DEPARTMENT OF THE ARMY COMPANY A, 70TH ENGINEER BATTALION (COMBAT)(ARMY) APO SAN FRANCISCO 96297

1 May 1969

SUBJECT: Narrative of Unit Activites, ORLL, from 1 February 1969 to 30 April 1969

Commanding Officer 70th Engr Bn (Cat)(A) APO 96297

> JOHN ALCE CPT, CE Commanding

- A. OPERATIONAL SUPPORT
- 1. Mine Sweep

A dailey reconnaissance (visual) mine sweep is made from BQ 534106 to BQ 539110 on the access read leading from the company area to QL21. To date no mines have been found nor have there been any mining incidents.

- 2. Bridge Repair of 21-27
- On 24 February 1969, bridges 21-27 was damaged by enemy action. The center pler was destroyed and both spans were dropped. A 46" culvert was placed between the dropped spans, wooden headwalls were constructed out of 8"x12" and 3"x12" lumber, and the culvert was backfilled using blast rock and dirt. The company worked all through the day and most of the night until 0300 hours so that the highway would be open to traffic the next morning.
- 3. Base Camp Security

Company A continued the placing of concertina around the perimeter to include three rows of triple concertina and a double apron fence on the west side of the base camp. This work was completed by the first platoon in February. During the same period, a three-man outpost (8'x12') was built by the second platoon on a small hill to the east of the compound. Three rows of triple concerting were placed around it and tied in with the main perimeter.

- 4. Recennaissance Patrels
- Periodic seven-man patrols have been conducted to provide information on the surrounding area and to locate and report any signs of enemy activity. In addition, two all-day search and destroy operations were conducted with MACV in the area to the north of Khanh Duong. Several night ambushes were also conducted jointly with MACV although there were negative results.
- 5. A Co., 70th Engr-610th Consolidated Outpost

This six-man outwest was built by the first plateen in April to establish a mutual defense between Company A and the 610th Engineer Company base came. It was positioned above the quarry site midway between Company A and the 610th. One row of triple concertina encircles the outpost with a second new in the process of completion. The outpost bunker (10'x10') is constructed out of bailey bridge panels and sandbags to provide overhead mortar protection.

1. Maintenance of QL21

this area the company has been primarily concerned with: (1) Petheling the highway (2) Construction of bypasses at the critical bridges (3) Presaring abutments for the construction of permanent bridges (4) Assisting the 610th Engineer Company in asphalt operations along our A.O.R. 1st Plateen has worked on bridge 21-29 cleaning out the river bed and diverting the river channel. Hemelitions were used to destroy the large rocks where the culverts were to be placed. The area also had to be graded off and base course had to be hauled in from the 131st Engineer Company (L)(E). Three 66' sections of 72" culvert have been assembled and the forms for souring concrete asrons and featers have been completed. The 2nd Plateon has built bypasses at bridge 21-27 and bridge 21-28.4. bypass at bridge 21-27 contains two 36" culverts with wooden headwalls. was constructed to replace the original expedient bypass which was built on tes of the blown spans. When this bypass was completed the 2nd plateon cleaned out the bridge site using explosives and an air compressor. A crane with clam shell was brought in to clear out the debris left from the dropped spans. Flans are presently being drawn up for the construction of a new bridge at QL21-27 utilizing the original abutments. At bridge 21-28.4, the 2nd plateon built a bypass using two 48" culverts and wooden headwalls. Blast rock and dirt was hauled in and a dezer was used to bring the bypass to grade. 3rd Plateon took over the job of clearing out the debris at bridge 21-28.4 using a crane with clam shell. Forms for the end dams were then constructed

a. A Company's A.O.R. extende west from bridge 21-24 to bridge 21-31. Within

Petheling has been going on steadily for the past three menths along Q121 with the 3rd Plateen doing the majority of the work. This was originally being done with RC-3 and crushed rock however with the 610th Engineer Co producing asphalt in large quantities, use of this material has been incorporated into our pethele work. 610th asphalt operation began in April and for most of the menth Company 4 has been supplying men to help rake the asphalt and act as road

guards. A Company dumb trucks also haul asphalt to the maving sight.

an ter of the existing abutments and the end dams were soured. Materials are new being drawn for completion of the new bridge. In addition, the third plateon has also done some work at bridge 21-30 excavating for bedrack and preparing

2. Base Camp Construction

and 55 gallen drums.

to build the forms for a new abutment.

three menths. Squad size living/fighting sunkers have been completed by all of the plateens to include the placing of a dirt berm around the entire perimter. Six (6) 20'x40' bunkers and six (6) 20'x30' bunkers were constructed. Four (4) 16'x32' S.E.A huts were built used as an orderly room, day room, supply room, and enlisted men's club. A 5½'x5½' Officer/N.C.O. shower and latrine was completed. A permanent mess hall (1280 square feet) was constructed by the 1st Plateon utilizing a concrete floor and S.E.A. design. A maintenance show (20'x50') was built by the 2nd plateon utilizing the standard Brigade design with concrete floor. The 3rd plateon built a 12'x24' Tactical Operations Center (TOC) and backfilled it with blast rock and dirt. A mortar pit was constructed below the ground for the \$1mm mortar crew utilizing steel pickets, roofing tin.

A great deal of new construction has been completed on the base camp.in the last

LESSONS LEARNED

1. Expedient Syeass Over Blown Bridge

2. Observation:

When a bridge is destroyed by the enemy using demolitions to blow up the center pier and drop both spans, it is sometimes easier to build a bypass over the blown bridge rather than try to construct a hasty bypass. This problem was encountered by the 2nd Plateon at bridge 21-27 where it would have taken at least a week to construct a suitable bypass on either the upstream or downstream side given the steep terrain and limited equipment.

b. Evaluation: Since time was the critical factor in ressening the highway to traffic, it was decided to place one large culvert in the "V" formed by the dropped spans and to use these spans to support the weight of the fill on too of the culvert. To prevent any shifting of the dropped spans during the placing of the fill, it is remammended to place pressure charges on the dropped ends of the spans before attempting to position the culvert in place. This will prevent the pos-

sibility of any later settling which could cause the culvert and/or headwall to become crushed by the waight of the fill. c. Conclusion: The drapped spans served their purpose as a temporary support for the expedient sypass. The placing of pressure charges would have greatly alleviated many of the pressens which arese later as a result of the spans shifting under the weight

- 2. Clearing Of Aggregate For Use In Concrete Observation:
- Suitable screening and washing facilities were not available for washing the dirt and grit from aggregate prior to pouring a concrete pad. The disadvantage of using dirty aggregate for concrete work was quickly realized from a strength lest point of view. b. Evaluation:

A jeep trailer cna be used on a small scale to serform the same function as a screening and washing device given the absence of anything more sophisticated. By filling the trailer with water and rock and then moving the tengue us and down, the aggregate is slowly cleaned while the dirty water is drained out by

use of the drain slugs so that the process can reseated as needed. c. Conclusion: The jeep trailer is a light-weight portable piece of equipment which can be used for a variety of jobs to reduce man hours, equipment hours and material

3. Medification Of Reef Fer Standard Living/Fighting Sunkers Observation:

It was observed during a heavy rain that water had a tendancy to form pools on top of the Brigade designed living/fighting bunkers. Eventually the water that cellected in these weels found its way through the tar maper on the reef and down through the ceiling.

b. Evaluation:

By cutting the posts in front longer than the ones in the middle and in back, it was found that the roof of the living/fighting bunkers could be built on a slant which would allow the proper run-off of rain water.

c. Conclusion:

With no additional materials needed, the living/fighting bunkers could be made much more rain resistent given this alight modification of the present design.

4. The Placing Of Pests Without The Use Of Ancher Belts a. Observation:

Not having any anchor bolts to secure the mosts of the maintenance show to the concrete floor, the plateon leader of the 2nd Plateon was not sure how he could continue with the construction for the building.

b. Evaluation:

After considerable evaluation, the plateen leader was advised that he could use a short siece of lumber of the same dimension as the post to form a base in the concrete floor. This was accomplished by eiling the piece of lumber and placing it down in the wet concrete before the coment had begun to set. By removing the eiled piece of lumber just prior to the complete hardening of the concrete, ti created a place for the post to set and thus secured it to the floor.

c. Conclusion:

The concrete base for the posts made a good foundation for the building and at the same time eliminated the need for anchor bolts.