

HEADQUARTERS 120TH ENGINEER C BATTALION

AFPO 45,  
US Army  
1 December 1943

ENGINEER INTELLIGENCE SUMMARY)  
NUMBER 65)

1. This report covers the period 292400 a Nov to 302400 Nov.
2. Water Supply:  
No change.
3. Camouflage:  
Areas of several division units were inspected for camouflage at 1500A.
  - a: 157th Inf.
    - (1) Pup tents neither dispersed nor camouflaged.
    - (2) Clothing and bedding hanging in open.
    - (3) Vehicles not using nets.
  - b: 179th Inf.
    - (1) Clothing hanging in open.
    - (2) Vehicles not sufficiently dispersed or properly located.
    - (3) Personnel living in buildings, thereby eliminating some camouflage problems.
  - c: 180th Inf.
    - (1) Latrines dug in open.
    - (2) Clothing and bedding hanging in open.
    - (3) Poor vehicle track discipline.
    - (4) Pup tents in open, not dispersed, and with no camouflage.
    - (5) Kitchens in open with no camouflage:
  - d: 158th FA
    - (1) Clothing hanging in open.
    - (2) Pup tents not dispersed, no attempt to camouflage those in open.
  - e: "A" Battery 171 FA.
    - (1) Pup tents not dispersed, those in open not camouflaged.
    - (2) Kitchen has good overhead concealment, but is open from oblique view.
    - (3) Vehicles A4 and A5, are not using camouflage nets. Vehicle A2 has it's net draped improperly.
  - f: "B" Battery 189th FA.
    - (1) Have taken good advantage of excellent concealment afforded by olive trees.
4. Engineer Operations:
  - a. Continued improvement of road to Vairano.
  - b. Continued operation rebuilding footbridge at 093093.
  - c. Repaired 2 culverts and improved road on east side of Volturno River between Mark Clark bridge and Mastrati:
  - d. Demolished cave on Monte Corno used by Germans as Artillery OP.
  - e. Cleared and marked minefields north of Pozzillil.
  - f. One platoon in readiness to support Infantry.

(Over)

5. Engineer Disposition:  
No change:

6. Effective En Strength:  
696 EM  
40 Off  
2 WO

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

2 December 1943

Engineer Intelligence Summary }  
No 66)

1. This report covers the period 302400A Nov to 012400A Dec.
2. Water Supply:  
No change
3. Engineer Operations:
  - a. Improved bridge at HO48240
  - b. Patrolled and maintained roads to 180th Inf CP and to MISTRATI.
  - c. Widened curves in road at RJ HO62212 and at HO50207.
  - d. Widened street (FILIGNANO road) through POZZILLI and road from POZZILLI to RJ HO39250.
  - e. Completed suspension-foot bridge at HO93093.
  - f. Widened road at foot of mountain from VEMAFRO to POZZILLI.
  - g. Cleared streets in POZZILLI from concrete dip to corner of square.
  - h. Started to clear minefields north of POZZILLI.
4. Engineer Disposition:  
No change
5. Effective Bn Strength:

EM	.....	698
Off	.....	40
WO	.....	2

For the Division Engineer

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

3 December 1943

Engineer Intelligence Summary)  
No 57 }

1. This report covers the period from 012400A Dec to 022400A Dec.
2. Roads and Bridges:
  - a. Road RJ H107242 - RJ H081340, class C2. Muddy surface with bad drainage from RJ H107242 to H090321.
  - b. Road RJ H081340 - H046343, class C1½.
  - c. There are three two-way timber trestle bridges between RJ H107242 and H103307.
  - d. There are "double-double" (one-lane) Bailey bridges at H103307, at H089321, and at H082338.
  - e. Bridge blown at H079337. One-way bypass in use, wood trestle bridge being constructed.
  - f. Road demolished at H050340; rough one-way bypass.
3. Water Supply:
  - a. No change in location of WP's.
  - b. Total water delivered Nov 21 (last report) to Nov 30, incl - 380675 gals
  - c. Total water delivered Sept 10 to Nov 30, incl..... 3027269  
Average Daily delivery..... 37374
  - d. Total water delivered for month of November..... 1298870  
Average daily delivery..... 43296
  - e. Average daily delivery last week of November..... 39762
  - f. Delivery last day of November..... 42040
  - g. Tabulation of daily delivery by WP, Nov 21-30, incl, follows:

Date	WP 26	WP 27	WP 28	Totals
Nov.	H180057	H080103	H033200	
21. ---	1600 --	6900 ---	23200	31700 gals
22. ---	2000 --	9445 ---	25725	37170
23. ---	2000 --	2655 ---	28315	33470
24. ---	2500 --	0 ---	35265	37765
25. ---	2580 --	0 ---	35710	38290
26. ---	1100 --	5625 ---	30345	37070
27. ---	300 --	8775 ---	25350	34425
28. ---	closed -	17160 ---	25245	42405
29. ---		15950 ---	30340	46340
30. ---		14890 ---	27145	42040
			<u>Total:</u>	380675 gals
4. Engineer Disposition:  
No change
5. Effective Bn Strength:  
EM ----- 696      off ----- 41      WO ----- 2

For the Division Engineer:

Benjamin E Billups  
Capt CE  
S-2



HEADQUARTERS 120th ENGINEER COMBAT BATTALION

4 December 1943

Engineer Intelligence Summary)  
No 68 )

1. This report covers the period from 022400A Dec to 032400A Dec.
2. Bridges:
  - a. 157th Inf reports bridge at H023254 still intact.
  - b. 180th Inf reports bridge at H002163 prepared for demolition but not blown. Charges have been removed.
3. Mines:
  - a. 35 S-mines were cleared from an area vicinity H008153.
  - b. 48 AP mines (M2) were laid by infantry at trail junction H022222 and on terraced ground east of junction on Nov 26. There are trip wires on the majority of the mines. (Sketch submitted separately).
  - c. 509 Par Bn reports laying mines along west ridge of Monte S. Croce, from H014209 to H024214. (Sketch to be submitted)
  - d. 180 Inf reports 7 Teller mines in road on east side of bridge H002163.
4. Water Supply:  
No change
5. Engineer Operations:
  - a. Co "A"
    - (1) Improved bypass at H043240
    - (2) Constructed roads in Class I, III, & IV dumps in Vairano (110035)
  - b. Co "B"
    - (1) Improved bypass in POZZILLI.
    - (2) Cleared streets in POZZILLI.
    - (3) Cleared S-mines vic. H008153.
  - c. Co "C"
    - (1) Maintained road RJ H050145 to CEPPAGNA.
    - (2) Maintained mountain road from VENAFRO to POZZILLI.
6. Engineer Disposition:  
No change
7. Effective En Strength:

EM ..... 699 Off.....41 WO .....2

For the Division Engineer

BENJAMIN E BILLUPS  
Capt CE  
S-2

## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

5 December 1943

Engineer Intelligence Summary }  
No 69 }

1. This report covers the period from 032400A Dec to 042400A Dec.
2. Bridges:
  - a. Both trestle bridges at HO65163 washed out by high water during the afternoon. The Bailey bridge at the same site is in, but damaged so that it cannot be used at present.
  - b. Footbridge at HO93093 washed out.
  - c. All other bridges over the Volturno River north of the Dragoni bridge are washed out.
  - d. Bridge at HO88062 washed out during the night of Dec 4-5. Traffic is being re-routed over road HO88075--HO31065, thence south on Hwy 6.
3. Water Supply:  
No change.
4. Engineer Operations:
  - a. "A" Co
    - (1) Improved by-pass at HO48240.
    - (2) Maintained road HO93140 to HO88157.
    - (3) Constructed roads at Class I dump in Vairano.
  - b. "B" Co
    - (1) Maintained and patrolled main road from HO50174 to POZZILLI and mountain road from VENAFRO to POZZILLI.
    - (2) Cleared streets in Venafro.
    - (3) Conducted mine removal school for 180th Inf.
    - (4) Maintained by-pass at HO21176-HO24174.
  - c. "C" Co
    - (1) Maintained and improved road HO53143 to HO24174.
  - d. 5 dump trucks and shovel borrowed from 39th Engrs on "C" Co project.
5. Engineer Disposition:  
No Change.
6. Effective Bn Strength:  
EM ..... 697      Off ..... 41      WO ..... 2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

6 December 1943

Engineer Intelligence Summary)  
No 70 )

1. This report covers the period from 042400A Dec to 052400A Dec.
2. Bridges:
  - a. The Bailey bridge at H065163 is being rebuilt because of damage to the pier and abutments caused by high water.
  - b. No bridges are at present in use over the Volturno River north of the Dragoni bridge.
3. Water Supply:  
No Change
4. Engineer Operations:
  - a. Co "A"
    - (1) Building bridge at H049241.
    - (2) Maintained and improved road H053143-H024178.
  - b. Co "B"
    - (1) Maintained road H061214-H042252.
  - c. Co "C"
    - (1) Maintained and improved road H053143-H024178.
5. Engineer Disposition:  
No change.
6. Effective En Strength:

En.....725      Off.....40      WO.....2

For the Division Engineer

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

7 December 1943

Engineer Intelligence Summary)  
No 71)

1. This report covers the period from 052400A Dec to 062400A Dec.
2. Roads:
  - a. Road H034152-043169-048177 is impassable. It is a narrow, sunken cart track with no drainage, and bridge over canal at H043169 is out.
  - b. Road along east embankment of canal from H052209-054224-053226 to H049232 (POZZILLI) is class Cl.
3. Bridges:
  - a. Bailey bridge is now open to traffic at H088072.
  - b. Bailey bridge is being installed at H018184.
  - c. Two-lane timber trestle bridge is under construction at H048241.
  - d. One-lane bypass has been built around blown culvert at H030254.
4. Mines:
  - a. Road along east embankment of canal from H052209-054224-053226 to H049232 (POZZILLI) has been swept for mines, no mines found.
  - b. Four demolition charges, averaging .200 lbs explosive each, were removed from road on east side of blown culvert at H030254.
5. Water Supply:  
No change
6. Engineer Operations:
  - a. Co "A"
    - (1) Constructing bridge at H048241.
    - (2) Maintained and improved road H052143-023178.
  - b. Co "B"
    - (1) Cleared streets in FILIGNANO
    - (2) Walking patrol maintained road from VEMAFRO to FILIGNANO, improved drainage system and filled shell holes.
    - (3) Constructed bypass at H030254.
    - (4) Removed road charges at H030254.
    - (5) Swept road for mines along east embankment of canal to POZZILLI.
  - c. Co "C"
    - (1) Maintained and improved road H052143-023178.
7. Engineer Disposition:  
No change
8. Effective Bn Strength:  
EM.....731      Off.....39      WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

8 December 1943

Engineer Intelligence Summary)  
No 72)

1. This report covers the period from 062400A Dec to 072400A Dec.
2. Bridges:
  - a. A class 40 steel stringer bridge has been completed at H049241.
  - b. Bailey bridge at H065163 opened for traffic at 1500A.
3. Water Supply:  
No change
4. Engineer Operations:
  - a. Co "A"
    - (1) Completed bridge at H049241.
    - (2) Maintained and improved road at H053134 - 023178 (one platoon assisting Co "C")
  - b. Co "B"
    - (1) Clearing streets in FILIGNANO.
    - (2) Maintained and improved road VENA-FRO-POZZILLI-FILIGNANO.
    - (3) Building roads and turn-arounds in quartermaster area at VAIRANO.
  - c. Co "C"
    - (1) Maintained and improved road H053143 - 023178.
5. Engineer Disposition:  
No change
6. Effective Bn Strength:  
EM.....728      Off.....40      WO..... 2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2

## HEADQUARTERS 120TH ENGINEER COMPAT BATTALION

9 December 1943

Engineer Intelligence Summary)  
 No 73 )

1. This report covers the period from 072400A Dec to 082400A Dec.
2. Water Supply:  
 No change
3. Engineer Operations:
  - a. Co "A"
    - (1) Maintained bridge HO48240.
    - (2) Maintained and improved road east of bridge HO65163.
  - b. Co "B"
 

Cleared obstructing camouflage from road HO30254-RJ HO40249.

    - (2) Constructed roads and turn-arounds in quartermaster area at VAIRANO.
    - (3) Removed mud from road on east bank of canal south of POZZILLI.
  - c. Co "C"
    - (1) Maintained and improved road HO35143-023178.
    - (2) Erected shelters for aid stations in Ranger area.
4. Engineer Disposition:  
 No change
5. Effective Ba Strength:

EM -----	726
Off-----	38
WO-----	2

For the Division Engineer:

BENJAMIN E MILLUPS  
 Capt CE  
 S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

10 December 1943

Engineer Intelligence Summary )  
 No 74 )

1. This report covers the period from 082400A Dec to 092400A Dec.

2. Bridges:

a. Bridge at H029254 is still intact. It is a masonry arch construction, about 80 ft overall length. Our patrol reported no demolition charges on the bridge. If the center of the bridge only should be blown, it could easily be repaired with a simple stringer bridge. No suitable by-pass sites were found, and it is reported that the easiest passage in the event of complete demolition would be gained by laying culvert and fill on original bridge site. This bridge is still within enemy lines.

3. Camouflage:

Notes on German Camouflage:

Road screens were placed on all portions of road from POZZILLI to FILIGNANO and from RJ H039250 to H035247 that are visible from the Volturmo Valley, or from the hills east of the Volturmo valley.

The camouflage was primarily designed as a screen against ground observation, and consisted of small trees, 10 to 12 ft high, wired in an upright position at 2 to 3 foot intervals. Along a large section of the road, the downhill side consists of a masonry parapet from 3 to 20 feet high. In such places the screen was so constructed as to cover the rock parapet as well. ~~Handwritten notes~~

In places where there was no wall on the downhill side, 4" x 12 ft posts were sunk in the ground at approximately 10 foot intervals and the screen was tied to these to provide rigidity.

The overhead bracing wire was occasionally used to support small brush, etc, which was suspended from supplementary wires.

The screen evidently served its purpose, as the road was apparently used without serious interference until the area was physically occupied by our forces, although the road was within our range and visible to our CP's for at least a week prior to that time.

On aerial photographs of that area taken November 2, 1943, it will be noted that the section H039250 to H035247 appears to be muddy, or in a state of disuse, whereas the opposite was true.

4. Water Supply:

No change

5. Engineer Operations:

a. Co "A"

- (1) Maintained and improved road east of bridge H065163
- (2) Hauled gravel for bridge at H048240.
- (3) Replaced tracing tape with barbed wire on minefield at H025196.

b. Co "B"

- (1) Building turn-ins and road at quartermaster area near Vairano;

c. Co "C"

- (1) Maintained and improved road H053134-023178.
- (2) Blasted shelter for Ranger aid station at H017205.



(Engr Int Sum No 74, cont'd)

6. Engineer Disposition:

No change

7. Effective En Strength:

EM .....725      Off.....38      WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CR  
S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

11 December 1943

Engineer Intelligence Summary)  
No 75 }

1. This report covers the period from 092400A Dec to 102400A Dec.

2. Bridges:

a. Two Bailey bridges on the VENAFRO-CEPPAGNA road opened for traffic:

(1) H018184.....Class 30

(2) H016182.....Class 24

b. Treadway bridge at H009179 (CEPPAGNA) is being replaced with a Bailey Bridge (class 40).

3. Water supply:

a. No change in WF locations.

b. Total water delivered Dec 1-8 incl .....389405 gallons

c. Total water delivered Sept 10-Dec 8 incl.....3407944 gals.

Average daily delivery.....37866 gallons

d. Total water delivered last week.....349165 gals.

Average daily delivery.....49881 gals.

e. Water delivered Dec 8.....54405 gals.

f. Tabulation of delivery by WF, Dec 1-8 incl follows:

	WF no. 27	WF No. 28	Totals:
Dec 1	15695	24545	40240
2	15720	28355	44075
3	14685	26010	40695
4	3640	33225	36865
5	12515	54740	67255
6	13390	41210	54600
7	11370	39400	50770
8	19265	35140	54405
			-----
			389405

4. Engineer Operations:

a. Co "A":

(1) Maintained and improved road east of bridge H065163.

(2) Marked off mined area vicinity H025196.

(3) Maintained and improved road net between Venafro and Volturmo.

(4) Completing Ranger aid station shelter.

b. Company "B":

(1) Building turn-ins and roads in quartermaster area at Vairano.

(2) Maintained and improved mountain road from Venafro to Pozzilli.

c. Company "C":

(1) Maintained and improved road H053143-023178.

(2) Finished blasting shelter for Ranger aid station at H017265.

5. Engineer Disposition:

No change.

6. Effective Battalion Strength:

EM-----725 Off-----38 WO-----2

For the Division Engineer:

BENJAMIN E. BILLUPS, Capt CE S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION  
A.P.O. #45, U S Army

12 December 1943

ENGINEER INTELLIGENCE SUMMARY)

NUMBER 76)

1. This report covers the period from 102400A Dec to 112400A Dec.

2. Bridges:

a. Class 40 Bailey Bridge at H009179 (Ceppaga) is now open for traffic;

3. Water Supply:

No change.

4. German Anti-Personnel Bomb:

a. Enemy aircraft dropped AP bombs in vicinity of H027177 at 110930.

b. Carrying case for bombs with six unexploded bombs fell at that point. All are in good condition and intact. The case is in the shape of a 500 lb bomb, 14" diameter and 69 $\frac{1}{2}$ " long, exclusive of hinge. It is made in two sections, hinged at the tail, and with electric contacts and explosive chamber in the nose. It has a capacity of 150 or more AP bombs of the type shown in "Tactical and Technical Trends No. 13, p. 24. The sixth one is identical in appearance except that it is painted black instead of yellow. The fuse seems to be one piece, screwed by hand into nose. However these have not been examined closely.

c. Operation is believed to be as follows: The loaded case is loaded into bomb rack in usual manner. An attachment is provided in the plane which sends an electric impulse through connector on upper half of case when relief mechanism is operated. This probably actuates time fuse, which ignites charge in explosive chamber after bomb is safely clear of plane. Explosion forces nose apart and case hinges open, releasing small bombs. This is born out to some extent by several witnesses of yesterday's bombing, who reported that "AA fire hit one of the bombs, and it exploded in mid-air". This was over the area where these bombs fell.

d. Reports have been made to D.O.O. Parties interested in bomb removal or investigation should contact this Hq for guides to site. The case is at this CP.. Drawings of case have been made and will be forwarded as part of the next summary.

5. Engineer Operations:

Co "A":

Maintained and improved road net east of bridge H065153.

Marked off mined area vicinity H027195.

Maintained and improved road net between Venafro and the Volturmo.

Company "B":

Maintained and improved road H053143 to H023178.

Maintained mountain and main roads between Venafro and Pessilli.

Company "C":

Maintained and improved road H053143 to H023178.

Made turn-ins for Bn CP in Venafro.

H&S Co.

Motor action cleared road junction in Venafro to 2 vehicles that had collided.

BENJAMIN E. MILLAPS  
Capt CE., S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION  
A. P. O. #45, U. S. ARMY

13 December 1943

ENGINEER INTELLIGENCE SUMMARY:

NUMBER 77:

1. This report covers the period from 112400A Dec to 122400A Dec.
2. Bridges:
  - a. Bridge HQ24254 is still intact. Our infantry has a 12 man patrol at the bridge to secure it.
  - b.
3. Mines:
  - a. Infantry reports German egg grenades and Italian "Red Devils" being used as AP mines.
  - b. VI Corps Engineer reports concrete picket mines found in minefield near Scapoli. See appendix "A" for description.
4. Engineer Materials:
  - a. About 75 rolls of German barbed wire are located along road at HQ07152.
5. Water Supply:

No change
6. Engineer Operations:
  - a. Co "A":
    - (1) Maintained and improved main road HQ62213 to Pozzilli.
    - (2) Maintained and improved canal road HQ53210 to Pozzilli.
    - (3) Cleared and widened road in Pozzilli.
  - b. Company "B":
    - (1) Two platoons with Co C maintaining and improving road HQ53143-024185.
    - (2) Maintained and improved road from Pozzilli to Filigiano.
  - c. Co. "C":
    - (1) Maintained and improved road HQ53143-HQ24185
    - (2) On Dec 10 constructed 12 gun emplacements for 131st FA Bn W of Venafro.
  - d. H&S Co:
    - (1) Built road for 977 FA Bn.
    - (2) Removed wrecked vehicles from road in Venafro.
7. Engineer Disposition:

No change.
8. Effective Bn strength:

EM-----723    Off-----38    WO-----2

For the Division Engineer:

BENJAMIN E BILLYUS  
Capt CE  
S-2

HEADQUARTERS 120TH ENGINEER C BATTALION  
APO #45, U S Army

14 Dec 43.

ENGINEER INTELLIGENCE SUMMARY)

NUMBER 76)

1. This report covers the period from 122400A Dec to 132400A Dec.
2. Mines:
  - a. Area at HO79217 swept for mines. No mines were found.
  - b. German egg grenades reported previously being used as mines (see Engr Int Summ No 77, par 3a) and some were found to be of a new type. Differences from the old type are as follows:
    - (1) A ring in base to facilitate attachment to trees ect for use as mine.
    - (2) Wing-nut on igniter to facilitate installation and removal.
    - (3) Lettering on top of BZE igniter reads "evy--43" instead of "evy--42" or "exl--42". These igniters were found to be used interchangeably.
    - (4) Lettering on bottom reads "hkn--43" instead of "can--42".
    - (5) Grenade is lettered on side "--da. März 1943"
3. Water supply:

No change.
4. Engineer Operations:
  - a. Company "A"
    - (1) Maintained and improved main road HO62213 to bridge HO48240.
    - (2) Made minor repairs and gravelled muddy spots on main road from Venafro south.
    - (3) Maintained and improved road east of bridge HO65163 to Mastratl.
    - (4) Completed marking off mined area vicinity HO27195.
  - b. Company "B":
    - (1) Cleared area of mines fro Div CP in divinity HO79217.
    - (2) Maintained and improved road from bridge HO48240 to Filignano.
    - (3) Two platoons with Co C maintaining and improving road HO53143-HO24185.
  - c. Company "C":
    - (1) Maintained and improved road HO53143-HO24185.
5. Engineer Disposition:

No change
6. Effective Strength:

EM-----733      Off-----38      WO-----2

For the Division Engineer:

BENJAMIN E MILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION  
A. P. O. #45, U S Army

15 Dec 43

ENGINEER INTELLIGENCE SUMMARY)

NUMBER 79)

1. This report covers the period from 132400A Dec to 142400A Dec 43.
2. Water Supply:  
No change
3. Engineer Operations:
  - a. Co. "A"  
(1) Maintained and improved main road from HO50174 to Pozzilli.
  - b. Co "B":  
(1) Maintained and improved main road from Pozzilli to Filignano.
  - c. Co "C":  
(1) Maintained and improved road HO53143 to HO23185.  
(2) Filled crater at Class I dump at Vairano.
4. Engineer Disposition:  
No change.
5. Effective Dn Strengths:  
EM-----928      Off-----38      WO-----2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2

HEADQUARTERS 120TH ENGINEER COMBAT BATTALION  
A. P. O. #45, U. S. Army

16 Dec 43

Engineer Intelligence Summary)

Number 30)

1. This report covers the period from 142400A Dec to 152400A Dec 43.
2. Mines:
  - a. Trail from Pozzilli to HO41226 cleared of mines.
3. Water Supply:
  - a. No change in WP locations.
  - b. Total water delivered Sept 10-Dec 11, incl.-----3599309 gals.  
Average Daily delivery ----- 39123
  - c. Total water delivered for week Dec 5-11 incl----- 409665 gals.  
Average daily delivery ----- 58523 gals.
  - d. Water delivered Dec 11 ----- 70065 gals.
4. Engineer Operations:

Co "A":

  - (1) Maintained and improved main road from Pozzilli to CR HO39250.
  - (2) Explored for possible peep trail from Pozzilli to west. None found.

Co "B":

  - (1) Maintained and improved main road from HO39250 to Filignano.
  - (2) Constructed peep trail from Filignano to HO35267.

Co "C":

  - (1) Maintained and improved main and mountain roads from Venafre to Pozzilli and main road from Venafre south.
5. Engineer Disposition:  
No change.
6. Effective Bn Strength:  
Off-----38 WO-----2 EM 727

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

17 December 1943

Engineer Intelligence Summary)  
No 61 )

1. This report covers the period from 152400A Dec to 162400A Dec.

2. Mines:

a. The following is an extract from a report submitted by Capt Hugh T. McCULLOUGH Jr., CO, Co "A", 120th Engr C BN:

"The following report covers the operations of one squad, thirteen men, from this company who were attached to the First Ranger Bn, from November 10th to December 14th. The prime mission of this squad was to clear paths and trails in the Ranger sector of mines and booby traps and to help with any necessary pioneer work, While working under extremely bad weather conditions up the slope and on the tops of M. Corne and M.S. Croce this squad deactivated some 350 S-mines. These mines were activated with all types of igniters, the pull type connected to a trip wire the most common. Plain uncoated steel wire was used in all cases and after three weeks of rain the fresh coating of rust made the wire very easily picked up by the eye. To say the least the area was well mined, with very little regard for any definite field pattern. Ravines, trails and terraces were always mined.

Many of the mines examined were faulty by reason of wet powder and blasting caps not inserted. In all examined mines the powdered type yellow explosive was used.

x x x x x x x x x x  
"Continual rain caused many failures in the mine detectors. In many places the detector could not be used on account of the heavy deposit of shrapnel on the ground and also exposure to the enemy. On the steep slopes, fatigue was the important factor.

"At one particular point on M. Corne a dead American soldier was de-booby trapped. A wire was connected from him to an S-mine, which shows our enemy in this sector will welcome the opportunity to booby-trap our dead personnel."

3. Water Supply:

No change

4. Engineer Operations:

a. Co "A"

(1) Constructed road from HO43211 to HO42224.

b. Co "B"

(1) Constructed road from FILIGNANO to HO35267.

c. Co "C"

(1) Maintained and improved main and mountain roads from VENAFRO to POZZILLI.

5. Engineer Disposition:

No change

6. Effective Bn Strength:

EM.....732 Off.....39 WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE S-2

HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

18 December 1943

Engineer Intelligence Summary)  
No 82 )

1. This report covers the period from 162400A Dec to 172400A Dec.
2. Water Supply:  
No Change
3. Engineer Operations:
  - a. Co "A"  
(1) Worked on ambulance trail from HO43211 to HO45215
  - b. Co "B"  
(1) Developed tank road from FILIGNANO to 500 yds south-west of LAGONE.
  - c. Co "C"  
(1) Maintained and improved road net from VENAFRO to POZZILLI:
4. Engineer Disposition:  
No change
5. Effective Bn Strength:  
EM.....713    Off.....38    WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

19 December 1943

Engineer Intelligence Summary)  
No 83 )

1. This report covers the period from 172400A Dec to 182400A Dec.
2. Water Supply:  
No change
3. Engineer Operations:
  - a. Co "A"
    - (1) Improved road HO24251 to HO11256.
    - (2) Constructing by-pass at HO12256.
    - (3) Filled crater at HO11257.
    - (4) Swept road for mines from HO24251 to HOO5266.
  - b. Co "B"
    - (1) Maintained and improved road from FILIGNANO to 500 yards south-west of LAGONE.
  - c. Co "C"
    - (1) Cleared and widened road from CR HO39250 to HO30254.
    - (2) Improved by-pass at HO30254.
4. Engineer Disposition:  
No change
5. Effective Bn Strength:  
EM..... 721 Off.....37 WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2

HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

20 December 1944

Engineer Intelligence Summary)  
No 34)

1. This report covers the period from 182400A Dec to 192400A Dec.
2. Water Supply:  
No change
3. Engineer Operations:
  - a. Co "A"
    - (1) Maintained and improved road from CR H039250 to H010261.
    - (2) Completed by-pass at H012256.
  - b. Co "B"
    - (1) Constructing road from H035267 to park at H025266.
    - (2) Maintained and improved road from FILIGNANO to H035267.
  - c. Co "C"
    - (1) Improved and widened road from H010261 to H000271.
4. Engineer Disposition:  
No change
5. Effective Bn Strength:  
EM.....728      Off.....37      WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

21 December 1943

Engineer Intelligence Summary }  
 No 35 }

1. This report covers the period from 192400A Dec to 202400A Dec.

2. Water Supply:

- a. No change in WP locations.
- b. Total water delivered Dec 12-18, incl, ~~475390~~ 475390 gals  
 Average daily delivery..... 67913
- c. Total water delivered Sept 10-Dec 18, incl..... 4074699  
 Average daily delivery..... 40747
- d. Water delivered Dec 18..... 62665
- e. Tabulation of delivery by WP, Dec 12-18, incl, follows:
- | Date   | WP 27   | WP 28   | Totals                    |
|--------|---------|---------|---------------------------|
|        | H080103 | H033200 |                           |
| Dec 12 | 24170   | 38750   | 62920 gals                |
| 13     | 21430   | 38830   | 60260                     |
| 14     | 23535   | 50150   | 73685                     |
| 15     | 21785   | 52915   | 74700                     |
| 16     | 19445   | 57425   | 76870                     |
| 17     | 17200   | 47090   | 64290                     |
| 18     | 19285   | 43380   | 62665                     |
|        |         |         | <u>Total: 475390 gals</u> |

3. Roads:

- a. Truck trail constructed from FILIGNANO - H030268 - H021265. This trail is very steep, slick, and in places ground is soft.
- b. Truck trail under construction from H025267 to MASTRO GIOVANNI.
- c. It is reported by recon. parties that no feasible route exists N.E. of MASTRO GIOVANNI for continuation of truck trail.
- d. POZZILLI - CASALE road open for all types of vehicles to G995274. All demolitions are passed by 1 lane fills formed by sloughing off banks of craters. It is impossible to use motorized equipment in this area due to enemy action.

4. Demolitions:

- a. A series of 10 craters was blown in the roadway at H003269. They were 10-12 ft in diameter and 4 ft deep. Apparently single charges were used.
- b. Culvert was blown at H012256, G998273, G998274. Type of demolition same at H030254, previously reported.
- c. Bridge in CASALE demolished. Reconnaissance party estimated gap of 60 ft, but was unable to take measurements, nor estimate closely, due to darkness.

5. Engineer Operations:

- a. Co "A"  
 (1) Maintained and improved road from CR H039250 to H010261.
- b. Co "B"  
 (1) Maintained and improved road from FILIGNANO to H023266.
- c. Co "C"  
 (1) Maintained and improved road H010261 to G995273.  
 (2) Repaired bridge at G995273.



(Engr Int Summ No 85 cont'd)

6. Engineer Disposition:

No change

7. Effective En Strength:

EM.....714      Off .....36      WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-3



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

22 December 1943

Engineer Intelligence Summary)  
No 36 )

1. This report covers the period from 202400A Dec to 212400A Dec.
2. Roads:
  - a. Construction of truck trail from H020266 to H015262 begun.
  - b. White posts, 4 ft high, are being placed on outside of berm of road RJ H039250 to CASALE as an aid to night driving.
3. Demolitions:
  - a. For details of prepared charge found at H012256, see Annex "A" to this report.
  - b. Bridge in CASALE blown. Estimated gap 50 ft. Measurements were impossible due to darkness and presence of enemy troops.
4. Mines:
  - a. Several Teller No. 3 mines are being found equipped with Teller No. 1 igniters.
  - b. Case for accessories to S-mines found at LAGONE was made of wood. All previous samples noted were of steel. The lid of the wooden box is stamped "Zundmittel fur je 9S. M1 35". Contents of the box is unchanged.
  - c. Several German magnetic hollow cone demolition charges found in vicinity of hill 470 (H025250).
5. Material:
  - a. Approximately 150 rolls barbed wire in FILIGNANO, more wire scattered along CASALE road.
6. Engineer Operations:
  - a. Co "A"
    - (1) Improved and widened road from cross roads H039250 to H010261.
    - (2) Placed white posts on sides of road to CASALE.
  - b. Co "B"
    - (1) Maintained and improved road from FILIGNANO to H020266.
    - (2) Extended road from H020266 on through to road at H015262.
  - c. Co "C"
    - (1) Maintained and improved road H010261 to H995273.
7. Engineer Disposition:  
No change
8. Effective Bn Strength:  
EM.....709    Off.....36    WO.....2

For the Division Engineer:

BENJAMIN B BILLUPS  
Capt CE  
S-2

## HEADQUARTERS 120TH ENGR COMBAT BATTALION

23 December 1943

Engineer Intelligence Summary )  
 No 87 )

1. This report covers the period from 212400A Dec to 222400A Dec.
2. Mines:
  - a. Sketch of wooden S-mine accessory box, reported in Engr Int Sum no 86, par 4b, accompanies this report.
3. Water Supply:  
No change
4. Engineer Operations:
  - a. Co "A"
    - (1) Improved and widened road from cross roads H039250 to H010264.
  - b. Co "B"
    - (1) Extended FILIGNANO - LAGONE road on through to road at H015262.
  - c. Co "C"
    - (1) Constructed road for 171 FA from H024251 to H028250.
5. Engineer Disposition:  
No change
6. Effective Bn Strength:  
EM.....713    Off.....36    WO.....2
7. Correction:  
Of the prepared demolition charges reported and described in Annex "A" to Engr Int Sum No 86, 16 were found in the same vicinity (H012256) in addition to the four previously reported.

For the Division Engineer:

BENJAMIN E BELLUPS  
 Capt CE  
 S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

24 December 1943

Engineer Intelligence Summary }  
 No 88 }

1. This report covers the period from 222400A Dec to 232400A Dec.
2. Bridges:  
Blown bridge at G995274 has been repaired with a hand fill.
3. Roads:
  - a. Road from FILIGNANO-LAGONE to road at H015262 has been completed. One bad turn at H015262 is being fixed. Road passable to half-tracks.
  - b. Road to CASALE has been swept for mines. No mines found.
4. Water Supply:  
No change
5. Engineer Operations:
  - a. Co "A"
    - (1) Maintained and improved road from cross roads H039250 to H006265.
    - (2) Hauled gravel for bridge H048240.
  - b. Co "B"
    - (1) Maintained and improved road from FILIGNANO - LAGONE to road at H015262.
    - (2) Cut trail to 180th Inf Cannon Co bivouac area.
  - c. Co "C"
    - (1) Maintained and improved road from H039250 to H006265 (with Co "A").
    - (2) Swept road for mines from H006265 to CASALE.
    - (3) Temporary repair on bridge H052209 (complete repair effected by 39th Engineers)
    - (4) Repaired bridge G995274.
6. Engineer Disposition:  
No change
7. Effective Bn Strength:  

EM.....	710	Off.....	36	WO.....	2
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For the Division Engineer:

BENJAMIN E BILLUPS  
 Capt CE  
 S-2

## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

25 December 1943

Engineer Intelligence Summary)  
No 39 )

1. This report covers the period from 232400A Dec to 242400A Dec.
2. Roads and Bridges:
  - a. Road back to SAN SALVATORE is passable by way of CAPIATI--PRATA--ALIFE--PIEDIMONTE--FIACCHIO. There is about 10 inches of water in the Fiume Tevere at the FIACCHIO by-pass. The bridge at GIOIA is strong enough to hold 2½ ton trucks. Other bridges and by-passes on route are in good condition.
  - b. Blown bridge at CASALE (G989280) has gap of 62 feet, ravine 30 feet deep. Can be bypassed on upstream side.
3. Mines:
  - a. Anti-personnel mines encountered by 157 Infantry patrol at G989249. Probably S-mines.
  - b. About 100 German box mines (Holmine) found stacked along fence on road to CASALE.
4. Water Supply:  
No change
5. Engineer Operations:
  - a. Co "A"  
(1) Maintained road RJ H039250--forward of RJ H015262.
  - b. Co "B"  
(1) Maintained and improved road FILIGNANO-LAGONE-RJ H015262.
  - c. Co "C"  
(1) Constructing trail for 171 FA from H024252 to H027250.
6. Engineer Disposition:  
No change
7. Effective En Strength:  
EM.....714    Off.....35    WO.....2

For the Division Engineer:

BENJAMIN B BILLUPS  
Capt CE  
S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

26 December 1943

Engineer Intelligence Summary)  
No 90 )

1. This report covers the period from 242400A Dec to 252400A Dec.
2. Roads:
  - a. Houses blown into street in two places at CASALE. One resulting pile of debris is 12-15 ft high.
  - b. Road beyond CASALE is in good condition for  $\frac{1}{2}$  mile.
3. Mines:
  - a. The German "Holzmines" reported yesterday (Engr Int Sum No 89, par 3b) are located at H015260, stacked with German artillery ammunition. There are about 120 of them in all.
  - b. On guard rail at H008263 were found 4 charges, each consisting of a 5 gallon tin filled with artillery powder and one 1-kg block.
4. Water Supply:  
No change
5. Engineer Operations:
  - a. Co "A"
    - (1) Maintained road from RJ H039250 to 180 Inf aid station at H011264.
    - (2) 1 officer and 2 enlisted men sent with 180 Inf patrol to CASALE.
    - (3) Swept and probed road for mines behind patrol to CASALE. Main mission was to probe for box mines.
  - b. Co "B"
    - (1) Maintained and improved road FILIGNANO-LAGONE to RJ H015262.
  - c. Co "C"
    - (1) Completed trail for 171 FA, and are extending it for use of 157 Inf mule head.
6. Engineer Disposition:  
No change
7. Effective En Strength:  
En.....716    Off.....35    WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

27 December 1943

Engineer Intelligence Summary }  
 No 91 }

1. This report covers the period from 252400A Dec to 262400A Dec.
2. Bridges:
  - a. Further investigation of CASALE bridge site (0989280) reveals:
    - (1) Original bridge has gap of 62 feet.
    - (2) North abutment is almost vertical, with drop of 20 feet to stream bed.
    - (3) South abutment has a gradual slope.
    - (4) If bridge had been intact, the angle of approach on north bank would have made it impassable to all but  $\frac{1}{2}$  tons.
    - (5) By-pass route exists 50 yards north-west of original site, over terraces. Soil very soft. Bridge still required at stream.
    - (6) Best route: blow in north abutment and install culverts on original site.
  - b. Bridge at G974273 was intact at 262330A when our patrol visited it. German OP heard on south side of bridge.
3. Roads:
  - a. Road from CASALE to bridge G974273 is in good condition, class Cl $\frac{1}{2}$ .
  - b. Craters in road from H011264 have been filled.
4. Mines:
  - a. One S-mine found in area previously swept at culvert G995273.
5. Demolitions:
  - a. Patrol, while at bridge G974273, heard demolitions in direction of ACQUAFONDATA.
6. Enemy Material:
  - a. German smoke grenades (Blendkörper 2H) were found along road at H008261. Turned over to Div Chem Off.
7. Water Supply:
  - a. Dry WP opened in POZZILLI on morning of Dec 25. Water supplied from WP 28 and hauled by 405 Water Supply Bn.
  - b. Total water delivered Dec 19-25, incl. .... 471640 gals  
 Average daily delivery..... 87377
  - c. Total water delivered Sept 10-Dec 25, incl.....4546339  
 Average daily delivery..... 42890
  - d. Water delivered Dec 25..... 76870
  - e. Tabulation of delivery by WP, Dec 19-25, incl., follows:



(Engr Int Summ No 91 cont'd)

Date	WP 27 <u>H060103</u>	WP 28 <u>H033200</u>	Totals
Dec 19	18490 --	44870	63360 gals
20	14110 --	42545	56655
21	16650 --	43280	59930
22	6560 --	56175	62735
23	0 --	64760	64760
24	12080 --	75250	87330
25	16375 --	60495	76870
			<hr/> Total: 471640 gals

8. Engineer Operations:

a. Co "A"

(1) Maintained road from RJ H039250 to 180 Inf aid station at H011264.

b. Co "B"

(1) Maintained and improved road FILIGNANO - LAGONE - RJ H015262.

c. Co "C"

(1) Filled craters in road from 180 Inf aid station at H011264 to CASALE

(2) Constructing supply trail for 157 Inf.

9. Engineer Disposition:

No change

10. Effective Bn Strength:

EM.....714      Off.....36      WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2

HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

28 December 1943

Engineer Intelligence Summary }  
 No. 92 }

1. This report covers the period from 262400A Dec to 272400A Dec.
2. Roads:  
 See attached overlay
3. Water Supply:  
 No change
4. Engineer Operations:
  - a. Co "A"
    - (1) Continued clearing rock and debris from barrow pits and berms of road from RJ H039250 to H011264.
    - (2) Improved and gravelled turnout at H008263 to mule-head dump.
  - b. Co "B"
    - (1) Maintained and improved trail FILIGNANO - LAGONE - RJ H010262.
  - c. Co "C"
    - (1) Filled shell craters in road 200 yards southeast of CASALE.
    - (2) Repaired the revetment in by-pass at G995274 damaged by artillery fire.
    - (3) Continued construction of trail H024252 - 028243.
5. Engineer Disposition:  
 No change
6. Effective En Strength:  
 EM.....713      Off.....36      WO.....2

For the Battalion Commander:

BENJAMIN E BILLUPS  
 Capt CE  
 S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

29 December 1943

Engineer Intelligence Summary)  
 No 93 }

1. This report covers the period from 272400A Dec to 282400A Dec.

2. Roads and Bridges:

Reconnaissance party of night of Dec 27 - 28 reports:

- a. Road from CASALE to G974267 (limit of reconnaissance) is two-lane(-), gravel, in good condition. Several small shell craters exist.
- b. The bridge at G977273 is intact.
- c. There is a series of seven craters in the road at G974267. Although they effectively block the road, a bypass can be effected by cutting side hill to the right. Right bank is earth.

3. Water Supply:

No change.

4. Engineer Disposition:

a. Co "A"

- (1) Continued clearing rock and debris from barrow pits and berms of road, from RJ H039250 to H011264. Also building turn-outs and parking places and widening portions of the road.
- (2) Improving fences and placing signs on minefields between POZZILLI and bridge H048240.

b. Co "B"

- (1) Maintained and improved road FILIGNANO - LAGONE - RJ H015262.
- (2) Constructed trail for  $\frac{1}{2}$  tons from LAGONE to MASTRO GIOVANNI, connecting with above-mentioned road.

c. Co "C"

- (1) Finished trail for  $\frac{1}{2}$  tons from H024252 to G28243.
- (2) Demolished remaining abutments and portion of road at bridge in CASALE, in preparation for construction of fill.

d. H&S Co

- (1) Installing shower unit near water point in VENAFFRO.

5. Engineer Disposition:

No change

6. Effective Bn Strength:

EM.....708 Off.....35 WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
 Capt CE

HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

30 December 1943

Engineer Intelligence Summary }  
No 94 }

1. This report covers the period from 282400A Dec to 292400A Dec.
2. Roads and bridges:
  - a. Streets in CASALE cleared for one-lane traffic.
  - b. Blown bridge at CASALE has a one-lane by-pass suitable for all vehicles.
3. Water Supply:

No change
4. Engineer Operations:
  - a. Co "A"
    - (1) Maintained and improved road RJ H039250 to H011264.
    - (2) One platoon cleared debris from streets in CASALE during night.
  - b. Co "B"
    - (1) Maintained and improved road FILIGNANO - LAGONE - RJ H015262 and trail to MASTRO GIOVANNI.
  - c. Co "C"
    - (1) Completed one-lane by-pass for bridge at CASALE during night.
  - d. H&S Co:
    - (1) Installing shower unit near WP in VENAFFRO.
5. Engineer Disposition:

No change
6. Effective Bn Strength:

EM	.....714	Off.....35	WO.....2
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For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

31 December 1943

Engineer Intelligence Summary)  
No. 95 )

1. This report covers the period from 292400A Dec to 302400A Dec.
2. Water Supply:  
No change
3. Engineer Operations:
  - a. Co "A"
    - (1) Maintained and improved road RJ H039250 to H011264, also placed white posts along road.
    - (2) One platoon continued clearing streets in CASALE.
  - b. Co "B"
    - (1) Maintained and improved road FILIGNANO - LAGONE - RJ H015262 and trail to MASTRO GIOVANNI.
    - (2) Built turn-outs and gun positions for 180th Inf Cannon Co.
  - c. Co "C"
    - (1) Improved by-pass at CASALE
  - d. H&S Co
    - (1) Completed installing shower unit near WP in VENAFRO.
4. Engineer Disposition:  
No change
5. Effective Bn Strength:  
EM..... 709    Off.....35    WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2



## HEADQUARTERS 120TH ENGINEER COMBAT BATTALION

1 January 1944

Engineer Intelligence Summary)  
 No 96 )

1. This report covers the period from 302400A Dec to 312400A Dec.
2. Roads:
  - a. One to three inches snow on all roads north and west of POZZILLI.
3. Mines:
  - a. A new type of concrete mine was found in LAGONE, stored in a building with some Teller mines. Details are as follows (see also attached sketch):
    - (1) Mine spherical in shape, 13 inches in diameter, cast in two halves which are belted together by two steel rods. A fiber gasket was used between the two halves.
    - (2) Cavity for explosive measures approximately  $8\frac{1}{2}'' \times 8'' \times 4''$ .
    - (3) Explosive charge consisted of 14 200 gm blocks TNT ("Spreng-Korper 26"), and six or eight additional blocks crumbled to fill remaining space, making a total of about 9 lbs.
    - (4) No detonators or fuses were found with the mine. An opening one inch in diameter was left for insertion of detonator.
    - (5) The concrete casing has a core of fine, hard concrete, 11 inches in diameter, and a one-inch coating of coarse concrete. Between these two there is a network of reinforcing wire. Both types of concrete probably have shrapnel as aggregate.
    - (6) There is a canvas carrying strep provided, as shown in sketch.
  - b. ENGINEER BULLETIN NO 13, Headquarters VI Corps, dated 30 Dec 1943, describes a German anti-personnel spherical concrete mine which has been encountered on the 2nd DIM front in the vicinity of MONNA CASALE. This differs from the one described above in that it is 10 inches in diameter, is cast in a single piece, and contains 3 blocks of Triton (750 gm) inserted into the mine. It may be detonated with any standard detonator assembly. This mine may be plated with trip wire running in several directions; or, by reducing the charge to two blocks and countersinking the igniter, the mine could be used as a grenade by rolling down hill like a bowling ball.
4. Water Supply:  
 No change
5. Engineer Operations:
  - a. Co "A"
    - (1) Constructed trail from H007264 to G998253.
    - (2) Maintained and improved road RJ H039250 to H011264.
  - b. Co "B"
    - (1) Maintained and improved road FILIGHANO - LAGONE - RJ H015262.
    - (2) Improved turn-around at RJ H015262.
  - c. Co "C"
    - (1) Improved by-pass at CASALE.
    - (2) Maintained and improved roads vicinity CASALE.



(Engr Int Summ No 96 cont'd)

5. H&S Co  
(1) Shower unit near WP in VINA PRO put into operation at 311200A  
Dec.

6. Engineer Disposition:  
No Change

7. Effective En Strength:

EM.....715    Off.....35    WO.....2

For the Division Engineer:

BENJAMIN E BILLUPS  
Capt CE  
S-2

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