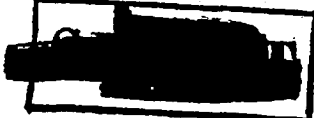


360TH TACTICAL ELECTRONIC WARFARE SQUADRON

QUARTERLY HISTORY FOR

JULY - SEPTEMBER

1966



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FROM: 360th Recon Sq (Major Lowe-4609) 4 Nov 1966

SUBJECT: (U). Unit History, (1 Jul 1966 thru 30 Sep 1966)

TO: 460th TRW (DCOPR/Major Doering)

1. (U). Lt Colonel James D Jelley, FR33817, assumed command of the 360th Reconnaissance Squadron from Lt Colonel John A Brotherton, FV817386, on 12 Jul 1966 (atch #1). Since the activation of the squadron 8 Apr 1966, the unit continued its rapid growth during the period 1 Jul 1966 through 30 Sep 1966, both in terms of personnel strength and to a lesser extent in aircraft assignment.

2. (U). Appendix 1, Personnel Strength, reflects the rapid personnel growth since the squadron was activated. The following personnel manning status existed on 30 Sep 1966.

	<u>Assigned</u>	<u>Authorized</u>	<u>Percent Manned</u>
Officers	72	106	67.9%
Airmen	143	181	79.0%
TOTAL	215	287	74.9%

3. (S)(Gp-3). With respect to aircraft assignment, the squadron received the following RC-47's or Phyllis Ann aircraft during this period.

<u>Aircraft Number</u>	<u>Date Received</u>	<u>Date Operationally Ready</u>
43-49126	7 Jul 66	12 Jul 66
43-48767	10 Jul 66	1 Aug 66
45-1046	9 Aug 66	13 Aug 66
43-48933	10 Sep 66	11 Sep 66
42-93166	11 Sep 66	13 Sep 66
43-48947	11 Sep 66	13 Sep 66
43-49865	13 Sep 66	18 Sep 66

The arrival of these seven aircraft in addition to the two RC-47's already on hand, plus the two JC-47 Drill Press aircraft, puts the number of aircraft possessed at eleven as of 30 Sep 1966 against a programmed authorization of 17 aircraft. It is anticipated that the squadron will receive its full complement of aircraft by the end of the 2nd quarter, Fy 1967.

4. (S)(Gp-3). On 4 Aug 1966, the Hawkeye aircraft JC-47, 45-0925, departed for the ZI. It was this aircraft with its essentially "Bread Board", feasibility demonstration equipment, that proved the extreme value of phase angle measurements of airborne radio direction finding (ARDF). Hawkeye developed operational techni-

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gues using phase angle measurement to determine bearing to targets. The outstanding results achieved significantly influenced the decision of the Chief of Staff, USAF, to expand the ARDF program in the Air Force. Thus blossomed project "Phyllis Ann".

5. (C)(Gp-3). During this reporting period, the number of flying hours generated by the 360th Reconnaissance Squadron increased significantly over the previous period with the arrival of newly assigned aircrews and aircraft.

	<u>Total Hours Flown</u>	<u>Avg No. Acft Possessed</u>	<u>Avg Flying Hours Per Acft Possessed</u>
Jul 66	515	6.5	79.2
Aug 66	905	6.9	131.2
Sep 66	1261	9.5	132.7

6. (C)(Gp-3). The following is a recapitulation of the number and type of missions flown by the 360th Recon Sq during the reporting period:

	<u>Phyllis Ann</u>	<u>Hawkeye</u>	<u>Drill Press</u>	<u>Aircraft Operational Checks</u>
Jul 66	64	9	46	
Aug 66	101	Aircraft Returned To ZI	56	32
Sep 66	162		42	22

7. (S)(Gp-4). As could be expected, the activation and buildup of a flying combat organization presented an enormous combat readiness training situation. This is especially true in the case of the 360th Recon Sq mission in the RC-47 aircraft with Prototype AFDF electronics equipment. All aircrew members assigned to this unit received Phase I C-47 aircraft training at England AFB, Louisiana, prior to arrival. Upon arrival, aircrew members undergo Phase II training or theater operational readiness training which consists of both ground and in-flight training. The flight portion consists of one orientation mission plus 5 operational missions. All training is conducted on a fraged combat missions. Ground training consists of a three day ground school. The first day involves a theater intelligence briefing and a visit to Paris Control (Combat Reporting Center) located at Tan Son Nhut Air Base. The second day consists of briefings of the history of Phyllis Ann, aircraft equipment, operational theory and in-flights procedures, maps and charts and intelligence reporting. The third and final day of the ground school consists of a briefing by the 460th Tactical Reconnaissance Wing Commander, a personal equipment briefing, a weather briefing and operations briefing. It is anticipated that the 360th will provide operational readiness training to aircrews prior to their reassignment to the 361st Recon Sq at Nha Trang and Det #1 361st Recon Sq at Pleiku.

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8. (S)(Gp-3). The following is a summary of the combat crew status of the 360th Reconnaissance Squadron:

	<u>Crews Formed</u>	<u>Combat Ready Crews</u>
Jul 1966	8	5
Aug 1966	9	9 (5 combat readiness checks given)
Sep 1966	17	13 (4 combat readiness checks given)

9. (S)(Gp-3). Because of the highly sensitive nature of the mission and results of 360th Recon Sq operations, direct accomplishments, its nature and extent, are not ordinarily available. However, the results of Phyllis Ann and Drill Press flights against extremely high priority target locations are reflected in correspondence received from higher Headquarters.

a. A classified (Secret) letter from the 6994th Security Squadron (USAFSS), Subject: 360th Tac Recon Sq missions in Quang Tri Province, dated 3 Sep 66, states in part (see atch #2):

(1) (S)(Gp-3). The results of Phyllis Ann flights against ARDF targets by the 360th TRS in the DMZ area on 29 and 30 August reflect excellent coverage of extremely high priority target locations. These results were beyond expectations, providing eagerly sought information for strategic and tactical planning... As a consequence of these missions, the Commanding General, Third Marine Amphibious Force (III MAF) has asked for a briefing on ARDF operations. His request specifically mentions the "highly successful results" of the missions on 29 and 30 August 1966...

(2) (C). "Successes such as this are highlights of the growing number of missions which as a whole are daily enhancing the value of Phyllis Ann to the Commanders in the theater."

b. A classified (C) message, MAC 7903 Intel, from J-2 MACV, Subj: Drill Press Operation 2 September 1966 (U) stated in part (see atch #3):

"(1) (C). I wish to commend the Air Force and Army personnel who, on such short notice, planned and executed a Drill Press mission on the night of 2 Sep 66 in response to national level requirements."

10. (U). The following decorations were awarded to personnel of the 360th Reconnaissance Squadron during the period 1 Jul 66 thru 30 Sep 66:

a. S.O. G-669, Hq, 7th AF, dtd 25 Aug 66 (atch #4) Staff Sergeant James D Metcalf, AF14552455 (2d OLC to the Air Medal)

(1) Air Medal:

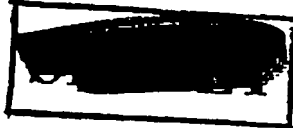
Lt Col Jack A Crook, FR52217
Lt Col John A Goolsby, FR39697
Major Robert L Jacobs Jr, FV591175
Captain Gerald D Desch Jr, FV3104032
Master Sergeant John F Matthews, AF11186559
Staff Sergeant Larry G Hebert, AF18429225

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(2) Additions to the Air Medal:

- Captain Harold J Businger, FV3036430 (1st thru 3d OLC)
- Captain Richard D Park, FV3065316 (1st thru 6th OLC)
- Captain Wesley J Rowe Jr, FR46694 (1st thru 4th OLC)
- Technical Sergeant Wilbur V Porter, AF18090887 (1st & 2d OLC)

11. (S)(Gp-3). Supply Support:

a. Because of the short supply of survival vests and radios each crew member could not be furnished a personal kit. As a consequence, all survival kits have been pooled with each crew member signing out a kit prior to each flight. It is estimated that the squadron was 80% equipped during the reporting period.

b. A request for an HF radio transmitter was originally submitted through supply channels on 23 December 1965. The installation of an HF radio transmitter in a known location was considered essential because of the special equipment installed in the RC-47 and because of the requirement to train replacement personnel in the theater. Although the request was resubmitted, the equipment has not been received. However, it is expected that it would be available on or about 15 November 1966.

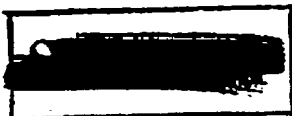
c. Shortages and supply delays on RC-47 peculiar parts forced numerous cannibalizations in order to meet scheduled mission requirements.

12. (U). During the months of July and August, unscheduled maintenance caused by engine vibration and rough propellers consumed many maintenance manhours. Engine vibrations occurred when aircrews used the lower brake horsepower power settings prescribed by TO 1c-47-1 in order to obtain the desired endurance. A decision during the month of August to use a constant 2,000 RPM setting for cruise alleviated the vibration problem.

13. (C)(Gp-4). Air aborts (see appendix 7) were largely due to malfunctioning ARD-18 and electronics equipment. These malfunctions were attributable in large part to the lack of GPA-24 Doppler and C-12 compass system test equipment in the responsible specialist shops of the 460th A & E squadron. The lack of adequate test equipment for the C-12 compass system, which is critical to the operation of the ARDF equipment, and the supply of J8 attitude indicators remain as the major maintenance problems.

14. (U). At the beginning of the reporting period, the separate locations of squadron operations, administration, maintenance and parked aircraft, far removed from each other posed some problems and cause inefficiencies. However, the move to the present consolidated squadron facilities was completed on 4 Sep 66, which provided for much more efficient and effective operations and administration. Squadron operations, administration and maintenance activities are

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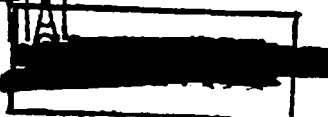
now located in adjacent buildings in the area between revetments 5 and 6 off the taxiway that is parallel to the main runway of Tan Son Nhut Air Base. Squadron aircraft are also parked nearby-diagonally across the taxiway opposite the squadron area.

15. Unit Commander's personal summary:

The requests for ARDF Intelligence have increased with the rapid growth of the squadron capacity. This is in part due to the success we have enjoyed in collecting the requested data and in part to the increased pressure on unfriendly forces. The training program has continued throughout this period and with each class the crews are better prepared for combat. 2681 hours of combat flying were complete with only slight damage to aircraft and no injuries to personnel. Supply of RC-47 peculiar parts and life support equipment are the major problems. Phyllis Ann is past adolescence and will continue to mature with each mission.

James D. Jelley
JAMES D. JELLEY, Lt Col, USAF
Commander

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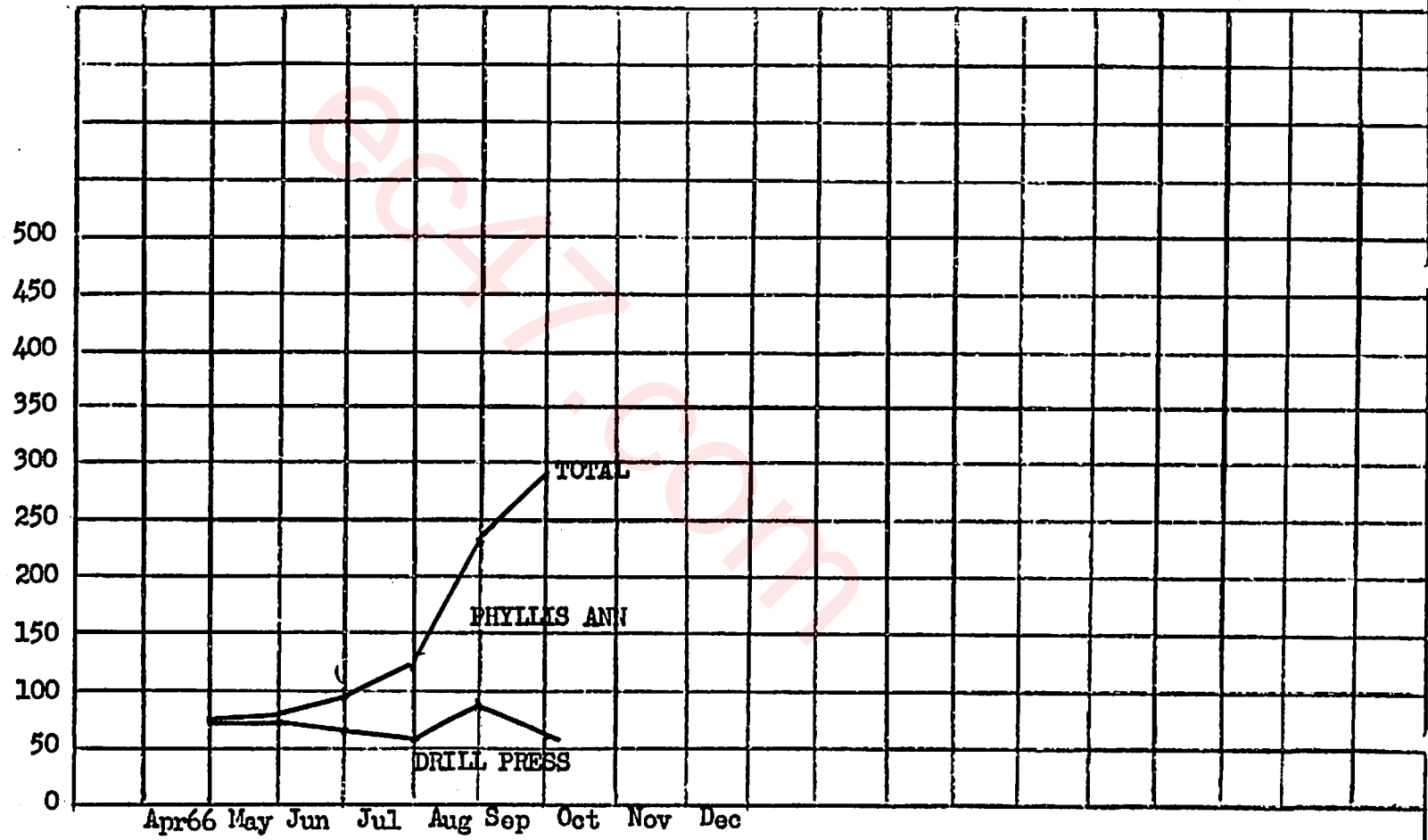
INDEX OF APPENDICES

<u>Appendix No.</u>	<u>Title</u>
1	Personnel Strength
2	List of Key Personnel
3	Total Flying Hours
4	Number Sorties Flown
5	"Phyllis Ann" - Average Flying Hours/Sorties Per Possessed Aircraft
6	"Drill Press" - Average Flying Hours/Sorties per possessed Aircraft
7	Air Aborts
8	Aircraft In-Commission Rate
9	Aircraft Nors Rate

NUMBER SORTIES FLOWN

360th Reconnaissance Squadron

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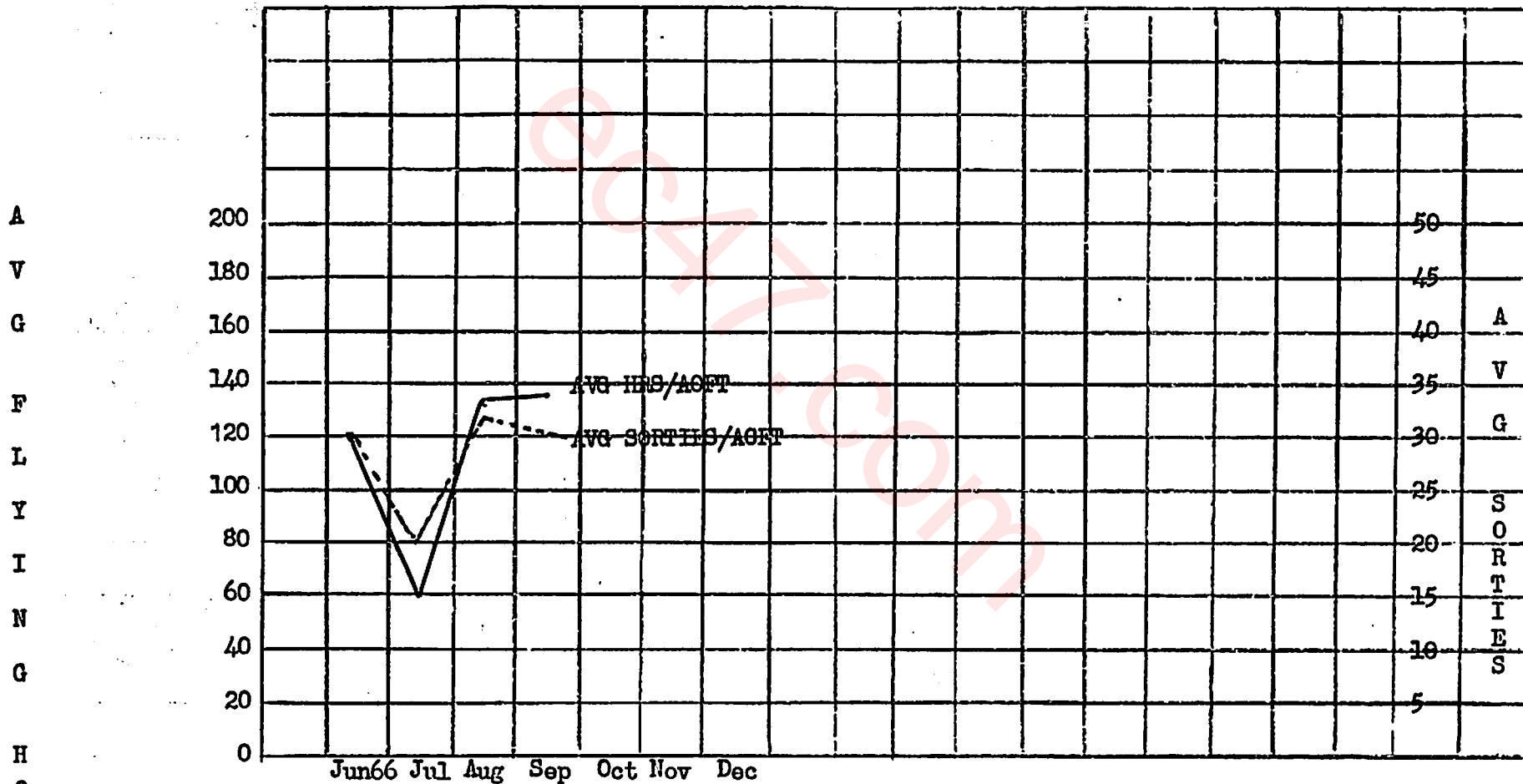


APPENDIX 4

	Apr 66	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Phyllis Ann (RC-47)		6	33	68	146	225**			
Drill Press (JC-47)	74*	64*	62*	55*	86	54			
TOTAL	74	70	95	123	232	279			

*Includes one (1) "Hawkeye" acft **Excludes 49 Ferry Sorties Source: 460 TRW Acft Maint Summary

"PHYLLIS ANN" 360th Reconnaissance Squadron
 AVERAGE FLYING HOURS/SORTIES PER POSSESSED ACFT



APPENDIX 5

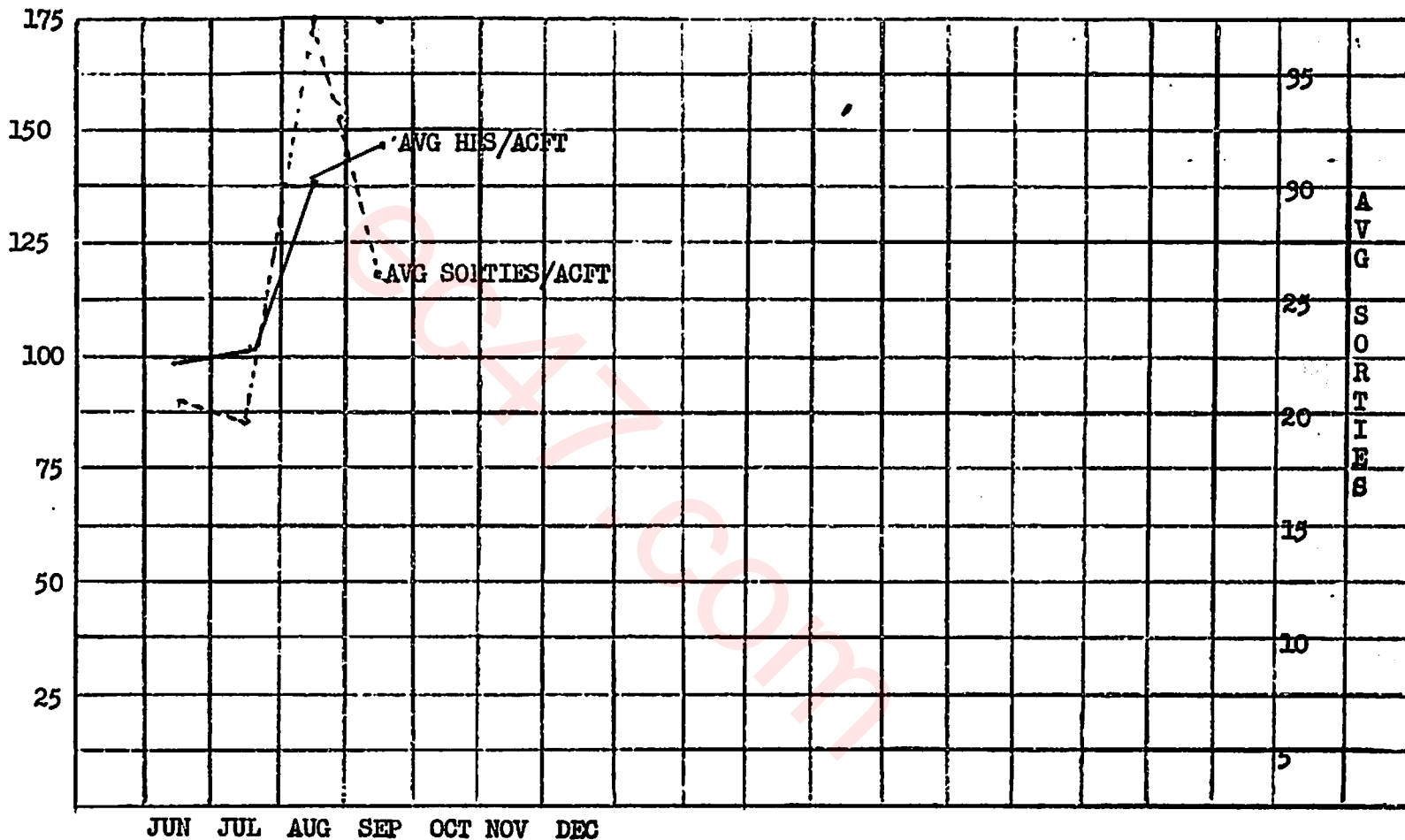
	Jun 66	Jul	Aug	Sep	Oct	Nov	Dec
Avg No. Acft Possessed	1.1	3.5	4.7	7.5			
Flying Hrs. Per Poss Acft	119.1	60.0	128.3	*178.4 129.5			
Sorties Per Poss Acft	30.0	19.4	31.1	*36.5 30.0			

*Includes Acft Ferry Hrs and Sorties

Source: 460 TRW Acft Maint Summary

AVERAGE FLYING HOURS/SORTIES PER POSSESSED ACFT

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	Jun 66	Jul	Aug	Sep	Oct	Nov	Dec
AVERAGE NO. ACFT ASGD	3.0*	3.0*	2.2*	2.0			
FLYING HRS PER ASGD	99.0	101.7	137.3	145.0			
SORTIES PER ASGD ACFT	20.7	18.3	39.1	27.0			

*Includes one (1) JC-47, Hawkeye Aircraft

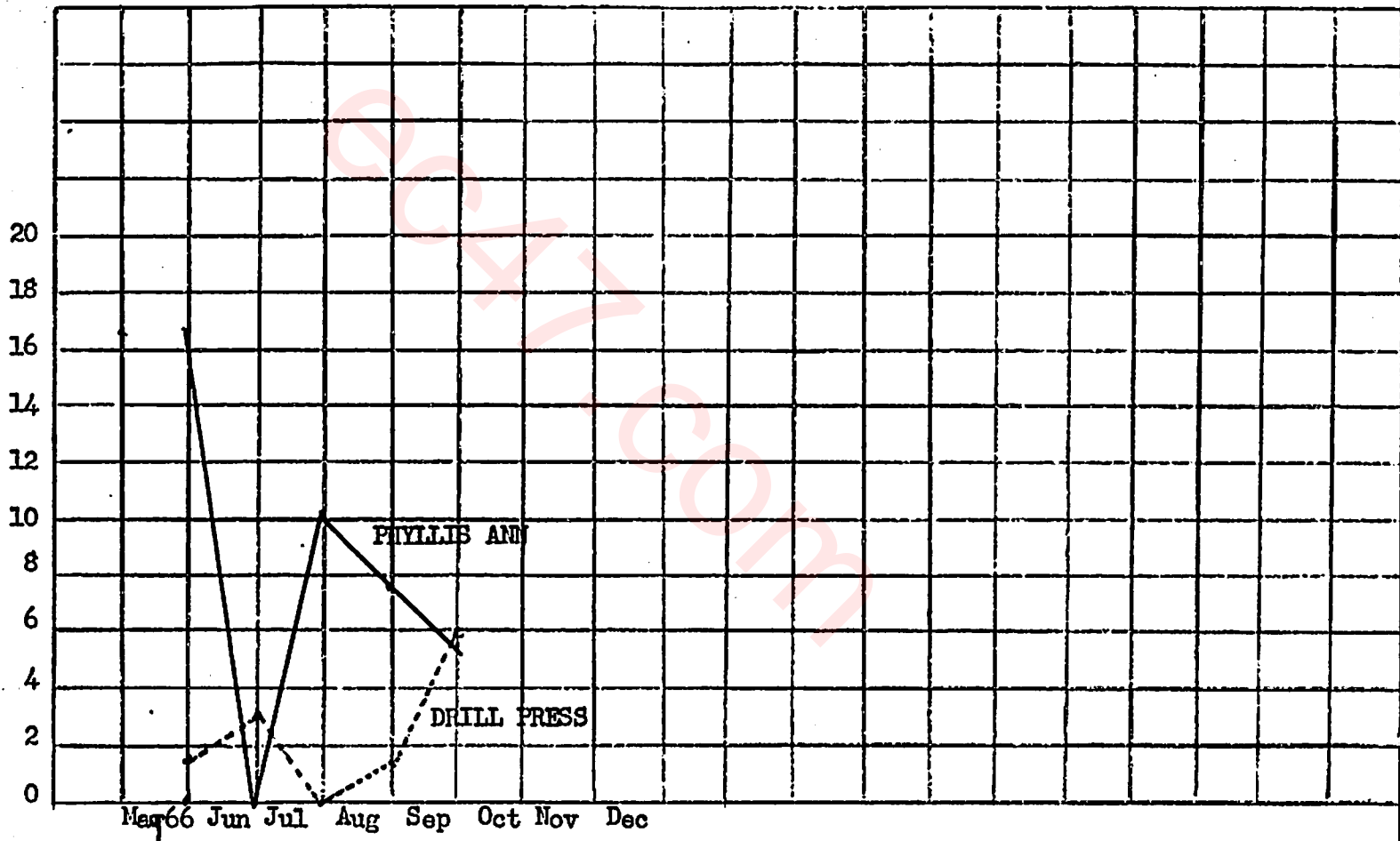
Source: 460th TRW Acft Maint Summary

360th Reconnaissance Squadron

AIR ABORTS

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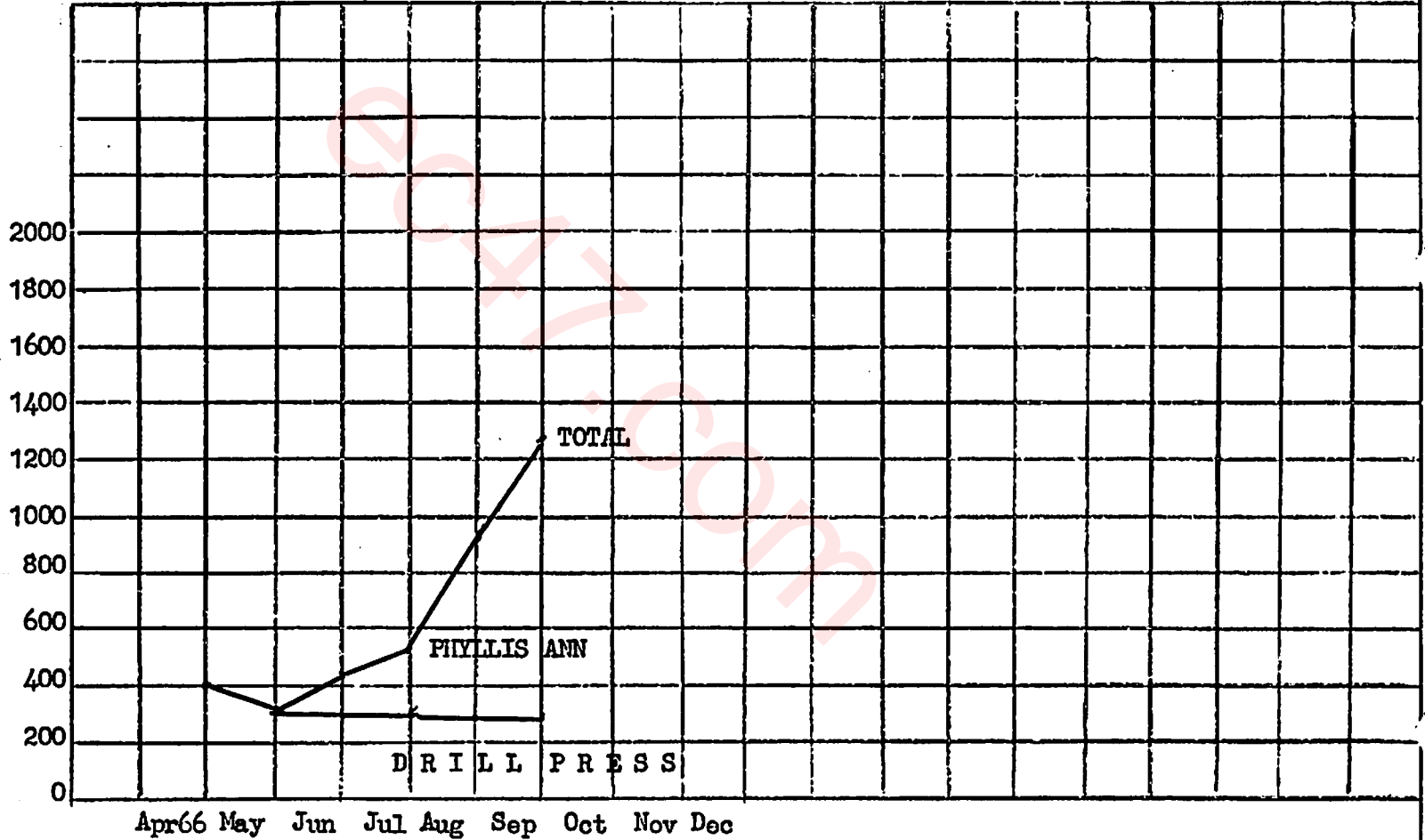


	Mar 66	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Phyllis Ann No./%	1/16.7	0/0	7/10.3	11/7.5	13/4.7			
Drill Press No./%	1/1.6	2/3.2	0/0	1/1.2	3/5.6			

Source: 460 TRW Acft Maint Summary

TOTAL FLYING HOURS

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APPENDIX 3

	Apr 66	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Phyllis Ann (RC-47's)		10	131	240	603	971**			
Drill Press (JC-47's)	396*	304*	297*	305*	302	290			
TOTAL	396	314	428	515	905	1261			

*Includes one (1) "Hawkeye" Acft **Excludes 367 Ferry Hours Source: 460 TRW Acft Maint Summary

APPENDIX 2

360TH RECONNAISSANCE SQUADRON (PACAF)
APO SAN FRANCISCO 96307

LIST OF KEY PERSONNEL

COMMANDER: Lt Colonel James D Jelley (12 Jul 1966)

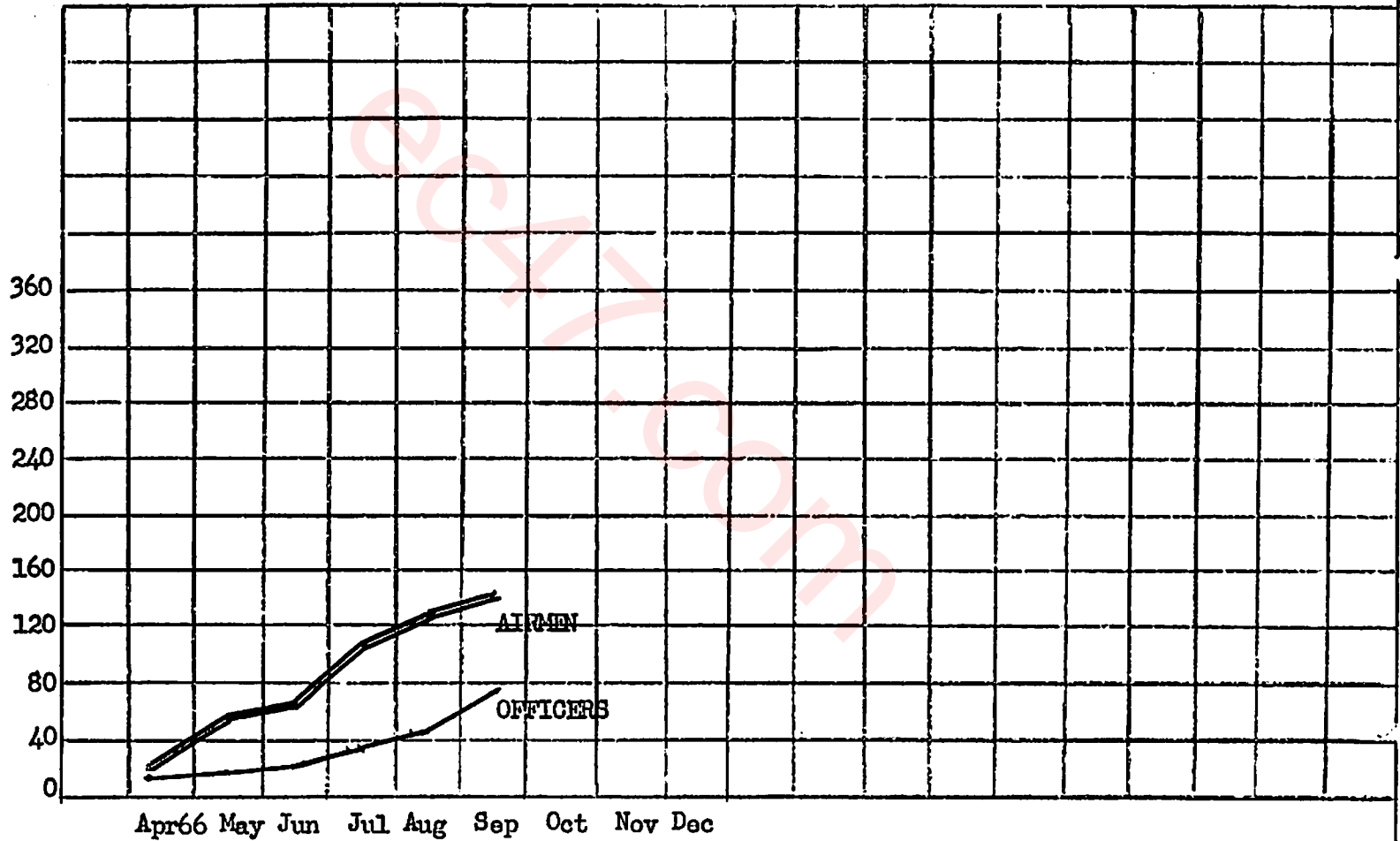
OPERATIONS OFFICER: Lt Colonel Allan T Stein

SQUADRON NAVIGATOR: Major James A Hageman

SQUADRON MAINTENANCE OFFICER: 1st Lt Alison D Cotton (19 Jun - 15 Jul)
1st Lt Ward F Meyers (16 Jul - 15 Aug)
Lt Col Gerald A Ottem (16 Aug - 30 Sep)

PERSONNEL STRENGTH

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APPENDIX I

	8Apr66	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
OFFICER'S	12	16	19	34	42	72			
AIRMEN	18	56	71	117	130	143			
TOTAL PERSONNEL	30	72	90	151	172	215			

INDEX OF ATTACHMENTS

Attachment No.

- 1 S.O. 6, 360th Recon Sq, dated 12 Jul 1966
- 2 Ltr (S), 6994th Sec Sq, subj: 360th TRS missions in Quang Tri Province, dtd 3 Sep 1966
- 3 Msg (C). MAC 7903 Intel, J-2 MACV, subj: Drill Press Operation 2 September (U)
- 4 S.O. G-669, Hq, 7th AF, dated 25 Aug 1966
- 5 S.O. G-705, Hq, 7th AF, dated 6 Sep 1966

DEPARTMENT OF THE AIR FORCE
360TH RECONNAISSANCE SQUADRON (PACAF)
APO SAN FRANCISCO, 96307

SPECIAL ORDER

12 Jul 1966

6

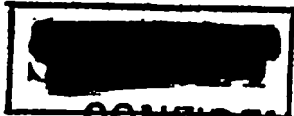
Under the provisions of AFR 35-54, as amended, the undersigned hereby assumes command of the 360th Reconnaissance Squadron, effective this date, vice LTCOL JOHN A BROTHERTON, FV817386, relieved.

/s/james d jelley,lt col, usaf
/t/JAMES D JELLEY,Lt Col, USAF
Commander

"This is a True Copy"


LESTER C LAYMAN JR, 1st Sgt, USAF
Asst Admin Svcs Officer

SO 6



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FROM: OPR

3 September 1966

SUBJECT: 360th Tac Recon Sq Missions in Quang Tri Province

TO: 460th Tac Recon Wg

1. (S). The results of Phyllis Ann flights against ARDF targets by the 360th TRS in the DMZ area on 29 and 30 August reflect excellent coverage of extremely high priority target locations. These results were beyond expectations, providing eagerly sought information for strategic and tactical planning. Consumers of this information have expressed their complete satisfaction and have requested further coverage by Phyllis Ann aircraft specifically. As a consequence of these missions, the Commanding General, Third Marine Amphibious Force (III MAF) has asked for a briefing on ARDF operations. His request specifically mentions the "highly successful results" of the missions on 29 and 30 August. J-2 MACV states in part, "This is the largest number of fixes noted in the DMZ area to date." J-2 comments then point out the significance of this information.

2. (C). Successes such as this are highlights of the growing number of missions which as a whole are daily enhancing the value of Phyllis Ann to the Commanders in this theater.

FOR THE COMMANDER

/s/reginald g. m. gilbert, lt col, usaf
 /t/REGINALD G M GILBERT, Lt Col, USAF
 Operations Officer

"This is a True Copy"

LESTER C LAYMAN JR, MSGT, USAF
 Asst Admin Svcs Officer

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P 110439Z

FM SSO MACV

TO CO 7TH AF

CO 6994 SCTY SQ

CO 509TH RR GP

NSAPACREP VIETNAM (C)

ZEM

C O N F I D E N T I A L MAC 7903 INTEL

J-2 MACV SENDS: 7TH AF FOR D/1

SUBJ: DRILL PRESS OPERATION 2 SEPTEMBER (U)

1. (C). I WISH TO COMMEND THE AIR FORCE AND ARMY PERSONNEL WHO, ON SUCK SHORT NOTICE, PLANNED AND EXECUTED A DRILL PRESS MISSION ON THE NIGHT OF 2 SEPTEMBER⁶⁶ IN RESPONSE TO NATIONAL LEVEL REQUIREMENTS.

2. (C). IT IS INITIATIVE, RESOURCEFULNESS, DEVOTION TO DUTY, COOPERATION AND UNITY OF PURPOSE SUCH AS DISPLAYED IN ACCOMPLISHING THIS TASK THAT ENABLES INTELLIGENCE TO BE TIMELY AND RESPONSIVE.

3. (U). MY CONGRATULATIONS FOR A JOB WELL DONE.

CONFIDENTIAL

SO G-705, 6 September 1966, Hq 7th Air Force, APO San Francisco 96307


TECHNICAL SERGEANT WILBERT V PORTER, AF13090887 (1st and 2d OLC)
29 January 1966 to 13 June 1966

FOR THE COMMANDER

/s/harrold h miller
/t/HARPOLD H MILLER, CAPTAIN, USAF
Administrative Officer

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"THIS IS A TRUE EXTRACT"


LESTER C LAYMAN JR, 1st Sgt, USAF
Asst Admin Svcs Officer