify his mortar and ground attacks against US units operating vicinity FS/OB RIPCORD until 23 July, when the firebase was closed. There was a significant decrease in 29th NVA Regiment activity, with indications that the unit had withdrawn west. At the beginning of the month, elements of the 7th Front tried again to enter eastern Quang Tri (P) lowlands, resulting in 135 NVA KIA and 17 PWs captured. Enemy units were identified as the 808th Battalion, 7th Front, reinforced by the 1st Company, K6 Battalion, 812th NVA Regiment and a signal squad from the K4 Battalion, 812th Regiment. Activity in the 4th and 5th NVA Regiment areas of operation remained at a low level, except for attacks by fire against Allied installations in the lowlands in early July.

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(2) In the B5 (DMZ) Front, enemy initiated activity was relatively light in July, although movement throughout the DMZ continued at a high level. The number of attacks by fire declined from 67 in June to 45 in July. During the latter part of July, in the central DMZ, the 84th and 166th Artillery Regiments resumed attacks by fire on FS/OB FULLER and C-2 Combat Base. Ground contacts decreased by approximately 50%. The most significant contact during the month occurred in western Quang Tri (P) on 8 July, when Allied forces surprised elements of the 9th NVA Regiment, 304th NVA Division, attempting to infiltrate into SVN. Air Cavalry elements and troops, supported by helicopter gunships, engaged and killed 139 NVA in the Khe Sanh plains and captured four PWs. The PWs stated that the 1st and 2d Battalions of the 9th Regiment were to control the region in the vicinity of Khe Sanh and south of the Ba Long Valley. They also stated that elements of the 2d Battalion, 246th NVA Regiment were operating in western Quang Tri (P). The presence of the 9th and 66th Regiments, 304th NVA Division confirmed the enemy's determination to protect his lines of communication and base areas which had been established in that area. This build-up of NVA forces in western Quang Tri (P) also threatened Allied installations and population centers north and northeast of the Ba Long Valley.

(e) At the end of the reporting period, enemy units were relocated as follows:

1. In Military Region Tri-Thien-Hue (MRTTH), Local force companies relocated were the Phong Dien Special Action Unit, vicinity YD3528, the Quang Dien Special Action Unit, vicinity YD5122, and the Phu Vang Special Action Unit, vicinity YC9398. The 5th NVA regiment headquarters was relocated vicinity YC6382, with the 804th Infantry Battalion vicinity YC9398. The 6th NVA Regiment, while still deployed in the canopy south of the Phong Dien (D) piedmont, concentrated more around the FS/OB RIPCORD area. Battalions of the 6th Regiment relocated were the 800th Infantry Battalion vicinity YD3725, the 802d Infantry Battalion vicinity YD3018, the 806th Infantry Battalion vicinity YD4224, the K35 Rocket Artillery Battalion vicinity YD3620, and the K12 Sapper Battalion vicinity YD3423. The 29th and 803d NVA Regiments of the 324B Division were operating east of the A Shau Valley just south and southeast of the 6th NVA Regiment. The 29th NVA regiment headquarters was located vicinity YD4306, the 7th Infantry Battalion vicinity YD4906, the 8th Infantry Battalion vicinity YD4807, and the 9th Infantry Battalion vicinity YD4208. In late July, an unidentified transportation battalion was reported to be operating vicinity YD2914. The 7th Front was still located in the vicinity of former Base Area 101, after

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having made several costly incursions into the lowlands during the reporting period. The battalions relocated in the 7th Front were the 303rd Infantry Battalion vicinity YD3339, the 314th Infantry Battalion vicinity YD2540, the K10 Sapper Battalion vicinity YD3534, the K11 Sapper Battalion vicinity YD2546. The 812th NVA Regiment continued logistical and offensive activity in support of the 7th Front. The 4th Infantry Battalion was relocated vicinity YD2834, the 5th Infantry Battalion vicinity YD1819, and the 6th Infantry Battalion vicinity YD2730. The K19B (AKA K16th) Sapper Battalion, 104th NVA Division, under the operational control of the 812th Regiment, was located vicinity YD1927.

2 In the B5 Front, at the end of the reporting period, there were eleven units operating in the DMZ and western Quang Tri (P) areas. The 52d NVA Regiment, 320th Division is no longer carried in the northwestern corner of Quang Tri (P); it is most likely located in North Vietnam. At the end of the reporting period, the 2d Infantry Battalion, 246th NVA Regiment was located vicinity XD7944. Forward elements of the 304th NVA Division moved farther south, vicinity XD9922, and were reinforced by the newly arrived 9th NVA Regiment. The 9th NVA regiment headquarters was located vicinity XD7710, with the 1st Infantry Battalion located vicinity XD7740, the 2d Infantry Battalion vicinity XD8236, and the 3d Infantry Battalion near the western Quang Tri (P) border west of Khe Sanh. The undersrength 66th NVA Regiment, 306th Division was operating in western Quang Tri (P), with the headquarters element vicinity XD9533, the 7th Infantry Battalion vicinity XD8932, the 8th Infantry Battalion vicinity XD8930, and the 9th Infantry Battalion vicinity YD0535. The 270th NVA Regiment remained located north of the eastern DMZ, vicinity YD1986, with its 4th Battalion periodically making incursions south of the DMZ.

(2) Viet Cong Infrastructure (VCI) Activities in Thua Thien (P)

(a) The number of VC/VCI related incidents decreased slightly from 47 in April to 42 in May. Kidnapping, sabotage, and rice collections remained at the same level as reported during April, while propaganda activity decreased sharply. Terrorism and assassinations increased during May. Enemy attacks by fire directed against ARVN and GVN installations in the lowlands increased to five attacks during May, compared to two in April. That activity was believed to have been politically rather than militarily motivated, due to the numerous Vietnamese holidays in May. NVA infiltration into the lowlands increased from three incursions in April to six in May. All of these incidents occurred in Phu Loc (D), and can be attributed to elements of the 4th and 5th NVA Regiments. This increase possibly means that NVA operations have been

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extended into the lowlands to assist VC/VCI forces in disrupting the GVN pacification and development program. VC/VCI activity in Phong Dien (D) intensified during May, with increases in terrorism, sabotage, and kidnapping. Further evidence confirmed the reorganization of the C113 Local Force Company into local guerrilla units operating throughout Phong Dien (D). During the month of May 1970, a total of twenty-four VCI cadre was eliminated by Allied operations in Thua Thien (P). Of this number, nine were considered significant by current MACV standards.

(b) The number of VC/VCI related incidents decreased from 42 in May to 36 in June. Of the total incidents, 67% involved sabotage, kidnapping, assassination, or terrorist activities. The overall decrease of VC/VCI related incidents can be attributed to a lull in enemy activity from 19 to 25 June, when no incidents were reported. Enemy activity resumed on 26 June and continued through the end of the month. During June, the NVA launched a series of attacks by fire against Allied installations in the lowlands. The enemy employed 60mm mortars, 82mm mortars, and 122mm rockets during these attacks. US installations shelled during June include CAMP EVANS (4, 8, and 26 June), CAMP EAGLE (twice on 26 June), FS/OB LOS BANOS (10 June), and FS/OB TOMAHAWK (10 June). FS/OB TOMAHAWK was the only installation in which the standoff attack was immediately followed by a ground assault. FS/OB ROY, an ARVN installation, was also attacked by fire on 10 June. GVN installations shelled during June include the Phy Trach Bridge (26 June), Phong Dien (D) HQ (4 and 26 June), Phu Loc (D) HQ (10 June), and Nuoc Ngo Bridge (10 June). It is important to note that the majority of the attacks by fire occurred on 10 and 26 June. It is possible that the 4th, 5th, and 6th NVA Regiments increased their offensive operations in the populated areas in order to take advantage of US and ARVN presence in the western campy. In Phu Vang (D), on 29 June, two election officials were attacked by three VC/VCI, resulting in one election official killed, one election official wounded, and one ARVN soldier killed. The Primary VCI objective was to show the populace what will become of those who actively participate in any activity which would enhance GVN control of the populace. During the month of June, a total of 31 VCI cadre was eliminated by GVN and Allied operations within Thua Thien (P). Of this number, eleven were considered significant under current MACV standards.

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(c) The number of VC/VCI related incidents increased from 36 in June to 48 in July. Of the total incidents, 50% involved sabotage, kidnapping, assassination, or terrorist incidents. The overall increase of VC/VCI related activity can be attributed to an increase of enemy activity in Phong Dien and Nam Hoa Districts. An increase in rice collections was noted throughout the lowlands, indicating that enemy terrorist activity was hampered by the need for foodstuffs. VC/VCI activity in Phong Dien (D) showed increases in acts of terrorism, kidnappings, assassinations, and rice collection. The majority of terrorist incidents involved attacks by fire on GVN installations and hamlets. A marked increase in VC/VCI related incidents was noted in the resettlement areas of northern Phong Dien (D). These were the first significant incidents in the area since its founding in January 1970. During July, enemy forces operating in the lowlands launched a series of attacks by fire against Allied, ARVN, and GVN installations. Allied bases shelled in July include CAMP EAGLE (7 July), CAMP EVANS (26, 28, and 29 July), FS/OB T-BONE (22 and 28 July), and the VANH TRANH Training Center (5 July). Significantly, two of the attacks by fire on CAMP EVANS occurred during daylight hours. There were seven reported attacks by fire against GVN installations during July, compared to six in June. Attacks directed against US installations decreased from seven in June to four in July. During the month of July, a total of 24 VCI cadre was eliminated by GVN and Allied operations within Thua Thien (P). Of this number, eight were considered significant under MACV standards. The following table compares the VC/VCI incidents for May (left), June (center), and July (right) by district:

District	Fin/Econ	Prop	Sab	Intel	Kid	Assas	Terror	Total
Phong Dien	0/0/1	0/1/1	4/3/2	0/0/0	1/1/2	0/0/1	3/4/5	8/9/12
Huong Dien	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Quang Dien	0/0/0	0/0/0	0/1/0	0/1/0	0/0/0	0/0/0	0/0/1	0/2/1
Huong Tra	3/0/0	1/2/2	0/3/0	0/0/0	2/0/1	0/1/0	1/1/1	7/7/4
Huong Thuy	0/0/1	1/1/0	0/0/0	0/0/0	1/0/0	1/0/0	1/0/1	4/1/2
Phu Vang	0/0/0	0/0/1	0/0/0	0/0/0	0/0/0	0/1/0	0/0/0	0/1/1
Phu Thu	0/0/0	1/1/0	0/0/0	0/0/0	0/0/0	3/1/1	4/1/0	8/3/1
Phu Loc	6/6/6	1/0/1	5/2/1	0/0/0	0/2/0	2/0/0	1/2/1	15/12/9
Vinh Loc	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/1	0/0/0	0/0/1
Nam Hoa	0/0/5	0/0/0	0/0/0	0/0/0	0/0/0	0/1/0	0/0/1	0/1/6
Hue	0/0/0	0/0/1	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/1
TOTAL	9/6/13	4/5/6	9/9/3	0/1/0	4/3/3	6/4/3	10/8/10	42/36/38

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(3) G2 Air Operations.

(a) Prior to 1 May, all photo and IR missions were passed to XXIV Corps for processing. The direct support concept was introduced on 1 May. All missions which Mocawk aircraft were capable of flying were assigned by the 101st Abn Div (Ambl) directly to the 131st Surveillance Airplane Company (SAC). This proved to be more effective and enabled the division to establish priorities which resulted in a more responsive surveillance plan.

(b) The 01-D sorties allotted from the 220th Reconnaissance Airplane Company (RAC) were used in a new capacity. The aircraft were tasked to fly night surveillance around fire support bases which had received indirect fire during the hours of darkness. By sighting flashes and directing air-strikes and artillery these night surveillance missions proved to be effective in reducing the intensity of enemy indirect fire.

(4) G2 Ground Surveillance Operations.

(a) On 1 June, the Dart I sensor readout station became operational. After a two week evaluation period, the responsibility for the readout and interpretation of sensors in the division reconnaissance zone passed from the BATCAT (EC-121) aircraft to the Dart I facility at Quang Tri Combat Base. Reports of sensor activations are passed immediately to the Ground Surveillance Section, 101st Abn Div (Ambl) and 1st Bde, 5th Inf Div (Mech) via direct telephonic communication for quick reaction and intelligence use.

(b) During the reporting period, the number of ground monitor sites increased to eleven with establishment of sites at FS/OB RIPCORD (YD3419), FS/OB BRICK (YC8399), FS/OB KATHRYN (YD4711), FS/OB VEGHEL (YD5503), and FS/OB RAKKASAN (YD4919). These additional sites reflect the offensive posture of ground tactical units in their operations to the south and west against elements of the 6th, 29th, and 803d NVA Regiments. At the end of the reporting period, two of these sites, FS/OB RIPCORD and BRICK, were closed, with relocations planned to support future operations.

(c) During the month of June, sensor-detected activity increased in the division reconnaissance zone to over 100 activations per week. A high of 190 was reached for the period 21-27 June. The major increases in sensor-detected activity occurred along OL-9, Route 616, and Route 9222. Confirmation of increased enemy activity in these areas, by visual reconnaissance, led to the employment of aerial bombardment and insertion of ground units.

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(d) During the reporting period, the number of operational RF sensor strings in the division area of operation, increased from 76 to a new high of 147, enabling the division to meet its minimum goal of one set per rifle/recon platoon. Operational USD/W1s increased from 42 to 63. Forty-two Balanced Pressure systems (BPS) and seven Infrared Intrusion Detectors (IIDs) were added to the inventory for base defense of Camp Hochmuth (Phu Bai Combat Base).

(5) Counter Intelligence Section

(a) The CI Section, 101st Military Intelligence Company, engaged in a variety of activities in support of its primary mission of safeguarding the 101st Abn Div (Airmobile) from enemy sabotage, espionage, and subversion. IG and CI inspections of personnel, documents, and physical security programs were conducted to detect and eliminate security hazards. Technical support, in the form of fingerprinting, safe combination changes, recovery of lost combinations, and repair of security containers, was continuously provided both by division and supporting CI teams.

(b) Personnel security investigations, complaint type investigations, and limited investigations to insure the validity of security clearances were conducted in the division. Clearances for 1086 replacements were validated; 471 SECRET clearances were granted; 3568 local file checks were conducted; and 431 intelligence record checks were forwarded to higher headquarters by the personnel security investigations (PSI) section. Additionally, 115 BI and NAC requests were processed.

(c) The base camp security program was enhanced by the establishment of liaison with the Industrial Relations Division, Phu Bai. The intent of this liaison is to increase the number and effectiveness of informants. During the reporting period, the CI section recruited 30 new informants.

(6) G2 Plans/Order of Battle Section. The G2 plans/order of battle section continued to monitor and record the enemy situation throughout northern I Military Region, with increased emphasis in disseminating collected intelligence. The order of battle handbook was updated during the reporting period to maintain an accurate description of enemy units operating in Quang

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Tri and Thua Thien Provinces. The division intelligence collection plan was published on 1 June. The collection plan contains essential elements of information (EEI) needed on the enemy mission, organization and area of operation. Wide distribution of the plan was made to higher, adjacent, subordinate, and supporting organizations with an intelligence collection capability.

(7) Interrogation Section, 101st Military Intelligence Company. During the reporting period, the interrogation section, 101st Military Intelligence Company (Divisional) processed 13 prisoners of war (12 NVA, one VC), three Hoi Chanh (NVA), and 124 batches of captured enemy documents.

(8) Weather. The Air Force weather team, 5th Weather Squadron, continued to provide meteorological support for the 101st Abn Div (Ambi). The weather team provides climatological information, weather forecasts for individual flights by Army aviators, current weather reports for field commanders, weather summaries used in the evaluation of past operations, and daily weather advice and interpretation for the commanding general and his staff.

(a) May 1970

1 During May, the total rainfall was normal, approximately equal to the mean average of 4.0 inches. Due to the sporadic nature of precipitation during the month, some areas received more rain than the mean. The total rainfall was 4.04 inches and occurred on 12 days, twice the normal frequency. Thunderstorms occurred over the mountains on 20 days. Low cloudiness occurred on more days than normal. Ceilings below 1500 feet were observed on 8 days. No ceilings less than 300 feet were observed. No fog occurred. The average high temperature was 94°F, and the average low temperature was 77°F, both of which are 2°F warmer than the averages expected for May.

2 May afforded the first full month of good weather throughout the division AO. Airmobile operations were hampered on five days during May (14-16 and 20-21 May), and one B52 air sortie was cancelled on 13 May.

(b) June 1970

1 During June, the total rainfall was 4.2 inches, 1.2 inches above the average. Precipitation fell on 11 days, twice the normal frequency.

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Thunderstorms occurred on eight days over the coastal plains and on 22 days over the mountains. Ceilings below 1500 feet were observed on three days. No ceilings of less than 300 feet were reported. Fog was observed on two days. The average high temperature was 95°F, and the average low temperature was 79°F, both of which are 2°F warmer than the average high/low for June.

2 Airmobile operations during June were relatively unrestricted except during periodic afternoon thunderstorms. Tactical air moves were cancelled on five days (4, 12, 13, 14, and 18 June) three of which (13, 14, and 18 June) were significant.

(c) July 1970

1 The average rainfall over the coastal plain was 2.50 inches, which was 0.8 less than expected for the period. Thunderstorm activity was normal, with six thunderstorm days recorded over the coastal plain and 12 days over the mountains. No ceilings of less than 1500 feet were recorded, and no fog days occurred in the coastal plain. Maximum temperatures were 4°F higher than normal, with a mean temperature of 96°F. Mean minimum temperatures remained at their seasonal average of 78°F. Turbulence and strong surface winds occurred for a period of 7 to 14 days. The conditions were most pronounced over western portions of the area of operation, where surface winds of 40 to 80 knots were recorded, and turbulence was of moderate to severe intensity.

2 Airmobile operations were unrestricted by weather during July. High winds hampered aerial activity on 11 July, but did not significantly affect operations.

(d) Precipitation Data In Inches (Coastal Lowlands).

	<u>Maximum</u>	<u>Mean</u>	<u>Minimum</u>	<u>Actual</u>
May	10.4	4.0	0.2	4.7
June	20.1	3.0	0.0	4.2
July	21.5	3.3	0.1	2.5

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6. (U) Personnel.

(1) Chaplain. During the reporting period, the division provided continuous chaplain support to all assigned and attached units. A total of 4,381 religious services was conducted with an overall attendance of 65,878. Six of the division's 24 chaplains departed during the month of July, creating a considerable personnel problem.

(2) Personnel management.

(a) During the reporting period, total division assigned strength declined from 101.4% of that authorized on 1 May to 97.3% at the end of July. Availability of 11 series MOS personnel declined by 14%, resulting in a serious depletion of line company effective strength.

(b) Prior to 1 July, the USARV reenlistment goal was placed at a monthly reenlistment rate of 0.5% of operative strength, counting only first term RA and AUS reenlistments. As of 1 July, the goal was doubled, and all reenlistments counted. At this time, a prohibition was imposed on reenlistments out of 11, 12 and 13 series MOS into non-combat MOS. The average monthly reenlistment total for the previous reporting period had been 194. May reenlistments totaled 205; June, 145; and July, under the new criteria, 64.

(3) Finance. During the reporting period, the division finance office established the 101st Mobile Finance Forward Team (MFFT) to provide full spectrum finance services to personnel located on fire support bases. The team periodically visits fire support bases, permitting personnel to benefit from services such as partial payments, allotment changes, sale of treasury checks, collection for the savings deposit program, and acceptance of pay inquiries. The team is made available to all commanders located beyond the normal service capability of the present forward finance offices.

(4) Changes in command and staff. During the reporting period the following changes in command and staff assignments occurred:

CG	MG J.J. Hennessy	succeeded MG J.M. Wright	on 25 May
ADC(O)	BG S.B. Berry	succeeded BG J.J. Hennessy	on 2 Jul
ADC(S)	COL C.E. Smith	succeeded BG J.C. Smith	on 9 Jun
2d Bde	COL W.H. Root	succeeded COL R.L. Kampe	on 15 May
3d Bde	COL B.L. Harrison	succeeded COL W.J. Bradley	on 23 Jun

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— Avn Gp	LTC(P) E.P. Davis	succeeded COL C.B. Sinclair	on 26 Jun
DISCOM	COL D.E. Grange	succeeded COL R.H. Siegrist	on 25 Jun
Div Arty	COL L.E. Surut	succeeded COL R.S. Fye	on 29 Jul
C1	LTC C.A. Hoenstine, Jr.	succeeded LTC G.D. Moore, Jr.	on 2 Jun
C3	LTC R.J. Young	succeeded LTC C.W. Dyke	on 7 Jun
C4	MAJ P. Masterson	succeeded LTC D.R. Pinney	on 26 Jul
C5	MAJ H.W. Kinnison	succeeded LTC B.B. Porter	on 17 Jul
Div Surg	LTC R.F. Day	succeeded COL J.F. Powers	on 9 Jul
FM	LTC S.J. Lobodinski	succeeded LTC R.D. Wood	on 27 May
IG	LTC T. Narvaez	succeeded LTC J.D. Martling	on 30 Jun
Fin Off	LTC W.J. Falconer	succeeded LTC W.J. McMahon	on 14 May
AG	LTC T.E. Minix	succeeded LTC H.R. Thomas	on 12 May
2-502 Inf	LTC C.J. Shay	succeeded LTC R.J. Young	on 6 May
1-501 Inf	LTC T.E. Aaron	succeeded LTC W.B. Middlemass	on 8 Jun
1-502 Inf	LTC A.E. West	succeeded LTC R.E. Deemer	on 5 May
1-506 Inf	LTC B.B. Porter	succeeded LTC H.C. Holt	on 17 Jul
2-506 Inf	LTC J.C. Eard	succeeded LTC A.C. Lucas	on 23 Jul
3-187 Inf	LTC I.C. Bland	succeeded LTC H.Y. Schandler	on 25 Jun
3-506 Inf	LTC J.D. Martling	succeeded LTC J.W. Jaggers, Jr.	on 16 Jun
2-11 Arty	LTC R.J. Burke	succeeded LTC J.L. Sites	on 2 Jun
2-320 FA	LTC A.B. Davis	succeeded LTC C.A. Hoenstine, Jr.	on 27 May
— 101 Avn	LTC W.H. Peachey	succeeded LTC T.L. Meadows	on 14 May
— 158 Avn	LTC R.J. Guard	succeeded LTC G.N. Stenahjam	on 1 Jul

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159 Avn	LTC G.F. Newton	succeeded LTC R.F. GLOVER	on 4 Jul
326 Engr	LTC C.P. Rodolph, Jr.	succeeded LTC T.M. McClelland	on 6 Jul
4-77 Arty	LTC C.L. Nowalk	succeeded LTC A.R. Pollard	on 27 Jul
5 Trans	LTC H.J. Small	succeeded LTC J.M. Hesson	on 26 May
326 Med	LTC R.E. Day	succeeded COL J.F. Powers	on 9 Jul

f. (C) Logistics.

(1) General. Logistic support for all division operations was provided through the DISCOM forward service support elements (FSSE), using the concept of area support. Throughout the period, a determined effort was made to reduce helicopter blade time whenever possible by using vehicular transportation.

(a) To more effectively support Operation CLINCH VALLEY (9-15 July), a forward refuel point was established at Hai Loc and a rear point at Quang Tri. A forward element of the 3d FSSE deployed to Quang Tri in support of two ARVN battalions, the 2d Sqdn (Abtl), 17th Cav, and the 2d Bn (Abtl), 502d Inf for the duration of the operation.

(b) In support of Operation CHISAGO PEAK/LAM SOW 363, the 11 refuel points at CAMP EVANS were expanded to 25, while an additional 11 points were established at FS/OB BIRMINGHAM. All classes of supply were drawn from the 3d FSSE at CAMP EVANS.

(c) Super contact teams continued to provide personnel and equipment maintenance services to units returning from operations for stand down. The number of company size units supported were as follows:

<u>UNIT</u>	<u>COMPLETE TEAM</u>	<u>PARTIAL TEAM</u>	<u>TOTAL</u>
1st Bdes:			
1-327	3	1	4
2-327	2	1	3
2-502	6	4	10
Total	11	6	17
2d Bdes:			
1-501	2	1	3
1-502	8	4	12
2-501	3	1	4
Total	13	6	19

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UNIT	COMPLETE TEAM	PARTIAL TEAM	TOTAL
3d Bde:			
2-506	7	5	12
1-506	2	3	5
3-187	3	1	4
Total	12	9	21

(2) DISCOM was tasked to provide civic action support in District II, Hue City and to assist Thua Thien Province in upgrading the capabilities of the Sector Maintenance and Direct Support Logistic Center (SM&DSLC). At the end of the reporting period, five of the original 11 projects had been completed, and three more had been added to the task list. Approximately 85% of DISCOM's goal for the initial phase of the SM&DSLC project had been completed by the end of the reporting period.

(3) On 1 July 1970, the 5th Transportation Battalion (Aircraft Maintenance and Supply) (Ambl) began work on a prescribed load list (PLL) to support three UH1M aircraft scheduled to arrive in the division on or about 1 September 1970. The PLL was completed, and all requisitioning accomplished, insuring the availability of all parts in advance of arrival of the aircraft. Special emphasis was also placed on the requisition and procurement of special equipment needed to accomplish the battalion mission. At the end of the reporting period, the current authorized stockage list (ASL) for both Company A and B totaled approximately 11,000 lines. On 1 June, the quick reaction assistance team (QRAT) provided by the 34th General Support Group arrived to assist in the pulling, packing, and shipping of approximately 8,000 lines of identified excess stock.

(4) The 5th Trans Br (Acft Maint and Sup) (Ambl) provides direct support for repair of 424 aircraft authorized in the division. During the reporting period, 513 aircraft were repaired and released to division aviation units. Five 12th preventive maintenance periodic inspections on CH47 aircraft (Operation Hook) were completed during the period, requiring an average of 16 days and 1,132 manhours per aircraft.

(5) The 301st Maintenance Battalion (Ambl) technical supply continued to process an average of approximately 20,000 requests per month. Demand accommodation fluctuated somewhat on a weekly basis, with the average for the period at 79.5%. The beginning of the period marked a very low 45% customer satisfaction average for the month of May. At this time the technical supply activity still had a 39% zero balance. Intensive studies were initiated, and the materiel release expeditor (MRE) teams were strengthened. As a result, receipts began to rise and have brought customer satisfaction to a 70% average for the month of July. Many lines were dropped as a result of the study, and some 150 lines have been shifted to the 426th Supply and Service Battalion (Ambl). A 100% inventory was conducted in the latter part of May and

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the first week in June, which created a work backlog. When processing started again, there were so many customer issues that several lines went to zero balance, and the percentage at zero balance started rising. The end of this period finds total receipts rising again to replenish the exhausted stockage. The impact of the inventory was felt for a few weeks, however, and the end result was fewer warehouse demands. The beginning of the period saw 466 warehouse demands for the month of May, compared to 176 at the present time. Technical supply is presently carrying 5,118 lines which occupy approximately 90% of available storage space.

The battalion continued to provide contact teams for the line units and maintenance stand downs. The on-the-spot contact teams have continued to increase materiel readiness and provide for more efficient combat units. A total of 511 technical assistance visits was conducted during the period. The country store listing was expanded to reduce further the customer unit administrative requirements for submitting parts requests.

g. (U) Civil Affairs.

(1) Pacification and development activities in Thua Thien Province continued at an accelerated rate throughout the reporting period. The number of projects in progress at the beginning of the period was 136. During the period, 106 new projects were initiated, 102 projects were completed, and at the end of the period, 140 projects were in progress. All the division's efforts are closely coordinated with GVN officials at province and district levels. The overall effort of the division is directed toward the achievement of the national objectives outlined in the Thua Thien Province Pacification and Development Plan, 1970. The Province Civic Action Priority List, developed at the hamlet, village, and district levels and consolidated and approved at the province level, serves as the guidelines in the selection of projects to be undertaken.

(2) On 23 June, the final refugee resettlement payment was made, thereby eliminating all registered refugees from the rolls in Thua Thien Province. The resettlement payment, which consists of 10 sheets of tin and 7,500\$VN per family, normalizes a refugee camp, thus creating an official political entity. When conditions permit, the people of a normalized community have the option of returning to their original villages. When this is done, the returning families receive a return-to-village (RTV) payment, which also consists of 10 sheets of tin and 7,500\$VN per family. As of 30 June 1970, 63,129 of the 85,114 refugees generated during and after the Tet offensive of 1968 had been returned to their native villages. There remain approximately 22,000 people in 26 normalized camps and an additional 15,000 people scattered throughout the province, who are entitled to the return-to-village payments upon return to their ancestral homes. Continued division assistance in the program is taking the form of limited logistic and material support.

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for related civic action projects. A total of 27 projects is planned, including 15 schools, three dispensaries, three markets, and six wells. For these projects, the province is supplying cement and gravel, and the cadre provide the labor, and the division supplies lumber, reinforcing steel bars, and nails. The Phase I Program achieved 100% of the Residential-Village Program 1970 goal.

(3) In December 1969, the division support command initiated a program to upgrade the Sector Maintenance and Support Support Logistics Center (SMASOLC), of Thua Thien Province. From its new location in Ha, the SMASOLC will provide management, support, and services to all SF, 17, 1327, and 1328 and their equipment in the province. Fourteen major subprojects constitute the Division Support Command effort, with each subproject undertaken by the appropriate element of DISCOM. Of these, five have been completed, and six others are in progress.

(4) During the period of this report, a total of 405 MEDCAPs was held, and 23,465 medical and dental patients were examined.

(5) Major projects completed during the reporting period:

(a) Phu Loc District.

- 1 An Bang Hamlet school construction (SD144003)
- 2 Thus Lin Hamlet dispensary (ZD201012)
- 2 Vong Tri Hamlet school addition (ZD089003)

(b) Phu Vang District.

- 1 Phu An Village dispensary (YD812262)
- 2 Phu Vang District dispensary repair (YD779277)
- 2 Phu Tan Village dike repair (YD816301)

(c) Phong Dien District.

- 1 Phong Dien Hamlet Farmers' Association Bldg. repair (YD528348)
- 2 Pho Trach Hamlet market place (YD503424)
- 3 Bo Dien Hamlet school repair (YD615293)
- 4 Phong An Village office (YD611291)

(d) Huong Dien District.

- 1 Dien Loc Hamlet school repair (YD595465)
- 2 Ke Mon Hamlet school repair (YD568464)
- 3 Vinh Xuong Hamlet school repair (YD551473)

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4 The My C nursery school construction (YD620456)
 5 The Chi Tey Hamlet dispensary (YD620436)
 6 Dien My Village dispensary construction (YD678680)

(e) Huong Tra District.

1 Long Ho Truong Hamlet school furniture (YD702182)
 2 Long Khe Hamlet footbridge (YD618272)

(f) Huong Thuy District.

1 Huong Thuy District power line (YD819179)
 2 Xuan Hoa Hamlet health station (YD782239)
 3 Province prison farm equipment repair (YD802215)

(g) Phu Thu District.

1 Quang Xuyen Hamlet school construction (YD895245)
 2 Vinh Luu Hamlet school construction (YD894215)
 3 An Luu Hamlet dispensary construction (YD945172)
 4 Loc San Hamlet school construction (YD873236)

(h) Hue.

1 Phu Vinh Village school addition (YD758206)
 2 Phu Hoi Hamlet latrine construction (YD773234)
 3 Phu Hoa Village reading room construction (YD769228)
 4 Phu Hiep Hamlet street repair (YD770243)

(i) Vinh Hai Hamlet school repair (YD080125), Vinh Loc.

(6) During the reporting period, 102 projects were completed including 17 schools, 11 dispensaries, two village headquarters, 32 wells, 20 information boards, three bridges, two dikes, and 15 others.

(7) The division currently has 140 civic action projects underway. These include eight schools, nine dispensaries, three administrative buildings, 10 markets, 14 police stations, 77 wells, one road repair, three footbridges, and 15 other.

(8) Commodities issued during the reporting period:

Cement	2,750 bags
Tin	1,106 sheets

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Construction lumber	29,141 board feet
Paint	30 gallons
Medical supplies	636 lbs
Sand	37 tons
Crushed rock	19 tons
Wire	1,275 linear feet
Clothing	685 lbs
Ammo boxes	28,317 boxes
Food	2,040 lbs
Screen wire	8 rolls
School kits	220 kits
Culvert	875 ea
Plywood	375 sheets
Scrap wood	4,660 lbs
Reinforcing steel bar	4,042 linear feet

(9) The initial land reclamation and driver training effort in Phong Dien District was completed during the period. Two of the four Minneapolis-Moline tractors were displaced to Phu Wang District, one to Huong Thuy District, and one is presently being repaired. The program is now entirely a Vietnamese responsibility, to include the maintenance, repair and operation of equipment.

(10) On 28 May, BG Smith, ADC(O), and COL Tran, Province Chief, attended the dedication ceremony of Phong An Village Headquarters in Phong Dien District. In a speech delivered by the Phong An Village chief, it was noted that 10 years ago Phong An was a scenic and prosperous area, with a well developed economy. In 1964, the village headquarters was destroyed in a wave of disruptive activities. In subsequent years the village headquarters was relocated twice and destroyed each time. Now, 100% of the local population has resettled to its original location, irrigation canals have been constructed, and three schools have been repaired through the pacification program since early 1969.

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conclusion, the village chief pledged further development in security, economics, and education.

h. (U) Psychological Operations.

(1) Type and quantity of propaganda media employed:

(a) Total leaflets disseminated:

Air: 23,671,000 Ground: 59,100

(b) Total loudspeaker broadcast hours:

Air: 646:00 Ground: 1,041:30

(c) Total movies shown: 123

Total hours: 333:45

(d) Quick reaction leaflets:

Four missions for 290,000 leaflets

(e) Quick reaction broadcasts:

Five missions for 17:00 hours

(f) Hoi Chanh: Eight

(2) The 1st Inf Div (ARVN) and the 101st Abn Div (Airmobile) cooperated in the development of leaflets and tapes for employment against the 66th NVA Regiment and other NVA units in the vicinity of FS/CB HENDERSON. The operation involved 15 hours of aerial broadcast and the distribution of 360,000 leaflets. One NVA soldier rallied during the reporting period.

(3) On 29 May, an earlyword mission was conducted by the 9th Special Operations Squadron (SCS) in support of the 1st Bn (Airmobile), 327th Inf. Several minor SOI compatibility problems were encountered but have since been eliminated. It is felt that this mission constituted a milestone in the division's PSYOP effort, since this was the first time that an earlyword mission was conducted under the recently directed XXIV Corps PSYOP ground communication system.

(4) In an obvious effort to counter the strong psychological impact of the accelerated pacification and development program in Thua Thien Province, the enemy increased terrorist activities in the populated lowlands during the latter part of May. VC incidents ranged from destruction of 1,000 meters of hamlet fencing and distribution of VC propaganda leaflets to the assassination of the Phong Dien District Chief. As yet, the full impact of these incidents has not been determined. No appreciable change in the attitude of

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the people toward the GVN has been detected, and it is felt that the terrorist activities will serve only to alienate the people further from the NVA/VC.

(5) During the middle of June, a photography team from the 4th PSYOP Group supported the division with photographic coverage of successful civic action projects throughout the province, taking approximately 400 slides which were later developed in Saigon. A slide show, code named "Operation Building Block", will be shown throughout the province by the audio-visual teams in cooperation with Vietnamese Information Service (VIS) cadre, in order to stimulate popular participation in civic action projects, thus emphasizing the overall nation-building effort.

(6) Based on recent events and intelligence reports gathered on 20 June in the vicinity of the Vietnamese Salient, 100,000 quick reaction leaflets were printed by the 7th PSYOP Battalion, for employment against the 66th NVA Regiment and dropped by the 9th SOS on 21 June, exploiting the discovery of a large enemy hospital complex. In addition, the division PSYOP section conducted an aerial broadcast mission using tape recordings. Although concrete results could not be measured, it appears that quick reaction PSYOP missions of this nature have a detrimental effect on enemy morale due to the high credibility of the factual messages.

(7) On 8 July, elements of the 2d Sqdn (Abtl), 17th Cav, on an armed serial reconnaissance mission, in the vicinity of Khe Sanh, observed 150 to 200 NVA in the open. In response to an immediate PSYOP mission request from the squadron, the division provided PSYOP support to the operation. Surrender or Die leaflets and safe conduct passes were dropped, and an ARVN lieutenant made aerial broadcasts in response to the varied ground actions. Subsequent airstrikes and ground operations were exploited with 1st Inf Div. (ARVN) PSYWAR broadcasts and quick reaction leaflets. Total NVA losses, after several days of operations, were very heavy. This action had a significant psychological impact on the NVA.

(8) One NVA corporal rallied on 23 July in Nam Hoa District. Utilizing the Rallier's Guide, 15,000 quick reaction leaflets were prepared and printed containing the rallier's name, rank, unit, and a statement concerning his excellent treatment by the GVN. Information obtained during interrogation was used to prepare a tape which was recorded by the Hoi Chanh for broadcast. He was later exploited by the 1st Brigade, which took him on an aerial reconnaissance over the area he had described during his interrogation to identify significant areas. Results of this effort were minimal as he could not associate the airborne view with familiar terrain.

(9) A USAF aircraft flew a timely high altitude mission in support of

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Operation CHISAGO PEAK/LAM SON 363, dropping six million leaflets into the A SHAU Valley and the immediate region to the northeast. Themes for this sortie were Surrender or Die, Beware of H-52 Strikes, and Allied Firepower.

1. (C) Medical.

(1) During the reporting period, tactical deployment of companies within the 326th Medical Battalion (Abnl) remained the same as in the previous quarter, with Company A in direct support of the 1st Brigade, Company B in direct support of the 2d Brigade, and Company C in direct support of the 3d Brigade. Headquarters and Support Company continued to provide area medical support for the division's rear elements located at CAMP BANG.

(2) Medical Statistical Recapitulation:

	<u>CO A</u>	<u>CO B</u>	<u>CO C</u>	<u>SP/CO</u>	<u>TOTAL</u>
Total patients seen at clearing station:	2,100	2,073	1,863	2,610	8,646
Total dental patients:	0	982	1,150	234	2,366
Total admissions:	135	131	229	232	729
Total transferred:	116	131	122	44	413
<u>Recapitulation:</u>					
IRMA	85	21	365	28	499
NBC	304	108	552	130	1,094
<u>Medical diseases:</u>					
Malaria	0	0	15	1	16
FUOs	71	39	81	52	243
Diarrhea	51	61	51	40	203
Skin diseases	199	337	334	388	1,258
H/P	5	18	7	917	947
Gastroenteritis	30	59	38	103	235
Foot problems	24	103	75	91	198
Heat injuries	21	1	28	15	65
VD	121	183	52	189	550
Med evac missions:					1,094

(3) Movement of the 32d Medical Depot from Phu Bai to Da Nang increased the order and shipping time of medical supplies from eight to 15 days. This delay necessitated initiation of weekly circuit supply missions by the battalion. Due to the increased distance, any emergency supplies must be delivered by helicopter.

(4) Company MEDCAP programs have continued, with medical companies in support of brigade civil affairs programs. Each physician is scheduled for a minimum of one MEDCAP per week.

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(5) The air ambulance platoon continued to perform its mission of providing aero-medical evacuation support to the 101st Abn Div (Ambl). The majority of this support originated from CAMP EAGLE. However, for most of the period two UH-1H air ambulances have been stationed at CAMP EVANS to provide quicker response to northern sections of the AO. During this reporting period, one of the battalion's authorized twelve aircraft was placed with division flight standards, leaving eleven functional aircraft with the platoon.

(6) Mandatory training required by MCARV Regulation 350-1 is being actively conducted and posted to individual training records. Emphasis has been placed on OJT and MOS cross-training to increase individual proficiency and to reduce the impact of DEROG losses and temporary absences of personnel. The air ambulance platoon has taken maximum advantage of unfavorable weather during the period to improve individual aviator proficiency in instrument flight and inclement weather procedures.

j. (C) Signal.

(1) The 501st Signal Battalion (Ambl) continued its mission to provide communications-electronics support for the 101st Abn Div (Ambl) throughout the reporting period. RATT teams continued to support the division, the three brigades, and DISCOM. In Operation BARBER GLADE, secure RATT was provided in support of Project Delta at Mai Loc. Both AM and FM RFI stations continued in operation, and a jump capability was provided at all times. The battalion responded to increased requests for 4-channel communications, linking brigades to battalion CPs at forward fire support bases, by installing AN/GRC163 equipment at FS/OB RAKKASAN, SHOCK, VEGUFL, KATHRYN, BRICK, GLADIATOR, and MAUREEN. Four channel systems continued to be provided at Phu Loc District Headquarters, FS/OB BIRMINGHAM, FS/OB BASTOGNE, CAMP EAGLE, CAMP EVANS, EAGLE BEACH, and FS/OB RIPCORD. Four channel systems were also provided at Mai Loc for Project Delta, and at FS/OBs HENDERSON, HOLCOMB and SHEPHERD, CAMP CARROL and Dong Ha in support of combined US/ARVN operations. Four channel systems were provided at FS/OBs TUN TAVERN and BARNETT in support of ARVN operations. Operational and maintenance responsibility of the 4-channel system linking FS/OB T-BONE to Huu utilizing AN/MRC68 equipment was transferred to the 1st Inf Div (ARVN). The battalion maintained an overall multi-channel reliability of 98.6% during the reporting period. This can be attributed to three factors: (a) the increased responsiveness of the ADAO in providing helicopter support to deliver equipment to fire support bases when equipment failures occurred;

(b) the decrease in maintenance problems with the multiplexer AN/TSC70 of the AN/GRC163 due to familiarity gained through its continued utilization; and

(c) authorization of the battalion to obtain a temporary excess of AN/GRC163 equipment, which provided reliable backup reserves.

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SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division
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(2) The battalion continued its policy of direct exchange of equipment that could not be immediately repaired. Division units were further assisted by signal contact teams sent to field locations for on-site repairs. There were 921 work orders completed during the reporting period. Receipt and issue of additional crypto equipment relieved some of the past shortages and provided additional flexibility.

(3) The division's four MARS stations completed 13,643 phone patches during May, June and July. The division MARS stations set a USARV record with 5,253 calls during the month of May.

(4) The 63d Signal Battalion continued to provide cable, 12-channel VHF, and microwave communications support to major subordinate and higher unit headquarters. During Operation CLINCH VALLEY in July, contingency circuits from CAMP CARROL to CAMP EVANS and CAMP EAGLE were activated in support of the 3d Brigade forward CP.

(5) The battalion began a program of training selected personnel of the 1st Inf Div (ARVN) signal battalion. To date, three officers and six enlisted men have received two weeks of CJT in the theory and operation of various equipment in the battalion. The ARVN personnel spent two weeks living and working with the 501st Signal Battalion.

k. (U) Engineer.

(1) During the reporting period, the 326th Engineer Battalion (Ambl) continued to provide general and direct support to the division. One new firebase was opened and several old firebases reopened. Upgrading of the Phu Thu Estuary Road, the Jeanne-Knight Road, and the Street Without Joy projects, was completed in support of tactical and civic action requirements. Project LIFESAVER was discontinued during the reporting period after the construction or improvement of 15 landing zones in the division AO.

(2) During the last week of May, engineer support was consolidated and committed to establishing a forward line of hardened firebases in the division area of operation. The preponderance of engineer effort for the remainder of the reporting period was committed to this task. Initially four firebases were programmed for complete hardening. These hardening tasks committed A/326th Engr to FS/OB ERICK, B/326 Engr to FS/OB KATHRYN, Companies B and D of the 27th Engr to harden FS/OB VEGHEL and to complete construction of an access road to the firebase from Route 547, and Company B of the 14th Engr Bn to harden FS/OB RAKKASAH and to complete construction of an access road to the firebase from FS/OB JACK. FS/OB RIFCORD was designated to be hardened on a selective basis. During the last two weeks of the reporting period, two additional firebases were designated to be hardened. FS/OB GLADIATOR is to be completely hardened and FS/OB MAUREEN is to be hardened selectively.

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(3) During the summer season, with its sparse rainfall, helipad maintenance became a prime engineer mission, with upgrading projects completed at FS/03 ARSENAL, TOMAHAWK, BASTOGNE, KATHYIN, LOS MARCOS and VEGHEL; at Phu Loc, Phu Thu, and Nam Hoa district headquarters; and at various base camp helipads. Potable water was provided throughout the area of operation, with purification units located at FS/03 BASTOGNE, FS/08 VEGHEL, Mai Loc, the Thua Luu Bridge, and CAMP EAGLE.

(4) At the beginning of the reporting period, a new firebase (FS/08 SHOCK), was created out of an existing landing zone. This firebase was constructed under the airmobile firebase concept of seven to 10 days occupation, and was closed after nine days of occupation. FS/08 KATHYIN, reopened during the latter part of the previous reporting period, continued to receive engineer support in the form of demolition and earthmoving work. The existing hill mass was leveled so as to support two artillery batteries. The task of hardening FS/08 ERICK encompassed the construction of one 20'x32', three 10'x24' and 41 8'x12' bunkers; installation of a tactical wire barrier; clearing of adequate fields of fire and preparation of logistic helicopter landing pads. During the hardening process, a system of prefabricating and airlifting bunkers to the job site was initiated with excellent results. The hardening process of FS/08 ERICK was completed by the end of the second month of the reporting period.

(5) During the month of June two LZ cutting/bunker busting teams were inserted into western Quang Tri Province in support of the 2d Sdtn (Anh), 17th Cav operations. One team was inserted into the FS/08 ROBIN area to cut an LZ to permit the extraction of medical supplies and documents from an NVA hospital site and to destroy the remaining bunkers. The second team was inserted near FS/08 SHAFER to cut an LZ to extract portions of a rice and weapons cache. This team was also used to destroy the remaining ordnance, rice, and bunkers.

(6) At FS/08 VEGHEL, a project was undertaken to provide adequate drainage facilities for structures on the firebase, to lay wire barriers, and to clear fields of fire. The hardening process on FS/08 VEGHEL was completed by the 27th Engr Bn in late June. An additional requirement to establish a 1st Brigade forward CP, consisting of one 10'x24' TOC and six 8'x12' sleeping position bunkers, was completed during the last week of the reporting period.

(7) Maneuver elements occupying FS/08 RIPCORD continued to receive engineer support throughout the entire reporting period. A refuel point for UH-1H and LOH aircraft was constructed, and bunkers were emplaced in selected positions around the firebase. Additional support included wire barriers, fields of fire, defensive positions, and adequate drainage facilities. During the latter stages of the reporting period, additional engineer support was committed to the firebase to counter increased enemy activity.

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(a) Company B was tasked with improving the defensive posture of the firebase by constructing additional bunkers, a quad-50 position, numerous revetments, a new log pad, and repair of damaged structures and positions. A new position for a 105mm howitzer battery was built after a CH47 crashed and destroyed the existing battery, to include a massive EOD effort to deactivate and destroy the damaged artillery ammunition. Engineer elements were extracted with the closing of the firebase on 23 July.

(b) In support of increased enemy activity around FS/OB RIPCORD, FS/OB GLADIATOR was reopened. One platoon of engineers was inserted on 19 July to harden the firebase. Tasks to be accomplished included construction of 63 bunkers and two log pads, clearing fields of fire and installation of tactical wire. At present 39 bunkers have been completed.

1. (C) Army Aviation.

(1) General.

(a) Throughout the reporting period, the 101st Aviation Group (Combat) (Airmobile) provided aviation support to the division and non-divisional units in I Military Region. In addition to providing airlift and armed aerial escort support, the group augmented the aeromedical capability of the medical battalion and provided air traffic and pathfinder support and limited battlefield surveillance and target acquisition.

(b) Aviation requirements were met on a daily basis to provide the necessary support for combat operations, logistic resupply, and pacification and development efforts. Aviation support was also provided for Special Forces Project Delta; CCN missions; the 1st Brigade, 5th Infantry Division (Mechanized); and the 1st Infantry Division (ARVN) in conjunction with the Vietnamese Air Force.

(c) Operation LIFESAVER and its program of landing zone expansion was concluded on 5 June 1970. During the reporting period, LIFESAVER teams completed 15 LZs, thereby increasing the total number of LZs created during Operation LIFESAVER to 170. All of these LZs are functional two ship LZs with high speed routes of approach and departure. During the reporting period, pathfinders controlled air traffic on as many as 14 fire support bases at one time.

(2) The following are statistical data for the reporting period:

UNIT	HRS FLOWN	SORTIES	PERSONNEL	TONS CARGO	ACFT RECOV
101st Avn Bn	18,173	61,850	66,377	2,039	6
158th Avn Bn	18,156	62,778	68,358	1,869	5

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UNIT	HRS FLIGH	SORTIME	PERS	TONS CARGO	ACFT RECOVERIES
159th Avn Bn	10,917	30,861	92,098	52,401	2
163d Avn Co	5,690	22,635	8,777	0	0
GROUP TOTAL	52,906	178,175	235,610	56,329	13

(3) The number of aircraft receiving ground fire increased by 98 over the last reporting period. The 101st Aviation Group experienced 187 incidents of ground fire reported as follows:

187	UH1H	AH1G	CH47	CH54
	135	10	3	38

(4) The 101st Avn Gp (Cbt) (Ambl) conducted two airmobility classes for commanders and staff officers of the division during the reporting period. The first class (15-16 May) was attended by 39 personnel. The second airmobility class, conducted on 26-27 June, was attended by 31 personnel. Two pathfinder classes were conducted to train ARVN personnel. The first, from 4 May to 15 May, graduated one officer, two warrant officers, and 12 NCOs. The second, from 25 May to 5 June, graduated one officer, two warrant officers and 11 NCOs.

(5) Air traffic activities for the period were:

	Eagle GCA	Eagle Tower	Lifeguard Tower
May	239	59,063	9,454
June	289	26,183	10,115
July	246	28,451	12,000

(6) Throughout the period, the 101st Aviation Battalion (Assault Helicopter) (Ambl) and the 158th Aviation Battalion (Assault Helicopter) (Ambl) alternated their companies in providing direct combat and logistic support to the brigades of the division. The 159th Aviation Battalion (Assault Support Helicopter) (Ambl) continued to provide general support to the division for the air movement of artillery, combat troops, and supplies. Logistic support was also provided to the 1st Bde, 5th Inf Div (Mech); the 1st Inf Div (ARVN); and Project Delta. The 163d Aviation Company (GS) (Ambl) continued to provide general support to the division, performing visual reconnaissance, photography missions, courier service, psychological operations support, airborne personnel detector missions and command and control. The company

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provided air transportation for the division general staff. During the reporting period, the 530th Transportation Detachment (Aircraft Maintenance) (Ambl) was attached to the company and accomplished direct support maintenance on all company aircraft.

m. (U) Air Cavalry Operations. The 2d Squadron (Airmobile), 17th Cavalry continued to perform extensive armed aerial reconnaissance throughout northern I Military Region in support of Allied operations. The squadron engaged in combat as an economy of force unit, provided immediate reaction forces for enemy contact and security of downed aircraft and surveillance and security operations for the division and subordinate combat elements.

(1) The 2d Sqdn (Ambl), 17th Cav is one of the primary intelligence gathering agencies of the 101st Abn Div (Ambl). With three air cavalry troops, a ground troop and Company L (Ranger), 75th Infantry attached, the squadron performs extensive air and ground reconnaissance and surveillance. In the collection, evaluation, and dissemination of intelligence information, the squadron works closely with US and ARVN intelligence agencies. Close coordination is maintained with the division order of battle, imagery interpretation, ground surveillance and G-2 air sections and division IFW teams. Valuable intelligence is gained through cooperation and informal coordination with the 1st Inf Div (ARVN) and the 1st Bde, 5th Inf Div (Mech). Based on intelligence indicators, the squadron's combat elements are targeted against specific areas of interest in order to provide the commanding general with a clear assessment of the situation in all reaches of the division area of operation.

(2) The most significant findings attributed to armed aerial reconnaissance by the 2d Sqdn (Ambl), 17th Cav during the reporting period were in June, when an extensive rear service area of the 66th NVA Regt was discovered in the FS/03 Leatherneck area, and in July, when air cavalry elements discovered the 9th NVA Regt, 304th NVA Division, infiltrating into SVN.

(3) Extensive employment of the 2d Sqdn (Ambl), 17th Cav throughout the division AO, with particular emphasis on the division reconnaissance zone, resulted in 2,125 spot reports of enemy activity, eight crew served and 41 individual weapons captured, 396 enemy killed and five prisoners captured.

n. (U) Artillery.

(1) The 101st Airborne Division Artillery (Airmobile) provided close and continuous fire support to maneuver units throughout the reporting period. Light howitzer battalions continued to provide direct support to the infantry brigades, with the 2d Bn (Ambl), 319th Arty (105) in direct support of the 3d Brigade; the 2d Bn (Ambl), 320th Arty (105) in direct support of the 1st Brigade; and the 1st Bn (Ambl), 321st Arty (105) in direct support of the 2d Brigade.

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Battery D, 2d Bn (Airmbl), 320th Arty (105) remained attached to the 2d Bn (Airmbl), 506th Infantry in II Military Region.

The 2d Bn (Airmbl), 11th Arty (155), the 4th Bn (Aerial Arty), 77th Arty, and A Btry (Avn), 377th Arty remained in general support of the division.

The following 103th Artillery Group units were located in the division area of operations in a general support role: Btry 1, 2d Bn (8"175) (SP), 94th Arty at C1; Btry A, 1st Bn (8"175) (SP), 39th Arty at FS/03 RAKKASAH; Btry B, 1st Bn (8"175) (SP), 39th Arty at FS/03 BAMBARA; Btry C, 1st Bn (8"175) (SP), 39th Arty at Camp Evans; Btry A, 1st Bn (82/175) (SP), 83d Arty at FS/03 BIRMINGHAM; and Btry C, 1st Bn (8"175) (SP), 83d Arty at FS/03 WAZZI.

Btry B, 2d Bn (8"175) (SP), 94th Arty of the 103th Artillery Group was located at CAMP CARROL in Northern I Military Region and provided fires in general support of the division.

Btry D (M42). 1st Bn, 49th Arty and a section of Btry C (155), 65th Arty of XXIV Corps Artillery were deployed in the division AO to provide fires for base and bridge security.

(2) Artillery fires were employed throughout the division area of operation to disrupt enemy lines of communication and infiltration routes. This was accomplished through artillery raids and fires in reaction to sensor activations, radar detections, aerial surveillance, and intelligence. Extensive artillery fires were employed nightly in the "rocket belt" areas on the periphery of the populated lowlands and in the areas adjacent to military installations.

(3) Throughout the reporting period, US and ARVN artillery units continued to employ coordinated fires in support of combined operations. The division artillery aerial surveillance program continued to locate and adjust fires on enemy forces and to provide observation for artillery regiments.

(4) During the period of heavy enemy contact in the vicinity of FS/03 RDCORD in July, Btry B, 2d Bn (Airmbl), 319th Arty suffered heavy damage when a CH47 aircraft crashed and burned in the 105mm ammunition storage area, causing a major fire on the firebase. All six 105mm howitzers of the battery were destroyed.

(5) Repositioning of Artillery Support:

DATE	UNIT	FROM	TO
2 May	C/2-320	TOMAHAWK	KATHYRN
3 May	A/2-11	GRANITE	RAKKASAH

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DATE	UNIT	FROM	TO
4 May	C/2-320 A/2-320 C/2-319	VEGHEL RAKASAN GLADIATOR	RASTOCHE WICK GLADIATOR
9 May	B(-)/2-11 A/2-320	EAGLE SNICK	RAS WICK VEGHEL
10 May	A(-)/1-321 A(-)/1-321 C(-)/1-321 C(-)/1-321	BIRMINGHAM WICK EVANS EVANS	EVANS EVANS BIRMINGHAM ARSENAL
26 May	C/2-319 B/2-320	BIRMINGHAM KATHRYN	KATHRYN BRICK
-10 Jun	A/2-11	RAKASAN	RIPCORD
14 Jun	A(-)/2-11	RIPCORD	RAKASAN
16 Jun	B/2-11 B/2-11	VEGHEL ZON	ZON VEGHEL
<u>22 Jun</u>	A(-)/2-11 C(-)/2-11	RIPCORD ARSENAL	SHEPHERD SARGE
23 Jun	B/1-321 B/1-321 A(-)/1-321	LOS BANOS MUSKET EVANS	MUSKET LOS BANOS LOS BANOS
24 Jun	A(-)/1-321	LOS BANOS	EVANS
- 25 Jun	A(-)/2-11	SHEPHERD	RIPCORD
26 Jun	C(-)/2-11	SARGE	ARSENAL
- 6 Jul	A(-)/2-11	RAKASAN	RIPCORD
9 Jul	B/2-11	VEGHEL	SARGE
11 Jul	B/2-11	SARGE	VANDEGRIFT
16 Jul	B/2-11	VANDEGRIFT	VEGHEL
18 Jul	B(-)/2-11 B/2-320	VEGHEL ERICK	KATHRYN GLADIATOR

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(Airmobile), Period Ending 31 July 1970, RCS CUFOR-65 (32) (U)

<u>DATE</u>	<u>UNIT</u>	<u>FROM</u>	<u>TO</u>
23 Jul	A/2-11	RECORD	EAGLE
25 Jul	C/2-319 B/2-310	KATHY GLADIATOR	GLADIATOR KATHY
27 Jul	A/2-11	EAGLE	RAKKASAN
29 Jul	C/2-310 B/2-319	RASTOGES EVANS	RASTOGES EVANS

o. (U) Information.

(1) Public Information.

(a) Number of hometown news releases: 4,955.

(b) Number of news/feature stories released to public and military media: 175.

(c) Number of photographs released: 129.

(d) Number of correspondents provided support by the information office: 91.

(e) Coverage was also provided for 30 distinguished visitors to the division, including Representative William O. Cowger (R-Ky) and General William C. Westmoreland, CSA.

(2) Command Information.

(a) During the reporting period, six issues of the division newspaper, "The Screaming Eagle", and the spring issue of the division magazine, "Rendezvous with Destiny", were published.

(b) In support of President Nixon's proclamation of the period 24-30 May as Drug Abuse Prevention Week, the information office instituted the following:

1 A half-hour discussion program on drug abuse was broadcast over AFVN-TV, Quang Tri at 1530 hours 30 May. The program featured one medical officer, one legal officer, and a moderator from the division.

2 A 30 second radio "spot" announcement concerning drug abuse and the division amnesty program was broadcast daily over AFVN-2, Quang Tri.

3 The "Airborne Dateline" featured drug abuse and the division amnesty program each day in the cartoon and special announcement section.

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4. A flier on drug abuse prevention was attached to the daily bulletin for distribution and posting.

5. USAF Fact Sheet 26-70, "Drug Abuse in the Military", was reproduced and distributed with a cover letter requiring the topic to be covered during June at all unit commanders' calls.

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(Airmobile), Period Ending 31 July 1970, RCS CEFCR-65 (E2) (U)

2. Lessons Learned: Commander's Observations, Evaluations and Recommendations.

a. (U) Personnel. None.

b. (C) Intelligence.

(1) Use and update of intelligence data base information.

(a) Observation: A data base of intelligence information on the location of enemy bunker complexes, cache sites, trails, and other information gathered during combat operations and maintained at maneuver battalion level, provides valuable information for units conducting patrol, surveillance, and reconnaissance operations.

(b) Evaluation: Experience has shown that when small unit commanders and patrol leaders are thoroughly briefed on previous enemy positions and activities in their area of operation, from information provided by an accurate and current intelligence data base, the information gathered by the unit and returned to intelligence personnel is much more detailed and valuable. The data base can be kept current and will provide indications of enemy trends and activities in the area. The exchange of this type of information with adjacent units or units moving into the area for the first time, increases the overall effectiveness of operations.

(c) Recommendation: That unit intelligence personnel (S2) be encouraged to aggressively pursue a program of detailed intelligence gathering, collecting a data base, disseminating the data, and updating the data base from detailed debriefings.

-(2) Acoustic sensors in support of ranger teams.

-(a) Observation: Acoustic sensors can be effectively used to extend the surveillance capability of ranger teams for short periods of time.

-(b) Evaluation: Following the insertion of Ranger Team "Cicada" on 18 April 70, six acoustic sensors were air delivered by personnel of the ground surveillance section, supported by the 2d Sqdn (Abml), 17th Cav. The primary mission of the ranger team was to monitor sensor activity and respond with artillery fire. During the seven days the team monitored the acoustic sensors, it heard metallic sounds, voices, and screaming, when artillery was employed. Conversations heard and translated by a Kit Carson Scout revealed NVA/VC plans to ambush a US unit in the area. The plan was later abandoned due to non-availability of automatic weapons. NVA/VC were also heard monitoring US radio transmissions and discussing the disposition of US forces in the area.

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(c) Recommendation: That commanders consider the use of acoustic sensors with ranger teams for target acquisition and intelligence collection.

c. (C) Operations.

(1) Territorial force operations in the jungle canopy.

(a) Observation: During the last reporting period, a program of combined operations with Regional Force elements, operating in the canopy for short periods of time, was begun. Continued combined operations during this reporting period have culminated in independent RF company operations deep in the canopy for periods of up to 15 days.

(b) Evaluation: The RF companies continue to show progress in proficiency and aggressiveness. Continued operations, farther from the populated areas, increase the responsibility and sense of urgency of the PF and PSDF forces securing the populated lowlands.

(c) Recommendation: That continued coordination be maintained with GVN officials to encourage increased RF operations, in the canopy.

(2) Sniper team employment.

(a) Observation: A five man sniper team, employed with the PPS-5 radar, has shown to be a very effective method of interdicting enemy infiltration in the populated lowlands of Thua Thien Province. The effective employment of snipers is generally limited to open, relatively level terrain of the lowlands.

(b) Evaluation: Upon initial employment of the radar/sniper teams into known infiltration areas, movement was frequently detected and engaged. Infiltration through these areas was greatly diminished, and indications were that the routes were effectively interdicted.

(c) Recommendation: That units be made aware of this technique of interdiction.

(3) Mechanical ambushes.

(a) Observation: The extensive employment of mechanical ambushes during the reporting period has led units in the field to recommend the use of monofilament fish line as trip wires, used FRC25 batteries as the power source, and clothespins for the trigger device.

(b) Evaluation: The monofilament fish line has been procured locally or through individual purchase and is much preferred over trip wire. Used

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PRC25 batteries are readily available and durable in all weather conditions. The clothespin firing device is sensitive and quickly employed in the field.

(c) Recommendation: That units employing mechanical embusches consider this technique of employment.

(4) Prefabricated firebase facilities.

(a) Observation: In conjunction with the division-wide program of hardening fire support bases against enemy attack, facilities such as bunkers, latrines, showers and other structures were prefabricated or constructed in rear base areas, and airlifted to the firebase.

(b) Evaluation: This procedure reduced time, effort, and aircraft blade time required for establishing and hardening a firebase. All tools and labor were readily available in rear areas, and no excess material was delivered to the firebase requiring backhaul or destruction.

(c) Recommendation: That units establishing forward fire support bases consider the construction or prefabrication of facilities in rear areas, prior to delivery to the firebase.

(5) Local patrolling around forward firebases.

(a) Observation: During the present division operation (TEXAS STAR), an active patrolling program around forward fire support bases has severely limited the enemy's reconnaissance capability and delayed, and some times prohibited, his attack on the fire support base.

(b) Evaluation: Local patrolling around the fire support bases, from 1000 to 1500 meters out, allows the firebase defenders to employ all defensive fires and enables the patrols to locate prepositioned enemy indirect fire weapons and cache sites. An enemy ground attack against FS/OB RIFCORD was very likely pre-empted on 22 July, when Co A, 2d Bn (Abtl), 506th Inf was engaged by an estimated two company enemy force approximately 1000 meters southeast of the firebase.

(c) Recommendation: That units consider an active patrolling program around forward fire support bases.

(6) Use of E-158 CS canisters.

(a) Observation: Aircraft are extremely vulnerable to small arms and mortar fire while entering and leaving a landing zone during combat assaults, extractions, or resupply.

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(b) Evaluation: Tactical CS has proven to be effective in limiting the enemy's ability of placing aimed fires into an LZ during these missions. In addition, experience has shown that it requires approximately 15-20 minutes for the enemy to place the first mortar round on an LZ. Employment of tactical CS on suspected mortar and forward observer positions, shortly after the initial insertion of troops, can assist in preventing effective mortar fire in or around the landing zone.

(c) Recommendation: That units conducting airmobile combat and resupply operations consider the use of tactical CS in restricting the enemy's indirect fire capability.

(7) Tactical CS against a fortified position.

(a) Observation: The enemy's limited protective capability against riot control agent CS makes its use against entrenched and fortified positions very effective.

(b) Evaluation: Employment of tactical CS has caused the enemy to withdraw from his fortifications, thus increasing his vulnerability to other supporting fires. Employment of E158s against suspected enemy locations has also proved to be an effective means of reconnaissance by fire.

(c) Recommendation: That units consider the use of tactical CS agent against hardened targets.

(8) Quadrant system of control during airmobile assaults.

(a) Observation: The use of a standard quadrant system to divide the area around landing zones during combat assaults provides for better air traffic control and allows for continuous suppression around the landing zone.

(b) Evaluation: It has been found that a system, consisting of the four major quadrants, NE, SE, SW and NW, numbered one through four, respectively, is an excellent tool in planning for suppressive fires during combat assaults. Three quadrants are allocated a type of suppressive fire while the fourth is utilized for entrance and exit of the lift aircraft. The suppressive fires as well as airborne on call assets, i. e., tactical CS, crew recovery aircraft, and C&C aircraft, can be repositioned rapidly to meet a changing situation.

(c) Recommendation: That the system be considered for evaluation and possible inclusion as airmobile doctrine by other units conducting airmobile combat assaults.

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(9) Helicopter ground-to-air incidents during IDA.

(a) Observation: During conduct of bomb damage assessment of B52 strikes, aircraft have frequently received small arms and automatic weapons fire and observed enemy activity in the strike zone.

(b) Evaluation: The frequency of these incidents indicates that the enemy expects a helicopter reconnaissance after a B52 strike and that the enemy surviving in the strike zone quickly recover to engage US aircraft. Successful countermeasures used by the division have been to employ an air cavalry team, consisting of a C-47 aircraft, two AH-1G Cobras and a LOH, immediately after the strike. The employment of tactical CS (EC158 canisters), from the C-47 aircraft, on suspected enemy locations, has reduced the effectiveness of the enemy fire.

(c) Recommendation: That commanders consider this technique during the conduct of bomb damage assessment.

(10) Detailed studies have recently been concluded within the division in an effort to minimize friendly casualties and maximize the combat effectiveness of maneuver units. A study of the period 7 December 1969 through 9 July 1970 indicated that the majority of US casualties during the period were inflicted by enemy attacks on night defensive positions (NDP). The following lessons, some of them re-learned, have been emphasized in the division.

(a) Preventing the enemy from knowing the location and size of night defensive positions and denying him easy access into the area is extremely important. The area selected for an NDP should be located in rough terrain with thick underbrush whenever possible. This will make it difficult for the enemy to move up to the position without being detected, and the thick underbrush will often prematurely detonate RPG rounds fired towards the position.

(b) Movement into the NDP should be conducted about 15 minutes prior to full darkness, permitting personnel to establish their individual positions and begin setting up their trip flares, claymores, warning devices, and mechanical ambushes while they still have enough light to work safely. At this time, it is dark enough to prevent the enemy from observing these actions from a distance of more than 100 meters away.

(c) When establishing individual positions, personnel should avoid digging in next to trees or tree stumps. The enemy will fire his RPGs against trees and into heavy brush areas to create air bursts in order to spray the

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AVNG-6C

SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division
(Airmobile), Period ending 31 July 1970, RCG COMFOR-65 (R2) (U)

area with shrapnel.

(d) An NDP should not be established on the side of a hill unless the top of the hill is reconnoitered and out posted. In a recent operation, a unit went into position on a small knoll below the top of a hill. The hill had been recently occupied by the NVA, and bunkers and cleared fields of fire had been established. When the NVA began an attack from this position, they had the advantage of cover, clear fields of fire, and dominant terrain.

(e) Mechanical ambushes and trip flares should be emplaced from 100 to 150 meters away from the individual positions of the NDP. When mechanical ambushes are tripped at this distance, early warning is provided and the NDP's location is not compromised. By employing the mechanical ambushes this far out, friendly movement near the NDP perimeter is not significantly restricted.

(f) At least two trip flares should be employed on the friendly side of the ambush. Friendly forces approaching the mechanical ambush from the NDP will be warned by tripping the flare. The flares will also provide an extra means of warning should the enemy succeed in bypassing the ambush.

(g) After the recovery of early warning devices and mechanical ambushes, squad patrols should be sent out on all sides of the NDP prior to the movement of the main body. The NVA will occupy positions as close as 20 meters from the NDP, apparently in order to provide themselves a sleeping position protected from friendly ARA, artillery, and mortar fires, and a position from which to reconnoiter the NDP. The squad patrols will seek out these positions and spoil any attempt by the enemy to ambush the unit.

(11) Ammunition allocation forecast.

(a) Observation: The division is required to submit a monthly forecast of expected ammunition expenditures for one month in advance. There are nearly 50 different types of ammunition which require forecasting and six different mathematical computations are required for each type.

(b) Evaluation: Because of the myriad of mathematical computations involved in the ammunition forecast it was considered an ideal type of program for the UNIVAC 1005 computer located at the division personnel center. The G3 section coordinated directly with personnel services branch to develop a computer program which would virtually eliminate the manual mathematical work on the forecast and reduce the chance of error considerably. The time required for completion of the report was reduced to approximately one day, resulting in an overall saving of 36 man hours of work. Further, the computer was able to print out the information and computations re-

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AVDG-GC

SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division
(Airmobile), Period Ending 31 July 1970, RCS GOFOR-65 (R2) (U)

quired in a useable format.

(c) Recommendation: That units consider using the inherent capabilities of the UNIVAC 1005 computer to forecast ammunition requirements.

d. (U) Organization. None.

e. (U) Training. None.

f. (U) Logistics. None.

g. (C) Communications. Field expedient antenna.

(a) Observation: Communications in the canopy between companies in the field and the battalion TCC are often difficult.

(b) Units in the 3d Bde have successfully improved radio communications by using a field expedient antenna constructed from communications wire (WD1). At Tab 1 is a diagram of the field expedient antenna.

(c) Recommendation: That units consider the use of this simple, field expedient antenna to improve radio communication in the field.

h. (U) Materiel. None.

i. (C) Other.

(1) Civic action assistance by RD cadre.

(a) Observation: The success of civic action projects will invariably depend upon the leadership of the local Vietnamese officials. Although the majority of elected officials is very capable, there will always be some who are relatively ineffective. RD cadre are generally well trained, strong leaders, knowledgeable in civic action activities.

(b) Evaluation: RD cadre can provide valuable advice in the coordination of civic action projects and may be able to encourage completion of slow-moving projects.

(c) Recommendation: That personnel involved in civic action employ the assistance that can be provided by local RD cadre.

(2) NVA Sapper Attack Against FSB Tomahawk. See Inclosure 5.

3. Department of the Army Survey Information. None.

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AVII-GCT (15 August 1970) 1st Ind

SUBJECT: Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, FCS CSFOR-65 (R2) (U)

DA, HQ, XXIV Corps, APO San Francisco 96375

TO: Commanding General, USARV, APO San Fr. 96375 1 CEP 10R

1. (U) The ORLL for 101st Airborne Division (Airmobile) has been reviewed by this headquarters in accordance with AR 350-5.

2. (C) This headquarters concurs with the report as written with the following comments.

a. Reference the item concerning quadrant system of control during airmobile assaults, page 48, paragraph 2c(8). Using a standard reference system for all airmobile operations will assist in training of personnel and control of units. The information stated is not sufficient for accurate evaluation. However, additional information concerning techniques and control, to include examples and charts, will be provided by the 101st Airborne Division (Airmobile) as soon as possible. Recommend either this system or a clock system of similar nature be evaluated and considered for possible inclusion in airmobile doctrine.

b. Reference the item concerning helicopter ground-to-air incidents during BDA, page 49, paragraph 2c(9). Assessment of BDA must be rapid and complete. However, all methods of assessment must be varied to insure the enemy does not compromise the procedure of BDA used. Recommend this procedure be evaluated and considered for inclusion in BDA techniques.

FOR THE COMMANDER:

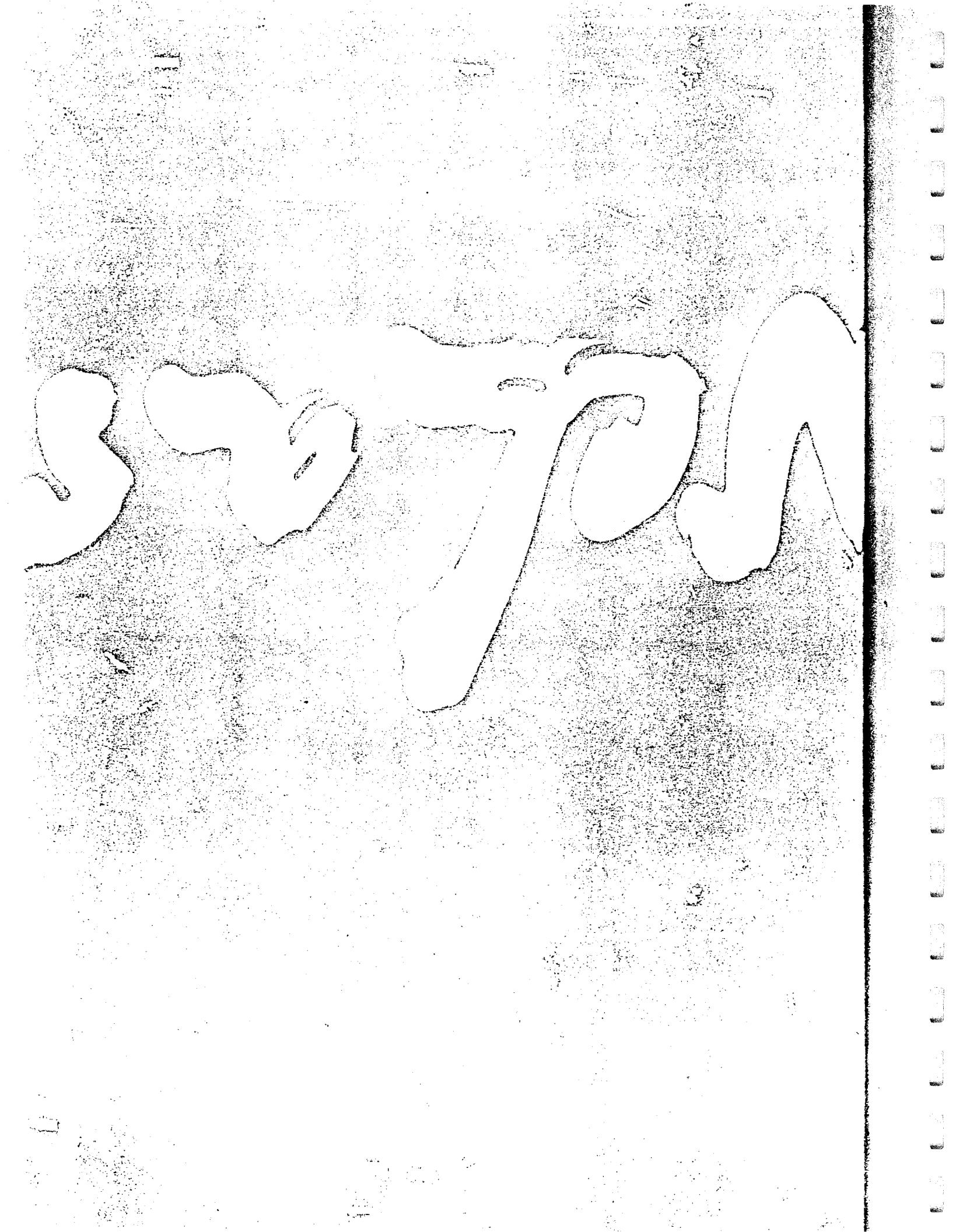
W. H. SMITH
Captain AGC
Assistant Adjutant General

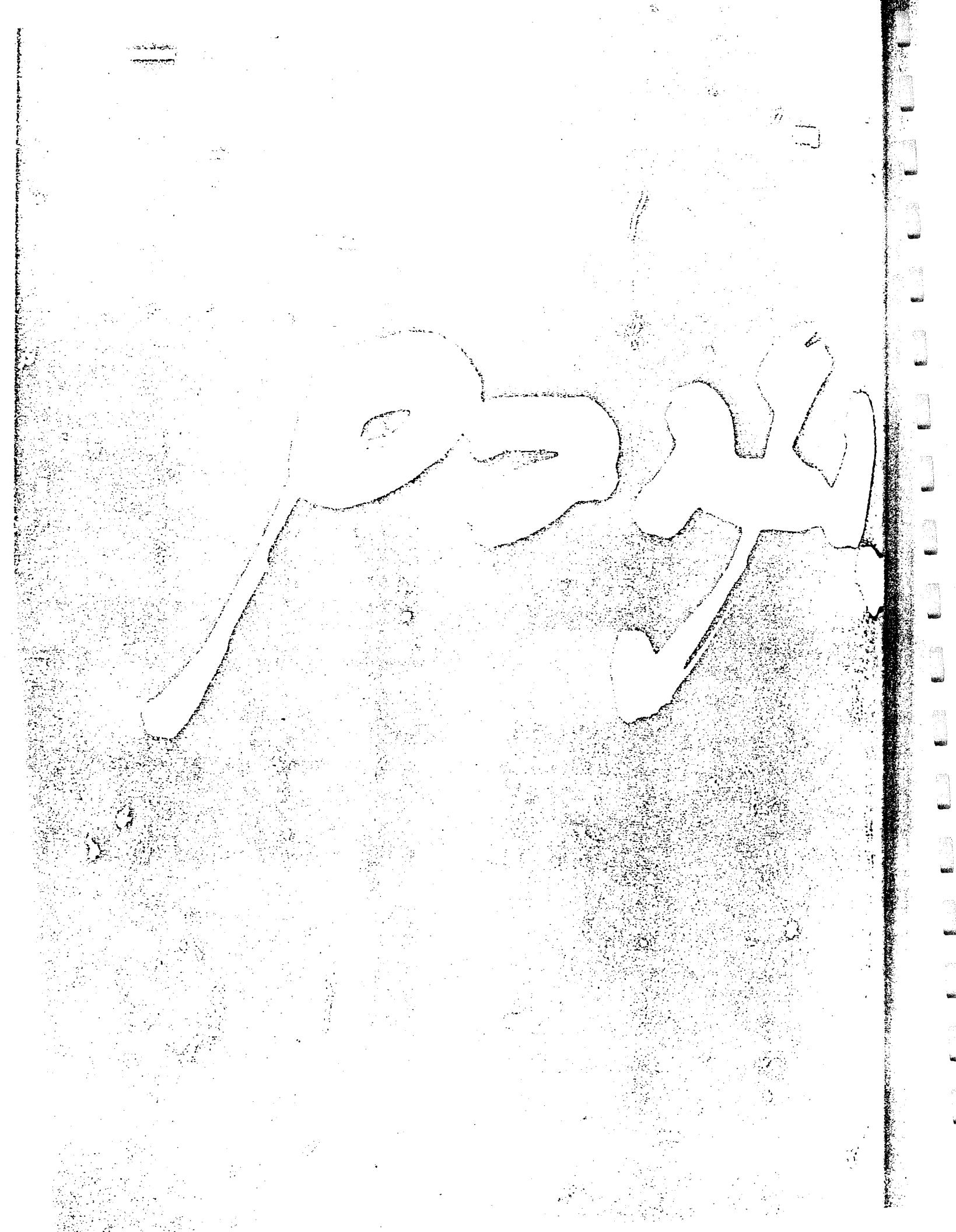
101st Airborne Div
XXIV Corps
C/S Form:
Headquarters Adjutant General
(Attn: AGO)
C/4th A Services Co

FOR THE COMMANDER:

This Headquarters has evaluated the following areas and recommends
that Headquarters in this area be relieved of command of the 101st Airborne
Headquarters Division (Airborne) in favor of the 101st Airborne Division (Airborne)
for the quarterly report, including the following areas and Headquarters
Headquarters.

ARO 96558
The Headquarters in this area is relieved of command of the 101st Airborne
Headquarters Division (Airborne) in favor of the 101st Airborne Division (Airborne)
(R2) (1)
SUBJECT: Quarterly Report - 101st Airborne Division (Airborne) R&O 96558
SUBJECT: Quarterly Report - 101st Airborne Division (Airborne) R&O 96558
AVRIL-OPS (15 Aug 70) 7d 1nd





CPOP-DT (15 Aug 70) 3d Ind (U)

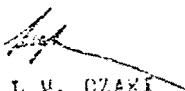
SUBJECT: Operational Report Lessons Learned of HQ, 101st
Airborne Division (Airmobile), for Period Ending
31 July 1970, RCS GSFOR-65 (R2)

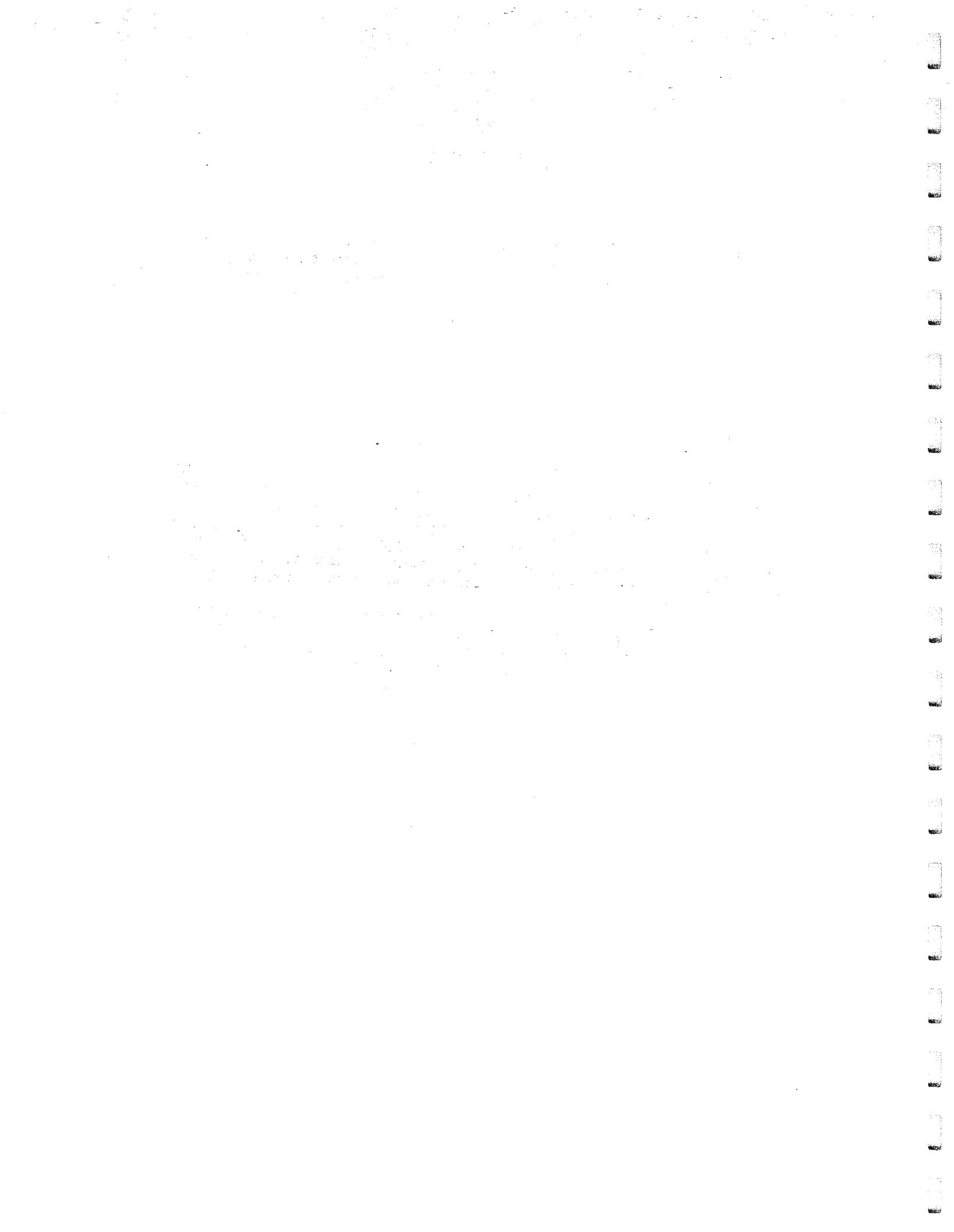
HQ, US Army, Pacific, APO San Francisco 96558 25 MAR 1971

TO: Assistant Chief of Staff for Force Development, Department
of the Army, Washington, D. C. 20310

This headquarters concurs in subject report as indorsed.

FOR THE COMMANDER IN CHIEF:


L.W. OZARK
CPT, AGC
ASST AG



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Inclosure 1 (Operations Narrative) to Operational Report - Incidents Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS OMPR 46 (R2) (U)

terminated at dusk. A sweep revealed 15 NVA KIA, two RPG launchers, one AK-47, one M-60 machine gun, one B-79 grenade launcher and one PRC 25 radio set. Twenty-six US were wounded in the action.

At 232140, vicinity YD438190 (FS/03 GRANITE), Co A, 2d Bn (Abtl), 501st Inf received an enemy ground attack supported by mortar and RPG fire. With flareships, USAF AC-119 "stinger" aircraft, ARA and tube artillery supporting the company, the enemy was repulsed and a first light sweep revealed 10 NVA KIA and one PW captured. The company suffered seven killed, seven wounded, and one missing in action.

On 30 April, FS/03 GRANITE received five separate mortar attacks resulting in 34 US WIA. ARA and tube artillery were employed on suspected enemy positions as air cavalry elements and ground forces searched for enemy mortar positions.

On 1 May, enemy indirect fire attacks continued on FS/03 GRANITE and GLADIATOR. A total of eleven attacks were directed at the fire bases as US ground units aided by counter-mortar radar and serial reconnaissance aircraft continued to search for enemy mortar positions.

On 2 May, sixty-four 55 gallon drums of napalm were dropped in the vicinity of FS/03 HENDERSON to improve fields of fire. The 2d Bn, 54th ARVN Regt made heavy contact south of the firebase resulting in 10 enemy KIA. Enemy mortar attacks continued against FS/03 GRANITE. Air strikes against enemy mortar positions resulted in three NVA KIA, three secondary fires, four bunkers destroyed and one secondary explosion.

The search for enemy mortar positions in the vicinity FS/03 RIFCORD and GRANITE continued on 3 May, with heavy artillery support from FS/03 JACK. At 030330, CAMP EAGLE received seventeen 122mm rockets causing light damage to aircraft and ammunition supply points. Eleven US were wounded in the attack.

At 031130, vicinity YD511063 the 1st Plt, Co C, 2d Bn (Abtl), 502d Inf, while conducting patrol activities, received RPG and small arms fire from an enemy force at 40 meters. The element returned organic weapons fire and employed ARA, tube artillery and air strikes on the enemy positions. A sweep of the contact area revealed 27 NVA KIA. US casualties were one KIA and 15 WIA.

On 4 and 5 May, a heavy artillery battery again moved to vicinity FS/03 JACK and was employed against suspected enemy forces' positions in the enemy vicinity FS/03 GRANITE. The battery returned to CAMP EVANS each night.

On 5 May, contacts by units of the 1st Bde, south of the THREE FORKS area of the SONG BO River resulted in 18 NVA KIA. US casualties were

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Inclusion 1 (Operations Barritive) to Operational Report - Thundere Journey, 1st Airborne Division (Air Cav), Period Ending 31 July 1970, RCV 0300-70 (7) (b)

26 KIA and 26 WIA.

At 0800, vicinity YD44504 (4 KM NW of FS/08 TAN TAVERN) the 1st Bn, 5th ARVN Regt engaged an estimated two enemy platoons in bunkers 50 meters from their position. The enemy returned small arms fire and withdrew. A C-4 employed and a sweep revealed 28 PVA KIA. ARVN casualties were five KIA and 26 WIA.

(2) 6 - 12 May 1970.

(a) On 6 May, the 4th Bn 54th ARVN Regt assaulted into an LZ northwest of FS/08 TAN TAVERN (vicinity FS/08 MILA) and joined the 1st and 2d Bns, 54th ARVN Regt conducted operations against elements of the 66th NVA Regt in the area. On 7 May, the 2d Bn, 54th ARVN Regt was extracted and moved by air to CAMP CARROL and then by vehicle to DONG HA.

In reaction to heavy enemy activity in the FS/08 HENDERSON area on 6 May, Co B, 3d Bn (Ambl), 187th Inf and Co D, 1st Bn (Ambl), 501st Inf passed to the operational control of the 2d Bn (Ambl), 501st Inf and assaulted into the area north of FS/08 HENDERSON on 7 May to locate enemy units. A 3d Bde control element directed operations from the firebase. Companies C and I, 2d Bn (Ambl), 501st Inf passed to the operational control of the 2d Bn (Ambl), 506th Inf and continued operations south of FS/08 RIPCORD.

Co C, 3d Bn (Ambl), 187th Inf and Co D, 1st Bn (Ambl), 501st Inf returned to parent unit control on 8 May and the 3d Bde terminated operations in the FS/08 HENDERSON area as the 2d Bn (Ambl), 501st Inf returned to CAMP EVANS. The 2d Bn, 2d ARVN Regt passed OPCON to the 54th ARVN Regt to provide security for FS/08 HENDERSON.

On 9 May, the 2d Bn(-) (Ambl), 501st Inf redeployed in the division AO vicinity FS/08 GLADIATOR and GRANITE with Co C and D returning to battalion control. Co A remained at CAMP EVANS to augment security and reequip.

On 10 May, the 1st Bn, 1st ARVN Regt terminated operations with the 3d Bde vicinity FS/08 RIPCORD and moved to LA VANG to provide security in the area. The 3d Bde continued operations with two US and one ARVN battalion in the mountains south of FS/08 RIPCORD and PATTON.

Also on 10 May, the division assumed OPCON of Detachment B-52, 5th Special Forces Group (A). Two companies and elements of the headquarters moved by air from NHA TRANG to QUANG TRI and then by vehicle to MAI LOC. The detachment began preparations for insertion of reconnaissance teams into the division AO on 15 May.

On 11 May, the 3d Bn, 54th ARVN Regt terminated operations with the 1st Bde vicinity the SONG BO River and moved by air to FS/08 ANZIO.

On 12 May, the 2d Bn (Ambl), 501st Inf moved to PHU BAI COMBAT B-SZ to conduct battalion refresher training and returned to operational control of the 2d Bde. The 1st Bn (Ambl), 506th Inf returned to OPCON of the 3d Bde and continued operations against elements of the 803 NVA Regt. The CP of the

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Enclosure 1 (Operations Narrative) to Op. Rpt. - ~~Lessons Learned~~,
101st Airborne Division (Air assault), Period Ending 31 July 1970, RCS CHUR-63
(33) (U)

11 May, 2d ARVN Regt moved by air to FS/08 KATHY to prepare for assault of elements of the battalion into area south of the firebase on 13 May in accordance with the 1st Bde.

Throughout the period 6 - 11 May, a Btry (G-in), 1st Bn 30th Arty confirmed daily moves from CAMP EVANS to the area south of FS/08 JACK to deliver heavy artillery on suspected enemy mortar locations in the vicinity of FS/08 GLADIATOR and GRANITE. The battery returned to CAMP EVANS each night.

(b) Significant Activities. At 060505, FS/08 HENDERSON received RPG, small arms fire, satchel charges, recoilless rifle and mortar fire followed by a well organized and coordinated ground attack by the 8th Bn, 66th NVA Regt. Fires, started when the NVA employed flame throwers against the fire base, caused approximately 1000 rounds of 130mm artillery ammunition to explode. Defending forces supported by ARA, tube artillery and gunships accounted for 29 NVA killed. The enemy withdrew at 0720. Co B, 2d Bn (Abnl), 501st Inf moved by air to reinforce Co A, 2d Bn (Abnl), 501st Inf, and to conduct a daylight sweep. Friendly elements received incoming mortar fire sporadically throughout the day. Artillery, ARA, gunships, and air strikes were employed against enemy mortar positions. The 2d Bn, 2d ARVN Regt assaulted south of FS/08 HENDERSON to locate and destroy the remainder of the enemy force. A number of friendly casualties were caused by the exploding 130mm artillery ammunition. Thirty-two US were killed in action, 33 wounded, and two missing in action. ARVN casualties were 19 KIA and 45 WIA.

On 7 May, FS/08 HENDERSON continued to receive sporadic mortar and recoilless fire throughout the day, resulting in four US and three ARVN WIA.

At 070450, YD429122, (FS/08 MAUPERN) the 2d Plt, Co D, 1st Bn (Abnl), 506th Inf received 60mm mortar fire, small arms and satchel charges from an estimated enemy company. The platoon returned fire while a flareship and ARA were employed. Elements of the company moving to reinforce the platoon received small arms fire from an enemy force at 20 meters. The element returned small arms fire and the enemy fled. ARA, gunships and air strikes were employed on suspected enemy locations at 0700. 60mm mortar fire was received by the company at 0800 and again at 1200. Six US were killed in action and 12 wounded. A sweep revealed four NVA KIA.

On 7 and 8 May, the 1st Bn, 54th ARVN Regt continued to engage enemy forces in the FS/08 TUV TAVERN area accounting for 36 NVA KIA. At 080900, vicinity YD043360, the battalion discovered 30 graves containing 97 enemy bodies apparently killed by AF air strikes during the previous week.

At 091030, vicinity YD495954, Co A, 2d Bn (Abnl), 502d Inf received small arms and RPG fire and fragmentation grenades from an estimated 12 - 15 enemy in bunkers. The company returned fire and withdrew as artillery, ARA, gunships, and air strikes were employed. A sweep of the area revealed 18 NVA KIA. US casualties were one KIA and 12 WIA.

The period 10 - 12 May was marked by light contact in the division AO. Eighteen enemy were killed by small arms, ARA, tube artillery, gunships, and air strikes.

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned
101st Airborne Division (Airmobile), Period Ending 31 July 1970, DA Form 10-65
(R2) (U)

(3) 13 - 20 May 1970

(a) On 13 May, the 3d Bn, 3d Regt (ARVN) arrived by air from CAMP BARRY to FS/08 VACHEL to join the 1st Bde conducting offensive operations against elements of the 29th NVA Regt in the mountainous southwest of HUE. The three ARVN companies combat assaulted from FS/08 VACHEL with Companies A and B, 1st Bn (Ambl), 501st Inf, into two landing zones south of the NVA in Hiver. The ARVN companies conducted patrols to the south and the two US companies conducted patrols north toward the river.

Weather postponed the planned insertion of reconnaissance teams of 1st B52, 5th SPC (A) on 15 May. Two teams were inserted into the Vietnamese Salient vicinity XD922283 and XD881240 on 16 May.

On 18 May, in response to intelligence indicating a possible enemy attack against PHU BAI Combat Base and the DONG HU Training Center in celebration of the birthday of HO CHI MINH, Companies B and C, 2d Bn (Ambl), 501st Inf passed to the operational control of PHU BAI Base Defense. Co A passed OPCON to the 1st Bn (Ambl), 502d Inf to screen south of PHU BAI. The division observed a cease fire and all offensive operations terminated with units assuming a defensive posture from 131200 to 191200 May.

On 19 May, the 4th Bn, 1st Regt (ARVN) extracted from the 3d Bde A0 and moved by air to LA VANG to refit and provide security in the area, leaving the 2d and 3d battalions conducting operations in coordination with the 3d Bde south of FS/08 RIPCORD.

Also on 19 May, the 2d Bn (Ambl), 501st Inf completed battalion refresher training and prepared for redeployment into the division A0. Company C assaulted from PHU BAI Combat Base to FS/08 BRICK and prepared to receive artillery. On 20 May, the remainder of the battalion moved by air to FS/08 BRICK to commence search operations in the TA TRACH River Valley, and passed to the operational control of the 1st Bde.

On 20 May, the planned extraction of the 1st Bn (Ambl), 501st Inf from vicinity FS/08 KATHERYN to PHU BAI Combat Base to conduct battalion refresher training was postponed due to inclement weather.

The 2d Bde continued to operate in the piedmont and to deploy mobile Training Teams to increase the capabilities of territorial forces.

(b) Significant Activities. At 160428, vicinity ID487065, Co A, 2d Bn (Ambl), 502d Inf received RPG fire from an enemy location north of their night defensive position. Seven minutes later the company received RPG, automatic weapons and small arms fire from the enemy east and west of the position. The company returned organic weapons and tube artillery fire. A USAF flare ship was employed to provide illumination. At 0521 hours the Recon Plt engaged enemy movement at YD490068. A first light sweep of both contact areas by the Recon Plt revealed five NVA KIA, two AK-47s and one RPG launcher captured. US losses were four KIA and 22 wounded.

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Inclosure 1 (Operations Narrative) to Operational report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS O370A-65 (R2) (U)

At 160650, vicinity YD918236, while supporting the insertion of Recon Team 3, B52, 5th SFG(A), an AH-1G from 3try C, 4th Bn (Aerial Cavalry), 77th Arty (Abn), received 25mm machine gun fire. Directed by the UH-1H command and control aircraft, the Cobra engaged the area killing 35 enemy and destroying two 2½ ton trucks. The 1st Plt, 2d Co, 81st Abn Rgr Bn (ARVN SP) was inserted near the target area to conduct further assessment of the ARVN fires. The element made contact with an estimated 50 enemy, killing three and sustaining one US and one ARVN WIA. The platoon was unable to reach the target area and was extracted from a hot landing zone at 1820 hours by Co B, 158th Avn Bn (Abn) (Abn).

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At 171035, YD417398, a CH-47 from Co B, 159th Avn Bn (Abn) (Abn) received ground fire, crashed and burned. The aircraft was a total loss and five US were killed.

At 181845, A UH-1H aircraft from Co C, 158th Avn Bn (Abn) (Abn) was reported missing with four crew members and two passengers aboard. The Aerial Rifle Platoon, Troop B, 2d Sqn (Abn), 17th Cav was inserted at YD255238 on 19 May to conduct a search for the aircraft. The platoon was unsuccessful in locating the aircraft and was extracted prior to darkness. One member of the missing aircraft crew, who had walked from the crash site to a small landing zone, was extracted at 191400 hours by a UH-1H from Co A, 101st Avn Bn (Abn) (Abn) on a mission for the 501st Signal Bn (Abn). The injured crew member stated the aircraft was hit by ground fire, attempted to make a forced landing on a landing zone, crashed and rolled down a hill into a swampy covered area. He had no knowledge of the exact location of the aircraft or other crew members.

On 19 May, the 2d Co, 81st Abn Rgr Bn (ARVN) was inserted vicinity YD907234 to conduct assessment of the ARVN attack conducted on 16 May. The company photographed two destroyed 2½ - 5 ton type vehicles and was extracted on 20 May. Sporadic contact with the enemy resulted in 13 ARVN WIA during the operation.

At 201135, vicinity YD496069, the Recon Plt and Co A, 2d Bn (Abn), 502d Inf received intense small arms and RPG fire from three sides at 15 meters. The element returned fire, employed ARVN and maneuvered against the enemy. Contact terminated at 1230 hours as the enemy fled leaving one KIA. US casualties were three KIA and nine WIA.

The 2d Bn (Abn), 501st Inf completed refresher training on 19 May and redeployed in the AO on 20 May. The Bn conducted a contact assault vicinity FSB ERICK to conduct search operations in the TA TRACI River Valley and passed to the operational control of the 1st Bn.

Throughout the period 15 - 20 May elements of the 2d and 3d Battalions,

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Inclosure 1 (Operations Narrative) to Operational Report - Issue: 1 May-11, 101st Airborne Division (Airborne), Period Ending 17 April 1970, RIC 00000-65 (R2) (U)

1st Regt (ARVN) made contact with the enemy vicinity HUE resulting in 65 NVA KIA and 11 ARVN WIA.

(4) 21 May - 1 June 1970

(a) On 21 May, the 1st Bn (Abml), 501st Inf moved by air from FS/03 KATHRYN to FS/01 BAI Cesbat Base and began preparation for battalion refresher training. The battalion passed from the operational control of the 1st Bde to O-CON of the 2d Bde. The 3d Bde assumed responsibility for the portion of the THUONG NURK area of the SONG BO River vacated by the extraction of the 1st Bn (Abml), 501st Inf as Co B, 1st Bn (Abml), 506th Inf moved by air from FS/03 RAEGANAN to FS/03 KATHRYN to provide security for the firebase and conduct local patrolling. The 1st Bde continued combined operations southwest of HUE with the 2d Bn (Abml), 502d Inf and the 3d Bn, 3d Regt (ARVN) conducting operations against elements of two battalions of the 29th NVA Regt in the vicinity of FS/02 VACHEL.

On 24 May, Companies A and D, 1st Bn (Abml), 501st Inf moved by air to FS/02 KATHRYN and passed to the operational control of the 1st Bn (Abml), 506th Inf to conduct patrol operations north and south of the firebase. This movement was made in reaction to increased enemy activity in the area.

Also on 24 May, the 1st Bn (Abml), 327th Inf terminated operations vicinity FS/03 EASTOGE and moved south to FS/03 VACHEL to assume control of Area Tango to conduct operations in coordination with the 3d Bn, 3d Regt (ARVN). The 2d Bn (Abml), 502d Inf terminated operations in the vicinity of FS/03 VACHEL and moved north to FS/03 EASTOGE, assuming control of Area Uniform.

On 26 May, the 3d Bn, 1st Regt (ARVN) terminated operations in coordination with the 3d Bde, vicinity FS/03 O'REILLY and BANBAN, and moved by air to LA VANG to conduct stand down. The 4th Bn, 3d Regt (ARVN) moved by air from LA VANG to vicinity ID2433, east of FS/03 BANBANA, to conduct reconnaissance in force operations in the area.

On 27 May, Companies A and D, 1st Bn (Abml), 501st Inf were released from O-CON of the 1st Bn (Abml), 506th Inf and returned by air to FS/03 BIRINGHAM and control of the parent unit. The 1st Bn (Abml), 501st Inf terminated battalion refresher training and assumed control of Area Whiskey from the 1st Bn (Abml), 502d Inf. The 1st Bn (Abml), 502d Inf moved to BHD LAM Combat base to prepare for battalion refresher training to begin on 28 May.

The 2d Bde continued operations in the piedmont in the northern fringes of the canopy of THUA THIEN Province and conducted extensive patrol and night ambush operations in coordination with territorial forces to deny the enemy access to the population in the coastal lowlands.

The division continued to employ extensive ground and aerial sensor devices

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THE BAPTIST

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“ESTRADA DE SÃO JOÃO DA BARRA” é o nome que a estrada que liga a Praia de São João da Barra ao centro da Cidade de São João da Barra, é conhecida. A estrada é pavimentada e tem cerca de 10 km de extensão.

TWO-LEVEL 303

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On 3 June, divisional anti-tuberculosis services announced the recovery of 250

On 2 June, the divisional medical establishment made its first contact of the day, 26 May, with Hego (Army) in the divisional headquarters of IS/23 GVN TAN CHU, about 1000 hours. Hego (Army) had been attacked by elements of the 66th NVA Regt, which had moved from the LUNG VALLEY area. Troops A and B, 1d Bn (ABP), 11th CBW provided counter-

(a) This method was marked by an increase in the average number of units in the first 150° of the distribution. Many and relatively large units were killed in 150° of the distribution. Many and relatively large units were concentrated for 252 V.A. and 20 V.G. killed in 150°. During seven periods.

2 - 9 June 1970 (5)

During the period 1952-53, 150 entries were received in the competition. The best entries were selected by the technical committee and the award ceremony was held on 10th October 1953. The details of the competition are given below.

and independently developed "Aeroflot" (1915 tonnes). The first was a 1915-tonne aircraft developed by the Aeroflot company.

THE BOSTONIAN

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Enclosure 1 (Operations Narrative) to Operational Report - Lessons Learned,
Period Ending 31 July 1979, RCS (CPOM-65)
(F) (C)

— 1st Regt (ARVN) and the extraction of the 3d Bn, 1st Regt (ARVN) from the PS/DB TUN TAVERN area. The 3d Bn, 1st Regt (ARVN) joined to the operational control of the 54th Regt (ARVN). The 1st Bn, 1st Regt (ARVN) moved by air from PS/DB BARBARA and O'REILLY to LA VANG. The 2d Bn, 1st Regt (ARVN) remained in the PS/DB BARBARA - O'REILLY area and assumed the security mission for PS/DB O'REILLY.

At 000000, the 3d Bn assumed CICOM of the 1st Bn (Abtl), 56th Inf from 2d Bds as the battalion completed refresher training and moved by air from CAMP EVANS to PS/DB RIFCORD and QUANTRI to provide security for the firebases and conduct operations in area Quatoc. The 2d Bn (Abtl), 56th Inf terminated operations vicinity PS/DB RIFCORD and moved by air to CAMP SWAN to prepare for refresher training and assumed the mission of Divisional Ready Force.

— Also on 8 June, the 1st Bn, 1st Regt (ARVN) moved by air from LA VANG to PS/DB O'REILLY to provide security for the firebase and conduct local operations in the vicinity of the firebase. The 2d Bn, 1st Regt (ARVN) moved by air from PS/DB O'REILLY to LA VANG to provide security in the area 1 stand down.

— On 9 June, Det B52, 5th SFG(A) extracted all teams from the division area of operation and conducted stand down at HAI LOC. During the period May - 9 June the detachment accounted for 50 enemy killed in action while sustaining seven US KIA, eight US WIA, 4 ARVN KIA and 56 ARVN WIA.

— (b) Significant Activities. At 020430, PS/DB TUN TAVERN, the 2d Bn, 54th Regt (ARVN) received an attack from all sides of the firebase by the 9th Bn, 7th NVA Regt employing 82mm mortar, 75mm recoilless rifle, RPG and small arms fire. Elements on the firebase returned organic weapons fire and employed Mortars, ARA, tube artillery and air strikes. The enemy penetrated the perimeter and was able to occupy bunkers on the east side of the firebase. The situation was static at 0645 hours. At 0930 hours a renewed assault was made on the firebase from the north and northwest but was immediately repelled. The enemy was driven from the firebase by 1115 hours although it continued to receive 75mm recoilless rifle and 82mm mortar fire sporadically throughout the day.

— A sweep of the contact area revealed 81 NVA KIA and one PW. Three US from the 501st Sig Bn (Abtl), in support of the 1st Bn, 54th Regt (ARVN) were casualties. Two were killed and one was wounded in action. ARVN casualties were 50 KIA and 119 WIA. Two US and one Australian advisor were wounded in action.

— At 031453, vicinity YD022354 (1 KM W of PSC LINCHI), the 1st Bn, 54th Regt (ARVN) discovered 20 NVA killed by air force and two bunkers with overhead cover destroyed by air strikes.

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airborne), Period Ending 31 July 1970, RCS CSFR-65 (R2) (U)

At 041500, vicinity FS/03 TANH TAVEN (YD0438570), the 3d Bn, 1st Regt (ARVN), in a sweep conducted near the Tien Hoa, discovered 45 NVA killed by air strikes within the previous 72 hours. At 1630 hours the battalion engaged an enemy force with organic weapons fire, killing 10 NVA while sustaining two KIA. On the following day, elements of the battalion killed four more NVA that had attacked with 82 mm mortar and small arms fire one kilometer southeast of FS/03 TANH TAVEN.

At 060500, the 3d Co, 3d Bn, 1st Regt (ARVN) engaged an estimated two enemy companies with small arms fire at a range of 150 meters at YD043331. This artillery and ARVN were employed and a sweep revealed 11 NVA KIA. At 1410 hours, vicinity YD033343, elements of the 1st Bn, 54th Regt (ARVN) discovered the bodies of 12 NVA KIA.

On 8 June, elements of the division discovered the bodies of seven NVA killed by artillery and air strikes in previous contacts and accounted for 11 more NVA KIA on 9 June as contact with enemy elements in the division AO remained light.

(6) 10 - 16 June 1970

(a) On 10 June, elements of the 140 Bn, 4th NVA Regt launched attacks by fire against units of the 2d Bde occupying FS/03 LOC BANOS, RHU LOC District Headquarters and NJCC HQ/MT Bridge. A simultaneous ground and mortar attack was directed at FS/01 TUMAHAWK. As part of the reaction to this contact the division provided aviation assets to the ROC BAO Company and territorial forces for movement and assault into PHU LOC District to regain contact with the enemy after their withdrawal.

Also on 10 June, Det B52, 5th SFG(A) moved by vehicle to GIAO TRI and prepared for movement to NHA TRANG for stand down.

Poor weather conditions on 12, 13 and 14 June caused postponement of several tactical moves by air and the cancellation of 18 sorties of tactical air support. Improved weather conditions on 15 June permitted the division to continue extensive armed aerial reconnaissance in the division AO and to accomplish the repositioning of several units.

At 150900, the 1st Bn (A1b1), 501st Inf moved by air from FS/03 MATHRYN and passed from the operational control of the 3d Bde to OIC/ON of the 2d Bde. The battalion assumed responsibility for security of FS/01 RAKKASAN and initiated patrol and ambush operations in area Romeo to prevent infiltration of NVA and guerrilla forces into the populated lowlands.

The 1st Bn (A1b1), 506th Inf moved by air from the vicinity of FS/03 RICORD to vicinity FS/03 KATHRYN to assume responsibility for area Sierra.

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Inclusion 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS CEFOR-65 (R2) (U)

and conduct operations to locate and destroy elements of the 803d NVA Regt.

The 2d Bn (Ambl), 50th Inf completed battalion refresher training and redeployed in the AO moving by air from CAMP SWING to PHOB MILICOM to assume responsibility for area Quebec. The battalion provided security for the firehouse and initiated reconnaissance in force operations in the area.

The 1st Bn, 3d Regt (ARVN), operating in coordination with the 1st Bn (Ambl), 327th Inf, conducted a combat assault on 13 June into the area northeast of PHOB GEORGIA, vicinity ZD4406, and began reconnaissance in force operations to the south on two axes.

(b) Significant Activities. At 100140, the 4th NVA Regt began four separate attacks on US units located in PHU LOC District. Co B(-), 2d Bn (Ambl), 327th Inf at FS/03 TOPHAWK, received a ground attack supported by 82mm mortar, RPG and small arms fire by the 7th Sapper Company. Two antiaircraft, A2A, 82mm mortars, fougasse and organic weapons were employed against the enemy. Contact was broken at 0218 hours, although sporadic mortar fire continued until 0550 hours. None of the enemy, estimated to be 70 in strength, penetrated the perimeter. Twenty-eight NVA were killed and three prisoners were captured. One US was killed and two were wounded in action.

At 100144, PHU LOC District Headquarters and the command post, 2d Bn (Ambl), 327th Inf received two RPG rounds, one 122mm rocket and 20 ~ 25 82mm mortar rounds resulting in eight US WIA, including two US MACV advisors and one JSMC.

Between the hours of 0150 and 0445, Co B(-), 2d Bn (Ambl) 327th Inf, at FS/03 BANOS received approximately twelve 82mm mortar rounds, most of which impacted outside the perimeter. One US was wounded in action.

At 100158, mobile training team number 16, located vicinity HUOC HOOT Bridge (ZD152010), received 15 mortar rounds, followed by three more at 0540 hours. The element employed 82mm mortar fire on suspected enemy locations.

At 100520, the 1st Co, 4th Bn, 54th Regt (ARVN), at FS/03 KOY, received 10 ~ 20 82mm mortar rounds. Counter mortar fires were employed, no casualties were sustained.

The period 11 - 14 June was marked by light activity in the division AO. Two US were killed in action as the division accounted for 19 NVA KIA. Twelve NVA bodies were discovered KIA from earlier contacts. The bodies were found in graves or hidden from view in heavily vegetated areas. Gunships from the 2d Sqdn (Ambl), 17th Cav accounted for three NVA KIA. USAF air strikes killed two NVA, and ground action resulted in two NVA KIA.

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS OSFOR-55 (22) (U)

At 150945, gunships from Trp A, 2d Sqdn (Abtl) 17th Cav engaged an enemy force vicinity XD869365. At 1004 hours the Aerial Rifle Platoon, Trp A, 2d Sqdn (Abtl), 17th Cav was inserted to sweep the contact area and confirmed twelve NVA killed by helicopter. The platoon engaged one enemy at 50 meters at 1215 hours resulting in one NVA KIA.

On 16 June, in area Oscar, vicinity PEB CHOMMA, the 1st Bn, 2d Regt (ARVN) made contact with enemy forces employing small arms, RPG and 82mm mortar fire at 0945, 1030 and 1410 hours. The 1st and 2d Companies employed small arms and artillery fire resulting in nine NVA killed by artillery and eight NVA killed by small arms. One ARVN was killed and 20 wounded in the contacts.

(7) 17 - 25 June 1970

(a) On 17 June, at XD868316, elements of Trp A, 2d Sqdn (Abtl), 17th Cav, while conducting visual reconnaissance in the PEB LEATHERNECK area, observed 10 NVA in the open, 150 - 200 log reinforced bunkers, 15 pup tents, two burning camp fires, numerous lean-tos, 10 latrines and a network of trails leading into the area.

Extensive visual reconnaissance by elements of the 2d Sqdn (Abtl), 17th Cav throughout the day on 18 June revealed heavy enemy activity and a large number of additional bunkers in the PEB LEATHERNECK area. The area was engaged by gunships, artillery and air strikes throughout the afternoon. There were two incidents of ground to air fire in the area.

On 19 June, elements of the 2d Sqdn (Abtl), 17th Cav, while conducting bomb damage assessment of air force tactical air strikes, located an evacuated 600 man hospital complex west of PEB LEATHERNECK. Trp D, 2d Sqdn (Abtl), 17th Cav was inserted into the area and discovered medical supplies, rice, grenades and miscellaneous equipment.

On 21 June, Trp D and the Reconnaissance Company (SOC RAO), 1st Inf Div (ARVN) conducted a combined assault into the PEB LEATHERNECK - ROBIN area to seek out and destroy enemy bunkers and cache sites. Continuous air cover was provided by the 2d Sqdn (Abtl), 17th Cav.

Also on 21 June, the 1st Bn (Abtl), 501st Inf redeployed in the 10, passing to the operational control of the 1st Bn and moving by air to PEB BASTOKE. Co A secured the firebase while Companies B, C and D initiated search and attack patrols in the vicinity of the firebase.

The 2d Bn (Abtl), 502d Inf moved by vehicle from vicinity PEB BASTOKE to CAMP EAGLE and prepared for battalion refresher training and assumed the mission of Division Ready Force.

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS CSFOR-65 (R) (U)

On 22 June, a task force under control of the 3d Bde, operating in coordination with the 5th Bn, 2d Regt (ARVN), Companies A, C, D, 2d Bn (Arb'l), 101st Inf, Co B, 1st Bn (Arb'l), 501st Inf, the HOC BAO Company, and elements of the 2d Sqdn (Arb'l), 17th Cav, conducted operations to capture enemy base areas and cache sites in the vicinity of HUB SHEPHERD and SHERMAN. Co A, 2d Bn (Arb'l), 5031 Inf and Co B, 1st Bn (Arb'l), 501st Inf passed from operational control of the 1st Bde to CICON of the 3d Bde and assaulted into FSB SHERMAN. Elements of the 2d Bn (Arb'l), 11th Arty were moved by air to FSB SHEPHERD and SARGE to provide artillery support to the task force.

On 23 June, Det B52, 5th SFG(A) returned to HAT LOC and prepared to resume Operation BARBER GLADE.

On 24 June, the 5th Bn, 2d Regt (ARVN) terminated operations in coordination with the 3d Bde in the FSB LEATHEROCK area and returned to DONG HU.

On 25 June, the 3d Bde Task Force was withdrawn from the northwestern portion of the division AO. Co A, 2d Bn (Arb'l), 5031 Inf and Co B, 1st Bn (Arb'l), 501st Inf returned to parent unit control; the HOC BAO Co returned to HUE and was released to the control of the 1st Inf Div (ARVN); Btry A(-), 2d Bn (Arb'l), 11th Arty moved by air to FSB RIPCORD; and the 2d Sqdn (Arb'l), 17th Cav resumed normal operations. Btry C(-), 2d Bn (Arb'l), 11th Arty remained at FSB SARGE and prepared to redeploy in the 2d Bde AO.

Also on 25 June, Det B52, 5th SFG(A) resumed Operation BARBER GLADE with insertion of the 2d Plt, 44th Ranger Co into the vicinity of XD8344.

(b) Significant Activities. At 170340, vicinity XD441065 (Area Oscar), the light CP, 2d and 3d Companies, 1st Bn, 3d Regt (ARVN), operating in coordination with the 1st Bn (Arb'l), 327th Inf, engaged an estimated enemy platoon near their night defensive position. Organic weapons, tube artillery, ARA, and a flareship were employed and resulted in 32 NVA KIA. ARVN casualties were four with minor wounds.

On 18 June, in the Vietnamese Salient (XD8831), gunships, ARA, and air strikes were employed resulting in 26 NVA KIA. Weather precluded the insertion of Trp D, 2d Sqdn (Arb'l), 17th Cav into the area to conduct patrol and surveillance operations.

The weather cleared permitting insertion of Trp D on the 19th and a recently evacuated hospital complex was discovered. Nine enemy were killed in the Vietnamese Salient.

The insertion of Trp D and the ARA, Trp B, 2d Sqdn (Arb'l), 17th Cav and the HOC BAO Co into the vicinity of FSB ROBIN on 21 June to perform bomb damage assessment and to exploit B52 strikes, resulted in discovery of 62 bunkers, 50 tons of rice, medical supplies, six NVA killed by air force, a shirt iden-

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Appendix 1 (Operations Narrative) to Operational Report - Leaburg Jerome,
1st Airborne Division (Airmobile), Period Ending 31 July 1970, RDS CDR-3

ying elements of the 7th Bn, 60th NVA Regt, and capture of two PWs. Three were wounded in action when the 32d, Cpt B, 2d Bn (ABN), 17th Cav received 113 arms fire and fragmentation grenades from 3 - 4 enemy at 1/2 meters. The unit returned fire but the enemy within 40 and a sweep revealed no enemy casualties.

2d Bn combined task force, inserted into the vicinity PSC JEROME on 24 June, located and destroyed enemy installations and food stores and they were extracted on 25 June. Totals for the period 17 - 25 June in the rear were 65 NVA KIA, two PW, 52 tons of rice, three tons of salt, 10 cases of miscellaneous foodstuffs, three individual and one crew served weapons captured, 19,500 AK-47 rounds, 4,600 12.7mm rounds, 310 RPG rounds, 42 75mm recoilless rifle rounds, and 15 122mm rockets. A total of 283 bunkers were destroyed.

At 221600, vicinity D172268, (1 1/2 KM W of PSC JEROME), the 2d Co, 1st Bn, 18th Regt (ARVN) discovered a training area consisting of a rifle range, 50 houses with underground bunkers, and an ammunition bunker containing 10,000 AK-47 rounds, 200 RPG rounds and 40 NVA uniforms with no markings.

At 231045, vicinity 184256, (2 KM SW of PSC JEROME), the 1st Bn, 1st Regt (ARVN) engaged an estimated two enemy platoons with organic weapons, gunships and tube artillery. The enemy returned small arms fire and fled. A sweep of the contact area revealed 47 NVA KIA and a large enemy base camp resulting in 10 IWC, 11 CSWC, 158,450 AK-47 rounds, 30,000 12.7mm machinegun rounds, 150 RPG rounds, 30 anti-tank mines, 160 bunkers, two animal cages and two PW cages. The area west and south of PSC JEROME is a known rear service area supporting the 812th NVA Regt and the 7th Front. Four ARVS were wounded in action.

At 241430, vicinity D217232, the 1st Bn, 2d Regt (ARVN) discovered graves containing 43 NVA killed by an air force B52 strike approximately 10 days earlier.

(8) 26 June - 7 July 1970

(a) The division continued to provide aviation assets to the 1st Inf Div (ARVN) and the 1st Bde, 5th Inf Div (Mech) throughout this period. Assets were also provided to Det B52, 5th SFG(A), until the termination of Operation BARBER GLADE on 30 June. There were a total of 117 incidents of aircraft receiving ground fire. One aircraft was shot down by 12.7mm machinegun fire and crashed. Nineteen other aircraft were rendered non-flyable.

The division continued extensive employment of ground sensor devices to locate and monitor enemy movement and engage suspected enemy locations with artillery and marine, navy and USAF aircraft. During the period a total of

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Inclosure 1 (Operations Narrative) to Operational Report - Incisions Learned, 101st Airborne Division (Airmobile), Period Ending 1 July 1970, FOB RIPCORD-65 (R2) (U)

323 activations were recorded and 3,970 rounds of sized caliber artillery ammunition were fired in reaction.

The division continued to conduct operations to locate and destroy enemy forces, staging areas and lines of communication, and to prevent enemy infiltration into the populated lowlands and disruption of elections held on 26 June.

On 26 June, division aviation assets were provided for the assault of the 4th Bn, 54th Regt (ARVN) into the area vicinity FSB RIICUM. The battalion CP collocated with the CP, 2d Bn (Abml), 501st Inf to facilitate coordinated operations against elements of the 29th NVA Regiment in area Krey.

On 28 June, an artillery raid was conducted from FSB RIACIE by Btry B, 1st Bn, 63d Arty. Preplanned targets along route 548, vicinity KM REUNIONOUS were engaged.

On 29 June, the 2d Bn (Abml), 502d Inf completed battalion refresher training at CAMP EAGLE and redeployed by vehicle to the vicinity of FSB BASTOGIE. The battalion assumed responsibility for area Unifora, security of the firebase, and initiated search and attack patrols in the vicinity of the firebase. The 1st Bn (Abml), 501st Inf moved from FSB BASTOGIE to PHU LOC District, passed to the operational control of the 2d Bde, and assumed responsibility for area Zulu and security of FSB LOS BANCOS and TOMAHAWK. The 2d Bn (Abml), 327th Inf moved by air and vehicle from PHU LOC District to CAMP EAGLE and began preparation for battalion refresher training. The battalion also assumed the mission of Division Ready Force.

On 30 June, Det B52, 5th SPG(A) terminated Operation BARRIER GRADE and prepared to move by air to KHA TRANG.

The period 1 - 7 July saw a marked increase in enemy activity in the 3d Bde area of operation as elements of the 603d and 6th NVA Regiments conducted daily attacks by fire on FSB RIPCORD. More than 160 rounds of 60mm and 82mm mortar and 75mm recoilless rifle fire were directed at the firebase during the first seven days of July, resulting in 21 US WIA. In the vicinity of the firebase US units engaged in 23 enemy and eight friendly initiated contacts, resulting in 30 NVA KIA, nine IWC, and two CSWC. US casualties were 13 killed and 104 wounded.

On 1 July, the Aero-rifle Platoon, Twp C, 2d Sqdn (Abml), 17th Cav was inserted west of FSB RIPCORD in reaction to the enemy attacks by fire on the firebase. When the platoon received fire on the landing zone, Twp D, 2d Sqdn (Abml), 17th Cav was inserted to reinforce the ARP. These elements passed to operational control of the 2d Bn (Abml), 506th Inf until they were extracted on 2 July, returning to parent unit control at 1810 hours.

Also on 1 July, the 1st Bde passed operational control of the 2d Bn (Abml),

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCE (SFOR-65) (R2) (U)

501st Inf to the 2d Bde and responsibility for 13/CS BRICK and area X-ray to the 4th Bn, 54th Regt (ARVN). The 2d Bn (Abn), 501st Inf moved by air from vicinity FS/CS BRICK to PHU CAT Combat Base to prepare for movement to CAMP EVANS and redeployment.

On 2 July, the 2d Bn (Abn), 501st Inf passed to the operational control of the 3d Bde and assaulted into landing zones south and southwest of FS/CS RIPCORD. The battalion CP collocated on the firebase with the 2d, 2d Bn (Abn), 506th Inf.

On 5 July, three battalions were repositioned in support of the battalion refresher training program. The 1st Bn (Abn), 501st Inf terminated operations in PHU LOC District and moved to vicinity FS/CS VECSEL and passed OPHEN to 1st Bde. The 1st Bn (Abn), 327th Inf terminated operations vicinity FS/CS VECSEL and NSA to CAMP EAGLE, closing at 1612 hours, and began preparation for refresher training. The battalion assumed the mission of DRW at 0807 hours. The 2d Bn (Abn), 327th Inf completed refresher training and returned to PHU LOC District and reassumed responsibility for area Phu.

On 5 and 6 July, Troops C and D, 2d Sqn (Abn), 17th Cav moved to Quang Tri, joining Troop A, to facilitate the concentration of airmobile cavalry elements in the northeast portion of the division AO. This movement was in reaction to intelligence concerning infiltration of the 9th Regt, 304th NVA Division into South Vietnam.

On 6 July, additional artillery (three 155mm howitzers) from Btry A, 2d Bn (Abn), 11th Arty were moved from FS/CS RAKKASAN to FS/CS RIPCORD in support of operations in that area. Six 105mm howitzers of Btry B, 2d Bn (Abn), 319th Arty and six 155mm howitzers of Btry A, 2d Bn (Abn), 11th Arty were located on the firebase at that time.

On 7 July, the 1st Bn, 3d Regt (ARVN) terminated operations vicinity FS/CS VECSEL and GEORGIA and moved by air and vehicle to CAMP SALLY to begin refresher training for future operations.

(b) Significant activities. On the morning of 26 June, CAMP EAGLE was twice attacked by fire. At 0009 hours approximately ten 82mm mortar rounds impacted in the area of the 2d Bn (Abn), 520th Arty and the 4th Bn (Aerial Arty), 77th Arty (Abn). One US was killed and eight wounded during the attack. Two UH1H helicopters and one acrobatic were damaged, and one maintenance tent was destroyed. At 0247 hours seven 120mm rockets impacted in the areas of Co B, 159th Avn Bn (ASB) (Abn), 4th Bn (Aerial Arty), 77th Arty (Abn), 265th RRU, 801st Maint Bn (Abn), Div Arty, and G Sector of the CAMP EAGLE perimeter. Results were four US WIA; one AH1C helicopter and one 3/4 ton M77 truck destroyed; one OH-47, one AH1G, two 2 1/2 ton M55 trucks, two 3/4 ton M77 trucks and two M151 jeeps, damaged. Aerial rocket artillery, tube artillery and mortar fire was employed on suspected enemy locations. Aerial

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS OUFOR-65 (R2) (U)

reconnaissance of the rocket belt and suspected enemy firing positions revealed one NVA KIA.

At 260235, vicinity ID442110, the 1st Plt, Co B, 1st Bn (Abtl), 506th Inf received RPG and small arms fire in their night defensive position. The platoon returned small arms fire and employed ARA and a flagship. A first light sweep of the contact area revealed six NVA KIA, two AK-47s, two RPG launchers, two RPG rounds, and 25 $\frac{1}{2}$ pound satchel charges. US casualties were four MI and eight WIA.

Light and sporadic contact in the division area of operation during the period 26 - 30 June resulted in eight NVA KIA and one US killed and eleven wounded.

On 1 July, at 0708 hours, on PS/CS RIFCOPD, the CP and Co D, 2d Bn (Abtl), 506th Inf received five 82mm mortar rounds and small arms fire from the southeast. At 0850, the firebase received 15 rounds of 82mm mortar fire which impacted inside the perimeter. At 1345 hours, the enemy employed 16 75mm recoilless rifle rounds, 6 - 8 impacting inside the firebase perimeter. At 1912 hours, four rounds of 82mm mortar fire landed on the firebase. Artillery, air strikes and organic mortar fire were employed on suspected enemy locations throughout the day. Fifteen US received minor wounds during the day, all from Btry B, 2d Bn (Abtl), 319th Arty, located on the highest point of the firebase. Most of the casualties occurred as the battery was employing counter-battery fire.

At 011045 hours, approximately 1500 meters southeast of PS/CS RIFCOPD, Co B, 2d Bn (Abtl), 506th Inf received fire from 75 meters west of their position. The element returned organic weapons fire and a pink team was employed. A sweep of the area after contact revealed one NVA KIA. Two US were wounded. At 2225 hours the company received 8 - 10 RPG rounds and small arms fire from 100 meters south of their position. Elements returned fire and the enemy withdrew. There were no friendly casualties or damage.

Also on 1 July, Regional and Popular force units joined by ARVN infantry and armored elements, and the 100th Bn Company, waged a 16-hour battle near Quang Tri with main force enemy units, resulting in 135 enemy killed and 17 captured. GM forces suffered 12 KIA.

At 020346 July, vicinity ID337172 (Hill 902), the CP and 1st and 2d Plts, Co C, 2d Bn (Abtl), 506th Inf received RPG, satchel charges and small arms fire in their night defensive position. An estimated sapper company, in a well organized and executed attack, were successful in penetrating the perimeter and occupying positions inside the HDP. The enemy sappers and elements of Co C exchanged satchel charges and fragmentation grenades in a fierce battle until the enemy within the perimeter were killed, and the remainder withdrew at ap-

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Enclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, LRR CHIEF-65 (R2) (J)

proximately 0420 hours. The company commander was killed in the initial exchange of fire. The company medic immediately organized the defense of the position until relieved later by the artillery forward observer. Periodic contact and mortar fire continued until approximately 0530 hours. Totals of the action were 15 NVA KIA, seven US WIA, six US WIA and one US KIA.

On 3 July, between the hours of 1430 and 1500, in the vicinity of XD9744, approximately one kilometer northeast of the FS/CB RIFCORD airstrip, an individual from Co A, 2d Bn (Abn), 17th Cav, conducting aerial reconnaissance, engaged approximately 14 enemy, killing twelve. The A/P, Co A, 2d Bn (Abn), 17th Cav was inserted at XD790443, engaged two enemy in tanks resulting in two NVA KIA, one US KIA, and two US anti tank gun crew wounded. The platoon was extracted at 1820 hours.

At 040950, vicinity ID372170, an individual from Co C, 2d Bn (Abn), 501st Inf, while the company was conducting a search and attack operation southeast of FS/CB RIFCORD, detonated a booby trap consisting of five 82mm mortar rounds, placed along the trail and daisy chained. Three rounds were placed on the right side of the trail and two on the left. Five US were killed and five wounded.

On 4 July, FS/CB RIFCORD was attacked by fire for the fourth day in a row. A total of nine attacks were directed at the firebase, three consisting of 82mm and 60mm mortar CG rounds. Three US were wounded.

At 050010, vicinity ID377159, Co C, 2d Bn (Abn), 501st Inf, while in their night defensive position southwest of FS/CB RIFCORD, engaged three enemy with small arms fire 20 meters to the west of their position. The enemy returned small arms fire and satchel charges, and appeared to flee. At 0510 hours the company was attacked with satchel charges and returned organic weapons fire. The enemy again withdrew and AH and a flareship were employed. A sweep under illumination revealed no enemy casualties. Three US were wounded.

At 0605 hours, the company received 8 - 10 RPG rounds and small arms fire, again from the west. This time a sweep revealed five NVA KIA, five AH-47s, twenty-eight 1-pound satchel charges and two NVA gas racks. One US was killed and 14 were evacuated for wounds.

At 051240, vicinity ID336161, three kilometers south of FS/CB RIFCORD, Co A, 2d Bn (Abn), 506th Inf engaged 8-10 enemy with small arms and artillery fire, killing five NVA. Two US were wounded by RPG fire.

On 6 July, enemy contact in the FS/CB RIFCORD area by elements of the 1st Bn (Abn), 506th Inf resulted in three NVA KIA, and 20 US WIA. At 1730 hours, three kilometers southwest of FS/CB RIFCORD, 15 US were wounded in Co A, 2d Bn (Abn), 501st Inf, by small arms fire and fragmentation grenades from an estimated enemy company on all sides of the friendly position.

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“**THE** **END** **OF** **THE** **WORLD** **IS** **NOT** **AT** **THE** **END** **OF** **THE** **WORLD**” **(1945)** **IS** **NOT** **THE** **END** **OF** **THE** **WORLD** **AS** **IT** **WAS** **IN** **1945**, **BY** **DEFINITION** **IT** **IS** **NOT** **THE** **END** **OF** **THE** **WORLD** **AS** **IT** **WAS** **IN** **1945**.”

“*प्राणी जीवों की जीवन की विधि विद्या*” एवं “*जीवों की जीवन की विधि विद्या*” का अनुवाद विद्यालय के अधिकारी द्वारा दिया गया है। इस अनुवाद का अनुवाद विद्यालय के अधिकारी द्वारा दिया गया है।

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Enclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Air assault), Period ending 31 July 1970, RCS CSFOR-65 (R2) (U)

area was engaged by AAA and AAA, resulting in 50 enemy killed. Air to ground contact continued throughout the day. At 1330 hours, two more enemy were killed by gunships in the vicinity of XD025363. Trp B, 2d Sqn (Arbl), 17 Cav was inserted at this location, at 1530 hours and captured three prisoners. While collecting enemy equipment, weapons and documents for extraction, and sweeping the contact area, the troopers were engaged by an estimated battalion size enemy force. During the engagement, 24 NVA were killed and Trp D suffered six KIA and five WIA before being extracted at 1750 hours. Aircraft screening the ground troop continued to engage enemy in the area. At 1900 hours, vicinity XD025363, aircraft from Trp A observed and engaged an active 12.7mm machinegun position, destroying the weapon, one RPG launcher, one radio and four rucksacks lying in the vicinity. At 1745 hours, a command and control aircraft, flown by the CO, 2d Sqn (Arbl), 17th Cav, landed and extracted one wounded NVA PW. The final contact of the day occurred at 1919 hours, when aircraft from H-3, 2d Sqn (Arbl), 17th Cav observed 10 - 15 enemy near an active 12.7mm machinegun position. The crew was engaged with H-60 machinegun fire and AH-1G gunships, resulting in the destruction of the weapon and 10 enemy killed.

Also on 8 July, vicinity XD025363, the enemy again refused to be dislodged from Hill 1000. Companies C and D, 2d Bn (Arbl), 506th Inf were engaged with small arms and antitank weapons fire by an enemy in well fortified bunkers, at 1030 hours. Intensive fire from at least three mutually supporting bunkers, pinned the companies down. One bunker was neutralized with H-2 LAW fire, but the other two could not be destroyed. Contact was terminated at approximately 1300 hours as the companies again moved off the hill. US casualties were two killed and four wounded.

At 091615 hours, vicinity XD025363, aircraft from Trp A, 2d Sqn (Arbl), 17th Cav observed ten NVA bodies killed during the previous night by heavy artillery employed from CAMP GILDED by Btry B, 8th Bn, 4th Arty. Cavalry aircraft killed two other enemy in the H-2 SAW Plateau area during the day.

On 10 July, beginning at 0735 hours, 10/CS RIFCMB was attacked by fire on eight separate occasions during the day. The enemy employed 60mm and 82mm mortar and 75mm recoilless rifle fire, resulting in two US KIA and 17 US WIA.

Also on 10 July, aircraft from Troops A and B, 2d Sqn (Arbl), 17th Cav killed 26 NVA in scattered air to ground contact in support of Operation CLINCH VALLEY.

On 11 July, Troops A and B killed 14 NVA in support of ARVN ground forces in the CLINCH VALLEY AO, and the 1st Bn, 3d Regt (ARVN) killed five enemy while sweeping in the vicinity of XD025361.

At 110500 hours, vicinity XD033362, the 1st Ln, 3d Regt (ARVN) discovered thirty enemy bodies killed by helicopter, one, between the hours of 1845 and

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS CUFOR-65 (N2) (U)

the 1st Bds, and moved by air from FS/CB KATHRYN to FS/CB BASTOCHE, assuming responsibility for the firebases.

On 10 July, the 1st and 2d Battalions, 3d Regt (ARVN) assaulted into FS/CB SNAPPER and SMITH, respectively, to begin reconnaissance in force operations. The 3d Regt light CP moved by air to FS/CB SHEPHERD. The 3d Bde tactical CP moved to CAMP CANROL and maintained direct coordination with the 3d Regt (ARVN).

On 11 July, division aviation assets were provided to support the assault of a platoon of the HAC FAC Company, with four members of Co L (Raider), 75th Inf, into the CLINCH VALLEY area. The assault and subsequent patrolling operations culminated an extensive training program conducted by the Screening Single Replacement Training School (SSRTS).

The 1st Bn (Abtl), 327th Inf completed refresher training and moved by vehicle and air, from CAMP LACLA, to FS/CB VEGHEL and KATHRYN. The 1st Bn (Abtl), 501st Inf moved from FS/CB VEGHEL to NAM HAI Combat Base, assumed the mission of DRF, and prepared for refresher training.

The 2d Bn (Abtl), 501st Inf moved from FS/CB RIFCORD and vicinity, to CAMP EVANS, to refit and prepare for redeployment against elements of the 603d NVA Regt, vicinity FS/CB RIFCORD. On 12 July, the battalion assaulted into the vicinity of XD3519 and XD3118 and began attacks to the south and east.

Operation CLINCH VALLEY was terminated at 151802 July, as the 1st and 2d Bn, 3d Regt (ARVN) extracted from FS/CB SNAPPER and SMITH to vicinity NAM LOC and then moved by air to CAMP SALLY. The 2d Bn (Abtl), 502d Inf moved by air from FS/CB SHEPHERD to CAMP HAGUE, returned to operational control of the 1st Bds, and prepared for redeployment.

Results of Operation CLINCH VALLEY (Period 091315 to 151802 July) were 226 NVA KIA (163 by US, 53 by ARVN), 15 WOC (ARVN), and 14 CSMC (3 by US, 11 by ARVN). There were no Allied casualties reported during the operation.

Elements of the 803d and 6th NVA Regiments continued to conduct stand-off attacks against FS/CB RIFCORD during the period 8 - 16 July. The enemy employment of 60mm and 82mm mortar and 75mm recoilless rifle fire, on 10 July, resulted in two US killed and 17 wounded, on the firebases. Ground action around the firebases, vicinity Hills 1000 and 805, resulted in ten US KIA, 52 US WIA, and 12 NVA KIA.

Between the hours of 1000 and 1600, on 16 July, the USS EDSON fired 224 five inch rounds at bunkers and caves in the mountains north of NAM LOC District, sealing four caves, and causing two secondary explosions.

(b) Significant Activities. At 081130 hours, vicinity XD326363, aircraft from Trp A, 2d Bn (Abtl), 17th Cav observed 150 - 200 NVA in the open. The

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS CSFOR-65 (R2) (U)

1920, discovered 100 enemy killed by air strikes within the past 36 hours.

At 122222 hours, vicinity 10362108 (Hill 805), Co D, 2d Bn (Abn), 501st Inf, while in their night defensive position, received 50 to 40 RPG rounds and small arms fire, from an enemy force, 250 meters to the northeast. The company returned organic weapons fire, and ADA, air strikes and a flare ship were employed. Sixteen US were wounded.

At 121355 hours, vicinity 103640359 (one kilometer north of FS/CB CHAPFER), the 3d Co, 1st Bn, 3d Regt (Abn) engaged an estimated 40 enemy with organic weapons fire. A sweep revealed 50 NVA KIA, one RPG machinegun, four RPG launchers, six AK-47s, one 60mm mortar, complete, 100 rucksacks, 35 Chicom grenades, 60 RPG and 120 60mm mortar rounds, 60 Chicom gas masks, and 15 pounds of documents.

Also on 12 July, vicinity 10170240, 3½ kilometers southwest of FS/CB JERIC, the 3d Co, 3d Bn, 1st Regt (Abn), discovered the bodies of 65 NVA killed by air strikes within the last 3 - 4 days.

On 13 July, General William C. Westmoreland visited the division.

At 140203 hours, vicinity 10362108, Co D, 2d Bn (Abn), 501st Inf, while in their night defensive position on Hill 805, again received RPG and small arms fire from an enemy force, 20 meters northeast of their position. The element returned organic weapons fire and employed H55 .50 caliber fire (quad 50) from FS/CB RIFCON, and 81mm mortar fire, air strikes, and ADA. Contact terminated at 0307 hours and a first light check of the area revealed five NVA KIA. The company suffered six KIA and nine WIA. At 2253 hours, the company received small arms fire and RPG fire and satchel charges, and at 0159 hours, received thirty-seven 82mm mortar rounds, impacting around their ZDP. Organic weapons, ADA, tube artillery and mortar fire was employed against the enemy. One US was killed in the action. A first light sweep revealed numerous blood trails.

On 14 July, Companies A and B and the Recon Plt, 2d Bn (Abn), 501st Inf, in yet another attempt to eject the enemy from Hill 1000, was engaged by RPG, small arms and mortar fire, resulting in one US KIA and 20 WIA. Organic weapons, ADA, tube artillery and air strikes were employed against enemy positions and well fortified bunkers on the hill. Partial sweeps of the area revealed five NVA KIA. Elements withdrew to the vicinity of 10325109, where, at 1715 hours, they received 82mm mortar fire without casualties. Artillery was employed on the suspected enemy location.

Operation CLECH VALLEY was terminated at 151002 July.

At 161815 hours, vicinity 10360108 (Hill 805), Co D, 2d Bn (Abn), 506th Inf discovered two NVA killed by artillery within the last 24 hours.

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Air assault), Period Ending 31 July 1970, RCS CSFOR-65 (R2) (U)

(10) 17 - 23 July 1970

(a) On 17 July, FS/OB RIPCORD received sporadic mortar fire throughout the day with light damage and casualties on the firebase. The enemy employed 120mm mortars for the first time since the firebase was opened in April 1970. The planned extraction of the 2d Bn (Abn), 501st Inf was postponed due to high winds in the RIPCORD area.

The 2d Bn (Abn), 502d Inf moved by air to LZ ABR (vicinity FS/OB VEGHEL), staged, and conducted an assault into three landing zones south of FS/OB BIASE. The battalion initiated search and attack operations in the TENNESSEE area.

On 18 July, the 2d Bn (Abn), 501st Inf moved by air from FS/OB RIPCORD to CAMP EVANS and then by vehicle to BMU RTI Combat Base to begin preparation for refresher training and assumed the mission of DMF.

At 181330, a CH-47 in logistical support of FS/OB RIPCORD, was shot down by enemy ground fire and crashed in the 105mm ammunition storage area, causing a major fire and extensive damage on the firebase. All six 105mm howitzers of Btry B, 2d Bn (Abn), 319th Arty were destroyed. In-reaction, the 1st Bn (Abn) (-), 501st Inf passed to operational control of the 2d Bn, and assaulted into FS/OB GLADIATOR to secure the firebase for insertion of Btry B, 2d Bn (Abn), 320th Arty. This move was made to insure adequate artillery coverage for the RIPCORD area.

On 19 July, FS/OB RIPCORD continued to receive sporadic mortar fire, causing light casualties but not interfering with damage repair and clean up operations on the firebase.

Also on 19 July, the 4th Bn, 54th Regt (ARVN) terminated operations in area XRAY and moved by air from FS/OB BRICK to FS/OB ROY and ANZIO.

On 21 July, the 2d Bn (Abn), 502d Inf terminated operations in search of elements of the 29th NVA Regiment, in the vicinity of TENNESSEE and extracted by air to CAMP EAGLE to refit and prepare for future operations to support insertion of Allied forces into the FS/OB AIRBORNE-BRADLEY area.

On 22 July, the 1st Bde passed responsibility for FS/OB BASTOGNE and Area Uniform to 2d Bde. Co A, 1st Bn (Abn), 502d Inf moved by vehicle from FS/OB BIRMINGHAM to FS/OB BASTOGNE and assured security of the firebase. Co B, 1st Bn (Abn), 502d Inf moved by vehicle from FS/OB ARSENAL to vicinity ID6409 and began patrol and surveillance operations in the vicinity of FS/OB BASTOGNE.

Because of the enemy buildup of forces and the increased tempo of enemy attacks in the FS/OB RIPCORD area, it became apparent that the cost and effort required for the self-defence of RIPCORD placed the accomplishment of future

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airborne), Period Ending 31 July 1970, RCS CSPOB-65 (R2) (J)

operations in the enemy's rear supply and service areas, vicinity of BRADLEY and AIRBORNE, in jeopardy.

On 23 July, the 3d Bde directed the extraction of the 2d Bn (Abn), 506th Inf from FS/03 RIPCORD, and vicinity. Extraction from the firebase began at 0545 hours and was completed, despite heavy indirect and 12.7mm machinegun fire, at 1214 hours. Co D, 2d Bn (Abn), 506th Inf was inserted vicinity ID353178 to assist the extraction of Co A, 2d Bn (Abn), 506th Inf. Extraction of Companies A and B began at 1305 hours and was completed without damage or casualties at 1401 hours. Seventy-four USAF, Marine and Navy tactical air sorties and continuous anti-aircraft artillery fires were employed in support of the extraction. The battalion moved to CAMP LITANS to conduct stand down and began preparation for refresher training.

(b) Significant Activities. FS/03 RIPCORD received six attacks by fire from enemy forces employing 60mm, 82mm, and 120mm mortars on 17 July, beginning at 0704 hours. The last attack was at 1745 hours. Artillery and tactical air support was employed on suspected enemy locations throughout the day. Results were 14 US WIA and one Kit Carson scout WIA.

At 181330, a CH-47 aircraft from Co A, 159th Avn Bn (ASB) (Abn), carrying a sling load of 105mm howitzer ammunition to FS/03 RIPCORD, received 12.7mm machinegun fire while on approach to the firebase. The aircraft crashed into the 105mm ammunition storage point, causing a major fire. Extensive damage was caused in Btry B, 2d Bn (Abn), 319th Arty, as well as the bunkers and TOC on the southern portion of the firebase. Five howitzers from the battery were destroyed and one damaged. An AN/FPS-4A counter-mortar radar, two 106mm recoilless rifles, and an AN/GRC-163 VHF radio set were also destroyed. The firebase continued to receive sporadic enemy mortar fire throughout the day, resulting in one US KIA and four US WIA. The crash of the helicopter resulted in one crew member killed and five crew members wounded. In spite of the fire, and exploding 105mm ammunition on the firebase, the perimeter remained intact, and by late afternoon the fires were brought under control and clean up operations began on the firebase. To assist in defending the firebase, artillery fires were increased from FS/03 RAZZAKA, O'REILLY and RAZZAKA until Btry B, 2d Bn (Abn), 320th Arty was laid and ready to fire from FS/03 GIANTATOR at 1837 hours.

FS/03 RIPCORD continued to receive sporadic mortar fire on the firebase throughout the period 19 - 22 July. A total of 34 stand-off attacks were conducted by the enemy during these four days resulting in seven US KIA and 35 US WIA. All but five wounded required evacuation. A total of 51 tactical air strikes were directed into the RIPCORD area between 19 and 22 July.

On 20 July, contact by Co D, 1st Bn (Abn), 506th Inf and Co A, 2d Bn (Abn), 506th Inf, east and south of Hill 805, vicinity FS/03 RIPCORD, resulted in six NVA KIA. Heavy contact at 1730 hours by the 1st Plt, Co D, 1st Bn

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 1st Airborne Division (Airmobile), Period Ending 31 July 1970, RCB CHIEF-6, (R) (U)

Ambl), 506th Inf with an enemy force employing both mortar and small arms fire, vicinity YD376189, resulted in four US KIA and five US WIA. Contact terminated at 1820 hours.

At 210712 hours, vicinity YD376192, three kilometers east of MS/OB RIFCORD, Co D, 1st Bn (Ambl), 506th Inf, while preparing to leave their night defensive position, received approximately eighty 82mm mortar rounds and small arms fire from an enemy force and around their position. As the company returned fire with organic weapons and employed twin artillery and ARA against the enemy, Co D, 2d Bn (Ambl), both IAF air assaulted from vicinity YD350240, to an LZ north of the contact area. The company attacked to the south to reinforce Co D, 1st Bn (Ambl), 506th Inf, making light contact with the enemy patrols, suffering four WIA, capturing a 12mm machinegun, and discovering a large bunker complex at YD372198. Co C, 2d Bn (Ambl), 506th Inf was inserted to destroy the bunker complex.

Co D, 2d Bn (Ambl), 506th Inf linked up with Co D, 1st Bn (Ambl), 506th Inf at 1223 hours as sporadic mortar fire continued to impact in the area until 1615 hours. Air strikes and a pink team supported the contact as Co D, 1st Bn (Ambl), 506th Inf suffered five KIA and 31 WIA, and accounted for eight NVA KIA.

At 0840 hours, a UH1H helicopter from Co C, 326th Med Bn (Ambl), while attempting to extract casualties from Co D, 1st Bn (Ambl), 506th Inf area of contact, was hit in the tail boom by an RPG round, while in the pick-up zone, and rendered non-flyable. At 0947 hours, another medevac aircraft from Co C, 326th Med Bn (Ambl) was hit by small arms fire in the same pick-up zone, resulting in one crew member killed and one wounded. The aircraft returned to CAMP EAGLE where it was found to be non-flyable. A third aircraft, from Co A, 1st Avn Bn (Ambl), was hit by small arms fire at 1658 hours, while attempting to extract elements of Co D, 1st Bn (Ambl), 506th Inf. The aircraft crashed and caught fire on the LZ. Six other aircraft received ground fire in the RIFCORD area during the day with three being hit by machinegun and small arms fire, all returned to CAMP EVANS and one was found to be non-flyable.

At approximately 1700 hours, Companies C and D, 2d Bn (Ambl), 506th Inf and Co D, 1st Bn (Ambl), 506th Inf were extracted from a pick-up zone at YD372198 and returned to CAMP EVANS to refit and prepare for future insertion into the RIFCORD area.

At 221500 hours, vicinity YD353187, 1.5 kilometers southeast of MS/OB RIFCORD, Co A, 2d Bn (Ambl), 506th Inf received rifle grenades, mortar and small arms fire from a large enemy force attacking from the north, east and southeast. The artillery, ARA and tactical air support were employed against the enemy. Contact was maintained until dark when the company consolidated their position and formed a defensive perimeter. Because of the close proximity of the estimated three-company size enemy force, extraction of the wounded was not

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airmobile), Period Ending 31 July 1970, RCS CSFOR-65 (R2) (U)

attempted during the night. Most of the fifty-one personnel wounded in the company were not serious. Those who had more serious wounds were made as comfortable as possible until they were extracted on the morning of the 25th. Twelve US were killed during the day and the company accounted for 61 NVA KIA.

During the night of 22 - 23 July massive artillery and air strikes were employed in the RIFCORD area against known and suspected enemy locations.

Mixed Artillery

More than 2200 rounds of mixed caliber artillery ammunition were fired in support of the extraction of the 2d Bn (Abtl), 506th Inf on 25 July. Fourteen CH-47 aircraft were employed commencing at 0545 hours to extract 22 sorties, which included six 105mm howitzers, two M-40s dozers, communications equipment, and one M55 (Quad 50) machinegun. The CH-47 extraction operation proceeded smoothly until 0740 hours, when one CH-47 was shot down on the firebase by 12.7mm machinegun fire. The aircraft was forced to land amidst the 105mm howitzers which had been destroyed on 18 July, and thus prevented the extraction of the artillery pieces and two 106mm recoilless rifles. The CH-47 received a direct hit by an enemy mortar round, causing the aircraft to burn and explode. Eight additional CH-47 aircraft received hits during the extraction, four were later determined non-flyable. Co B, 2d Bn (Abtl), 506th Inf began extraction at 0745 hours by UH1H but was delayed until 0935 hours by heavy enemy 60mm and 82mm mortar fire. The extraction was conducted by infiltrating one UH1H aircraft into the firebase at a time.

During the extraction, FS/CB RIFCORD was under continuous enemy mortar fire, with several hundred rounds impacting throughout the firebase. Air, artillery, and ARA destroyed several enemy mortar and machinegun positions. In addition, numerous enemy, driven into the open by CS were killed by US fire-power.

(11) 24 - 31 July 1970

(a) With the extraction of US units from the FS/CB RIFCORD area, the division began an extensive artillery and aerial bombardment plan directed against the NVA forces massed in the area. During the period 240000 to 310000 July, over 10,000 rounds of mixed caliber artillery, 135 forward air controlled missions - for 226 sorties - 168 drums of persistent agent CS, and 130 barrels of thickened fuel were directed against known and suspected enemy locations.

On 24 July, the 2d Bn (Abtl), 501st Inf completed refresher training at PHU BAI Combat Base and moved by vehicle to CAMP EVANS to prepare for future operations in the vicinity of FS/CB RAKKASAN. The 2d Bn (Abtl), 506th Inf began battalion refresher training at CAMP EVANS.

On 25 July, the 2d Bde passed responsibility for FS/CB RAKKASAN to the 3d Bde as division forces repositioned to increase security of the populated lowlands and support operations in the enemy's rear service support areas, in

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Inclosure 1 (Operations Narrative) to Operational Report - Lessons Learned, 101st Airborne Division (Airborne), Period Ending 31 July 1970, RCS CSFR-65 (10) (U)

the mountain northeast of the A Shau Valley.

Operation CHIEAGO PEAK/LAM SON 363 opened 2200Z 20 July, as elements of the 1st Bde, in operational coordination with 1st Bn Regt, 1st Bn Inf (ARVN), assaulted into the operational areas at 0000 hours. The 1st Bn (Abn), 501st Inf assaulted into the FS/CB MAUREEN area, seized and secured the firebase, and began search operations to the west. Company D received fire on their LZ at 0040Z 21 July. Tube artillery, ARK and tactical CS, dropped from UH1H aircraft, suppressed the enemy fire. There were no US casualties during the assault.

The 1st Bn (Abn), 501st Inf passed responsibility for FS/CB MAUREEN to the 3d Bn (Abn), 187th Inf and companies A and B assaulted into landing zones south of FS/CB BIRMINGHAM and ARSENAL to conduct search and attack patrols.

Co C, 1st Bn (Abn), 501st Inf moved by air to FS/CB MAUREEN and assumed the mission of firebase security.

On 26 July, the CP and Co C, 2d Bn (Abn), 501st Inf moved by air to FS/CB RAKKASAN closing at 1615 hours. Co C assumed mission of security for the firebase.

On 28 July, the light CP, 3d Regt (ARVN) and Btry A (155), 10th Arty (ARVN) moved by air to FS/CB MAUREEN in support of Operation CHIEAGO PEAK/LAM SON 363.

On 29 July, Btry C, 2d Bn (Abn), 320th Arty repositioned, by air, from FS/CB EASTORGE to FS/CB MAUREEN to provide additional artillery support for Operation CHIEAGO PEAK/LAM SON 363. The battery was replaced on FS/CB EASTORGE by Btry B, 2d Bn (Abn), 319th Arty from CAMP EVANS.

On 30 July, division aviation assets, coordinated through the 1st Bde, supported the assault by the 1st and 2d Battalions, 3d Regt (ARVN) into the CHIEAGO PEAK/LAM SON 363 area of operation to locate and destroy enemy forces, cache sites, and staging areas. Extensive preparation of the landing zones by tactical air, ARK and tube artillery from both US and ARVN batteries supported the insertion. Light ground to air fire was received during the insertion of the 2d Bn, 3d Regt (ARVN), which was completed at 0959 hours, with no Allied casualties. The 1st Bn was inserted at 1010 hours without incident.

On 31 July, the 1st Bde passed operational control of the 1st Bn (Abn), 506th Inf to the 2d Bde and assumed operational control of the 2d Bn (Abn), 506th Inf. The 1st Bn (Abn), 506th Inf moved by air from FS/CB KATHRYN to CAMP EVANS, began preparation for battalion refresher training and assumed the mission of DRP. The 2d Bn (Abn), 506th Inf moved by air from CAMP EVANS to FS/CB KATHRYN, assumed the mission of securing the firebase, and began search and attack operations in the vicinity of the firebase.

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Inclosure 1 (Operations Narrative) to Operational Report - 1st and 2nd
101st Airborne Division (Airmobile), Period ending 31 July 1970, RCS OSFM-6
(S2) (U)

(b) Significant Activities. On 21 July, vicinity YD245205 (30 kilometers north-south of 101/2 TD BUNKER), the 2d Bn, 3d Regt (ARVN) discovered 24 NVA bodies killed by air strikes approximately two weeks earlier. Also found were 21 individual and five crew served weapons, including two RPG machineguns.

At 261423 hours, vicinity YD415100, the 3d Plt, Co A, 2d Bn (Abtl), 5th Inf engaged 3 - 4 enemy in bunker, at 30 meters, with small arms, mortar fire and ARA, resulting in the first three enemy killed during Operation CHICAGO-IBAK/IAM SOM 363. Nine 15'x10'x4' bunkers with 3' overhanging cover were destroyed.

At 281827 hours, CAMP EVANS received four 122mm rockets impacting near the mess hall of the 158th Avn Bn (Abtl) (Abtl). ARA, tube artillery and a white team were employed on a suspected enemy location. The 3d Bds security platoon was inserted in the vicinity of YD450325 and discovered four 122mm rockets in launching trenches. Results of the attack were one US KIA and 13 US WIA.

At 290505 hours, CAMP EVANS received another three 122mm rockets, impacting in the vicinity of Btry C, 4th Bn (Aerial Arty), 77th Arty (Abtl), Co C, 158th Avn Bn (Abtl), and the 2d Bn (Abtl), 506th Inf. No casualties or damage were caused.

The 2d Bn, 3d Regt (ARVN) made contact with the enemy almost immediately after insertion, vicinity YD358097, on 30 July. The 1st Co received small arms fire from an enemy force 100 meters to the north at 0810 hours. The element returned organic weapons fire and employed ARA and a pink team. A sweep resulted in the capture of a 12.7mm machine gun. At 1020 hours, vicinity YD348103, the battalion engaged an estimated enemy platoon with small arms fire at 30 meters. The enemy returned small arms fire and withdrew to the north. An air strike was employed. A sweep of the area revealed 11 NVA KIA and resulted in one RED machinegun captured. At 1315 hours the 1st Co killed an NVA at YD358097, and, at 1500 hours, killed four more NVA.

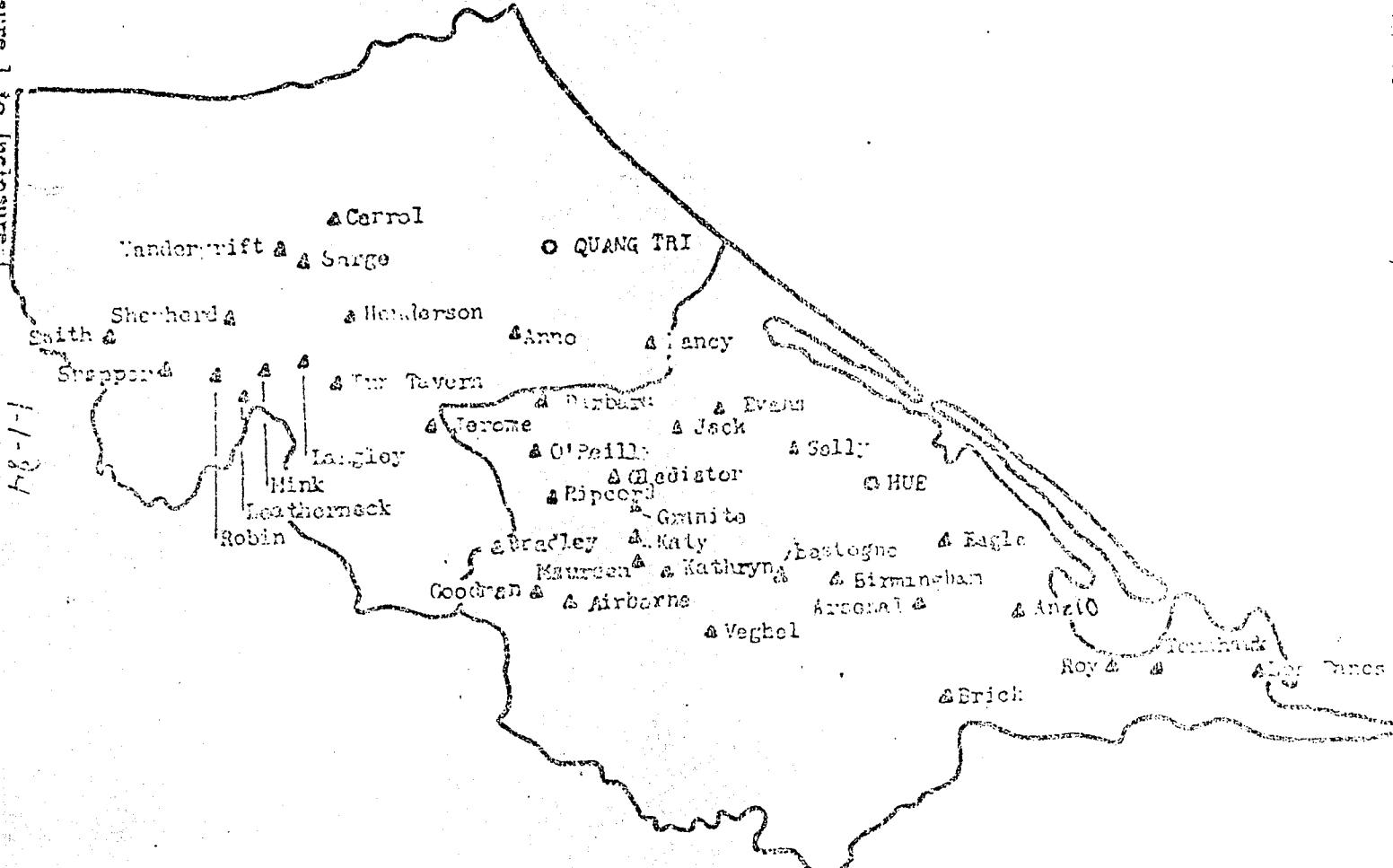
On 31 July, the 1st Co, 2d Bn, 3d Regt (ARVN) discovered 17 enemy bodies killed by air strikes approximately three days earlier, at YD357115.

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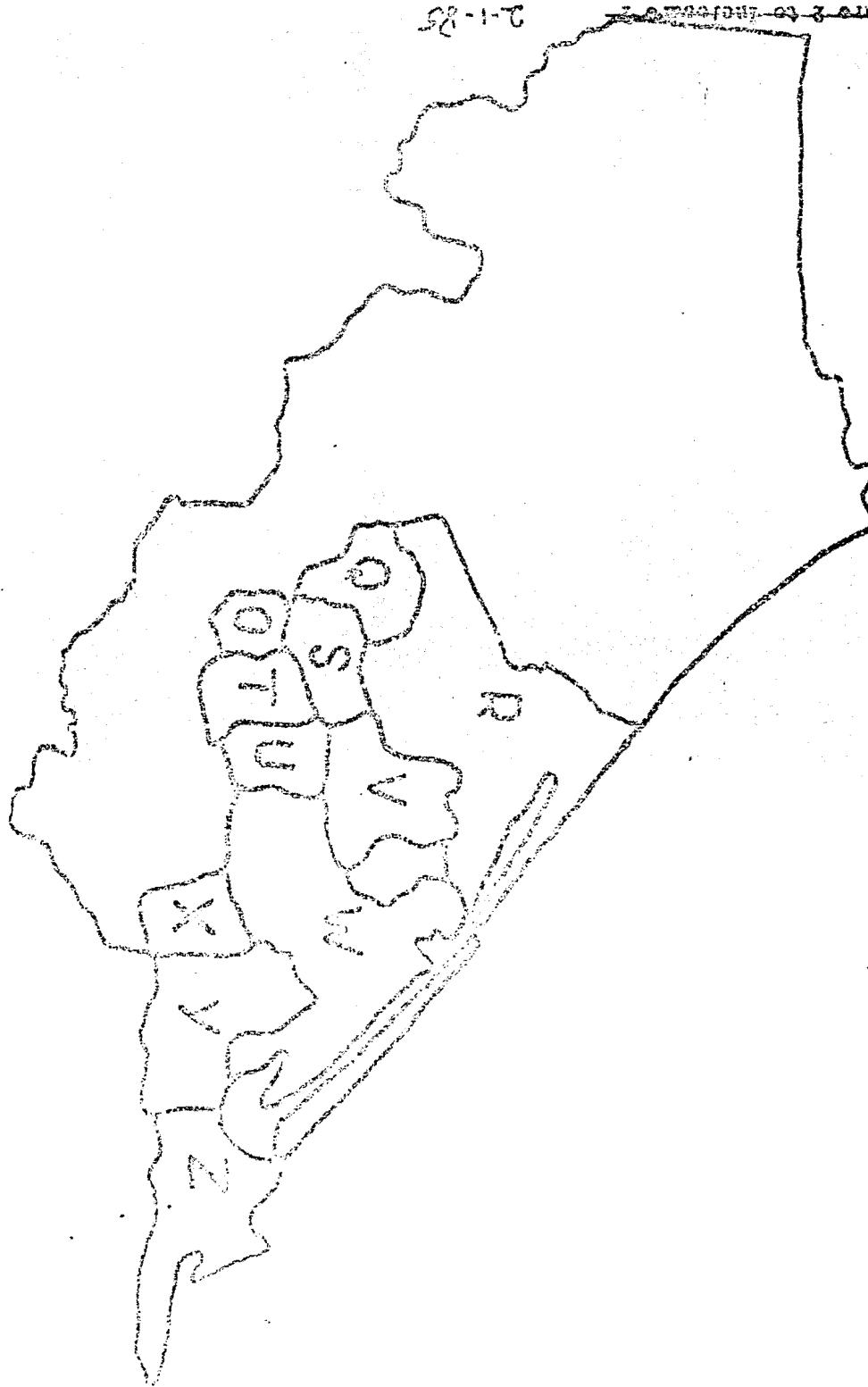
Inclosure 1 to Inclosure 1

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Inclosure 2 (letterhead area of attachment) to this and (app'd to front) marked
to operator found Report - less than minimum, but did not indicate (see notes)

period ending in this day, as follows (see notes)

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Enclosure 2 (Organizational Structure) to Operational Report - Lessons Learned,
 101st Airborne Division (Airmobile), Period Ending 31 July 1970, MSG CAFOR 65
 (2) (U)

1st Brigade 101st Abn Div (Abn)

HHC, 1st Bde
 1st Bn (Abn), 327th Inf
 1st Bn (Abn), 501st Inf
 2d Bn (Abn), 502d Inf
 62d Inf Plt (Set Dog)

2d Brigade 101st Abn Div (Abn)

HHC, 2d Bde
 2d Bn (Abn), 327th Inf
 3d Bn (Abn), 187th Inf
 1st Bn (Abn), 502d Inf
 47th Inf Plt (Set Dog)

3d Brigade 101st Abn Div (Abn)

HHC, 3d Bde
 2d Bn (Abn), 501st Inf
 1st Bn (Abn), 506th Inf
 2d Bn (Abn), 506th Inf
 58th Inf Plt (Set Dog)

101st Abn Div Arty (Abn)

HHC, 101st Abn Div Arty (Abn)
 2d Bn (Abn), 11th Arty
 2d Bn (Abn), 319th Arty
 2d Bn (Abn), 320th Arty
 1st Bn (Abn), 321st Arty
 4th Bn (Aerial Arty), 77th Arty (Abn)
 Btry A (Avn), 377th Arty (Abn)
 266th FA Det (Surveillance Radar)

101st Aviation Brigade (Avn) (Abn)

HHC, 101st Avn Gp (Cbt) (Abn)
 101st Avn Bn (Abn) (Abn)
 158th Avn Bn (Abn) (Abn)
 159th Avn Bn (Abn) (Abn)
 163d Avn Co (GS) (Abn)
 359th Avn Det (Div)

101st Abn DISCOM (Abn)

HHC and Hand, 101st Abn DISCOM (Abn)
 3d Trans Bn (Avn Maint & Spt) (Abn)
 326th Med Bn (Abn)
 436th SCS Bn (Abn)
 631st Maint Bn (Abn)
 101st Admin Co (Abn)
 Screaming Eagle Replacement Training
 School (SERTS)

101st Abn Div (Abn) Trop

HHC, 101st Abn Div (Abn)
 3d Bn (Abn), 506th Inf
 2d Sqdn (Abn), 17th Cav
 326th Eng Bn (Abn)
 501st Sig Bn (Abn)
 101st MP Co (Abn)
 265th Radio Research Co
 10th Cal Plt (DS)
 20th Cal Det (CBR Center)
 22d Mil Hist Det
 25th PI Det (Field Service)
 34th PI Det (Field Service)
 101st MI Co (Div)
 557th Inf Plt (Cbt Tracker)
 20th TASS (USAF)

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Inclosure 3 (Key Personnel Roster) to Operational Report - Lessons Learned,
 101st Airborne Division (Air assault), Period Ending 31 July 1970, RCS CGFOR-65
 (HQ) (U)

CG	CG John J. Hennessey
AIC (O)	PG Sidney B. Barry
ADC (S)	CG (P) Otis E. Smith
CofS	COL Hugh A. McDonald
CO, 1st Bde	COL John D. White
CO, 2d Bde	COL Walter H. Root
CO, 3d Bde	COL Benjamin L. Harrison
CO, 101st Avn Cpt	LTC (P) Edward P. Davis
CO, DISCOM	COL David E. Grange
CO, DIVARTY	COL Lee E. Smit
ACofS, G1	LTC Charles A. Heestadine, Jr.
ACofS, G2	LTC Lauro W. Binsirup
ACofS, G3	LTC Roy J. Young
ACofS, G4	MAJ Peter Peterson
ACofS, G5	MAJ Harlen W. Kinnison
Chemical Off	LTC James R. Klugh
Div Surg	LTC Robert E. Day
PM	LTC Stanley J. Lebodinski
IG	LTC Thomas Marvacz
SJA	LTC Carl W. Welborn
Fin Off	LTC Walter J. Falconer
Chap	LTC Clifford E. Keys, Jr.
AG	LTC Thomas E. Minix
CO, 1st Bn (Abtl), 327th Inf	LTC Donald A. Foder
CO, 2d Bn (Abtl), 327th Inf	LTC Edward F. Pickett
CO, 2d Bn (Abtl), 502d Inf	LTC Charles J. Shay
CO, 1st Bn (Abtl), 501st Inf	LTC Thomas E. Aaron
CO, 2d Bn (Abtl), 501st Inf	LTC Otis W. Livingston, Jr.
CO, 1st Bn (Abtl), 502d Inf	LTC Arvid E. West, Jr.
CO, 1st Bn (Abtl), 506th Inf	LTC Bobby B. Porter
CO, 2d Bn (Abtl), 506th Inf	LTC John C. Bard
CO, 3d Bn (Abtl), 187th Inf	LTC Ivan C. Bland
CO, 3d Bn (Abtl), 505th Inf	LTC John E. Martling
CO, 2d Bn (Abtl), 11th Arty	LTC Robert J. Burke
CO, 2d Bn (Abtl), 319th Arty	LTC William A. Walker
CO, 2d Bn (Abtl), 320th Arty	LTC Alvah B. Davis, Jr.
CO, 4th Bn (Aerial Arty), 77th Arty (Abtl)	LTC Charles L. Nowalk
CO, 1st Bn (Abtl), 321st Arty	LTC Arch A. Ely, Jr.
CO, 2d Bn (Abtl), 17th Cav	LTC Robert F. Molinelli
CO, 101st Avn Bn (Aslt Hel) (Abtl)	LTC William N. Penchay
CO, 158th Avn Bn (Aslt Hel) (Abtl)	LTC Robert J. Guard GARD
CO, 159th Avn Bn (Aslt Sup Hel) (Abtl)	LTC George F. Newton
CO, 326th Engr Bn (Abtl)	LTC Carl P. Randolph, Jr.
CO, 326th Med Bn (Abtl)	LTC Robert E. Day
CO, 5th Trans Bn (Abtl)	LTC Harold I. Small
CO, 426th S&S Bn (Abtl)	LTC Ronald N. Bowman
CO, 801st Maint Bn (Abtl)	LTC James F. Dunn

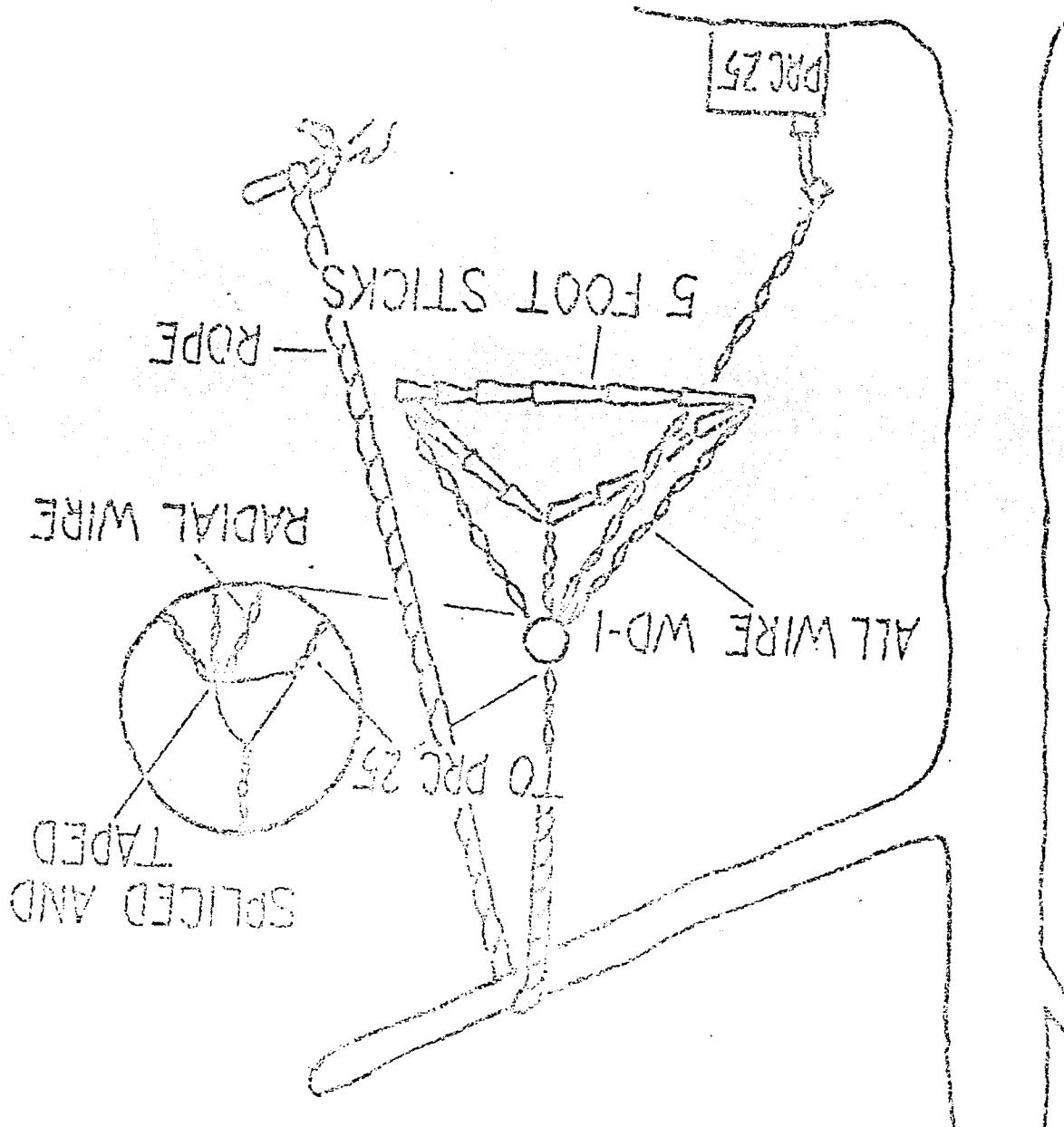
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Inclosure 3

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HEADQUARTERS 101ST AIRBORNE DIVISION (AIRMOBILE)

Office of the Chief of Staff

APC 96363

AVDG-CS

16 June 1970

SUBJECT: NVA Sapper Attack Against FSB Tomahawk (U)

SEE DISTRIBUTION

1. (C) At 100140 June 1970, FSB Tomahawk (ZD81255) was attacked by the 31st (71B) Sapper Company, 4th NVA Regiment. The company had an estimated strength of 70. The enemy launched a three-pronged assault, with the main attack directed at the northwestern portion of the firebase, where one bunker (Bunker #7) protects the perimeter and covers a high speed avenue of approach to the three 155mm howitzers (See sketch at inclosure 1). Supporting attacks on the northern and southeastern sides of the firebase were directed at the 155mm howitzer position and company command post. The assault came without warning and was not preceded by preparatory indirect (RPG/mortar) fires. RPGs were employed as part of the sapper attack. Diversionary stand-off attacks were made, however, against Phu Loc District Headquarters (ZD097007), Nuoc Ngot Bridge (ZD153010), FSB Los Banos (AT183134), and FSB Roy (ZD305871).

2. (C) Results of the action against FSB Tomahawk were:

	KIA	WIA	POW	IWC ^b	CSWCC ^c
US	1 ^a	2			
NVA	26		4 ^d	12	9

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AVDG-CS

16 June 1970

SUBJECT: NVA Sapper Attack Against FSB Ternahawk (U)

a. Soldier was killed by a falling 82mm mortar fragmentation crater.

b. Ten AK-47s; two Grenades.

c. Nine RPG-2.

d. One POW died at the 95th Evacuation Hospital.

3. (U) The successful defense of FSB Ternahawk is attributed to the proper application of the fundamentals of defense. If one basic principle could be isolated as the single most important factor, it would be the aggressive leadership of the battalion commander and the company commander. Strong command and control actions assured a high alert status on the part of the troopers manning perimeter fighting positions. Inclosure 2 is a resume of significant observations which reinforce lessons learned from previous sapper attacks against other firebases.

FOR THE COMMANDER:

2 Incl
as

Hugh A. Macdonald
HUGH A. MACDONALD
Colonel, GS
Chief of Staff

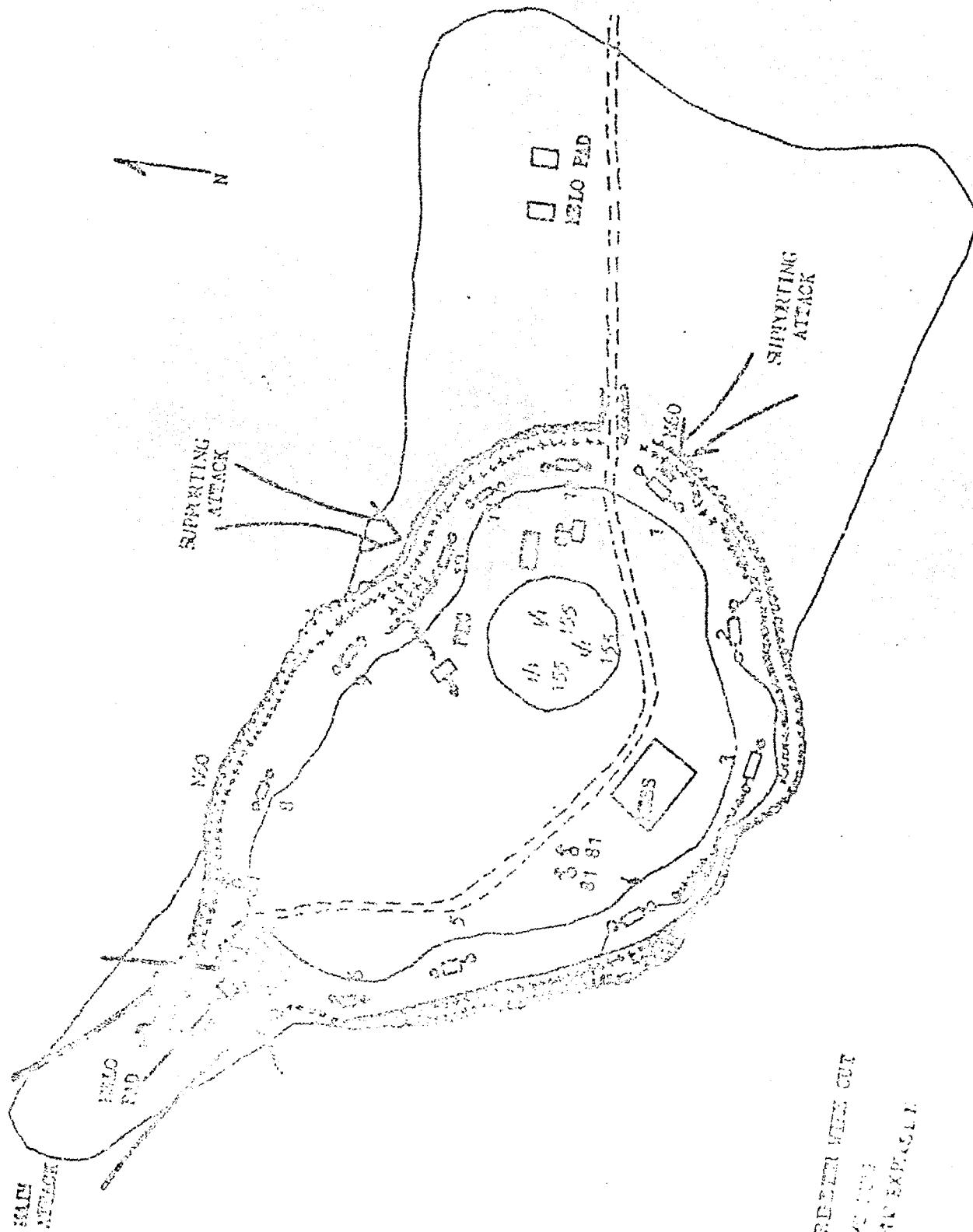
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16-29-1

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PROBLEMS IN
ALGEBRA
BY
W. E. BYRNE, M.A.,
LOND.

(C) OBSERVATIONS AND LESSONS LEARNED

OBSERVATION: The battalion and company commander had continually stressed the importance of soldiers remaining fighting positions being awake and alert. The company commander, "King of the Hill," had instructed the platoon leader responsible for perimeter defense to have either himself, his platoon sergeant, or a squad leader continually walking the perimeter and checking the alertness of the soldiers during the hours of darkness. While checking the perimeter, the platoon sergeant detected movement in the protective wire. He killed one sapper with M16 fire as the sapper attack was initiated.

LESSON LEARNED: To successfully defend a firebase against a determined sapper attack, the attack must be detected and defeated before the sapper penetrates the inner belt of protective wire.

OBSERVATION: The communications wire (WD-1) connecting the fighting positions with the company and platoon command posts had been laid on top of the ground and was cut by the initial volley of RPG fire. Communications throughout the attack were maintained by AN/PRC-25 and AN/PRT-88 radios.

LESSON LEARNED: a. Communications wire must be buried six to twelve inches.

b. To insure adequate communications throughout the attack, dual (telephone and radio) communications must be available at each bunker/fighting position.

OBSERVATION: Ammunition storage.

a. Sufficient small arms ammunition was stored at each fighting position to defend against a determined sapper attack. For this reason, ammunition resupply was not required during the action.

b. Bulk small arms and 90mm ammunition as well as hand grenades and LAWs were stored in two widely separated ammunition dumps. Both storage areas were well protected; one below ground level, but without overhead cover, and the other, although above ground level, covered by sandbags. During the first phase of the attack, the underground storage area exploded, but caused no casualties.

c. The ammunition dump which was below ground level was located, at hand grenade range, between the line of bunkers

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and the inner belt of protective wire. Although indications are that the ammunition explosion resulted from a well placed NVA satchel charge, it is possible that it was caused by a hand grenade thrown from a US fighting position.

LESSON LEARNED: a. Sufficient ammunition must be stored at primary, alternate, and supplementary fighting positions to defeat a determined sapper attack.

b. Bulk ammunition storage areas will be a target during a sapper attack.

c. Bulk ammunition must be protected and stored at a minimum of two locations.

d. Ammunition storage areas should not be located between the line of fighting positions and the protective wire.

OBSERVATION: The attacking force had been in a staging area reconnoitering FSB Tomahawk and preparing for the attack for a period of seven days. On the last two days (8 and 9 June) prior to the attack, one NVA soldier hid in shoulder high grass 400 to 500 meters from the perimeter and observed the position for 48 hours. At 092200 June, he determined the time was right for attack. He moved to a rally point and led the attacking force to the firebase.

LESSON LEARNED: a. Normally, the sapper will spend several days reconnoitering a firebase prior to attack.

b. Fields of fire and observation must be cleared well beyond the limit of protective wire.

OBSERVATION: The staging area used by the sappers was within a short walking distance of the firebase. The unit had not patrolled the area for a period in excess of nine days.

LESSONS LEARNED: When occupying a firebase, the unit must continually, but in random patterns, patrol to a range of 3000 meters (82mm mortar range) around the position.

OBSERVATION: During the period 31 May through 8 June, the defensive targets were fired between 2300 and 0200 hours. On 9 June, the "King of the Hill" decided to vary the pattern and conduct the firing from 0200 to 0400 hours. When the attack began, the artillery forward observer was preparing to adjust the firebase defensive targets.

LESSON LEARNED: Detailed planning is required to vary time and type of activity to avoid establishing set patterns of defense.

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OBSERVATION: During the early part of the attack, they moved through an area approximately 500 meters from the perimeter which had been seeded with trip flares. When the flares were activated, the area was engaged with cannon artillery to block enemy escape routes.

LESSON LEARNED: Trip flares placed well forward of the perimeter on likely avenues of approach or escape will provide early warning of attack or indicate routes of withdrawal.

OBSERVATION: An anti-sapper fence, consisting of chain link fencing four feet high and buried one to six inches, had been placed around the firebase. Examination following the attack revealed that the sappers had been unable to cut the fence. All breaks in the wire were caused by explosions.

LESSON LEARNED: Protective wire, properly emplaced, is an effective barrier to sapper movement.

OBSERVATION: Upon initiation of the attack, the "King of the Hill" ordered his artillery forward observer outside the command bunker to adjust defensive targets and ARA. He also instructed the platoon leader to move to the point of contact to survey the situation and to submit an accurate SITREP.

LESSON LEARNED: Aggressive leadership is required to insure that proper action is taken by subordinates.

OBSERVATION: Due to a personnel shortage, LP/OPs and ambushes were not employed outside the perimeter. The "King of the Hill" stated that his defensive plans included employment of an LP/OP on the approach route used by the NVA. However, personnel shortages required him to employ all available personnel on the perimeter.

LESSON LEARNED: When determining personnel requirements for firebase defense, sufficient allowance should be made to man the perimeter and to employ early warning LP/OPs and ambushes.

OBSERVATION: During the week preceding the attack, the "King of the Hill" conducted walk-through rehearsals of the defensive plan to include the assembly and movement of the reaction force. At the initiation of the attack, the reaction force was assembled and later moved to the point of the main attack.

LESSON LEARNED: Frequent and planned rehearsals of the firebase defensive plan, to include the assembly and employment of the reaction force, insures proper and timely response by defensive forces.

OBSERVATION: The "King of the Hill" had directed that personnel

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on guard occupy fighting positions rather than positions within or on top of sleeping bunkers.

LESSON LEARNED: Guard personnel are less vulnerable to RPG and sapper attack when manning fighting positions rather than positions on top or inside sleeping bunkers. Additionally, more effective fire can be delivered against the attacking sapper.

OBSERVATION: The C-130 flareship could not, for an undetermined reason, communicate directly with the "King of the Hill." Instructions for "Basketball" were relayed from the "King of the Hill" through the battalion command post to the C-130. This is an acceptable, but less desirable, arrangement.

LESSON LEARNED: The "King of the Hill" should communicate directly with all supporting aircraft.

OBSERVATION: By a study of intelligence reports and enemy activity occurring one year ago, the battalion commander determined that FSB Tomahawk was attacked on 19 June 1969. He advised the "King of the Hill" that NVA sapper attacks against firebases are sometimes repetitive from year to year and that due to a lack of flexibility in planning, NVA operations follow definite patterns.

LESSON LEARNED: Commanders should study one year old intelligence reports and enemy activity.

OBSERVATION: The platoon responsible for defense of the firebase had been there for nine days and had rehearsed the firebase defensive plan three times during that period.

LESSON LEARNED: With proper leadership and frequent walkthrough rehearsals, the assurance of a successful defense increases the longer the unit stays on the firebase.

OBSERVATION: On 1 June 1970, the 2d Bn (Anh), 327th Inf. received an agent report indicating the NVA would attack Lang Co Bridge on 9 or 10 June. The report also stated that the NVA would be wearing ARVN uniforms. One NVA sapper was observed wearing a US helmet and long trousers.

LESSON LEARNED: Intelligence information should be passed to the lowest echelon possible (the individual soldier) consistent with security restrictions.

OBSERVATION: Seven fougasse wires and several trip flares positioned outside the inner belt of protective wire had been cut or tied off.

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LESSON LEARNED: Fougasse wires should be buried when possible, and trip flares and trip flare wires should be camouflaged.

OBSERVATION: The NVA were using an M60 machine gun during the attack.

LESSON LEARNED: Abandoned US weapons, ammunition, and equipment will be retrieved by the VC/NVA and used against US or ARVN units.

OBSERVATION: A helicopter flareship and the FAC monitored a radio transmission, the flareship on a FM and the FAC on a UHF frequency, that the sender was observing mortar flashes and NVA soldiers moving north across QL1 in the vicinity of FSB Roy. The originator and recipient of the transmission cannot be determined. However, the battalion commander did not receive the information.

LESSON LEARNED: All intelligence information must be passed to the ground commander so that he can employ available resources to counter the attack or to seal enemy routes of withdrawal.

OBSERVATION: The battalion commander requested ARA, helicopter flareships, and "Basketball" at 0141 hours. ARA arrived on station at 0225 hours, the helicopter flareship at 0220 hours, and "Basketball" at 0320 hours.

LESSON LEARNED: Arrival time for ARA and the helicopter flareships should not have exceeded strip alert time (two minutes) plus flight time (approximately 15 minutes from Camp Eagle).

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