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SUBJECT: Operational Report - Lessons Learned, Badquart ..., 10111. gimes Battalion, Period Filly 01 513 1989

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DISTRIBUTION NO FOREIGN WITHOUT APPROVAL 35 ABEISTANT CHIEF OF STAFF FOR FORCE DEVELOPMENT (ARMY) ATTN FOR OT UT. WASHINGTON, D.C. 20310

DEPARTMENT OF THE ARMY HE.DQU.RTERS, 169TH ENGINEER BATTALION APO 96491

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15 August 1969

SUBJECT: Operational Report of 169th Engineer Battalion, 4PO 96491, for Period Ending 31 July 1969

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Section 1. Operations: Simificant Activities:

1. Command:

a. <u>Unit Employment</u>: The 169th Engineer Battalion is headquartered on Long Binh 1 st, Republic of Vietnam. During this guarter the battalion was commanded by LTC Clifford T. Florigan until 18 June 1969 when he was injured in an airplane accident and evacuated to CONUS. LTC Edward L. /rnold assumed command on 19 June 1969 and remained in command until 19 July 1969 at which time the command of the battalion was taken over by LTC Robert S. McGarry.

b. <u>Mission</u>: The mission of the 169th Engineer Battalion in the theater of operations is: to construct and rehabilitate roads and airfields, pipeline systems, structures, and utilities; to provide combat and operational support and to assist in emergency recovery operations as directed by the 159th Engineer Group. In addition to the TGAS mission as stated above, the Commanding Officer of the 169th Engineer Battalion is designated as Subsector Commander and has the responsibility for the security of Long Binh Post in his subsector. The subsector responsibility includes at 1700 meter portion of the Long Binh Fost Perimeter.

c. <u>Area Of Resignsibility</u>: The 169th Engineer Battalion's prea of responsibility includes the provinces of Binh Tuy, Long Khanh, Phuoc Tuy, and partians of Bion Hea Province. Additional responsibilities include missions in the Long Binh/Bien Hea complex.

d. <u>Attachments and Detachments:</u> During the quarter the 169th Engineer Battalion had seven attached units: They are the 43rd Engineer Company (DT) (4 officers and 109 EM authorized), 22nd Engineer Detachment (WD)(2EM), Beth Engineer Detachment (WD)(2EM), 156th Engineer Detachment (WD)(2EM), Djist Envineer Detachment (WD)(2EM), 917th Engineer Detachment (WD)(2EM), and ne conthairing platoon (1 officer, 25EM) from D Company, 92nd Engineer Fattalion. The 92nd Engineer Battalian's platoon was attached torD Company, Looth Engineer Battalion, from 15 March 1969 through 30 June 1969, for the gauge of desisting in the LOC construction of National Highway 20.

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e. <u>Movements and Location</u>: Headquarters Company, A Company, and the Lord Engineer Company (DT) continue to be located at long Binh Post in the 169th Engineer Battalion cunterment area. B Company is based at Xuan Loc. C and D Companies each maintain their bandouarters and a plattern (-) on Long binh Post, with the bulk of their personnel located at two separate base camps situated along National Highway 20.

2. Personnel, Morale, and Discipline:

a. Fersonmel:

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(1) The 169th Engline or Battalian remains organized under TOME M5-115G type B w/sugmentation, and has a total authorized strength of 42 officers and 681 enlisted men. Its major attached unit, the 43rd Engineer Company (DT) is organized under TOME 5-124G with a total assigned strength of 4 officers and 109 enlisted men. The personnel strengths of the 169th Engineer Battalion and attached units for the reporting period were as follows:

	OFF	<u>WC</u>	EM	TOTAL
,uthorized (with augmentation)	37	9	805	854
Assigned	36	?	818	861
(b) June	1969			
Authorized (with cugmentation)	37	9	805	854
Assigned	34	9	854	E97
(c) Julj	r 1969			
Authorized (with augmentation)	37	9	805	854
Assigned	34	8	847	889

(a) May 1969 (as of last day of the morth)

NOTE: Above strengths are exclusive of the attached platoon of the 92nd Engineer Battalion.

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SCOUTER of a second appoint of the second second star 96491, for Period Chidals of July 1969

(2) At of [1 any 1969 if it will be allow on a structure units, we 4.1% will be units, we 4.1% will be been the to be the theory of the transformed.

(b) Form HOS events brandthe and as follows:

a I	والمحادث والمعاري	U.L.I.K	
515	C rpentor	E- (• 5	65/56
	licotrici, n	I-4	9/1
52M	Craler Operator	2-4,5	32/21
1	ి జి.గం సంపిల్ సతునియా	·	704

 (b) Cign Moore of a section of include construction signs faton, calculation and a those in Pace:

n Çğ	DL-CHIP. ION	<u>a Ai Is</u>	AULIC HEARING
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5 41	Fit wer	and a	23/50
62J	Gan Con 5 Inon Sper		20/28
(-ten	ons sinch superv	in The second	16/21
. "В	Heavy Vabiole Driver	山~-う	66/100
719	Wanten nos Data Spec	L-4	5/0
(CA	த் மார பிராமத்த	<u>ز</u> -۲	4/10

(2) the indefine in MOS strength is a result of the difference between the requirements listed in the Word and the present mission of the betweenthe requirements having different (05 are given 00T in the needed MOS. For example, plumbers (57%) who are not essential to the present mission are bedue trained as construction foremen, truck frivers and equiptent operators.



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b. <u>Health and Sanitation</u>:

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(1) The physical conditions and overall health of the personnel is very good. Good personal hygiene, cleanliness and personal protective measures are exphasized continuously.

(2) The mess halls and sanitation facilities are inspected regularly, and have been found to be in satisfactory condition. Deficiencies and recommendations are reported to the respective companies, and cooperation of the units has been good.

(3) Although no outbrack of diseases reaching epidemic propertions occured, there are several problem areas. The incidence of diarrheal disease is high, but fortunately most cases are self limiting. Many cases are the result of ingustion of 1 cal Vietnamese food, and arink, the dangers of such practices are emphasized to the troops. Common colds have been mother problem area during this cuarter. The high rate on be attributed to the rainy seases and the confinement of the troops in crowded guarters.

(4) Veneral discuse remains a major problem withing the battalion. Personal protective measures are combinuously stressed to the troops,

c. Morale & Disciplina:

(1) During the reporting period there have been 147 company and field grade Article 15's. Many of these have been for traffic violations, in particular, speeding. Sixteen Surmary and Special Court Martials have been convened.

(2) Morale has remained high throughout the reporting period for the battalion as a mode. This is evident by high number of extensions (82). Softball, basketball, volleyball and football ctivities have been scheduled; movies are shown in the battalion theater and base comps; and a modern NCO-EM club has regulary scheduled entertainment. A full time chaptain provides both Catholic and Protestant services.

(3) RoR allocations for the 169th Engineer Battalian average 60 leaves per month for out-of-country locations. The Battalian receives four allocations to Vung Tau per month. While out-of-country blocations are deemed adequate to accomodate personnel in this blatcalian, in country allocations are effective and will be requested to row and equipment operators and heavy truck drivers who work long hours under potentially dangerous conditions.

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(4) During this reporting period the men of this battalion received 16 Army Commendation Meduls, 18 Bronze Stars, Five Furple Hearts, and Four 20th Brigade Certificates of Achievement. In addition there are eight ACM's, 18 Bronze Stars, and two 20th Brigade Certificates of Achievement pending.

3. Intelligence, Counter Intelligence, and Enemy Activity:

a. Intelligence and Counter Intelligence:

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(1) The battalion has performed no combat intelligence functions during the past reporting period other than reporting to higher headquarters all incidents involving energy activity in the .Ok that involve either units within the Battalion or security forces provided for the Battalion.

(2) The battalion receives intelligence information concerning the Long Binh area and Long Khanh Province in the form of intelligence summaries from Bien Hoa Tactical Area Command, II Field Forces, and Long Khanh Province advisory team. These INTSUMS are received daily.

(3) In addition periodic intelligence briefings are given to officers of the battalion by the 18th "RVN Division and the districts along QL-20. By means of close personal contact with the "RVN and districts, the battalion is kept abreatof the tactical situation.

(4) Recons have been made along QL-20 during this period to locate pessible quarry sites, borrow pits, and a base camp area for the projected move of Company B in preparation for the next construction season.

b. <u>Energy activity</u>: During the past reporting period who construction activities of B, C and D dimpinies were hampered by energy activity along National Highway 20. Twenty-eight company construction days were lost.

(1) Between 0140 and 0200 hours on 15 May 1969, a bridge in B Company's ACR came under mortar fire. One mortar round hit the bridge causing light datage to the head roil. No battalion personnel were at the bridge at that time and the Popular Forces bridge security suffered no casualties.

(2) At 2200 hours on 19 May 1969, Company C Base Camp (YT403253) came under mortar flue. There were no casualties or damage.

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(3) at 0045 hours on 22 Mgr 69, Brave Company base comp (NP455085) came under matter and small arms attack. The base comp revived small arms fire and 19 mortars and rockets. Five US personnel were wounded. Medivac was not required. Several buildings received contensive convectural domage from the mortar runds to include two billets, two underworks sheds and the chapel. There were no knownershy pasualties.

(4) At 1000 hours on 13 June 1969, Company C construction pars the were analyshed at W14634 as they were withing on GL-20. The attack company with B-10 rocket fire which hit a civilion truck. The truck blocked the road fireing a battalion dizer to stop. The dizer control or orbbed his weapon and run into the tree line to go out of the kill zone. I was killed in action and his body was recover diseveral hours later. Cusualties included the US KI. and 2 or 3 Phillipine dividuans vounded. The attack was countered with artillery and close air support. Equiprent suffered minor demant.

(5) At 1720 hours on 17 June 1969, a dump truck from Company C on in asphalt run up QL-20 received automatic was one fire. The truck received two rounds in the bed and continued through the unbuck with slight damage.

(6) At 0500 hours on 28 June 1969, a soction of QL-20 in Company Bis area of responsibility come under north relatack. No personnel were present at the time and the road surface received light damage from one direct hit.

(7) During the past reporting period the subsector of Long Binh Post controlled by this Bottalian received several r dest stacks. Slight damage was suffered and there were n serious casualties. No rounds were received in the Battalian area.

4. Operations and Training:

(1) Combat and Operational Support:

(a) <u>68-20-6</u>, <u>Airfield Maintenance</u>, <u>Ham Tan, Company B</u>, <u>169th</u> <u>Engineer Battalion</u>: Project consisted of repairing and maintaining an airfield. Repaired 821 square meters of sub-surface failure, patched 27,690 square meters of potholes and applied a sand surface treatment to 27,000 square meters. This continuous project was rescinded and a new continuous maintenance directive was issued on 21 Jun 69.

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UDJECT: pur ti nel Report if 139th Eugineer att lin, and 06491, for Period Ending 31 July 1969

(b) <u>269-5676-0-20</u>, Fire Support Base. Gia Ray, Company B. 169th <u>Invision Literian</u>: Constructed three gun positions, an admunition at rate area and t perimeter berg in support of IIFFV stillery. Completed 5 an 69.

(c) <u>229-5794-0-20</u>, Fire funnert Disa, Gi Fry Commun F. 169th <u>interne btalion</u>: Supported LIFRY intillery by classic fire support pase.

(d) <u>289-5798-0-20. Fire 50 mort Pase. C many C. 16 th Envineer</u> attilier. Support. IJFFV ,rtillory by construction a borr and Peronsive essains: complete. 21 Jul 69.

(e) <u>5-9-0302-0-01, Deepen Mitter Mell, Comp Lee, Main Lee & Company</u> Milling <u>Providentian Completian Circe</u>envela ministratively clased

(f) <u>285-5592-0-20. Lemmanary Li Hing La Constiné e OL-20. D</u> <u>HOY. 1 (th Encin in Battalion:</u> Installed fixtures and wind of t illumine a no Talksa River Bridge. Starting date: 20 May 69. Complete not te: 28 Ly 27.

h) <u>289-5620-0-20, neptir Firler Positions, vic 174330.</u> <u>Toton, J. 169th Ler e. r Pattalion:</u> Supported IJFF by constructing six (c) Unit: positions (be ms). Starting lato: 13 May 69. Com. let in State: 30 Jun 69.

(i) 2005 al 23. Line Binh Fort Defense. (Distance and D 19th End of Portfall n: Emproved Line Binh period ter by building outre ing barners, Litrines, and urinals. Installed colverts, culvert pates, concerting, M-79 firing positions, claymore mines and trip flares. continuous an ject was terminated 2 Jul 69, and a new directive was issued, bue culve project 243-5729-3-23).

(j) <u>143-58-158</u>, <u>Friedtive Wills for "DF Forilities, Long Binh</u> <u>194, Commany D. 169th Earlier Battalien:</u> at the facility, 641 linear feet interface filled revetments were constructed using MBAL steel matting. At the other facility, corrugated steel was used to construct 275 linear feet of evotments. Starting date: 18 Mar 69 Completion date: 2 Jul 69.

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(k) <u>159-69-039</u>, POL Tanker Revoluents, 64th Our termaster Bn, Long Binh Post, 43rd Engineer Company (DT), 169th Engineer Battalion: Hauled 8,100 CY of laterite to fill revetments. Starting date: 5 Apr 69. Completion date: 5 Jul 69.

(1) <u>289-5499-2-23</u>. <u>Maintenance Hardstands and Revetments</u>, <u>Blackharse, Company C, 169th Engineer Battalian</u>: Supervised placement of steel matting and revetments to form parking spaces and mainten nee area. Work accomplished on a self-help basis. Starting date: 20 May 69. Project 72 percent completed when administratively terminated on 1 Aug 69.

(2) <u>14ER</u>: None

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(3) <u>LOC:</u> None

(4) M.CV .. dvisor Facilities:

(a) <u>87-242.01</u>, <u>Voll Drilling</u>, Basic, <u>Corport</u> A, <u>169th</u> Engineer <u>Battalion</u>: Well was drilled to 78 fest with 70 fest of sing; tost pumped at 30 GPM. Starting date: 19 May 69. Completion date: 4 Jun 69.

(b) <u>889-0302-0-01</u> III CT7 (LCV dvis ry Uperade, HQ/43rd Rest <u>18th RVN Division, Xuln Loc. Complex B. 169th Encineer Battalion:</u> Constructed one billet with Latrine, kitchen, and covered starige. Also constructed a water storige tank and tower, connecting water and sewage lines, and septic tank. Starting date: 3 Jun 69. Completion date: 21 Jul 69.

(5) <u>Base Construction</u>:

(a) <u>ON-24C-OL-T-75. Mater Supply Facilities</u> fien Hea, Course D <u>169th Engineer Battonic on</u> Constructed two water storage tanks with succel towers and two water troutment facilities for the 101st Arborne Division. Starting date; 17 Apr 68. Complete in date: 21 Jul 69.

(b) <u>07-241-01-T-75. 101st Water Supply Facilities, Bien Hea</u>, <u>Company D. 169th Engineer Battalian</u>: Constructed three water at rige tinks with steel towers and two water tractment f cilities. St rting dute: 29 Mar 69. Completion date: 21 Jul 69.

(c) <u>43-336-10, 506th Field Denot</u> Line Hinh, <u>169th Engineer</u> <u>Battalion</u>: Project consisted of a variety of financial site be constructed including warehouses, loading dicks, and advisionative buildings and plying hardstands and a vehicular parking area. Mary: projects have been added and deleted and some were transferred to civilian contracts. The last phase of this project was paving a vehicular parking area (110,500 SY).

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Project was often delayed by higher priority projects. The last phase was started 1 Jan 69 and completed on 26 Jul 69.

b. <u>...ctive Projects</u>:

(1) <u>Combat and Operational Support:</u>

(a) <u>289-5671-0-20</u>, <u>Materials Issue f r Xuan Lie, B Company</u>, <u>Infineer Battelion</u>: Project consists of issuing materials and providing technic 1 assistance in the construction of one 20 x 100 foot TOC and the repair of one 20 x 60 f t TOC in support of the Deputy Senior Advisor III CTZ. Starting date: 7 Jun 69. Project is 93% complete. Estimated completion date is 31 Aug 69.

(b) <u>2/3-5614-O-20, Non-skid Print, Sanford Helivert, Long Binh</u> <u>Fest, Clumbary, h9th Emrinder Battalion:</u> 725 gallons of non-skid paint were applied to 120,000 square feet of r841 matting in parking areas and taxiways. St rting date; 12 Jun 69. Print ran out on 3 Jul 69 (150 Gal on requisition since 24 May 69). Project is 38% complete. Estimated completion date is five days from receipt of paint.

(c) <u>243-5729-3-23</u>. <u>Maintenance Base Comp Perimeter</u>, Long Binh <u>Post</u>, <u>Company D. 164t</u>: <u>Engineer Battelion</u>: Repaired bunkers and installed concerting entanglements and trip flares. Continuous project; started 2 Jul 69.

(d) <u>289-5756-0-20. Bunker Constructin, Hill 837. Nui Chau Chan</u>, <u>Company D. 169th Engineer Battelim</u>: Constructing (and anchoring against sliding) one periodeter bunker. Starting date: 19 Jul 69. Project is 50% complete. Estimated completion date: 10 Aug 69.

- (2) MER: None
- (3) LOC:

(a) <u>98-240-159-LOC Restoration of OL-20. From QL-1. to Trai Lam</u> <u>Cov. 169th Engineer Battalian</u>: Constructing 9.5 kil meters of MaCV Standard Highway, 173421CL to 17382181, and 48.5 kil meters of all weather highway, 17382181 to 17655462. Fright includes 64 drainage structures including one 60 f t steel stringer bridge. Starting date: 31 Oct 68. Project is 94% complete. Estimated completion date: 15 Sep 69.

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SUBJECT: Operational Report of 169th Environmen Entrain, 2009(191, for Period Ending 31 July 1969

(b) <u>159-68-008</u>, <u>Long Bink sphalt Plant, Compt.</u>, <u>16914</u> <u>Envincer Battalion</u>: Lt til f 22,512 tas f sphalt will provide during this reporting period. Starting date: 15 Jan 69. This is a combine or project.

(c) <u>98-201-15-T-M.</u> Wrintenence f Marie and Brid of 20th <u>Brields LCR, 169th Incineur Battalin</u>: Provent phase f this of this of the second project involves an intenance and remain of (L-20 during the product of we selson. Starting dute: 15 Jul 59, Estimated a platian dute: 31 Cat 19.

(4) <u>L.CV</u> "dvisor Facilities:

(a) <u>889-0302-0-01</u>, IH CTZ m.CV <u>dvisory Ppercos</u>, <u>let 42rd Rest</u>, <u>1Sth LAVN Division, Xuon Loc. Containty F. 169th Engineer Pottelion</u>: Project consists of constructing a billet contained with latrine, kitchin, office, electrical wiring, plunbing, water storage tink and tower, and soptic tank-Sturting date: 23 Jun 69. Project is 20% complete. Estimated completion date: 18 Jun 69.

(b) <u>229-0202-0-01</u>, III III III IV ...dvis re "herede, 2'43 Host, <u>18th RVN Division, Xun Le, Compare C. 169th Insin or Britilion</u>: Freget consists of constructing a billet o replete with latrice, kitcher, office, electrical wiring, plumbing, water st rage tank and t war, and septic tink. Starting date: 21 Jul 69. Freguet is 5% a mylate. Estimated a mplation date: 31 Jug 69.

(c) <u>829-0302-0-01</u>, HI OTE 1 <u>STI Advis ro Uperado, 1743 Elect, 1856</u> <u>ARVN Div. Main Lie, Camport B. 1884 a Leon Ba</u>: Frederic character of contructing a billet complete with latring, kitchen, ffice, electrical wiring, plumbing, water storage tark and twor, and septic tank. Storing late: 1 Jun 19. Project is 75% complete. Estimated completion dite: 14 Avg 69.

(d) <u>889-0302-0-01. II OTE % CV Advisors Provide. 4/13 Rest.</u> <u>18th RVM Division. When L.c. Company B. 160th Englaser Protections</u> Project consists of constructing a billet complete with latrine, kitchen, office, wiring, plumbing, water storage tank and tower, and septic tonk. Starting date: 7 Jul 69. Project is 60% complete. Estimated Completion date:18 Aug 69.

(e) <u>889-0301-0-01</u>, <u>III CT2 LLCV Province Advisors</u>, <u>Xuan Lec</u> Company C, ló9th Engineer Battalion: Fr ject consists of constructing a billet complete with Latrino, kitchen, office, water, sewage, and electrical distribution, water storage tank and tower, and a septic tank. Starting date: 23 Jun 69. Project is 95% complete. Estimated date of completion: 15 Aug 69.

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(f) <u>43-359-01-159</u>, <u>HII CTZ MACY Province Advisors</u>, <u>Ham Tan</u>, <u>binh Twy, AB Commany</u>, <u>169th Enrineer Battalian</u>: Project consists of enlarging and impriving 3 billets, installing electricity, water, and sewage austribution systems, drilling a well, and constructing a water tiwer and contic tank. The project is complete except for the well. Starting date: 7 Feb 69. Fr.ject is 98% complete. Completion is expected by 31 ang 69.

(7) <u>12-260-01, Well for M.CV advisors, Phu Cuong, Commany A.</u> 169th <u>Engineer Battalion:</u> Drilling well AT MACV Advisor facility in support of 34th Engineer Battalion. Starting date: 15 Jul 69. Well is 80 feet deep, anticipate: coulfer at 100 ft. Estimated completion date: TBD

(5) <u>Base Construction</u>:

(B) ...

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(a) <u>89-2%-OL-T-7S. Centenment Facilities, Blackhorse (Xuan Loc)</u>, <u>Damp of C. 169th Encloser Battalian</u>: No work done this period in Post Chapel, X M. and the maintenance sheds, and crease racks due to lack of self-nely composer. Of these 25 buildings, three are complete, ten pads are placed and seven buildings are framed. All solf-help manyower has been diverted to the object in of the Service Club, the largest in Vietnam. Troject was transfound from the Blat Enginer Battalian, 34th Engineer Group, to the 169th Ungine r Pattalian, 159th Group on 3 Mar 69. The Service Club is 84% complete and the overall project is 45% complete. The estimated date of complete and the overall project is 45% complete. The estimated date of complete.

(b) <u>89-205-03-T-75, sirfield Support F-cilities, Blackhorse.</u> (Nuch Lee), <u>Company 3, 199th Enringer Battalion</u>: No work performed on wash masks or operations outlding due to higher priority work on Service Club. Starting date: 9 Nov 58. Froject is 97% complete. Estimated date of completion: 30 Sep 69.

(c) <u>43-371-01</u>, Water Storge Tanks, Long Binh Post, Company D. <u>49th Encineer Battalian</u>: Two water storate tanks with bruck fill stands were constructed. Access roads to the fill stands remain to be constructed, having been delyed due to higher priority horizontal construction on GL-20. Starting date: 1 Jan 69. Troject is 95% complete. Estimated date of completion: 30 Sep 69.

(d) <u>43-377-07, Grass Seeding US,RV Hill, Long Binh, Company A.</u> <u>169th Engineer Battalion</u>: Seeding and fertilizing 300,000 square yards of US.RV Hill. Project was completed in 30 Jun 69. However, in some areas the seed washed away before it could germinate. These areas are being reseeded and sprayed with an asphalt emulsion which has been shown to yield good results. Starting date: 20 Sep 68. Project is 99% complete. Estimated completion date: 10 Aug 69.

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(e) <u>507-0305-0-01. Road Upgrade</u>, Bien Hoa, Company A. 169th Engineer Battalion: Project consists of pring 86,377 square yards of roads at Bien Hoa Army Base. Starting date: 1 Jul 69. Project is 40% complete. Estimated completion date: 31 Aug 69.

(f) 43<u>=331=15-T-7S Road Paving. Long Binh Post: ... & D Companies.</u> 169th Engineer Battalion: Froject consists of paving 230,000 square yards of road on Long Binh Post. Completed paving roads at the 48th Transportation Group. Starting date: 20 Nov 68. Project is 53% complete. Estimated completion date: 30 Sep 69.

c. Projects Fending:

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(1) Combat and Operational Support: None

(2) MER: None

(3) LOC: <u>498-5305-0-20</u>, <u>Exploratory Drilling at Xuan Loc, Company A</u>, 169th Engineer Battalion: Project consists of core drilling to determine the limits of the proposed quarry. The core drill has been deadlined since 10 May 69 for a broken gear. The project has not been started.

(4) <u>MACV Advisor Facilities: 43-356-01-159</u>, III CTZ MACV District <u>advisor Facilities, Binh Twy Privince, Tanh Linh, Contany 10, 169th Engineer</u> <u>Battalion</u>: Froject consists of constructing various combinations of billets with latrines, septic tanks and water storage at Han Tan and Tanh Linh, and a well with pump and chlorinator at Tanh Linh. The project is complete except for the well. Starting date: 7 Feb 69. Project is 98% complete. Completion date is unknown because of security difficulties in transporting the well drilling rig to the job site.

15) <u>Base Construction:</u>

(a) <u>589-0603-0 Ol. Site Pr paration for Xuan Lee (Blockharse).</u> <u>Power Plant, 169th Engineer Battelion</u>: Fraject consists if hauling rock and sand and constructing two FOL tank berns. The customer's plans have not been finalized.

(b) <u>40-001-01-0-65. Lei Khe Fower Distribute of Company A.</u> <u>169th Envineer Battulion:</u> Support the 168th Envineer Battulion by drilling ten holes thirty fest deep and tw inches in diareter. The core drill has been deadlined for a broken gear since 10 May 69; the project has not been started.

(c) <u>43-280-01-T-75 (B&D) Outdoor Presention Facilities, Long Binh</u> <u>Fist, Commany & D. 169th Environg Fattelin:</u> Fraject consists of constructing four softball fields, four tennis courts, four basketball courts, and thirty volleyball courts. Project has not been started due to its low priority.

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d. <u>Haul Missions in Support of Battalion Operations. (43rd Engineer</u> <u>Company, Dump Truck):</u>

(1) Rock to asphalt plant: 5225 CY

(2) Send to asphalt Plant: 1358 CY

(3) Rock to job sites: 4050 CY

(4) ...sphilt to paving sites: 14,920 Tons

(5) Laterite to 34th Engineer Battalion and 169th Engineer Battalion Utilities: 680 CY

(6) Rock to the 34th Engineer Battalion: 891 CY

e. <u>Flans</u>: During the past quarter this battalion has been engaged in the palming for the construction of 66 kilometers of QL-20 to CENCOM state inds, to be completed in 30 Jun 70. Construction planning, and allocation of resolutes connot be finalized until the inchittet Engineer design of QL-20 is received by this unit. Because the highway design has not been received several concepts of operations have been developed and it is felt that upon receipt of the design, very little time will be 1 st in implementing the most applicable plan.

f. Training:

(1) Formal training (as apposed to OJT) is conducted in the Battalion on Sunday and Tuesday evenings. Mandatory D. and USARV subjects are taught. The unjusity of training is carried on at the company level in commanders lectures and regular classes. At battalion level a class in Counter Sapper Training is conducted as in two weeks by the S-2 staff and officers from the companies. This class is given to all new personnel and includes the skills that relate to period the guard duties, such to weapons familiarization, artillery fire and adjustment, energy sapper to changes, and starlight scopes.

(2) Company ., Direct Support Maintenance Section, conducts OJT for ARVN mechanics. There is an average of six (6) ARTN mechanics being trained at all times.

(3) ... school has been set up for the drivers of the new GMC dump brucks that are being received under the MCA/20C buy program. The school is a naucted by the GMC Technical Representative. Thus far fifty (50) operators must this unit have attended the school.

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(4) In addition to formal driver training a program of OJT training for military damp truck drivers has been set up by the 4/d Engineer Company (DT) to insure a maximum number of qualified operators at all times.

g. <u>Communications</u>: The communications effort during the quarter can be divided into three primary missions:

(1) Wire: The maintenance of the established communication system at Long Binh Post. This consisted of rewiring most of the lond-line network of the 169th Engineer Battalien. This quarter saw the installation of some much needed back-up lines to the sub-sector perimeter and the restructions of the entire telephone circuit system.

(2) <u>Radio</u>: The operation, muintenance and improvement of the relay facility on QL-20. The increased emphasis upon the Battalion's mission on QL-20 caused greater usage of the relay station. The tactidal situation continued to necessitate 24 hour operations: this was managed by rotating two man teams at the site every month. The falibility of operators in relaying messages made an auto-retransmission station desirable. Eventually one was successfully established; however it remains a mintenance problem.

(3) <u>Crypto</u>: The establishment of a brigade widd teletype circuit in July, which incorporated a crypto capability added som new hardware to the commo section, requiring the institution of an on-going operator trading program. A files system was set up and pertinent AR's and forms ordered The 169th Engineer Dattalion was not able to enter into the net during this quarter because of defective equipment.

5. Logistics:

a. Equipment Status:

The follaring list reflects Mission Essential TOE/MTOE equipment which is short in the battalion.

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NONENCLATURE	UTH	0/H	SHORT
Truck, Dump, 5T	%	80	J6
Distributor, water, Tank Type Trk Mtd, 1000 gal	6	5	1
Seni-Trailer, 60T	l	0	1
Shop Maint Equip, Contact Truck	6	5	l
Ship Equip, Work Working, Trl Mtd	8	4	4
Tractor, Wheeled, DED, W/buldozer, 290M	21	19	2
Semi-Trailer, Long Wheel Base 25T, 4-wheel	26	20	6
Truck, Tractor, 10T, úxú, 5th W	28	23	5
Distributor, Bit., Tank Type, Trk Mtd, 800 gal	2	l	1
Crane-Shovel, Crwl Mtd, 40T 2 Cu Yd	l	0	1
Roller, Motorized, GED, 3 wheel, 10 Tn	3	2	1
Lubricating and Servicing Unit Power operated, Trl Mtd.	6	2	4
Mixer, Rowary Tiller, Dsl Drvn, Self Fropelled	1	0	1

b. Unit Readiness:

(1) The equipment unit readiness standards for equipment on hand is presently reporting a REDCON C4 rating. At the present slow rate of receiving TOE equipment, it appears that the battalion will continue reporting a rating of C4 for equipment on hand for an indefinite period.

(2) The following figures represent the total RICC I reportable line items and the quantity filled:

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S: Operational Report of 169th Engineer Battalion, APO 96491, for Period Ending 31 July 1969 No of L/T

(a)	Total Filled		Filled	% of L/I Filled	
	(1)	90% filled	63	50%	
	(2)	80% filled	11	9%	
	(3)	70% filled	4	3%	
	(4)	Less than 70% filled	49	38%	
	(5)	Overall Rating	127/63/11/	'4/49 - REDCON C4	

c. <u>HCA/LOC Program</u>: The battalion has been asked by the 20th Engineer Brigade to pick-up, process, and make available all of the incoming MCA/LOC equipment for the brigade in the recent MCA/LOC buy program. The following procedures are in effect:

(1) Upon notification by 159th Engineer Group or 20th Engineer Brigade that equipment has arrived in-country (Saigon Docks, Newport Docks, or Tan Sen Mhut AFC), it is picked up and transported to Long Binh by the 169th Engineer Battalion within 24 hours.

(2) Company A, 169th Engineer Battalion, is required to deprocess all the equipment. Technical representatives have been made available by USARV for supervision and assistance.

(3) Once the equipment is ready, the receiving unit is notified and the equipment is transferred and picked up on the receiving unit property book.

(4) As of the end of this reporting period, the 169th Engineer - Battalion is assigned 26 pieces of MCA/LOC equipment.

d. Maintenance Float Items: The 169th Engineer Battalion has been authorized additional maintenance float items. An increase from two D7E tractors to 52 assorted pieces of heavy and light equipment has been authorized. The majority of the maintenance float has been requisitioned. The items not requisitioned are not considered critical and a request to eliminate these items from the authorized stockage has been forwarded.

c. <u>General Supplies</u>: An increasing short ge of expendable solf-service type items has been noted. Common items such as mineograph and bond paper, staples, inks, flashlights, (TOE) and assorted typewriter ribbons are not evailable, or a list that been imposed on the burchase of such items from the SSSC, making it difficult to perform required elerical duties. Of the 332 flashlights authorized for this battalion, over half are not on hand or are unserviceable.

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f. <u>Ammunition & Demolitions</u>:

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(1) During the reporting period, the 169th Engineer Battalion was reinspected by US.RV, G4, Immunition Section, pertaining to the storage, handling, accounting and maintaining of records for ammunition. In overall rating of excellent was received.

(2) A critical shortage of the following munitions have resulted in the items being designated as US/RV command control:

- (a) Cord, Detonator
- (b) Chg, Demo, Composition C
- (c) Chg, Demo, C3
- (d) Chg, Demo, C4
- (c) Cop, Blasting, Spec-Elect

(3) All items of the nature outlined above are required on a continuous basis in order to support quarry operations.

g. <u>Maintenance</u>:

(1) The Battalion deadline rate for the quarter averaged 13.1% for US.RV critical items and 5.6% overall. A major portion of maintenance effort continues to be expended on the acquisition of repair parts, especially for low density engineer equipment items.

(2) Long Binh Asphalt Plant needed at least 5 hours a day for emintenance(Ninty percent of this time for repair of the pugnill and motors). Due to age and past modifications on the equipment, parts identification and requisition is difficult.

h. <u>EVNAF Improvement and Modernization</u>: During the reporting period the 169th Engineer Battalion has participated in the RVNAF improvement and Modernization Fragram by restoring selected items of equipment to 0-2 concition and then transforming the equipment to ARVN Channels.

i. Construction Materials:

(1) During this period the following project was stopped due to the lack of materials:

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(22)

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Project No	Project Title	FSN of Required Item	Nomenclature of Required Item	
243-5414-0-20	Sanford Heliport	5610-921-5/32	Faint, Non-Skid	

(2) All means have been exhausted to obtain the item. The project cannot be continued until the material is available.

(3) A critical shortnge of the following construction materials has resulted in the items being placed under USARV command control:

(a) Lumber, lx

- (b) Lumber, 2x
- (c) Lumber, 4x
- (d) Plywood, (All Sizes)

6. Force Development: The 169th Engineer Battalion and subordinate company AOR's remained unchanged over the reporting period. Company A retains responsibility for the operation of Long Binh Asphalt Plant and for direct support maintenance. The rock crusher on QL-20 remains the operational responsibility of D Company.

7. <u>Command Management</u>: Increased emphasis has been placed upon the preparation of the project data requests. The entire responsibility for their preparation has been assumed by battalion operations. The bulk of the required information is received in the form of daily feeder reports from the companies. This method has proven to be the most effective means for accumulating correct information on the construction projects.

8. <u>Inspector General Activities</u>: The 169th Engineer Battalion did not receive an inspection during the guarter.

9. <u>FIO</u>:

a. A Battalion Newsletter is published twice monthly. Stories submitted by the companies are featured, as well as those of interest to the battalion in general.

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b. Feature stories describing the battalion operations and accomplishments were prepared. Twenty two stories were submitted to the 169th Engineer Group PIO for use in the Group and Brigade newspapers or in military publications outside Vietnam.

c. During the reporting period, 185 Hometown News Releases were submitted, Most of these releases involved newly-arrived individuals and these receiving promotions. Also a recording specialist from the Second Field Forces Information Office came to the battalion area on several occasions to make taped interviews for release to home town radio stations.

10. <u>Civic Action</u>: The personnel of the 169th Engineer Battalion Aid Station have been active in Medical Civic Action Program (MEDCAF) in conjunction with 720th Military Folice Battalion. Weekly visits are made to villages outlying Long Binh Post to provide medical care for the local civilian population. The villages included Long Binh Tam, An Hoa Hung, and Long Hung, which is made of two hamlets, Phuc Hoi and An Xuan.

SECTION 2: Significant Lessons Learned:

L. Fersonnel: None

2. Intelligence: None

3. Operations:

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a. Hydroseeding US, RV Hill:

(1) Observation: During the hydrosceding of US.RV Hill it was noted that much of the seed was lost if heavy rain fell before the seed had time to germinate.

(2) Evaluation: To eliminate this problem some method of holding the seed and fertilizer in place was needed until the seed germinated and rooted.

(3) Recommendation: By mixing an asphalt emulsion with the water, seed, and fertilizer mix in a hydroseeder, and then spraying this mixture over the desired area, the asphalt holds the seed in place long enough for sufficient growth to begin. Test areas have shown 85% germination. When applying this method, care should be taken to flush out the hydroseeder with diesel oil to prevent the emulsion from thickening in the storage tank, pump, and associated piping.

b. Asphalt Plant Engine Cleanliness:

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(1) Observation: The drive engines at the asphalt plant deteriorate rapidly.

(2) Evaluation: The abnormally high dust level was causing rapid diesel engine deterioration.

(3) Recommendation: In addition to a more frequent cleaning and changing of air filters, a 15" air pipe was run from the engine to a point 30 feet away where the dust level is much lower. This greatly lowers the dust intake and reduces wear.

c. Well Casing:

(1) Observation: Very often, at great depths, well casing will break at its welded points or the material through which the drilling is taking place will cave in.

(2) Evaluation: A means to continue drilling under these conditions was meded.

(3) Recommendation: Place a comment mixture in the well, let it partially set up, and then drill through the partially hardened concrete with a smaller drill (usually 8" reduced to 6"). This actually makes a concrete casing. Results have thus for been fairly successful.

d. Ditch Erosion Control:

(1) Observation: Due to the steep slope of the ditches around a bridge site, rapid evosion of the ditch line was occuring and endangering the entire structure.

(2) Evaluation: Some method of stopping the erosion was required.

(3) Recommendation: Construction of a concrete spillway or trough was considered too time consuming. Half sections of 72" culvert were used in conjunction with headwalls to provide a steep slope while eliminating erosion. Lengths of angle iron were welded under the flange, parallel to the longitulinal axis to provide lateral stability and to prevent a wavey appearance when the culvert was backfilled.

e. Septic Tank Construction:

(1) Observation: Construction of rectangular concrete septic tanks is a time consuming job.

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(2) Evaluation: Building and stripping the forms for the walls and baffle is the most time consuming part of septic tank construction.

(3) Recommendation: That septic tanks be composed of two separate cylindrical tanks. The walls of the concrete cylinders may be precast or cast-in-place using concentric sections of corrugated metal culvert as the forms which remain part of the tank. The top and bottom of the tanks may be circular or rectangular leinforced concrete slabs. The design depth and diameter may be determined based on the expected flow. This unit has discovered this to be a very expeditious means of septic tank construction.

f. Perimeter Fighting Festions:

(1) Observation: A great deal of effort has been expended in replacing intermediate fighting positions on Long Binh Post perimeter because of rapid sand bag deterioration.

(2) Evaluation: A low cost, easily constructed, durable fighting position was needed.

(3) Recommendation: That internatiate fighting positions be constructed from concrete and half sections of culvert - both of which are readilly available, durable, and low cost construction materials. One design consists of 72 inch and 60 inch culvert 42 inches high concentrically placed and filled with concrete to form a circular wall. The wall has a rear entrance and another are shaped section of wall for a standoff. The walls are anchored to a six inch thick rectangular concrete slab.

4. Locistics: None

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5. Training: None

6. Organization: None

7. Other: None

ROBERT S. McGAREY LTC, CE Commanding

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DGB-3(15 Aug 69) 1st Ind DUECENT: Operational Report of 169th Injineer Pattalion, APO 96491, for Period Ending 31 July 1969

DA, HC, 159th Engineer Group, AFC 96491 20 August 1969

Te: Cormandin, General, 20th Sagineer Frighte, MTTH: AVET-08, ADO 96491

1. Submitted IAN USARW Meg 525-15, dated 13 April 1969 is the Operational Megort Lersons Learned for the M69th Lagineer Estimation.

2. Subject report for the 169th Engineer Eattalion has been reviewed and is considered adequate.

JAIES I. DEVINE COL, CD Cormanding

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CF: CO, 169th Engr En AVBI-OS (15 Aug 69) 2nd Ind SUBJECT: Operational Report for the 169th Engineer Battalion (Construction) for the Period Ending 31 July 1969, RCS CSFOM-65(R1)

DA, HEAD WARTERS, 20 TH ENGINEER BRIGADE, APO 96491 (13) (3)

TO: Commanding General, United States army Vietnam, ATTN: AVHGC-DST, APO 96375

1. Submitted in accordance with USALV hegulation 525-15, dated 13 April 1968.

2. Subject report for the 169th Engineer Battalion (Construction) has been reviewed and is considered adequate.

FOR THE COMMANDER:

·--/ 1. 1. 96 6 - 14 S. B. KENNEDY Najor, AGC Adjutant مىر مىرى ي س

Copies Furnished: CO, 159th Engr Gp CO, 169th Engr Bn AVHGC-DST (15 Aug 69) 3d Ind SUBJECT: Operational Report of 169th Engineer Battalion, APO 96491, for Period Ending 31 July 1969, RCS CSFOR-65 (R1)

HEADQUARTERS, UNITED STATES ARMY, VIETNAM, APO San Francisco 96375 2 2 SEP 1969

TO: Commander in Chief, United States Army, Pacific, ATTN: GPOP-DT, APO 96558

1. This headquarters has reviewed the Operational Report-Lessons Learned for the quarterly period ending 31 July 1969 from Headquarters, 169th Engineer Battalion.

2. Comments follow:

21.

37)

a. Reference item concerning "Septic Tank Construction", section II, page 20, paragraph 3e; concur. Cylindrical septic tanks may be used singly or in series.. The size and number of tanks must take into account the amount and type of flow expected, and the holding time required.

b. Reference item concerning "Perimeter Fighting Position", section II, page 21, paragraph 3f; concur. This appears to be an acceptable method of prefabrication. The position should be placed in an earth berm or otherwise covered to reduce spalling of the concrete material when struck by a projectile.

3. Inclosure 1, the unit's organizational chart, has been added by this headquarters.

FOR THE COMMINDER:

1 Incl as Incl wd HQ, DA

Cy furn: 169th Engr Bn 20th Engr Bde

CPT, AGC Assistant Adjutant General

GPOP-DT (15 Aug 69) 4th Ind SUBJECT: Operational Report of HQ, 169th Engineer Battalion for the Period Ending 31 July 1969, RCS CSFOR-65 (R1)

HQ, US Army, Pacific, APO San Francisco 96558 14 OCT 69

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:

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D. A. TUCKER CPT. AGC ASST AG

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CO, 169th Engineer Battalion				
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