RAD SUARTIES COMPANY D NINETY EIGHTH CHEMICAL BATTALION, MOTORISM OFFICE OF THE COMPANY COMMANDER

July 7, 19hl

# SUMMARY OF LESSONS LEARNED HURRICAL

### INTRODUCTION:

The following is an out line of the capabilities and limitations of 4.2 mortax in this operation. All the points brought out in all operations, but are being brought out as were observe wiit.

In many ways the terrain on Blak Island was ideal mortars. Positions were quite easy to reach. Never if it from the beach. The coral ridges and caves offered difficult or impossible to reach by artillery fire. had a very solid coral bale keeping despersion to

#### Laispertation:

The initial landing and six subsequent landings pure made in h The four vehicles proved inen amently by attached to the Company. deal for the evement of one platoon. In this operation these vehicles proved sufficient as one plateen held a stabliged position for almost the entire operation. It is felt that these vehicles would not have proved sufficient had both platoons been moved frequently for the following reasons:

1. Platoons are frequently separated by some distance. Poor roads

cause scuttling of vehicles to be a slow process.

2. Moves to new positions in most cases take place in the late aiterneon as infantry dispositions do not stablize until late in the day This would cause considerable conflict as both platoons would be likely to have to be moved at the same time.

3. Four two ' one-half ton 6 x 6 trucks were used during the lat-

er stages of the operation. Pollowing admantages observed:

a. Fill me we the ol toen complete with up to 240 rounds of ammunition and 11 personal.

b. Can be dispersed inside he platoon perimeter where a larger number of vehicles would cause congesti n.

c, all w for quick resupply of maunitions in sufficient quan-A 22 tone truck will carry lot rounds with ut over lead.

#### US OF WORTARS:

A. The manner in which the mortars were used in this operation can be classed under the following headings:

1. Close support fires: These were primarily defensive night fires pulled in close to infantry perimeters.

a. Usually pulled in to 150 - 200 yds.

One instance when defilade and cover was available for our troops fire was pulled in to 40 yds, with very good results. Einety rounds were fired without a single short.

2. Preparation fires on time schedule prior to infantry attack.

a. Method of carrying out preparation was to fire a predetermined number of rounds into an area on a prearranged time schedule. As the 1.2's lift their fire, the infantry of Ma Mortars take up the fire and the fire is lifted and the 60 MM Mortars take up the fire. The 60MM Mortars lift as the infantry nears objective.

This method was used twice in the campaign, once with 2nd Bn. 186th and once with 3rd Bn. 186th Inf. In both cases the infantry gained their tive with minor epposition as compared to what was not prior to the prepar-In both cases the infantry objectives were coral ridges in which the was well due in-

Interdiction and harrassing fires.

a. Interdiction fire on enemy supply roads was carried out with good effect. Difficulty was dalay due to frequent shifts of baseplates.

b. Harassing fire on areas, from which the enemy was dropping 81MM and 90mm marter fire on our troops, proved very effective days rounds of HE dropped anythere near the morters silenced the enemy for a percent. A few rounds at irregular intervals kept them silenced as long as we kept up the fire. Some type of fire proveductfective against mountain guns also.

Targets of opportunity: Fire on these types of targets was effective.

miderable delay due to shifting of baseplates.

5. Special missions:
(1) There are several large caves on the Island, the mouths of which are from 10-75 feet in dismeter and vertical. Effective fire was delivered on these caves. On the large cave up to 2/3 of the rounds were observed to land in cave. Milest was impossible to determine in these caves, as the country burned the caves eat with gaseline and used large charges of dynimits affect entering them.

Resource we did stop marter and machine fire coming from these areas times permitting the infantry to approach them.

Air observation proved the best method of adjusting on these targets. COMMAND LIAISON:

A. It was found that close lisison with supported unit commanders and adjacent unit commanders was necessary, particulary when fire close to our troops was meeded. This situation was mot by stationing a limison officer, in our own bure we had chose contact with the supported unit and also wire or radio communestions to u mits on either flank. On several occasions adjustment was made by the gree covered by a platoon. It also is a definatemal advantage where observation is limited,

B. Liaison with Artillary:
(1) Effective coordination of fires between ourselves and the field artillar reved effective only in a stablized defesive situation whose areas of fire can

(2) Some liaison work in a moving situation can be obtained by contacting lizion officers of the artillery who are accompanying the infantry usits.

C. Attachment directly to infantry units for surely and duty has proved to be the best method of supporting them.

- (1) Administration is simplified.
  (2) Makes infantry more aware of the fact that the unit is with them. It is recommended that one officer per platoon be made available for liaison work. This officer to be in addition to the F.O. and platoon C.O., The company commander and executive officer can be used for this work if the eltuation warrants it. OBSE VATION:
- A. All MC 's should be trained in forward observation and capabilities of the wesnon.
  - E. Observers should be rotated periodically, particularly in rough terrain.

Observers should have some practice at sensing by sound.

"ald be an NCO trained in observation in each F.O. party to take cias.

evers should be trained to be able to pull fire in close to the onfidence.

DETCATIONS:

1 (1) W-130 proved to be of short life, therefore the permanent lines mortar positions to the supported unit C.P. should be carefully laid

(2) 1-130 may be used from the supported unit C.P. to the observation

post,

(3) The above method was standard operating procedure in thes unit.

B. It is wise to have communications through the supported unit switch boards to the observer.

C. Radio was used very little in the operation. 'A

(1) SCR 609's were not in working order or would have been used.

(2) Unit was equipped with SCR 511's which would not work at a range of more than 200 or 300 yards.

3. It is recommended that the company be provided with SCR 300 radios. The h.2 morter is primarily an infantry close support weapon and these radios would enable us to have radio connections with our supported units.

(1) Ideal number of these radios would be 3 per platoon and 2 for

company hq.

(2) Some of these sets were borrowed from the in try on several.

occasions and proved very satisfactory.

E. The SCH Cutha 20h India was hely used for two Messages in the entire carreign.

ONN POSITIONS:

A. Hight airing white and absolutely not us my.

B. For security resemble it is recommended that enough sound rower phones be provided to allow one for each marter and en for the plateon carrander.

C. Dug in mosicions proved unsatisfactory due to instability. Sod is necessary under the base plates for subbility. Sevetments around mortage offer protection if exough time is available to build blum.

D. Carry at least 1000 some bers with most election on instict funding. This item is very difficult to secure after landing so it is well to have a good sup ly on hand.

. Coral males a very stubile base for a negtar position.

- P. The a numbbles is evaluable in the new time cackage large quantities can be present in advance for might fires. The present content content is slipped over the end to problem the powder.
- G. Ysual ranges times in this crital in were similable to Office yards.

  ADMINITED:

A. The new waterproof maner cylinder mackage for amountains is ideal.

- B. The delaw line R9 proved unsatisfactory. In one instance R2 rounds were fired, 10 were dues. In another 3 rounds fired all 3 were dues. Part of this may we due to thring on coral rock, which does not allow penetration and probably breaks up the projectile on impact.
- G. Proper ratio of types of annumition as indicated by this campaign if 20 WP and 80% MD.

D. Use of smoke:

(1) Primary use is or adjustment.

- (2) Use of smake on like or effect on enemy should be cleared alrough C.P. s of supported an adjacent units because of hindrance to observation.
  - . No approclass difference was noted in effect of 13 and 35 amunition.

r. Unit of fire smould be increased to 100 rounds per gun.

4. In amphibious operations at least 30 rounds nor gan should be carried

s the company was equiped with Dukw's and 23 ton trucks we were able to oprehof our own resupply of amounttion. This proved to be very satisstory and avoided a lot of confusion.

A big difficulty was in having the section chiefs keep an accurate course

on amminition expended. Recommend use of gun books for each mortaw.

# THE MOTAL ITCLES.

A. Delays caused by baseplate shifting is chief defect of mortar.

Electing screens will bend in firing a t high elevation on soft group nd. Our light maintenance ordnance Company has equipment to do a satisfactory job of straightening them.

C. The only breakers esperienced was on occasional recei. spring.

D. Cortars should be a librated as some of them fire short or long of

adjusted range, consists ally.

3. A brase bore brush should be provided to class out the corners of the groves.

F. An light inch mire wrench should be provided for each gun section to be used in re ving tight spriker caps.

## MISCHIAL OF CBSE V. 1272:

A. Always car y therefore granades, Mills for destruction of material.
B. Firing tables should be able of water proof material.

se found it a great help to keep complete notes of fire missions on the platoon recarde wheats.

D. It was usually possible in this campaign to find satisfactory positions inside Infantry perimeters. Usulally with reserve battalions,

E. In most cased the or more observers could have been used by each plateen. This is on indication that more 4.2 morters would have been used

to a good dvantage.

F. The second plateon of this community was in almost continuous use during the campaign. Being transferred from one regiment when it went into receive to another. As a result nume ous moves were made and personell had little rest. W.C. parties especially were almost continally on the move.

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