

SRH-048

SUMMARY OF OPERATIONAL ACTIVITY OF SIGNAL SECURITY  
DETACHMENT "D", 12th ARMY GROUP, ETO, COVERING THE  
PERIOD, 1 SEPTEMBER 1944 TO 1 APRIL 1945.

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SUMMARY OF OPERATIONAL ACTIVITY OF  
SIGNAL SECURITY DETACHMENT "D", COVERING  
THE PERIOD 1 SEPTEMBER 1944 TO 1 APRIL 1945

1. PURPOSE

a. This report is intended to summarize briefly the signal intelligence mission assigned to Signal Security Detachment "D" and actions taken by that Detachment in the accomplishment of that mission. Although the Detachment began field operations as a unit in the middle of August 1944, 1 September was chosen as the starting point of this report since effective contacts with G-2 Section, 12th Army Group Tactical Headquarters, and with the signal radio intelligence units in the field were firmly established by that date.

2. MISSION OF THE DETACHMENT

a. The mission assigned to the Detachment was the procurement of Signal Intelligence from the solution of enemy (German) medium and low grade tactical codes and ciphers for the AC of S, G-2, 12th Army Group, the coordination and technical supervision of the Signal Radio Intelligence Companies and Signal Service Companies operating under units assigned to 12th Army Group, technical liaison with adjacent Army Group Signal Intelligence units and with those of higher headquarters, and the coverage of clandestine radio traffic for study by the Radio Security Service (British) and as required by the AC of S, G-2, 12th Army Group. The latter mission, being somewhat separate and distinct from the provision of signal intelligence, will not be covered in this report.

b. The mission of the Detachment may be conveniently divided into four distinct responsibilities:

- (1) To Signal Intelligence Division, Hq ETOUSA.

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by Director, NSA/ISS, CSS

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- (2) To G-2 Section, Tactical Headquarters, 12th Army Group.
- (3) To Signal Radio Intelligence and Signal Service Companies, 12th Army Group.
- (4) To flanking Army Groups (6th and 21).

c. The manner in which the mission was carried out, will be described in the sections of the report which follow.

### 3. SIGNAL INTELLIGENCE DIVISION, HEADQUARTERS ETOUSA

a. Signal Security Detachment "D" was charged with the responsibility of enforcing the general signal intelligence policies of the War Department, Hq ETOUSA, and 12th Army Group, among the Signal Radio Intelligence units of 12th Army Group.

b. In addition, the Detachment provided the higher headquarters with the raw material and finished productions of all signal radio intelligence organizations of 12th Army Group.

(1) All signal intelligence and technical data were forwarded to the Signal Intelligence Division, OCSigO, Hq ETOUSA. This commitment included transmission to that office of all technical reports published by the Intelligence Branch of the Detachment (see Appendix C for a list of technical reports published by the Detachment). These reports were also disseminated to the Mediterranean Theatre of Operations, to British signal intelligence agencies in the United Kingdom and to the War Department, Washington, D. C., through the Signal Intelligence Division, Hq ETOUSA.

(2) Radiograms and teletype messages containing current information were prepared and transmitted at least twice daily. These messages reported all data collected by the Detachment in the course of its daily operations.

(3) Captured documents, received from signal intelligence units of 12th Army Group were processed, studies published, and copies forwarded to Signal Intelligence Division, Hq ETOUSA, for permanent files.

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4. G-2 SECTION, TACTICAL HEADQUARTERS, 12TH ARMY GROUP

a. Detachment "D" was charged with the responsibility of passing to the Assistant Chief of Staff, G-2, 12th Army Group, signal intelligence procured from the analysis of enemy low grade and medium grade (THUMB, PEARL and CIRO PEARL) tactical traffic. This was accomplished in two ways.

(1) Direct telephone communication was available until 4 March 1945 when, due to the tactical situation, the Detachment operated too far in advance of Tactical Headquarters to allow utilization of metallic telephone lines. However, radio or teletype (or both) links maintained constant communication from that date onwards. The appointment on 3 February 1945 of a liaison officer from the Detachment to G-2 Section also aided in the smooth flow and interpretation of signal intelligence.

(2) All pertinent technical reports published by the Detachment were transmitted daily to G-2 Section. These reports supplemented and enlarged upon the information already passed to G-2 Section by communication means described in paragraph a(1) above.

b. A complete record of all signal intelligence, of immediate value only, transmitted to G-2 Section by telephone, radio or teletype has been maintained by the Intelligence Branch of Detachment "D", but this record is too bulky for reproduction and inclusion in this report. However, for the sake of completeness, an estimate of the quantity of timely information reported during the period under review may be derived from the following figures:

	<u>No. of Items</u>
CIRO PEARL	1422
PEARL	632
THUMB	162

c. It is not possible to evaluate the signal intelligence made available to G-2 Section, either in the form of immediately applicable information (i.e., location of Division or Army ammunition, supply and fuel dumps, command posts, etc.), or in the form of confirmation of prisoner-of-war reports, large scale movements or intentions of major enemy formations and the appearance of new battle units in a given sector. As an approximation of the use made of the data received from Detachment "D", the CIRO PEARL, PEARL and THUMB included in the daily G-2 ISUM are recorded in appendix A of this report. The G-2 ISUM was sent by teletype, operational priority, to the following headquarters:

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SHA3F Main  
6th Army Group  
21 Army Group (Main)  
8th Air Force  
First U S Army Command Headquarters  
Third U S Army Main  
Ninth U S Army Main  
Fifteenth U S Army Forward  
12th Army Group Main  
12th Army Group Tac  
Headquarters First Allied Airborne Army  
Com Z  
ASCZ  
9th Air Force Advance

d. It is of interest to note that an estimated 6,000 CIRO-PEARL messages were read during the seven-month period under discussion. Of these, 3238 messages from twenty-four different formations were published in CIRO-PEARL/SSDD reports, which were transmitted to G-2, 12th Army Group. It is of further interest that on the average either CIRO-PEARL, PEARL or THUMB material, or all three, were included in one out of every three G-2 ISUMS.

5. SIGNAL RADIO INTELLIGENCE AND SIGNAL SERVICE COMPANIES  
12TH ARMY GROUP

a. The mission of Detachment "D" in connection with the signal radio intelligence units of 12th Army Group was subdivided into three categories:

- (1) Reporting of Signal Intelligence of Immediate Value to Army and Corps G-2's

(a) All technical signal intelligence of tactical value, particularly CIRO-PEARL, was transmitted daily by the most expeditious means to the Army Signal Radio Intelligence Companies. Appendix B contains intelligence extracted from technical messages sent to the field units during a typical month. This intelligence was used in two different ways:

- (1) It was reported to Army and Corps G-2's.
- (2) It was employed as a basis for allocating intercept and direction-finding coverage priorities.

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(b) The most convenient means of transmission of technical signal intelligence to the field units was radio, teletype and courier. Two radio broadcasts were made daily, one in the morning and one in the early evening to establish coverage priorities and to assist in the preparation of technical reports for the respective G-2 Sections. Technical signal intelligence was also transmitted by the same means at any hour of the day or night when the urgency of the information so warranted

(2) Consolidation of Technical Material of all Field Units

(a) All technical data from the signal radio intelligence units of 12th Army Group were consolidated daily with those obtained by the two intercept units directly responsible to Detachment "D" and with data received from intercept units of the two flanking Army Groups (6th and 21). Items of immediate value were transmitted along with intelligence described in paragraph a preceding. In addition, all such data were published in greater detail in reports of the Intelligence Branch (see Appendix C) and dispatched to the field units.

(b) The daily publications of the Branch not only aided the field units in the normal execution of their missions, but provided the only means of maintaining technical continuity on enemy formations during the frequent moves of the field units. This was particularly true when Army and Corps fronts were radically altered, resulting in an entirely new, and frequently unfamiliar, group of enemy units facing them.

(3) Supervisory Control Over Operations of Signal Radio Intelligence Field Units

(a) Policies concerning operations emanating from higher headquarters, or those arising from within Detachment "D" from time to time, were distributed and enforced. Aid in complying with the policies was provided in the form of directives, special technical reports, and by conferences at the Detachment headquarters. Also frequent liaison visits to the field units were made by technical experts from the Intelligence Branch.

6. FLANKING ARMY GROUPS

Continuous liaison was maintained with 21 and 6th Army Group signal radio intelligence agencies both by personal visits and by radio teletype and telephone communications on a twenty-four hour basis. All technical reports published were exchanged with those two organizations.

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APPENDIX ▲

CIRO-PEARL, PEARL and THUMB Items Extracted  
From Daily G-2, 12th Army Group, ISUMS (TWX)

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APPENDIX A

ISUM NO. 36 - for pd cndg 061200B Sept 44

GIRO-PEARL - reports elements of 9 Pz Div E of METZ.

ISUM NO. 37 - for pd cndg 071200B Sept 44

PEARL - 3 FG and 245 Inf Div N of ABBEVILLE. 3 FG Div cooperating with elements believed to belong to 553 Div. Possibility that patrols 116 Pz Ren Bn were in vicinity J9936, J9416, J9733.

ISUM NO. 38 - for pd cndg 081200B Sept 44

GIRO-PEARL - CP of 2 SS Div 7 Sept moving to XORIS (K4807). Also that CP of 4 SS FGR at MONT GAUTHIER (P1382).

PEARL - reports 103 Ren making reference to FLAVIGNY (289), NANCY and CEINTRY (289).

ISUM NO. 39 - for pd cndg 091200B Sept 44

GIRO-PEARL and THUMB strongly indicate Pz LEHR Div elements in NEUFCHATEAU area (P44) occupying positions formerly held by 2 Pz Div. GIRO-PEARL 7 Sept: 2 SS Pz Div trains going E towards MONSCHAU (K9519) with instructions to expedite crossing River OVERTHE because of terrorists. 2 Bn of 3 SS FGR in contact with 1 SS Pz Div and stated location of 1 SS Pz Div to be AYE (P2784). Maj. Gen. HECKER, CG of 3 FG Div. GIRO-PEARL 8 Sept: elements 2 SS Pz Div in UEPERNICH 7.5 Km N of EUS-KIRCHEN.

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ISUM NO. 42 - for pd endg 121200B Sept 44

GIRO-PEARL - 10 Sept: elements 2 SS Pz Div bivouac area M-  
BLEVE-MIRFELD (P89). Supply msg center ROETIGEN (K9130).  
Wirtschaft Bn from 10 Sept in area HOFFELD (L39) 20 Km. E  
of STADTKYLL (L19). 105 Pz Brig in area K7630.

PEARL - 3 FG Div Ren 10 Sept mentioned ARRY (U74), CORNY (U74),  
POURNY (U84). Ref to Regt 225. 11 Sept: 3 FG Div Ren ref  
to PGR 37 of 17 SS FG Div alongside; also ref to 115 Regt.

ISUM NO. 43 - for pd endg 141200B Sept 44

GIRO-PEARL - indications of withdrawals SE by 2 SS Pz Div.  
Div CP 12 Sept at MANDERFELD (L09). Elements mentioned area  
NE of SCHOENEKEN (L07). LEIMBACH 3 Km N of ADENAU (L49),  
ENTWELLER (F30), LANGENFELD (P98).

PEARL - 12 Sept: 116 Pz Div to withdraw via LACHEN. 3 FG Div  
Battle Hq 10 Km. SE METZ 2 Km E VERNY.

ISUM NO. 45 - for pd endg 151200B Sept 44

GIRO-PEARL - 2 SS reported to Arty Regt and Flak abt at 131730  
that Army Field Dressing Station signposts from BUEDESHEIM  
(L18) to FRUEN (L07). 4 SS FGR reported at 131700 oncomy with  
4 tanks in WECKERATH (L02). First Bn will withdraw. 3 SS  
FGR reported at 131720 8 tanks MANDERFELD, Bn is withdrawing  
to KREWINKEL (L09).

THUMB - 14 Sept: 130 Pz Ren Bn at NEIPEL (Q49). 15 Sept:  
130 Ren Bn at GERLEANGEN (Q1887). Ren elements (?) 3 FG Div  
at COURCELLES-CHAussy (Q0457).

ISUM NO. 48 - for pd endg 181200L Sept 44

PEARL - from 3 FG places 553 Inf Div in MOULIN 1 Km. SW BOUXIERES  
(U84) as of 181430.

THUMB - Fair indications 106 Pz Brig in area L3650 18 Sept.

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ISUM NO. 49 - for pd endg 191200Z Sept 44

PEARL - 19 Sept: 3 PG Div Ren elements interested in area U9128-U9223-U9923-Q1025. Mention of an SS Hq at PELTRE (U85). Probably 17 SS.

THUMB - 19 Sept: 11 Pz Div between BELFORT and MULHAUSEN. Also 3 SS FGR area P98.

ISUM NO. 52 - for pd endg 221200Z Sept 44

PEARL - 21 Sept: element 116 Pz Div reported own position 1 Km W PUFFENDORF (K96); contact with CP 183 Inf Div at WALDENRATH (K86). 351 GR position from WALDENRATH to edge of forest SE of HATTERRATH (K86). 343 GR from HATTERRATH to Hill 105. 330 GR South from there to RIMBURG (U/L). CP 176 Inf Div EFFELD (K88). 15 PG supply echelon in BEBINGEN (Q41) 5 Km SW SAARBURG. Pz LEHR Div Supply Co in MANNHEIM 22 Sept.

ISUM NO. 54 - for pd endg 241200Z Sept 44

THUMB - 24 September: On 11 Pz Division line through METZ-STRASSBOURG.

ISUM NO. 56 - for pd endg 261200Z Sept 44

PEARL - 20 September: Elements of 15 Panzer Grenadier Division mentioned 1 Battalion of 2102 Panzer Regiment of 102 Panzer Brigade as left neighbor.

ISUM NO. 57 - for pd endg 271200Z Sept 44

CIRO-PEARL - 25 September: 11 Panzer Division: Parts of KGR Wolf arriving in MOYENVIC (Q1320). Pioneer Battalion Hq moving to Southern part of DIEUZE (Q22). 4 Battery of 119 Artillery Regiment is 1 Km North of HALPONT (Q12); 9 and 6 Batteries are 1 Km East of SALIVAL (?). Battalion CP (?) at MAIZIERES (Q21). Company 2, 3, 4, 5 and Hq Company arrived and set up. CP 110 Regiment at MARSAL (Q1723).

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ISUM NO. 61 - for pd andg 011200a Oct 44

PEARL and THUMB indications of northward move of 116 Panzer Division elements including artillery.

ISUM NO. 62 - for pd andg 021200a Oct 44

CIRO-PEARL - indicates the possible withdrawal of elements of 2 SS Panzer Division to a billeting area at ZERMUELLEN (L48).

ISUM NO. 73 - for pd andg 131200a Oct 44

THUMB - elements 3 Panzer Grenadier Division at F2801.

ISUM NO. 74 - for pd andg 141200a Oct 44

PEARL - 116 Div artillery fire orders mentioning COULEY (K84) and KNOFF (K84) 14 October.

ISUM NO. 76 - for pd andg 161200a Oct 44

CIRO-PEARL - 16 Panzer Regiment on 14 October asked for location of CP of 741 HEERES Panzer ABT. Possible answer gave location WUSSELEN (K84). 14 October: For the relief of the 60 Panzer Grenadier Regiment carry out an assault by means of strongest possible elements in the area FUMFERMUEHLE in direction of BARDENBERG. Bosiogod.

ISUM NO. 77 - for pd andg 171200a Oct 44

CIRO-PEARL - shows unit reported ISUM 76, 741 HEERES Panzer Abteilung to be 741 Panzer Jaeger Abteilung.

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ISUM NO. 79 - for pd endg 191200Z Oct 44

THUMB - indicates elements of 15 FG Div area BATTWEILER (08075).  
Possible identification by PEARL of 2 Bn 68 GHq arty Regt at  
K84.

ISUM NO. 80 - for pd endg 201200Z Oct 44

CIRO-PEARL - Transport columns of 2 SS Panzer Div were loading  
in BAYEN (L69) on 16 October.

ISUM NO. 85 - for pd endg 251200Z Oct 44

CIRO-PEARL - Indications of movement by 116 Panzer Division.

THUMB - suggest direction of DUSSELDORF.

ISUM NO. 91 - for pd endg 301200Z Oct 44

THUMB - indicates elements of Pz LEHR Div still in general area  
PFORZHEIM (R73).

ISUM NO. 104 - for pd endg 131200Z Nov 44

CIRO-PEARL - 6 November: Order to II/104 Panzer Grenadier Regi-  
ment stated every company to designate NCO or IM who is suit-  
able as GRUENFUHRER for tactical course to be given at  
FIELD RIFL BN in RUENKE (A33) commencing 8 November.

PEARL - From 21 Panzer Division, 13 November, states part of  
118 Infantry Regiment of 36 Infantry Division moving into  
position. 38 SS Panzer Grenadier Regiment of 17 SS Panzer  
Grenadier Division on right of 192 Panzer Grenadier Regiment  
of 21 Panzer Division.

THUMB - on Reconnaissance elements, 21 Panzer Division area  
Q14. Latest.

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ISUM NO. 105 - for pd endg 141200z Nov 44

CIRO-PEARL - 12 Nov: Strength report from I Battalion, II Battalion and Staff of Panzer Artillery Regiment of 116 Panzer Division. Figures represent unfit for service, battle strength and total strength, I Battalion 140, 430, 594. II Battalion 121, 355, 492, Staff 2, 11, 13.

ISUM NO. 107 - for pd endg 161200z Nov 44

CIRO-PEARL - 14 November: Elements of 11 Panzer Division mentioned withdrawal by right flank. Division G-4 stated ration company changing position immediately to VILLEVEUVE (U/L) 500 meters South of SALLUNION (Q53).

ISUM NO. 114 - for pd endg 231800z Nov 44

PEARL - 23 Nov: Rem elements 21 Pz Div active from area West of MERZIG (Q29). Northward, an element stating right neighbor, 212 Inf Div. Mention of GRIMMINGEN, CO II/192 Pz Gren Regt, and HEIDWALD (Q1594). Reports requested on enemy activity along West bank of river.

ISUM NO. 117 - for pd endg 271800z Nov 44

CIRO-PEARL - 26 Nov: 10 SS Panzer Division CI is OTZENRATH (F1075), ammunition distribution point area GUSTROFF (F1775)-NEUENHAUSEN (F1975), Southwest of GREVENBROICH (F2077).

ISUM NO. 125 - for pd endg 051800z Dec 44

CIRO-PEARL - 3 Dec supply elms of Pz LEHR at ERWEILER (R06). Route of march of Ingr Bn REICHSHOFEN (Q93)-WOERTH (R03)-MORSBRONN (R03). Mining at MORSBRONN. Possibly Rem Bn CI at LAIBACH (Q93).

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ISUM NO. 128 - for pd endg 081800Z Dec 44

CIRO-PEARL - 6 Dec unidentified Arty Brig concentrated ARNOLDS-WEILLER (F1249) to prevent breakthrough across highway or bridge at BIRKENS DORF (F1047).

ISUM NO. 132 - for pd ending 121800Z Dec 44

THUMB - Probable Headquarters 10 SS Panzer Division area (F1477); other elements COLOGNE and MUNCHEN-GLADBACH.

ISUM NO. 135 - for pd ending 151800Z Dec 44

CIRO-PEARL - 13 Dec: 10 SS Pz Div preparing for move. 8 Cos of 10 SS Pz Regt to move within 2-3 days to RHEINDALEN (F0484) on order of regtl CO.

PEARL - 15 Dec: Indications from 21 Pz Ren Bn that it is operating in area of 481 Inf Regt of 256 Inf Div. Comment: 481 Inf Regt last reported area Q9924.

THUMB - 14 Dec: Ren elms 3 Pz Gr Div area F1336. Hq 10 SS Pz Div still area F1477 by THUMB up to 131800Z.

ISUM NO. 136 - for pd endg 171800Z Dec 44

CIRO-PEARL - Billeting area 10 SS Ren Bn on 15 Dec TURNICH (F3052), BALKHAUSEN (F3051), BRUEGGEN (F3250).

PEARL - 17 Dec: 1z LEHR Ren Bn in area HOSINGEN (185) at 1930 hrs. PEARL 17 Dec morning 116 Ren mentioned FISHBACH (186), RODER (186), URSIELT (176).

ISUM NO. 137 - for pd endg 181800Z Dec 44

CIRO-PEARL - 15 Dec 10 SS Pz Pioneer Bn arrived BLATZHEIM (F2352). 10 SS Pz Regt on same date still awaiting orders from ESSEN transport command to move from ELTEN (F9264) to RHEINDALEN (F0484). Motor fuel distribution at HOLZ (F1077). Indications on 17 Dec of Div intention to move southward. Signal personality mentioned in TURNICH (F35) on 17 Dec.

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FEARL - 18 Dec 116 Ren Bn mentioned SASSEL (176) at 1204 hours  
TAVIGNY (166) at 1620 hours. 15 Dec 11 Fz olms drawing supplies  
in ZWEIBRUCKEN. 18 Dec KG LEHMANN of 17 SS Iz Gr in contact  
with 11 Iz Gr but out of contact with right neighbor.

THUMB - Unidentified newcomer area L3814 - L1129 passed large  
volume of traffic 16, 17, 18 Dec but declined considerably  
afternoon 18 Dec.

ISUM NO. 138 - for pd endg 191800Z Dec 44

CIRO-FEARL - 10 SS Arty Regt on 18 Dec 1 Km northwest TRUM but  
Div headquarters appears to be still ELSDORF (F16). CIRO-FEARL  
of 16 Dec stated this div to be committed to south. Div Re-  
pair unit in WOLFSITTARD (F0587). On 17 Dec approach march  
of 902 Iz Gr Regt given as in vehicles to KARLSHAUSEN (19259)  
then on foot to WALDHAUSEN (18455). On 17 Dec CIRO-FEARL  
from von MANTEUFFEL stated advance across CLERF (176) consider-  
ed of prime importance. Unident unit mentioned 3 Ircht Regt  
in area HOCHSCHIED (18151) on 17 Dec.

FEARL - 17 SS Iz Gr Ren Bn in RUBENHEIM (26164).

THUMB - Continued activity north of TRIER as yet unidentified.  
Unident not active in area SAARBURG (L11).

ISUM NO. 139 - for pd endg 201800Z Dec 44

CIRO-FEARL - 17 Dec elm Fz LEHR HOLZTHUM (P85) forced to abandon  
two tks because of lack ammo and fuel.

THUMB - places not probably supply elements of 11 Iz Div in  
area north of TRIER 20 December. 10 SS Div Hq THUMB on line  
K7267 on 20 Dec.

ISUM NO. 140 - for pd endg 211800Z Dec 44

CIRO-FEARL - Indications that 10 SS will be committed shortly.  
19 December Fz Regt stated to be all loaded and departing in  
evening minus 8 Co Ren Bn, 1 Co Engr, 1. and 2 Btry Ai, 13 Co  
21 Fz Gr Regt, 3 Bn 22 Fz Gr Regt. Vehicles being received by  
div from GHQ MT park BONN. Mention of WISSERHEIM F24 as lo-  
cation of an unident div olm.

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PEARL - Pz LEHR rear bn mentions 21 Dec town in area I36-I46-I45-I55.

ISUM NO. 142 - for pd ending 231800Z Dec 44

GIRO-PEARL - 20 December: Rear elements 10 SS billeted area Kirchoim (F32), experiencing considerable difficulty with vehicles and fuel. Elements 116 Panzer mentioned AWO 447. Possibly of 47 Panzer Korps. 21 December: 10 SS supply center for division at F251329. One unidentified division elements area F0502 by THUMB. 22 December: Pz LEHR spearheads ordered by MANTUEFFEL to make greatest haste to ST HUBERT (I36). Same elements passed thru GERIMONT (I45). Unidentified unit asked that Corps Reconnaissance Battalion be withdrawn because of heavy losses.

PEARL - 23 December: Elements 2 SS urgently requesting fuel. frequent repeats of request indicating no response.

ISUM NO. 144 - for pd endg 251800Z Dec 44

GIRO-PEARL - 23 December: 116 Panzer Division intended on night 23-24 December to withdraw from old location and move northward to attack HOTTON (I38). Forces to be used as follows: 16 Panzer Regiment, 60 Panzer Grenadier Regiment, 156 Panzer Grenadier Regiment less one Battalion, I Battalion, 146 Panzer Artillery Regiment, II Battalion 146 less one battery, and 3 Company, 675 Engineer Battalion. Route of march L. ROCHE (I48)-SAMBREE (I58)-DOCHAMIS (I48)-BEFFE (I48). Division forward of SAMBREE. Following units left in old positions as protecting forces: One Battalion, 156 Panzer Grenadier Regiment, one Battalion 1130 Grenadier Regiment of 560 Division, two companies self-propelled guns, one heavy mortar battery.

PEARL - 5 Parachute Division elements defending south approach to BASTOGNE, has no reserves, no bazooka ammunition, no anti-tank ammunition, no contact with left neighbor, is withdrawing and requesting support from artillery and bicycle platoon.

THUMB - Div HQ Panzer LEHR 231400Z at ST. HUBERT.

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ISUM NO. 145 - for pd endg 261800Z Dec 44

CIRO-PEARL - 24 December: Panzer LEHR ordered an unidentified element to take over defense of line MOIRCY-REMAILGNE (presumably from its Engineer Battalion which was in position). Division G-4 at GIVROLLE (146). Ammunition urgently needed 1 Km South of road junction at ROCHEFORT (127). Advance PW cage at ROCHEFORT. Possibly 901 Panzer Grenadier Regiment expected at JEMELLE (127). Elements of division ordered to make preparation for use of flame-throwers. CG of division most anxious to advance to ERLAY (117). CIRO-PEARL on 116 suggests forces left in old positions were East of HOTTON (138) as protection force between BEFFE (148) and LA ROCHE (148).

PEARL - Rifle Brigade 11 with 5 Parachute Division 25 December.

ISUM NO. 146 - for pd endg 271800Z Dec 44

PEARL - 26 December: 116 Panzer Division Reconnaissance Battalion mentioned towns BOGINETTE (12181), HAGIMONT (12679), HULLIN (12381). First Volks Artillery Corps at LA VACHERIE (136) on 27 December.

THUMB - Elements Panzer LEHR area 12067 on 26 December.

ISUM NO. 147 - for pd endg 281800Z Dec 44

CIRO-PEARL - 10 SS Panzer Division reported on radio silence from 26 December.

ISUM NO. 149 - for pd endg 301800Z Dec 44

CIRO-PEARL - 28 December: Supply elements of Panzer LEHR in FISCHBACH and GRINHAUSEN (18065). However division G-4 still in HERWIGVAL (14867).

PEARL - 301455Z: Reconnaissance elements of 9 SS mentioned SAZDOT (14789). At 2035Z elements of 2 SS Panzer Division stated that unidentified regiment G at MARCOURT (14481).

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ISUM NO. 151 - for pd endg 011800Z Jan 45

THUMB - 011420Z slight indications supply olts 10 SS Iz Div area F5570.

FEARL - 011650Z: Reconnaissance Bn of 21 Fz mentioned DIETRICHINGEN (Q7665) and at 1900Z mentioned NEULTHEIM (Q6862).  
311342Z: Recon Bn of 2 SS assembling area WIEBRINNADRIENBERGSMEN-IL (I57).

ISUM NO. 153 - for pd endg 031800Z Jan 45

CIRO-FEARL - 2 January, probably 2 SS IGR: Trench strength:  
I Bn: 7 off., 25 NCO's, 156 EM; II Bn: 3 off., 15 NCO's, 7 EM; Ii (Kp) 1 off, 8 NCO's, 75 EM.

ISUM NO. 157 - for pd endg 071200Z Jan 45

THUMB - 071600Z: Elements Panzer LEHR area I8264. Elements 3 Panzer Grenadier Division F7563, but Reconnaissance Battalion still mentions localities in I45 area. Elements 116 Panzer area F9575. Thumb indications suggest slight eastward tendency within salient.

ISUM NO. 158 - for pd endg 081200Z Jan 45

CIRO-FEARL - 6 January: Elements probably Signal Battalion of 10 SS, last heard 18 December area F3052, stated "Loading will take place this evening." No further details.

THUMB - 9 January: Elements Panzer LEHR area RITTERSDORF (L1156).

ISUM NO. 159 - for pd endg 091200Z Jan 45

CIRO-FEARL - 9 January: Elements of 116 possibly artillery directed to REMMERSHEIM (L0678) with all Diesol vehicles.

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ISUM NO. 160 - for pd endg 111200Z Jan 45

CIRO-PEARL - Panzer LEHR, 8 January: Supply elements area MUNS-  
HAUSEN (I7860). Division delayed in movement because of heavy  
repairs necessary to vehicles. Diesel vehicles to be re-  
tained by division for "one long trip". Strict radio silence  
ordered from 8 January.

PEARL - 3 Panzer Grenadier 10 January: Reconnaissance Battalion  
stated withdrawal to commence at 1800 hours. 634 GHQ Artillery  
Battalion 10 January LA ROCHE area.

THUMB - Elements Panzer LEHR 11 January I7980.

ISUM NO. 161 - for pd endg 121200Z Jan 45

CIRO-PEARL - 8 January: Panzer LEHR ordered only the most  
necessary supplies to be left west of OURTHE River. 10 January:  
LEHR Division G-2 at STEINBACH (I6973).

PEARL - 12 January: 103 Panzer Reconnaissance Battalion of 3  
Panzer Grenadier Division mentioned VISSOULE (I6270).

ISUM NO. 164 - for pd endg 151200Z Jan 45

CIRO-PEARL - 12 January: 10 SS 12 Division report center at  
BAUMHOLDER (L71). 13 January: Unidentified unit of Panzer  
LEHR Division, location near OBERUTTFELD (I9472), reported  
no billets to be found in area TRUM-BITBURG-KYLBURG-BUDESHEIM,  
therefore permission requested to move east of this area. An  
unidentified battalion of Panzer LEHR had Command lost at  
MONT (I5974) while elements of battalion reported on state  
of road HOUFFALIZE-VISSOULE-TAVIGNY-CETTURU-STEINBACH-LIMERLE  
as being passable. 15 January: Command lost of 766 Volks  
Artillerie Corps BRACHTENBACH (I6959). 15 January: Unidenti-  
fied element stated one battery of 11 Assault-gun Brigade to  
be attached to 295 Grenadier Regiment (18 Volks Grenadier  
Division).

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ISUM NO. 166 - for pd andg 171200Z Jan 45

GIRO-PEARL - 16 January: 1, 4 and 5 Batteries of unidentified unit in woods 600 meters from east exit of BOXHORN (I7566); 3 Battery in woods 1 kilometer south of TROINE (I6764); 2 Battery vicinity CRENDAL (I6863); all fuel of 4 and 5 Battery to be given to 3 Battery to permit withdrawal.

PEARL - 16 January: Elements of 766 Volks Artillerie Korps assembly area at CLERF (F7763); 103 Reconnaissance Headquarters one kilometer north of HACHVILLE (I7169); 15 January: Battery of Parachute Assault-gun Brigade to work with Regiment 295 of 18 Volks Grenadier Division.

ISUM NO. 167 - for pd andg 181200Z Jan 45

GIRO-PEARL - 15 January: Unidentified supply company of Panzer LEHR Division to billeting area at NIEDEROEFFLINGEN (L3962), ten kilometers north of WITTLICH (L3954).

PEARL - 16 January: Command Post of Artillery Regiment 3 (3 Panzer Grenadier Division) at LINERAIN (I6672). Command Post of 103 Panzer Reconnaissance Battalion one kilometer north of HELZINGEN (F7069). Road NEFLINGEN (I7570)-WILWERDINGEN (I7772)-WEISWALDACH (F8172)-OUREN (F8472)-LUETZKAMEN (F8973) or SEVENIG (F8771) reported passable. LEHR Reconnaissance element are NOVILLE (I5954)-STERLIGNY (I6777).

ISUM NO. 168 - for pd andg 191200Z Jan 45

GIRO-PEARL - 18 January: Command Post of 130 Panzer Pioneer Battalion (Panzer LEHR Division) at IHRESMUEHLE (I7166) 3 kilometers southwest of ASSELBORN. 17 January: Panzer LEHR: Command Post of Panzer Grenadier Regiment 901 at WANDEBOUCY (I6468); Command Post of Panzer Grenadier Regiment 902 TAVIGNY (I6469); Command Post Army Pioneer Battalion 207 at MAULUS-MUEHLE (F7767); 130 Tank Destroyer Battalion reports tank destroyers cannot be brought into action because of road blocks, lack of fuel and spare parts; rations to be issued 20 January at KARLSHAUSEN (I9159). Unidentified element of 766 Volks Artillerie Korps to pick up ammunition at SINSWELT (I9853). 16 January: Unidentified element (Command Post at ALLERBORN I6661) of 1 SS Panzer Division with code name ORGANIST has been almost completely annihilated. The 1c, Panzer LEHR Division at WELER (I85) on 17 January.

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PEARL - 17 January: Reconnaissance vehicles of 21 Panzer Division wait for ammunition at NIEDERROEDERN (R2334).

ISUM NO. 169 - for pd endg 201200A Jan 45

CIRO-PEARL - 19 January: Unidentified unit reports that on 20 January it will move Command Post to WEINSHEIM (L0982); same unit mentions BLANKENHEIM (F2405). Panzer LEHR's new Division Command Post from night of 19th at DRINKLINGEN (F7872); request for reconnaissance of area HOLLER (F7970)-BREIDFELD (F8170)-WEISWAMMACH (F8172)-HUBERTUSMUEHLE (F8172). Unnamed Corps Headquarters at STOLZENBURG (F8753).

ISUM NO. 170 - for pd endg 211200A Jan 45

CIRO-PEARL - 19 January: Pz LEHR Division ordered all mobile supply columns to cross over border into GERMANY. After 19 January, Division C1 to be at CINQFONTAINE (F7568), division elements in area DRINKLINGEN (F7872) and other division elements proceeding to HOSINGEN (F8259) via ASSELBORN (F7367)-WILBERDINGEN (F7772)-MARBURG (F8162). Supply points at WEISWAMMACH (F8172) and NEU HEILENBACH (L1568). Unidentified Corps HQ in STALZENBURG (F8753). 21 January: unidentified elements start fuel train for XIII Corps at LISSENDORF (L1991); fuel urgently needed.

ISUM NO. 171 - for pd endg 221200A Jan 45

CIRO-PEARL - 20 January: Panzer LEHR: regiment C1 at HOSINGEN (F85) probably 902 Panzer Grenadier Regiment. Good indications Panzer Regiment 130 in area BICKENDORF (L1160), tank repair company in BITBURG (L1353), ammunition dump 1 Km North of BEILER (F8275); supply columns area ARZFELD (F9566). Division headquarters to relay requests for fuel to Army and Army Group as Corps failed to deliver. Fuel situation critical. 21 January: XIII Corps drawing fuel at SCHMIDHEIM (F1603) and LISSENDORF (L1991).

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ISUM NO. 172 - for pd endg 231200Z Jan 45

CIRO-PEARL - 21 January: Panzer LEHR Division CI BREITFELD (F8070). 22 January: Reconnaissance Battalion CI at RODER (F8163).

ISUM NO. 173 - for pd endg 241200Z Jan 45

CIRO-PEARL - 23 January: Panzer LEHR Division; CI of 902 Panzer Grenadier Regiment and 130 Engineer Battalion at HOCHS-CHEIDERDICKT (F8254). At 1050Z forward line given as south of MERSCHIED (F8352)-north of NACHTMANNERSCHIED (F8451) with violent tank-infantry battle in progress. Unidentified division element stated troops had no billets and had been without rations for four days.

ISUM NO. 174 - for pd endg 251200Z Jan 45

CIRO-PEARL - 22 January: Kampfgruppe FEILER (elements of 150 Panzer Brigade) directly subordinated to Panzer Army 6, requested 60 GEM fuel for movement. These movements apparently two separate operations. Unidentified elements possibly Corps HQ ordered all divisions to initiate radio silence upon crossing OUR River.

PEARL - 22 January: Elements 21 Panzer Reconnaissance Battalion in OFFENDORF (R1312). Billets for supply elements in area LAUTERBURG (R3242).

ISUM NO. 179 - for pd endg 301200Z Jan 45

CIRO-PEARL - 27 January: III Battalion, 146 Panzer Artillery Regiment in area IVERSHEIM (F3220) gave battle strength as 15 officers, 47 non-commissioned officers, 198 enlisted men, 6 x 15 centimeter howitzers, 3 x 2 centimeter flak.

PEARL - 29 January: Elements 2 SS Panzer Division mentioned FELD (L2582) and STEINMEHLEN (L0279). Supply elements of 21 Panzer Division moving on 31 January to BILLIGHEIM (R2760). Elements of 146 Panzer Artillery Regiment (probably II Battalion) moving to area KEYENBERG - ANLO (F07) on 26 January.

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THUMB - 28 January: 130 Panzer Regiment area ERDORF (L1756),  
130 Engineer Battalion IRUM (L0588).

ISUM NO. 181 - for pd andg 011200A Feb 45

CIRO-PEARL - 300910 January: Command Post Panzer LEHR Division  
at BICKENDORF (L1160) after 30 January. (Comment: Undated  
map captured at FUTSCHEID (I8552) shows withdrawal route of  
Panzer LEHR from EISENBACH (I8657) to assembly area at BLARS-  
DORF (L0857).

ISUM NO. 182 - for pd andg 021200A Feb 45

THUMB - 31 January: Elements 3 Panzer Grenadier Division area  
EUSKIRCHEN (F32).

ISUM NO. 186 - for pd andg 061200A Feb 45

CIRO-PEARL - 3 February: 901 Panzer Grenadier Regiment (Panzer  
LEHR Division) moving to area BLANKENHEIM (F2304). By division  
order, troops dispatched on foot immediately; reconnaissance  
cars and heavy weapons to await fuel issue. 4 February:  
Supply elements of 901 Panzer Grenadier Regiment active in  
RUEBER (L7587). 5 February: 901 Panzer Grenadier Regiment  
receiving equipment from ordnance depot WÄHN (F5451).

ISUM NO. 191 - for pd andg 111200A Feb 45

THUMB - 9 February: Unidentified element Panzer LEHR IN area  
VOLKHOVEN (F4169).

ISUM NO. 197 - for pd andg 171200A Feb 45.

THUMB - 15 February: Patrols of 103 Panzer Reconnaissance  
Battalion reporting in area F01-F11.

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ISUM NO. 208 - for pd endg 281200Z Feb 45

FEARL - 26 February: 766 VAK mentioned DUEREN (F41), GOLZHEIM (F1849) and BLATZHEIM (F2250).

ISUM NO. 209 - for pd endg 011200Z Mar 45

CIRO - FEARL: On 27 February, 9 Panzer Division I Battalion Command Post at MÜNSTEDTEN (F3265); I Battalion of Panzer Grenadier Regiment 11 Command Post at ZIEVERICH (F2161); ammunition dump in copse northeast of MINGENICH (F3865)-NUESSENBERG (F3965) road, 8 kilometers northwest of KOELN, with fuel supply point 1 kilometer from ammunition dump. All battle elements of unidentified unit of 9 Panzer to go to HOLTROP (F2365). On 26 February, Command Post of 10 Panzer Grenadier Regiment at west edge of NIEDEREMBT (F1663). On 27 February, Panzer Artillery Regiment 146 of 116 Panzer Division mentions probable Allied airborne attack and on 28 February mentions more of repair action to GRUITEN (F4993) at 1900 hours.

FEARL: On 28 February, bridges at AHE (F2459) and THORR (F2260) each held by a company of Regiment 959 of 363 Infantry Division. Reconnaissance elements of 116 Panzer Division at DAMM (F1884) indicates possible withdrawal movement.

ISUM NO. 214 - for pd endg 061200Z Mar 45

THUMB - On 5 March fair indications that 341 Assault Gun Brigade in area southwest of BONN.

ISUM NO. 215 - for pd endg 071200Z Mar 45

THUMB - 6 March: 11 Panzer Division in HAN area (F4888); 33 Artillery Regiment of 15 Panzer Grenadier Division in area ORSOY (A2525).

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ISUM NO. 217 - for pd endg 091200Z Mar 45

THUMB - 8 March: Panzer LEHR elements in vicinity HONNEF (F6427).

PEARL - 9 March: Element of 103 Reconnaissance Battalion of 3 Panzer Grenadier Division reported position vicinity BAYEN-THAL (F4657).

ISUM NO. 219 - for pd endg 111200Z Mar 45

PEARL - On 10 and 11 March, Panzer LEHR Reconnaissance elements in area HONNEF (F6941) and OBERLEIS (F6734). 3 Panzer Grenadier Division mentioned a barracks 2 kilometers southeast of FOLL (F4757).

ISUM NO. 220 - for pd endg 121200Z Mar 45

PEARL - 341 Assault Gun Brigade in area HELFERSKIRCHEN (G0512) and MONTAUN (G0704) on 12 March.

ISUM NO. 221 - for pd endg 131200Z Mar 45

PEARL - 13 March: 3 Panzer Grenadier Division Reconnaissance Battalion in STAMMHEIM (F4765); element of 766 Volks Artillery Korps reports tentative plan to begin operations against STUERZELBERG (F3582) if "enemy" continues to concentrate there.

ISUM NO. 225 - for pd endg 171200Z Mar 45

PEARL - On 12 March, Command Post of Artillery Regiment of 116 Panzer Division at HALLE (A0977).

THUMB - On 16 March, indications that part of Panzer LEHR Division still east of DUESSELDORF (F3992).

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ISUM NO. 226 - for pd endg 181200a Mar 45

THUMB - 17 March: elements of 341 Assault Gun Brigade in areas F82 and F84. Unidentified unit, fair indication on element of 8 Parachute Division, in area SCHEIDENHOHE (F6453) and SIEGBURG (F6043).

ISUM NO. 232 - for pd endg 241200 Mar 45

FEARL - On 23-24 March 7 Parachute Artillery Regiment active in area A05, reported allied crossings. On 24 March, an unidentified unit in area WESEL reports about 2000 allied airborne troops in area HEMINKELN and north at SCHWARZE HEIDE. Reconnaissance elements of 3 Panzer Grenadier Division were in BUELLESBACH (F7235) on 23 March. 34 Observation Battalion reported bridge at ALLNER (F6942) destroyed on 22-23 March.

THUMB - On 23 March elements of 3 Panzer Grenadier Division in area WÄLLERFELD (F8068) and BLANKENBURG (F7420). Unidentified elements of Panzer LEHR Division in area BERG GLADBACH (F6367) and HERZKAMP (A6062); these elements have been in the general area for some time. An artillery unit, good indication 388 Volks Artillery Corps, area F73, F83.

ISUM NO. 236 - for pd endg 291200a Mar 45

CIRO-FEARL - Repair elements II Battalion, 146 Panzer Artillery Regiment of 116 Panzer Division in woods 5 kilometers north-east OBERADEN (A9034) 29 March.

FEARL - 28 March: Command lost 130 Panzer Reconnaissance Battalion of "Battle Group Panzer LEHR" in area F9645; also evidence that Panzer LEHR moving east of former location. 2 Panzer Division: Command lost at HERBSTEIN (H1419) 27 March.

ISUM NO. 238 - for pd endg 311200a Mar 45

CIRO-FEARL - On 31 March, 116 Panzer Division Ib at LEVERINGHAUSEN (A73).

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APPENDIX B

Signal Intelligence Extracted from Technical  
Radiograms Sent to the Signal Radio Intelli-  
gence Companies of First, Third and Ninth  
U. S. Armies.

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APPENDIX B

011910A Jan 45

CIRO-PEARL - 1 SS Pz Div on 30/12/44 ref to capture of LATAN-  
NERIE (P5750) and arrival of anti-tank unit. Another mes-  
sage addressed to Regts 1 and 2, Remer (C.O. Fuehrer's Es-  
cort Brigade) and Poetschke (C.O. I/1 SS Pz Regt) stated  
they were attacking SIBRET (P45), and that 3 PG Div was at  
VILLEROU (P55). On 1 Jan 5 Para Div mentioned that Regt 14  
was new right neighbor and contact point was at 457.

030815A Jan 45

CIRO-PEARL - 2 Jan: Oberfuehrer Mohnke confirmed as C.O. 1  
SS Pz Div; two companies of Pz Jaeger Bn to withdraw from  
DONKHOLZ (P65); ref to I/2 SS PGR being surrounded; mention  
of "enemy" disposition in front of VILLEPS (P5750) and no  
contact with heavy weapons unit.

PEARL - 2 Jan: 21 Pz Ren Bn mentioned BITSCH (Q75); I Volks  
Arty Korps ref to CHAMPLON (P47).

031850A Jan 45

PEARL and THUMB identifications of 12 SS Pz Div Arty in MONSCHAU  
area confirmed by capture of PW's from 12 SS Pz Div on 3  
Jan.

041930A Jan 45

CIRO-PEARL - 2 Jan: unidentified unit mentioned LORCY (P26);  
a Supply Company and a Repair Company to move to area CLERF;  
message to a Pz Regt stated detail to go to NITTENHEIM (L  
1358) to pick up new Mark IV tank; supply unit to be quar-  
tered at CETTERU (P6471); a PW cage located at ORTHEUVILLE  
(P46).

PEARL - 3 PG Div Ren on 4 Jan mentioned FLAMIZOULLE (P46) and  
FRENET (P46).

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051930Z Jan 45

CIRO-PEARL - 3 Jan: 1 SS Pz Div mentioned that 167 Volks Gren Div reported point of contact at northern edge of LUTREBOIS (P5754); also advanced main dressing station at ESSELBORN (P7564).

060815Z Jan 45

CIRO-PEARL - 2 Jan: CP of 130 Ren Bn of Pz LEHR Div at LORCY (P26). 4 Jan: unidentified formation mentioned rear fuel supply area at ALTERKUELZ (L85); first medic company in DRAUFELD (F75).

PEARL - 5 Jan: 3 PG Ren active in area FLAMIZOULLE (P4961), mentioned that LIVAL (P45) and HUBERMONT (P45) were "enemy" occupied.

061515Z Jan 45

CIRO-PEARL - 5 Jan: 1 SS Pz Div elements mentioned HARLINGE (P6049); report "enemy" tanks firing on supply road W of WALLIER (C.O. 1 SS Pz Jaeger Bn); distribution point for medical supply at BEILER (P8275); contact established with right neighbor.

061900Z Jan 45

PEARL - 12 Arty Regt of 12 Volks Gren Div mentioned FRAITURE (P5886).

070900Z Jan 45

CIRO-PEARL - 1 SS Pz Div reported on 5 Jan contact not yet established with 167 Inf Div and that W edge of VILLERS LA BONNE Eau (P5750) firmly under Allied control.

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071930A Jan 45

PEARL - 7 Jan: 3 PG Div mentioned tactical situation in vicinity FLAMIERGE (P46).

THUMB - Element of 116 Pz Div on 6 Jan in area P4373; on 7 Jan element of Pz LEHR Div in area P8264.

080830A Jan 45

CIRO-PEARL - 6 Jan: 1 SS Pz Div to one of regts gave account of front at LUTREBOIS, VILLERS LA BONNE EAU and ISCHPELT-DONKHOLZ (P65). On 7 Jan supply element of 12 SS Pz Div addressed one message to "Korps Pioneer Fuehrer" of I SS Pz Korps; most of messages dealt with routine supply and administration; Div main dressing station at TROTTE (P6765); CP of unidentified element, possibly Engr Bn, at TRESFONTAINE (unlocated).

082000A Jan 45

CIRO-PEARL .. On 6 and 7 Jan Pz LEHR Div elements give numerous fuel and supply reports; mention ULFLINGEN (P77) and LAVACHERIE. Signal elements of 10 SS Pz Div referred to a move.

PEARL - 3 PG Rcn on 8 Jan referred to MENIL, TRONLE and FLAMIERGE (all W of BASTOGNE).

090800A Jan 45

PEARL .. Rcn elements of 3 PG Div active in area FLAMIERGE on 8 Jan; MILLMONT (P4659) reported "enemy" occupied.

091830A Jan 45

PEARL - 3 PG Div Rcn on 9 Jan mentioned MENIL, FLAMIZOULE and other localities near FLAMIERGE. Unidentified unit mentioned "enemy" counterattack on LAHL (P74).

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THUMB - Supply element of Pz LEHR Div located vicinity RITTERS-DORF (L1156); unidentified unit area F6406; element of 12 SS Pz Div located area P6354, W of BEPLE.

1008004 Jan 45

PEARL - 9 Jan: 1 SS Pz Div elements mentioned LUTREBOIS (P55), VILLERS LA BONNE EAU (P5750) and FERM DE FLAMAND (unlocated). Same day, Rcn elements of 3 PG Div mentioned places in area from TILLET (P4259) to FLAMIZOULE (P4961).  
8 Jan: 116 Pz Div Rcn active area GENES (P3878), DOCHAMPS (P4983) and GUT ST JEAN (P5481).

1018404 Jan 45

GIRO-PEARL - 6 Jan: Pz LEHR Div ordered antitank gun to LAVACHERIE (P46). 9 Jan: 146 Arty Regt of 116 Pz Div mentioned heavy field howitzer to be obtained at ROMMERSHEIM (L07).

PEARL - 10 Jan: 3 PG Div Rcn mentioned FLAMIERGE and FLAMIZOULE.

1108154 Jan 45

PEARL - 3 PG Div Rcn on 10 Jan ordered to establish communications with 1 Bn of REMER Brigade. I Volks Arty Korps on same day mentioned fight for L. ROCHE (P47) undecided.

111815 Jan 45

GIRO-PEARL - 9 Jan: 116 Pz Div mentioned ROMMERSHEIM (L07) as destination for Diesel vehicles, and a light field howitzer was ready at ULFLINGEN (P7671).

PEARL - 11 Jan: 3 PG Div Rcn mentioned FRENET. Same day 9 SS Pz Div mentioned our attack S from OTTRE (P68).

THUMB - 11 Jan; element of Pz LEHR Div in area ESPELER (F7980). 030

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120830Z Jan 45

GIRO-PEARL - Communications of Pz LEHR Div on 8 Jan indicate withdrawal from area towards East; BAYERLEIN is still Div C.O.; Div Ia at castle at LAVATHERIE (P4063); msg from Div Ia ordered only necessary supply to be left W of river OURTHE; Div Signal Officer ordered strictest curtailment of radio transmission effective immediately; mentioned army ammo dump at STEIN, 5 Km. SW of MOCHAMPS (P3369).

121850Z Jan 45

PEARL - 12 Jan: unidentified unit mentioned firing on LA-ROCHE (P47) and pressure on other points in area. 9 SS Pz Div Rcn mentioned BAULAIN (P67) and LANGLIER (P68). 3 Pz Div Rcn mentioned neighbor at HOFFELT (P76) and own position at VISSOULE (P67). Unidentified SS unit mentioned BELAIN (P66), FISEROTTE and TRAMBOISE (P68).

130810Z Jan 45

GIRO-PEARL - 10 Jan: Pz LEHR Div reported its CP at GENS (P4569) from 11 Jan; Ordnance Officer to report to Div Ia via Korps in STEINBACH (P6973).

THUMB - Elements of Pz LEHR Div on 12 Jan located in area GRAND HALLEUX (P7093) and AFFLER (P8559).

131900Z Jan 45

PEARL - Volks Arty Korps 766 on 13 Jan referred to location of battery 4 Km from ASSELBORN (P76).

THUMB - Possible elements of Pz LEHR Div located in areas P7772, 8369, 7964 and 8069.

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140900A Jan 45

CIRO-PEARL - 10 Jan: Messages of 12 SS Pz Div indicated withdrawal from BULGE of Div elements, 25 SS PGR and Engr Bn; message to Regt 26 mentioned immediate fuel pick-up at BLANKENHEIM (P20); mentioned pick-up of radio equipment in HARDIGNY (P66); 1b CP from 9 Jan at GELIG (P7177); CP of 26 Regt and of Engr Bn at DEIFELD. 12 Jan: tank Regt 16 of 116 Pz Div referred to rear points such as OBERBETTINGEN (L2088) and NIEDER MENDIG (L6797) for reconditioning of tanks.

141815A Jan 45

PEARL - 14 Jan: 3 PG Div mentioned reconnoitering MONT LE BAIN (P6478); stated CP of Regt 1128 (560 Inf Div) at NE exit DINEZ (P6076), line goes W to the N exit of WIBRIN (P5676), N of NADRIN (P5375); position of Ren element in woods near SOMMERAIN (P6375); position of Regt 29 at TAVERNAUX (P6173); CHERAIN (P6677) and BACLAIR (P6679) "enemy" occupied.

151900A Jan 45

CIRO-PEARL - Pz LEHR Div on 13 Jan refers to unidentified Bn CP at MONT (P57); reported road HOUFFALIZE-VISSOULE (P6270)-TAVIGNY (P6469)-CETTERU (P6471)-STEINBACH (P6973)-LIMERSCHER (P7075) traversible, but road between MONT and HOUFFALIZE was under light arty fire; mentioned billets at FRUEM (L07), BITBURG (L15), BUEDESHEIM (L18) and KYLLBERG (L15); MONT LERAN and SOMMERAIN reported covered by SS troops; also requested move E from OBERUETTFELD (P9472).

PEARL - 15 Jan: unidentified unit reported a battery assigned to 29 Regt (18 Inf Div). Other unidentified unit, same day, mentioned SOMMERAIN (P67), BOIS DE CEDRONGE (P68), MONT LE BAIN (P67); TAVERNAUX (P6173) was "enemy" occupied. 14 Jan Pz LEHR Ren mentioned HOUFFALIZE, VELLEREUX (P56), BONNERUE (P5670). 766 Volks Arty Korps gave location of CP at BRACHTENBACH (P6959).

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160800A Jan 45

CIRO-PEARL - 12 Jan: OBUSTAF SANDIG, C.O. of 2 SS PGR (1 SS Pz Div) gave ambulance assembly point as BRACHTENBACH (P6959) and mentioned change of MLR BRAS (P6255) - HERLE (P6551).

161845A Jan 45

CIRO-PEARL - 14 Jan: Pz LEHR Rcn ordered to go to KARLSHAUSEN (P95) for clothing delivery; vehicles out of service to be sent to WILFERDINGEN (R63).

PEARL - 16 Jan: 634 GHQ Arty Bn of 766 Volks Arty Korps said CP in woods, signposted along road MARNACH (P8062) - FISCHBACH (P8065); also mentioned CLERF. Pz LEHR Rcn mentioned BOURCY, MICHAMPS, NOVILLE, TROINE, HARDIGNE, all in P66 block. 3 PG Rcn mentioned TROIS VIERGES (P77), SEVENIG (P87) HACHVILLE (P76) and WIWERDANGE (P77).

170800A Jan 45

THUMB - 16 Jan: possible element of 1 SS Pz Div in area WILTZ.

171830A Jan 45

CIRO-PEARL - 16 Jan: unidentified SS unit indicated inability to move batteries because of fuel shortage; 3d Battery in woods 1 Km S of TROTTE (P6764); 1st, 4th and 5th Batteries in forest 600 meters from E exit BOXHORN (P7566); 2d Battery in GRENTAL (P6863); two guns in BOEUR (P6467) without fuel.

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180835A Jan 45

GIRO-PEARL - 15 Jan: Pz LEHR Div reported Supply Company on way to new billeting area in NIEDERFLINGEN (L3962); other texts routine.

181845A Jan 45

PEARL - 18 Jan: unidentified unit mentioned ETTTELBRUCK (P8240) and tank noises.

190800A Jan 45

GIRO-PEARL - 17 Jan: Bn CP of Pz LEHR Div 1 Km SE of BURET (P6668), 6 Km SE of HOUFFALIZE; Diesel fuel to be procured at emergency dump in MATZERATH (L0372); 3 Km E of LUNEBACH; ammo can be obtained from MALONE (codename; possibly ammo dump in WILWERDINGEN); synthetic fuel can be acquired from control station BARTH at ARZFELD (P9566); fuel oil and grease can be picked up at BRUFEEKOLONNE, 1 Km E of HOLDINGEN (P7775); 3 Company in WEISSWAMPACH (P8172); vehicles of 1 Company in LAMERSCHER (P7074) to go via HOLDINGEN on return trip; new Bn CP at LEPPESMUEHLE (P76) 1.5 Km SE of HOFFELT; CP of Engr Bn at MAULUSMUEHLE (P7776) 2 Km S of BINSFELD; CP of 901 PGR at VANDEBURCY (P66); Company for future delaying action with 902 Regt to move into TAVIGNY (P6469). 16 Jan: 1 SS Pz Div directed REHMER to road fork at LE MINE (P6560); CP of 1 SS Pz Pion Bn in ALLERBORN (P6661); 167 Volks Gren Div reported attack from LONGVILLY (P6460).

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191845A Jan 45

GIRO-PEARL - 17 Jan: main dressing station of Pz LEHR Div at FUENFKIRCHEN (unlocated); Ic in WEILER (P7268) ordered addressee of message to remain in DEMESCHBACH (P7268); column control station at DONNINGEN (P7264) was disbanded. 18 Jan: a strongpoint mentioned in ARZFELD for picking up fuel; main dressing station at PHELLIPSTEILER (unlocated); Bn CP at LEHRESMUEHLE (P7166); KARLSHAUSEN (P9159) to be point for 4-day ration distribution on 20 Jan.

THUMB - 19 Jan: element of Pz LEHR Div 1.5 miles N of BACHVILLE (P7071).

191645A Jan 45 - to Ninth and First U. S. Armies only.

GIRO-PEARL - 17 Jan: 130 Pz Jaeger Bn (Pz LEHR Div) reports it impossible to bring up tank destroyers requested for two or three days because of lack of fuel and spare parts and because of road obstructions.

200800A Jan 45

GIRO-PEARL - 17 Jan: continued reference to supply point for 766 Volks Arty Korps at SINSPELT (P9853). 18 Jan: unidentified unit (indications it consists of 5 Batteries) contained SS signatures.

201310A Jan 45 .. to Ninth and First U. S. Armies only.

GIRO-PEARL - 20 Jan: unidentified unit reported CP at WEINSHEIM (L0982).

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201850 Jan 45

GIRO-PEARL - 19 Jan: Pz LEHR Div stated it was to move to DRINKLINGEN (P7872) that night; area HOLLER (P7970) - BREIDFELD (P8170) - WEISWAMPACH (P8172) - HUBERTUSMUEHLE (P8172) to be reconnoitered; mentioned Corps HQ in STOLZEMBURG (unlocated).

PEARL - 20 Jan: unidentified unit mentioned fire on BASTONDORF (P84).

210830A Jan 45

GIRO-PEARL - 19 Jan: Pz LEHR Div announced that after that evening Div CP would be at FUENFBRUNNEN (CINQFONTAINES - P76); one way motor traffic only, E to W, on bridges at GEMUEND (P8755) and BURGREULAND (P8578), only W to E over bridges at DASBURG (P8562) and KALBORN (P8368); line of march of unidentified formation was ASSELBORN (P7367), SASSEL (P7568), MAULUSMUEHLE (P7767), ROSZMUEHLE (P7969), HEINERSCHIED (P8267), MARBURG (P8162) and HOSINGEN (P8259); message addressed to Ib stated Supply Company in NEU HEILENBACH (L1568) and supply base in WEISWAMPACH (P8172); mobile supply units ordered to cross borders of REICH and heavy supply columns to move to Ib as directed.

211450A Jan 45 - to First U. S. Army only.

GIRO-PEARL - 21 Jan: two cbm Otto fuel for XIII ARMEE KORPS from railroad tank car at station in LISSENDORF (L1991), 7 Km E of STADTKYLL (L1495); issue urgent because otherwise operation endangered (signed SIANO, Genkdo XIII).

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211830A Jan 45

CIRO-PEARL - 21 Jan: SIANO for Genkdo XIII Korps ordered Otto fuel picked up for XIII ARMEE KORPS at station in LISSENDORF (L19). Unidentified formation reported FLEBOUR (P8346) under fire.

PEARL - 21 Jan: SUHR, C.O. 766 Volks Arty Korps, was in KOXHAUSEN (P9356).

220800A Jan 45

CIRO-PEARL - 20 Jan: Pz LEHR Div to 3 Repair Company stated new supply area at ARZFELD (P9566); HQ Company of Pz Regt in BICKENDORF (L1160); fuel issue for Div had space for Army Flak Bn, Signal Bn and Pz Regt, all of whom to report to column control station in ARZFELD; unidentified Bn in BINSFELD (P7870); Army field dressing station at KALBORN (P8368); several messages indicate unidentified elements going to, or already in, HOSINGEN (P8528); march hindered by disrupted radio communication and snowstorm.

221845A Jan 45

PEARL - 22 Jan: 21 Pz Div reported road ROESCHWOG (P22) - STATMATTEN (R12) passable. 766 Volks Arty Korps again reported SUHR, C.O. of Korps, in KOXHAUSEN (P9356).

THUMB - 22 Jan: unidentified unit located in areas DÄHNEN (P8665) and two miles W of HARSFELD (P9377).

230800A Jan 45

PEARL - 21 Jan: element of 146 Pz Arty Regt, 116 Pz Div, mentioned BLANKENHOF (P2304) in connection with Diesel fuel. Fire from places in area ROBERTVILLE (K8608) - KONZEN (K9522) and air activity over NEUHOF (FO402) reported by 3/Light Observation Bn 34.

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231830A Jan 45

PEARL - 23 Jan: 9 SS Pz Div mentioned OURTHE (P72).

THUMB - 23 Jan: element of Pz LEHR Div in BITBURG (L1354).

240830A Jan 45

CIRO-PEARL - 22 Jan: Pz LEHR Div reported it was moving to OBEREISENBACH (P8651) after 0800 hours on the 22nd; message signed by Korps requested Gen BAYERLEIN to go to OBER-GECKLER (P9653), (may be new location for I SS Pz Korps).  
21 Jan: regimental staff and HQ Company (of Pz LEHR Regt 1307) in BICKENDORF (L1160); II Staffel of Supply Company billeted in NEU HEILENBACH (L1568); Div message center in HOSINGEN (P8258) and message center of Div supply troop at HENNERSCHIED (P8267); attached foreign unit wiped out, and HOSCHIED (P8151) could not be held without immediate reinforcement; requested road HOSINGEN - HOSCHIED be cleared of snow; ten anti-tank guns to be committed 3 Km E of bridge at GEMUEND (P8755); RODER (P8163) reported on 22 Jan as CP of 130 PZ LEHR Rcn Bn.

241830A Jan 45

CIRO-PEARL - 23 Jan: CP of FGR 902 and Engr Bn located at HOSCHEIDERDICKT (P8254); forward line S of MERSCHIED (P8352), N of NACHIMANDERSCHIED (P8451); violent tank and infantry battle in progress; elements of KUNZE and Engr Company in HOSCHIED.

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250800A Jan 45

CIRO-PEARL - 23 Jan: Pz LEHR Div reported Gren Regt 36 of 9 Inf Div at PUTSCHEID (P8552). 22 Jan: I SS Pz Korps instructed all divisions to observe strict radio silence after crossing OUR River; 1 SS Pz Div requested fuel for movement to undisclosed destination; 6 SS Pz Army had direct control over Battlegroup PEIPER (C.O. 150 Pz Brigade).

261920A Jan 45

CIRO-PEARL - 23 Jan: Pz LEHR Div reported telephone exchange "CARUSO" at WAHLHAUSEN (P8455). Unidentified unit mentioned a fuel depot near MUERLENBACH (L1973), S of GEROLSTEIN (L2381).

310800A Jan 45

CIRO-PEARL - Messages of 146 Arty Regt of 116 Pz Div reveal movement towards area S of EUSKIRCHEN (F3204).

311820A Jan 45

CIRO-PEARL - 29 Jan: Element of Pz LEHR Div mentioned recon car of 2 Company in GEMUEND (P8755) and six recon cars at BURGREULAND (P8679); also query regarding blockade directions on West Wall. 28 Jan: 146 Arty Regt (116 Pz Div) referred to arrival at HAMMEL from 2 and 3 Batteries in NIEDEREHE (L3090) and said the hunting lodge there was occupied; lack of fuel restricted further travel; 3 Battery to remain in DENSBORN (L1969), 7 Battery in HILLESHEIM (L2488), and due to fuel shortage 8 and 9 Batteries and a HQ were located in a woods 4 Km S of STADTKYLL.

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APPENDIX C

List of Technical Reports Published by Intelligence Branch,  
Signal Security Detachment "D"

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A. PERIODIC TRAFFIC ANALYSIS NOTES:

- No. 1 - Identifying Characteristics of Networks Confirmed in October 1944.
- No. 2 - Same title as No. 1.
- No. 3 - Same title as No. 1.
- No. 4 - Same title as No. 1.
- No. 5 - Same title as No. 1.
- No. 6 - Summary of Group Numbers (G.N.).
- No. 7 - List of Internal Elements of Formations Equated with G.N.'s on which Continuities are Still Obtainable.
- No. 8 - Distinguishing Characteristics of G.N. 25.
- No. 9 - Case History of 2 SS Panzer Division (GN 88).
- No. 10 - Summary of Group Numbers 85 - 98.
- No. 11 - Index of Characteristics to Group Numbers.
- No. 12 - Historical Notes on 10 SS Panzer Division (GN 52).
- No. 13 - Historical Notes on 11 Panzer Division (GN 66).
- No. 14 - Summary of Group Numbers 99 through 119.
- No. 15 - Historical Notes on 12 SS Panzer Division (GN 26).
- No. 16 - Historical Notes on 116 Panzer Division (GN 54).
- No. 17 - Summary of Group Numbers in Effect since 1 March 1945.
- No. 18 - Summary of Confirmed and Possible Wellennummern on Group Numbers Heard in March.

B. WEAM/SSDD, through No. 207. Each WEAM is divided into the following Parts:

Part I. Intelligence Data.

- A. Order of Battle.
- B. Fusion Identifications.
- C. Personalities and Codenames.

Part II. Pearl.

- A. Intelligence.
- B. Messages of Interest.
- C. Technical.

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Part III. Thumb.

- A. Group Numbers.
- B. Possible Continuities.
- C. Miscellaneous.
- D. Untraced N/I Nets.

Part IV. Captured Documents.

- C. CIRO-PEARL/STIGISUM/ESDD, through No. 143. (Medium-grade messages in both original German and English deciphered form, of high intelligence value.)
- D. CIRO-PEARL/ESDD/MGA, through No. 735. (Decipherments of all medium-grade messages broken originally by Detachment "D", and the keys recovered.)
- E. Lists No.'s 1 and 2 of PERSONALITIES Derived from Signal Radio Intelligence Sources Only.
- F. PEARL TECHNICAL REPORTS:
  - No. 1 - List of Schluesseltafel Serie on Hand.
  - No. 2 - Current T/L Codes and Characteristics.
  - No. 3 - Additional List of Schluesseltafel Serie on Hand.
  - No. 4 - Current T/L Codes and Characteristics.
- G. Report on Observations on VHF Intercept.

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AN ANALYSIS OF CIRO-PEARL INTELLIGENCE  
DERIVED FROM GERMAN ARMY SIGNAL COMMUNICATIONS  
BY SIGNAL SECURITY DETACHMENT "D" DURING THE PERIOD  
10 AUGUST 1944 - 12 MAY 1945

GENERAL

The mission of Intelligence Coordination Section, Intelligence Branch, Signal Security Detachment "D", included the processing of all textual material derived through analysis of German Army medium- and low-grade ciphers and codes which were passed on the 12th Army Group front during the period 10 August 1944 - 12 May 1945. This process embraced translation, interpretation and reporting. Evaluation of message content was accomplished through reference to files and records which contained current, collateral information about the enemy. It is with the evaluation of CIRO-PEARL Intelligence that this report is concerned, and particularly with the levels of information which were found to characterize CIRO-PEARL transmissions.

Examination of more than 6000 CIRO-PEARL texts during the period under review has shown that the major part of all information derived can be placed roughly into four main categories: (I) Information concerning unit locations and dispositions, (II) Situation reports and operational directives, (III) Troop movements, and (IV) Status reports, including a variety of unit statistical information observed in numerous message pro-formae. In the paragraphs which follow, consideration will be given to a number of selected items of CIRO-PEARL Intelligence representing and illustrating information stemming from the four classifications above. Information derived from PEARL and THUMB will not be included in this report.

I. INFORMATION CONCERNING UNIT LOCATIONS AND DISPOSITIONS.

Some 4000 CIRO-PEARL messages of operationally important interest were reported to the Assistant Chief of Staff, G-2, 12th Army Group in Signal Security Detachment "D" daily ISUMS. Of those items which were republished in the G-2, 12th Army Group, nightly ISUM to interested American and British agencies, over ninety percent were concerned with enemy Command Posts and Order of Battle. The fact that CIRO-PEARL analyses produced Order of Battle Intelligence about German divisions, often in as few as eight to twelve hours after message inter-

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ception, placed an extremely high premium on the dissemination of such information.

A. FORWARD AREAS.

1. Unit Command Posts -

The period during which CIRO-PEARL produced the maximum intelligence, both in quantity and in quality, occurred during the German "Ardennes Offensive", 16 December 1944 to 2 February 1945. Messages from thirteen divisional and similar formations in and near the "Bulge" area were read. The formations were, 1 SS PZ DIV "Leibstandarte SS Adolf Hitler", 2 SS PZ DIV "Das Reich", 10 SS PZ DIV "Frundsberg", 12 SS PZ DIV "Hitler Jugend", 11 PZ DIV, 116 PZ DIV, 130 PZ "LEHR" DIV, 341 Sturmgeschuetz Brigade, 766 Volkartillerie Korps, I SS PZ Korps, XIII Armee Korps, Wehrkreis VI and an unidentified armored division. The divisions listed represented the bulk of the armored and mobile formations employed by the Germans during the Ardennes operations and constituted the major threat to Allied forces. Consequently, the CIRO-PEARL intelligence gained from these formations not only indicated accurately the trend of operations carried out by all enemy units within the "Bulge" but also provided G-2 with reliable information at a time when other intelligence sources were relatively unproductive or non-existent.

130 PZ "LEHR" DIV provided the most noteworthy example of continuous information during this period, particularly in the matter of divisional element CP's. CIRO-PEARL messages of 17 January 1945 have been selected to illustrate examples of high priority division and division element CP locations:

✓ 130 PZ LEHR DIV Ic (Intelligence):

"DIV Ic located at WEILER (GSGS 4042/P 7268) on 17 Jan."

✓ PZ GREN REGT 901:

"Attempt communication with PGR 901 at WANDEBOURCY (P 642683) immediately..."

✓ PZ GREN REGT 902:

"Kd/Pi Btl 130, for delaying action, will be with PGR 902 in the future and will move into TAVIGNY (P 6469)."

PZ PI BTL 130:

"New Btl CP is at LEHRESMUEHLE (P 718668), 1.5 km SE of HOFFELT (P 7068)..."

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Heeres PI BTL 207 (attached to 130 PZ LEHR DIV):

"Send an empty truck immediately to MAULUSMUEHLE  
(P 777676), 2 km S of BINSFELD (P 7870), to the CP  
of Heeres PI BTL 207..."

From 20 to 22 January 1945 division and other elements also  
announced their CP locations:

20 January

PZ Nachr Abt 130:

CP of PZ Nachr Abt 130 was announced in BINSFELD  
(P 7870).

21 January

130 PZ LEHR DIV:

"Division CP at 1430 hrs, 21/1, in BREITFELD (P 8070).  
DIV is to move to OBEREISENBACH (P 8657) after 0800  
hrs, 21/1".

PZ LEHR REGT 130:

The Regtl staff and Hq Co was stated at 1635 hrs,  
21/1, to be in BICKENDORF (P 1160)

22 January

PZ Aufkl Abt 130

CP of PZ Aufkl Lehr Abt 130 was announced in a msg of  
1100 hrs, 22/1, as in RODER (P 8163).

A list of 266 principal CP's derived from GIRO-PEARL has been  
appended to this report, representing information concerned only with  
battalion level and higher. The following analysis demonstrates the  
number of CP's observed at the levels indicated:

<u>LEVEL</u>	<u>NO OF CP's</u>
Army	2
Corps	7
Division	59
Regiment	41
Battalion	88
Kampfgruppen	2
Message Centers	20

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<u>LEVEL</u>	<u>NO OF CP's</u>
Repair Echelons	8
Ammo, fuel and supply	34
Miscellaneous	<u>5</u>
Total	266

2. Unit Dispositions -

Often, CIRO-PEARL provided intelligence concerning the sectors which enemy units occupied or were to occupy. Information of this sort held a high value from an order of battle point of view. Messages which announced Main Lines of Resistance, Outguard Lines of Resistance, Sector Boundary Lines, Sector Junction Points and Neighboring Units frequently afforded G-2 a clear and reliable estimate of a specific enemy situation.

a. Main Lines of Resistance -

During the period when Third U S Army was thrusting southeastward from the Siegfried Line north of the Moselle River to the line: Rhine - Moselle Rivers (6 to 13 March 1945) and, successively, while other forces of Third U S Army and elements of Seventh U S Army were driving to the Rhine through the Saar Palatinate (13 to 24 March 1945), 6 SS Gebirgs Jaeger DIV "Nord", newly arrived on the Western Front from Finland via Denmark, was making a determined stand just south of Koblenz. Its sector occupied the corner formed south of the confluence of the Rhine and Moselle Rivers. Accurate, large-scale maps made possible the pinpointing of the divisional MLR as given in a text sent by SS Geb Aufkl Abt 6/6 SS Geb DIV Nord on 13 March reading: "American units are bridging the Moselle along the MLR: BRODENBACH (GSGS 4346/L 7980)- 'PT 281' (L 779791)-'PT 315' (L 755778)-'PT 316' (L 752768)-MUENDELERBOCK (L 7375)-TREIS (L 6875)". Three days later, on 16 March, with American armored units encircling the sector, SS Geb Jg Regt 11 "Reinhard Heydrich"/6 SS Geb Jg Div Nord announced the divisional sector as enclosed by the line: "SCHAFBERG (unl)-RAFFENHECK (L 8482)- NE of UDENHAUSEN (L 8380)-BUCHHOLZ (L 8578)".

b. Outguard Lines of Resistance -

In early September 1944, when the German Armies were rapidly retreating through Eastern France and Belgium to the Siegfried Line, 2 SS PZ Div "DAS REICH" was retiring southeastward from the line: DIVANT-LIEGE, Belgium. On 7 September 1944, the Div Ia (operations) of 2 SS PZ DIV announced to Div elements that: "The Allies have presumably

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reached LIEGE from the West. 12 SS PZ DIV "Hitler Jugend" now has its furthest forward Outguard Line of Resistance west of HAMOIR (GSGS 4042/K 4305)". The usefulness of this information at a time when Allied elements were feeling out an otherwise confused situation in the LIEGE area was immediate.

c. Boundary Lines -

Also of extreme value in the reconstruction of enemy Order of Battle, boundary lines between enemy units, or between elements of enemy units, were announced in CIRO-PEARL on numerous occasions.

After the reduction of the Falaise Pocket in Northern France (16 to 22 August 1944), messages from 2 SS PZ DIV "Das Reich" on 24 August revealed much that was unknown concerning its exact whereabouts during its retreat toward the Seine. One message read:

"SS PZ Grenadier Regt 3 "Deutschland" is at ELREUF (GSGS 4042/1019); SS PZ Grenadier Regt 4 "Der Fuehrer" is in the FORET D'ELREUF. Boundary Line (between regiments): railroad. Front and reconnaissance to the southeast. Artillery located east of BOSCO-ROGER EN ROUMOIS (M 0598). Reconnaissance battalion with DIV reserve at LE TRUIT (several in area)."

d. Neighboring Units and Junction Points -

Contributing further to the order of battle of an enemy sector was CIRO-PEARL Intelligence relating to formations adjacent to a particular unit under observation and to the points of junction between such units. The following paragraphs, concerned with the relationship of 15 PZ Grenadier Div to its neighboring units at the beginning of operations east of Metz and Nancy, France, in September 1944, are quoted from CIRO-PEARL/SIGISUM/SSDD:

Messages of 15 September 1944:

"At 1526 hours Gen. Lt. RODT (CG, 15 PG DIV) declared to Div Ib, 553 Inf Div that Flak Abt 200 would hold its present position and would defend itself to the last shot. Flak Abt 200 was reported subordinated to Inf Regt 1120/553 Inf Div. RODT requested a report on the number of machine guns still in use within the division sector that morning. Division radioed to 553 Inf Div at 1745 hrs explaining that of 38 machine guns set up, presumably at night, 32 remained in the morning."

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Messages of 20 September 1944:

DIV (15 PG Div) informed Hptm. SCHWERMANN of a Div element "that the junction with the 'left neighbor' was not to be made at the RR line: LUNEVILLE (Q 00)-MONCEL SUR SEILLE (Q 01), but along line: LUNEVILLE-MARAINVILLER (V 19). At 134 hrs the personality above, SCHERMAN, announced that the 'left neighbor' was I/PZ Regt 2102/102 PZ Brig and that this formation had taken up the junction, mentioned above, at 1430 hrs."

#### B. REAR AREAS

Material presented in the foregoing paragraphs has dealt entirely with enemy dispositions in forward areas. Peculiar to CIRO-PEARL Intelligence has been the additional information provided by units and echelons in the rearward areas, the importance of which often has surpassed that derived from formations in the line. Information, concerning the specific locations of motor fuel, ammunition and rations supply dumps, lines of communication, divisional repair shops, medical collecting points and dressing stations as well as replacement and training areas has not only been of immeasurable value to the Allied tactical air forces but also of value in completing the picture of enemy Order of Battle. Indications of intended redeployment at the MLR have frequently been obtained from announcements made by rearward formations.

##### 1. Supply Dumps -

CIRO-PEARL announcements concerning the location of vital enemy fuel, ammo and food stores parallel in large measure those designating unit CP's. Throughout the campaigns in France, the Low Countries and Germany, Intelligence of this sort was eagerly anticipated.

##### a. Ammunition Dumps -

During the Ardennes Offensive the following message from 130 PZ Lehr Div radio supply channels announced on 8 January 1945:

"The Heeres Munilager, AOK 5, Gruppe von Manteuffel, is at STEIN, 5 km SW of MOCHAMPS (GSGS 4346/F3369); it will close down at 0200 hrs 9 January. Therefore, the following must be requisitioned immediately:

7.5 cm HE ammo, type 34 - for 7.5 cm Kw. K.  
7.5 cm HE ammo, type 34 - for 7.5 cm PAK  
Hy pointed MG ammo"

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##### b. Fuel Dumps -

During the rapid retreat of the German armies in France and Belgium in September 1944, 9 PZ Div CIRO-PEARL communications

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of 28 September announced the location of a large fuel and ammo dump:

"... in the forest 3 km from VILLERS-COTTERETS (GSGS 4042/S 6387)." (Note - the above mentioned dump was the largest supply dump captured intact in France. Two German general officers were surprised at breakfast when Allied armored forces took the area under command.)

c. Ration Dumps -

A text from 130 PZ Lehr Div on 5 December 1944 stated:

"Rations for 4 days may be drawn on 6 December in BRENSCHELBACH (GSGS 4346/Q 76)".

2. Lines of communication -

Of importance to the Allied Tactical Air Command were frequent messages revealing dispositions of enemy lines of communication. On 28 September 1944, 9 PZ Div announced the L of C for FGR 10 as: "CHERY (GSGS 4042/O 0225)-CHALANDRY (O 0527)-POUILLY (O 0228)".

3. Medical Dressing Stations -

Although of no strictly tactical value, intelligence concerning the location of enemy medical units has contributed to the compilation of enemy Order of Battle. The following message was sent on 3 January 1945 by 1 SS PZ Div "LSSAH" in the period immediately following the relief of Allied airborne troops at BASTOGNE during the Ardennes Offensive:

"HVP (main dressing station) is no longer at ALLERBORN (GSGS 4042/P 6661) but at ESELBORN (P 7564). Advance dressing station is at BRACHMENBACH (P 6959)".

1 SS PZ Div was in the process of redeployment when the above message was sent and the localities mentioned indicated more clearly much of the divisional redisposition.

4. Repair shops -

The locations of enemy repair units, especially heavy ordnance workshops and field tank repair shops, have also figured as priority targets for Allied air attacks. The following text was sent on 20 January 1945 by 130 PZ Lehr Div:

"... 3rd Tank Repair Co located in area of BITBURG (GSGS 4346/L 1353)".

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5. Replacement and Training Units -

Often CIRO-PEARL messages from rear area divisional elements revealed the structure and location of enemy replacement and training units, particularly division field replacement battalions. On 23 November 1944, 11 PZ Div sent a series of messages dealing with the availability of replacements while that division was engaged in operations in the SAAR area. The messages included:

"... replacements have not arrived at RENNEN (GSGS 4346/Q 4844) because of proximity of enemy."

"... additional replacements may be obtained 10 km ENE of SAARALBEN (Q 4844) at KULHAUSE (Q 5747). 50 men must be delivered to II Bn in GRUNWILLER (Q 4449)."

a. Field Replacement Battalions -

While 15 PZ Grenadier Div was engaged in combat in the Siegfried Line north of AACHEN during November and December 1944, its CIRO-PEARL communications afforded a wealth of information concerning element dispositions. On 6 December the divisional staff section IIa (officers' Affairs) requested of the Feld Ersatz Bataillon a status report pertaining to the organization of (a) The divisional combat school and (b) The Field Repl Bn as of 4 December. The reply to Div IIa read:

"(a) Combat school now located in GELLEP (GSGS 4346/A 2605). Strength: 1 Off. 48 NCOs. 15 ORs.

(b) Field Repl Bn: HQ in LANKLATUM (A 2601). Strength: 4 Off. 8 NCOs. 36 ORs.

1 Co now with R/T course of instruction at advance observers school and A/T Escort Co in OSTRATH (F 2292). Strength: 5 Off. 43 NCOs. 156 ORs.

2 Co with course of instruction for snipers in KREFFELD-OFFUL (A 2104). Strength: 2 Off. 21 NCOs. 72 ORs.

3 Co is in STRATUM (A 2503). Strength: 21 Off. 136 NCOs. 4(?) (?) ORs.

4 Co is engaged in course of instruction in KREFFELD. Strength: 5 Off. (?)4 NCOs. 128 ORs.

Situation as of 4 December: Newly arrived March Bn not included in this account. 1 Co will be transferred to LANKLATUM whenever the vacating of its present locality is intended."

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This text reveals that the Repl and Training area of 15 PZ Gren Div was some distance to the north and east of the division - information of value to the Allied Tactical Air Command.

b. Wehrkreis Training Units -

During the entire period under review an intermittent source of intelligence was an administrative radio network of Wehrkreis VI whose headquarters was in MUENSTER (GSGS 4346/A 97). The units and formations subordinated to this command were largely replacement and training elements which provided the bulk of supplies and replacements for SS PZ AOK 6, the 6th SS Armored Army, which contributed the heaviest impetus to the Ardennes Offensive in December 1944 and January 1945. On the initial day of the offensive, 16 December, CIRC-PEARL messages from Wehrkreis VI announced the following CP's:

PZ Gren. Ers. u. Ausb. Regt 16	ISERLOHN (A 90)
Feld Ers. Btl. 4	ISERLOHN
Nachr. Ers. u. Ausb. Kp. 57	ISERLOHN
PZ Gren Ers. u. Ausb. Btl 361	WUPPERTAL (F 59)
PZ Gren. Ers. Btl. 64	WUPPERTAL
PZ Gren Ers. u. Ausb. Btl 367	WUPPERTAL
Gen. Kdo. VI A.K., Abt II (MOT)	MUENSTER

6. Billeting Areas -

Occasionally, units withdrawing from the MLR into reserve announced the locations wherein they were to be billeted. 2 SS PZ Div "Das Reich" provided an excellent example of a message announcing new quartering and billeting areas for a Regiment on 14 October 1944. 2 SS PZ Div was retiring into the PRUEM (GSGS 4346/L 07) area, and one (unidentified) PGR announced:

"The following movements will be carried out into the new billeting area.

- a. Regt HQ and HQ Co to move into BERLINGEN (L 28)
- b. 6, 7 Cos to move from DREIS (L 38) into ZILSDORF (L 28)
- c. III Bn to move into DOCKWEILER (L 38)
- d. 10 Co to move into DREIS
- e. 11 Co, repair and fuelling echelon to move into KIRCHWEILER (L 28)
- f. 12 Co to move into HINTERWEILER (L 38)
- g. 13 Co and 14 Co/TROSS II to move from GEES (L 28) and BERLINGEN into NEROTH (L 27)
- h. 16 Co to move into GEES."

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## II. SITUATION REPORTS AND OPERATIONAL DIRECTIVES -

During the ten-month period under review, it was observed that the CIRO-PEARL Intelligence of widest scope and greatest interest originated in messages involving enemy situation reports and field orders. It was noted that whenever the enemy was retiring rapidly or otherwise engaged in extremely fluid combat, the need of subordinate enemy units for precise and current information concerning their immediate situation (and also concerning the disposition and condition of Allied forces in or out of contact) elicited numerous detailed and accurate Sitreps and operational directives on the part of headquarters, generally at division level. Sitreps originating with Division Ia (operations) and passed down to lower commands included not only information concerning friendly and enemy troops, but also specific orders and directives which were to take effect as a result of the situation indicated. Intelligence concerning Allied disposition was most reliably reported in divisional Ic (Intelligence) reports and in Sitreps emanating from divisional reconnaissance and artillery elements.

### A. DIVISION Ia SITREPS AND FIELD ORDERS

130 PZ Lehr Div provided many excellent examples of CIRO-PEARL Sitreps in messages intercepted during the Ardennes Offensive. The texts below were sent on 23 December 1944, when the division was driving westward across northern Luxembourg into Belgium:

1308 hrs, Div Ia to CG, 130 PZ Lehr Div:

"The Oberbefehlshaber ACK 5 (5th Panzer Army) has again ordered a quick thrust to ST HUBERT (GSGS 4042/P 3161). OFENROHR is to proceed to GERLMONT (P 4258)."

1725 hrs, Div Ia to CG, 130 PZ Lehr Div:

"Fourth US Armored Div is advancing along line: REMAGNE (P 3956)-ST HUBERT (P 3161). SCHLUESSELBLUME (codename for IV/Pz A R 130) to take up the line: REMAGNE (P 3936)-MOIRCY (P 3858)-VESQUEVILLE (P 3259)-ST HUBERT (P 3161), leaving protection on the flank. From there advance toward ROCHEFORT (P 2076) with advance Bn."

On the same day, 23 December, at the northern flank of the German salient, 116 PZ Div announced its dispositions and intentions for an impending attack in a Field Order. The following messages were sent by Div Ia:

"The Division is to launch an attack on HUTTON (GSGS 4042/P 3687) and will pull out during the night of 23/24 December leaving protecting forces."

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"As protecting forces the following will remain in the present MLR:

a Bn of FGR 156  
a Bn of GR 1130 (560 Inf Div)  
2 Assault Gun Companies  
1 Hy Howitzer Batt with sufficient ammo -  
all (of these elements) to be under cmd of C.O. Bn/FGR 156."

"The following will pull out at last light:

PZ Regt 16  
FGR 60  
FGR 156  
3/PZ PI Btl 675  
I/PZ A R 146  
III/PZ A R 146 (~~6~~ 1 Hy How Batt.)

distribution of these units (in convoy) to be:

- A. Gruppe BAYER (oberst.)  
PZ Regt 16  
FGR 60  
PZ A R 146  
3/PZ PI Btl 675
- B. Gruppe GROLLMANN (Maj, FGR 156)  
FGR 156 (~~6~~ I/FGR 156)  
III/PZ A R 146 (~~6~~ 1 Hy How Batt.)

Route of March:

BEFFE (P 4385)-DOCHALPS (P 4984)-SAMREE  
(P 5082)-LAROUCHE (P 4580). Further orders  
to be issued there.

Order of March:

Gruppe BAYER  
Gruppe GROLLMANN

C.O. is at fwd Div CP."

In more recognizable Sitrep style, the following message was sent by 15 PZ Grenadier Div during the rapid retreat of German Forces across eastern France into Alsace and Lorraine during September 1944: Div Ia stated on 26 September -

"1. Our right neighbor has penetrated to north point of the lake 1 km E of BURES (GSGS 4042/Q 11).

2. WILDSAU (unid unit codename) is forming a junction with 113 Panzer Brigade at the narrowing of the road between the lake and the canal, on the north bank of

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the canal. Combat outposts are located in the Ferme Michelet (unl.) and in HENALINIL (Q 10)

3. The forces becoming free, and until now actively engaged further east, are to be used for the reinforcement of the Western Front of the forest. 1 Kp is to be taken out as reserve.

4. Communications are to be maintained with the right flank of 113 PZ Bde by reconnaissance troops east of BURES.

5. Increased reconnaissance is to be advanced by reconnaissance troops as far as the line: BAUZEMONT (Q 10)-BIENVILLE (Q 00) daily."

"Request through 3 PG Div exact decision as to disposition of the tanks. Tentatively assemble tanks and motorized elements in HANN SUR NIED (Q 04) until exact decision is reached."

#### B. DIVISION Ic SITREPS

After 4th U S Armored Div had relieved the 101st U S Airborne Div at BASTOGNE, 26 December 1944, during the Ardennes offensive, 1 SS PZ Div "LSSAH" took up a position on the eastern side of the corridor leading north to BASTOGNE and attempted to seal off the Allied route of supply in a thrust to the west. On 6 January 1945 the Div Ic (Intelligence) of 1 SS PZ DIV sent a Sitrep reading:

"Enemy picture in front of our sector: Last night there was no prevailing security. Firm enemy strongpoints established as far as 500 meters south of church at LUTREBOIS (GSGS 4042/P 564529) and from sector near LA-TANNERIE MILL (P 572508) around VILLERS LA BOINE EAU (P 574503).

Presumably, enemy has no intentions of attacking for the present in front of our sector. Our reconnaissance unit was able to advance through a break in the line west of PT 475 (unl) to the south on road "T" at PT 405 (unl) and from there to the west via SCHLOSS LOSANGE (P 556526) without making direct contact with the enemy. To the east and west of the road there were several unguarded vehicles with heavy machine guns and large calibre machine guns.

At present there is enemy rifle and arty fire as heretofore.

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The western edge of VILLERS LA BONNE EAU was found to be mined.

Query: How is situation at ISCHFELT (P 65)-DONKHOLZ (P 6453)?"

1. Reconnaissance Reports -

Communications from reconnaissance elements have often accurately described the situation at the MLR both as to disposition of enemy and of Allied troops. Although the greater number of reconnaissance Sitreps were derived through PEARL analyses, CIRO-PEARL also produced its share, usually in texts of greater accuracy and length. The following series of messages were selected from the transmissions of two German armored divisions, 116 PZ and 130 PZ Lehr Divisions, during the Ardennes offensive.

116 PZ Div Rcn elements 23 December 1944:

1200: "Apparently 20 tanks at MARCOURAY (P 4482), possibly out of gas...Bridge at MARCOURT (P 4285) blown. Locality free of the enemy. The Regt is to block the road: BEFFE (P 4385)-MARCOURT in the area of 560 (Inf Div); blocking has already been begun by 8/GR 1130/560 Inf Div."

1245: "Strong enemy infantry attack with tanks from MY (P 3990) repulsed. Enemy is attacking MELINES."

1310: "Enemy attack on MELINES repulsed. Further strong enemy pressure."

1340: "Relief of PGR 60 will be taken care of by I/GR 1130 (560 I.D.). C.O. to report personally at PGR 60."

1440: "MARCOURT free of the enemy. Bridge blown at MARCOURT. Ostensibly, 20 to 30 enemy tanks are there. Roads have been blocked. Tanks have been ordered to surrender\*."

- \* (This message referred to the tactical envelopment of U S "Task Force Hogan", a part of 33 Armored Regt/U S 3rd Armored Div. Eventually this force was able to find American lines, but tanks were wrecked and abandoned.)

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130 PZ Lehr Div Rcn elements 24 December 1944:

- 0925: "Attack toward ROCHEFORT (P 2177) gaining slowly on the ground."
- 1000: "Send vehicles only north of BASTOGNE (P 5558). Roads south of BASTOGNE may be impassable."
- 1045: "Bridge at ROCHEFORT blown."
- 1055: "Main Dressing station in ST HUBERT at cathedral."
- 1110: "Fighting against strong enemy resistance. ROCHEFORT is taken; the existing bridges have been blown. Send bridging column forward."
- 1147: "Set up advanced PW cage at ROCHEFORT."
- 1305: "Our own bombing attack on BASTOGNE was observed today at 0930 hrs."
- 1550: "About 1530 hrs our own bombing attack and low flying attack took place at BASTOGNE."
- 1635: "Large formation of Luftwaffe observed over BASTOGNE. 176 enemy transport planes are dropping supplies of all kinds."

2. Artillery Reconnaissance Reports -

While most intelligence pertaining to divisional artillery operations was derived from PEARL sources, as in the case of reconnaissance unit reports, some CIRO-PEARL texts were read which also provided coverage of artillery observation. The CIRO-PEARL message below is contemporaneous with the reconnaissance messages preceding and differs from them only in subject matter. It was passed on 23 December 1944 by an unidentified formation which was engaging American forces in the Siegfried Line just north of the salient created by the Ardennes offensive.

"Daily Report of 23/12:-

Continued strong enemy arty activity during the night in arty sectors: BUTGENBACH (GSIS 4346/K 9104), BERG (K 9205), WEYWAERTZ (K 8805), NID-RUL (K 9006), ELSENBORN (K 9207), ELSENBORN LAGER (K 9008), SOUREBOD (K 8610), ROBERTVILLE (K 8507).

Estimated enemy ammo expenditure: over 1500 rds.

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Recombitered target areas:-

In target area 404, tanks at (GAUSS KRUEGER: 14820/91980 - LAMBERT: K 914073).

In target area 405:

6 Light Hows at target 405 exactly.

2 Hy Cannon at (GAUSS: 13100/93150 - LAMBERT (K 892098).

2 Hy Cannon engaged 4 km N of XHOFFRAIX (K 8108)

In target 405 violent infantry and tank battles north of KUNDELBERG . . . (part missed). Concentration of fire exactly on mortar positions north of RR station at WEYWAERTZ and strong infantry in area BUTGENBACH.

During the night there was motor vehicle and tank traffic on road: KALTERHERBERG (K 9214)-ELSENBORN (K 9207).

Isolated vehicle concentrations were dispersed by fire concentrations."

III. TROOP MOVEMENTS

From CIRO-PEARL analyses, numerous announcements of enemy unit troop movements came to light during the campaign in the West. Although most intelligence items of this nature dealt with localized re-dispositions and MLR readjustments, several notable instances of large scale and fairly long term troop movements appeared, involving formations up to the size of a division.

For the purposes of this report the rail movement of the armored and heavy weapons elements of 10 SS PZ Div "Fronsborg", from their rest and refit area in Holland southward to join the main body of the division, will be considered. A series of CIRO-PEARL communications pertaining to this rail movement were read from 13 to 19 December 1944, at the time when the Ardennes offensive was getting under way. Just previous to this period the PZ Gren Regts (~~6~~ heavy weapons companies) of 10 SS PZ Div were attempting to hold back the Allied drive northeast of Aachen. The rest of the division, including: SS PZ Regt 10; SS PZ AA 10; 1/SS PZ Pi Btl 10; 1, 2/IV/SS PZ & R 10; 13, 14/SS PGR 21, 14/SS PGR 22 and III/SS PGR 22, was refitting in Holland, in the area of RUURLO (GSGS 4346/A 1387).

On 13 December the first indication that an important rail movement was in the offing appeared in a text addressed to Ostubaf. PAETSCH (C.O. SS PZ Regt 10) which read:

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"By personal command of the Div C.O., the detraining point for 8 companies (of the PZ Regt) will be RR station at RHEINDALEN (F 0484). Empty RR cars will arrive here in 2 to 3 days. Loading of ammo will be regulated."

By 15 December, the starting point of the rail movement became known in a message of that date announcing:

"The first empty train for PZ Regt has arrived at ELTEN (E 9264). Chief Railway Transport officer at TERBORG (A 0669) still has no orders from the General of Transport Command in ESSEN for the moving of all elements."

It was clear, then, that a large scale train movement from ELTEN to RHEINDALEN was shortly to be effected and that most of the divisional armor and heavy weapons were to be involved, - a prize forewarning to the Allied tactical Air command. However, flying weather was bad during this period and the plans for the train movement continued to progress.

On 16 December, D-Day for the Ardennes Offensive, a CIRO-PEARL message from 10 SS PZ Div stated:

"... 10 SS PZ Div is to be placed in service farther south."

This announcement coincided with the withdrawal from the MLR of SS PGRs 21 and 22 and with the train movement about to take place - information which indicated the reconstitution of the division as one unit.

Continuing CIRO-PEARL analyses for 18 December revealed that the entrainment of Div elements had already begun at ELTEN according to schedule. At 0305 hrs, 18 December, Staff. SANDER (C.O. SS & R 10) reported to Div Ia:

"Loading order received tonight. Empty trains coming in rapidly. In addition to PZ Regt, Flak Cos - 14/SS PGR 21 and 14/SS PGR 22, and (IG Co) 13/SS PGR 21 are to be loaded."

At 0755 hrs, 18 December, a message to Ostufaf PAETSCH read:

"5, 6, 7 Cos/PZ Regt - Transport No. 164361 left ELTEN 17 December at 0253 hrs. HQ Co, 1, 2 and 8 Cos/PZ Regt - Transport Nos. 164362, -63, -67 were dispatched, 17 December, at 1812 hrs."

Announcements that entraining operations at ELTEN were rapidly nearing completion appeared in CIRO-PEARL texts of 19 December. In one message of 0256 hrs, from an Ustuf SANDER at RUURLO to Div Ia, full in-

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formation was finally gained pertaining to the designations of all Div elements participating in the movement operation. The message stated:

"Everything with the exception of Flak (IV/SS PZ A R 10) rear echelon has entrained. To depart during the evening:

SS PZ Regt 10 (~~SS~~<sup>less</sup> 8 Co)  
SS PZ AA 10  
1 Kp/SS PZ Pi Btl 10  
1, 2 Batt./IV/SS PZ A R 10  
13 Kp/SS FGR 21  
13, 14 Kpn/SS FGR 22  
III/SS FGR 22 -

Three trains have already left. The remainder loading tonight and leaving early 19 Dec."

No information was obtained concerning the detraining at RHEIN-DALEN of Division elements involved; and consequently, it cannot be ascertained whether the entire movement was finally successful. It was possible, however, to report in good time on the development of the train movement by virtue of almost immediate CIRO-PEARL analysis for each day's messages.

#### IV UNIT STATUS REPORTS

A prolific source of CIRO-PEARL Intelligence was found in communications which contained a variety of unit status reports. The major part of these reports was transmitted in pro-forma fashion. Consequently, detailed study had to be made in the case of each individual message in order that exact interpretation could be effected. Unit Status Reports transmitted in CIRO-PEARL messages fall into four distinct categories: A. Tank States, B. Weapons states, C. Strength Reports and D. Supply Reports. The examples below which illustrate each of these categories, or any of their subdivisions, represent the most typical cases.

##### A. TANK STATES.

Armored and mobile formations often supplied CIRO-PEARL Intelligence concerning the state of their ability or preparedness to commit armor to battle. In August 1944, 10 SS PZ Div "Fruntsberg" was striving to extricate itself from the fast closing Falaise Pocket. On 17 August, SS PZ Regt 10 sent the following tank state report:

"Tank State:

Available for operation: 1 PKw III  
5 PKw IV  
4 Assault guns

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Available within 14 days: 1 PKw III  
5 PKw IV  
3 Assault Guns

Available after 14 days: 14 PKw IV  
17 Assault Guns\*

#### B. WEAPONS' STATES.

In a fashion similar to tank states, status reports on the state of weapons' efficiency within an enemy unit often provided intelligence of importance. The following message was originated by SS PZ Jaeger Abteilung 2 of 2 SS PZ Div "Das Reich" on 18 September 1944 during the withdrawal of the division into the Westwall at PRUELL (GSGS 4346/L 07):

\*A/T preparedness state of Div elements:  
SS "Deutschland" (SS PGR 3)  
5 x 7.5 cm. A/T guns  
5 x Fueppchen (Rocket projectors)  
Kampfgruppe MILIUS (attached to 2 SS PZ Div)  
2 x 7.5 cm. PAK  
2 x 8.8 cm. PAK/FLAK  
SS "Der Fuehrer" (SS PGR 4)  
3 x 7.5 cm. PAK  
1 x 5 cm PAK  
1 Assault gun  
2 SS PZ Aufkl Abt  
4 x 7.5 cm. PAK\*

#### C. STRENGTH REPORTS.

By far the greatest number of unit status reports emanating from CIRO-PEARL dealt with the strength of enemy units. Strength reports included (1) personnel strength reports, (2) casualty reports and (3) Replacement reports. Often, various of these reports were combined, depending upon the pro-forma employed by particular enemy units.

##### 1. Personnel Strength Reports -

Proof of the depleted strength of SS PZ Regt 10 of 10 SS PZ Div at the time of its attempt to escape from the Falaise Pocket was revealed in a message of 18 August 1944 announcing the strength of the entire regiment as:

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"Daily Strength: 27 Off 151 NCO 629 OR  
Battle Strength: 13 Off 23 NCO 102 OR"

Another typical strength return was announced by I Battalion of Regiment LAUBSCHER (SS PGR 21) of 10 SS PZ Div on 31 October 1944:

	<u>OFFICERS</u>	<u>NCO</u>	<u>OR</u>
"Actual Strength:	16	131	766
Daily Strength:	16	128	764
Combat Strength:	14	76	592
Battle Strength:	14	74	517"

## 2. Casualty Reports -

341 Sturmgeschuetz Brigade, while heavily engaged in the defense of the KOELN plain, requested on 12 December 1944 that all batteries furnish a survey of casualties sustained from "date of initial employment" until 12 December. One battery replied:

"Casualties sustained since 31 July 1944:

	<u>OFFICERS</u>	<u>NCO</u>	<u>OR</u>
Killed	5	4	4
Severely wounded	-	2	7
Lightly wounded	1	9	16
Missing	2	8	19
Captured	-	4	3
At "Ft Nazaire"	-	1	3"

## 3. Replacement Reports -

Early during the Ardennes offensive 130 PZ Lehr Div began to sustain heavy losses, both in men and in equipment. GIRO-PEARL Sitreps indicated to a large extent, the sort of losses sustained. Occasionally, itemized loss and replacement reports appeared, which afforded a more exact appreciation of events. The message below was sent to the C. Sig. C. of the division on 24 December 1944:

"As far as can be ascertained:

Total loss:

3 field telephones  
2 pack telephones

Personnel loss:

2 telephone NCOs  
2 telephone ORs

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Most urgently needed personnel:

- 2 Officers
- 3 Radio NCOs
- 18 Sending Operators
- 2 Telephone NCOs
- 10 Telephone ORs
- 15 Radio car operators"

D. SUPPLY REPORTS.

Intelligence concerning the enemy supply picture was always at premium value. CIRO-PEARL produced numerous items of supply intelligence, many of which were derived from characteristic message proformas. These proformas dealt predominantly with the fuel and ammunition status of enemy units. Requisition requests also appeared in proforma supply messages which, in themselves, offered valuable information concerning the state of supply.

1. Fuel and Ammunition Reports -

SS PZ Regt 1 of 1 SS PZ Div "ISSAH", while engaged in heavy combat in the Ardennes, filed the following fuel and ammo report with the Div Ib (supply) on 12 January 1945:

\*Fuel Report 12 January:

OTTO fuel allocation:-

Received from Army	10 cbm.
Consumption	10 cbm.
Supply on hand	1 cbm.
Supply of Diesel fuel	0.5 cbm.
Motor oil	3.8 cbm.
Utility oil	0.4 cbm.
Grease	400 kgr.

Ammo expenditure report: 8-12 January:

Pistol cartridges (S.K)	4,500 rds.
Pistol cartridges (7.65 MM.)	200 rds.
Flare cartridges (type 41)	20 rds.
Signal cartridges (red)	10 rds.
Signal cartridges (green)	10 rds.
Smoke cartridges (orange)	--

Urgent need for repaired tank and for salvage missions:

OTTO (required):

1 Abt	10 cbm.
501 (Hy Tiger Bn)	8 cbm.
DIESEL (required).	
1 SS PGR	3 cbm.

Per Order: GRUHLE (Hstuf. Adju. SS PZ Regt 1)."

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2. Requisitions -

Early in November 1944, when 15 PZ Grenadier Div was engaged north of Aachen, a CIRO-PEARL message of supply interest from Div Abt V (supply and motor transport) to Div Ib (supply) stated the need for priority repairs as follows:

- 109 M/C sidecars - for a PZ Gren Regt
- 153 Volkswagen - for Volkswagen Kp.
- 70 Light MT
- 13 Half-track ambulances
- 70 3-ton half-track trucks
- 40 3-ton prime movers
- 10 8-ton prime movers
- 4 18-ton prime movers
- 1 Special Trailer (type 24)
- 6 Power units - 7.5 KVA
- 1 Power unit - 220/65/4.5/1.3 KW.

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UNIT CP LOCATIONS DERIVED FROM  
CIRO-PEARL INTELLIGENCE

UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
9 SS Pz Div	CHAU DE BOIS ANDREDET	T 92	15/8/44	26/8/44
10 SS Pz Div	ETREJOURNEAU	U 01	18/8	26/8
II SS Pz Korps	LA BOUILLE	M 00	24/8	26/8
II/Warfer Regt 1	MALLEVILLE (sur le Bec)	Q 99	24/8	26/8
SS PGR 3/ 2 SS Pz Div	ELBEUF	M 19	24/8	26/8
SS PGR 4/ 2 SS Pz Div	FORET D'ELBEUF	M 19	24/8	26/8
SS Pz AR 2/ 2 SS Pz Div	BOSC-ROGER	M 09	24/8	26/8
Pz LEHR Div	FERE EN TARDENOIS	S 97	26/8	28/8
Ammo dump/ 9 Pz Div	VILLERS COTTERETS	S 68	28/8	28/8
Div Id/ 9 Pz Div	NEULLY	S 77	28/8	28/8
Schn. Apt 509/ 9 Pz Div	VILLEVAUDE	S 24	26/8	29/8
Unid Pan	CHEVREGNEY	N 90	29/8	29/8
Regt von GLASSOW/ 9 Pz Div	N. VILLERS COTTERETS	S 68	28/8	30/8
Flak Bn 311/ Pz LEHR Div	AVIOTH	P 31	29/8	30/8
Div Id/ Pz LEHR Div	MONTIGNY	U 19	29/8	30/8
Mag Center/ Pz LEHR Div	VERDUN	U 26	30/8	30/8
Pz AA 130/ Pz LEHR Div	CHALONS	T 54	28/8	31/8
Elt/ 9 Pz Div	BARENTON CEL	O 02	30/8	31/8

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Div Ib/ Pz LEHR Div	CHATEAU JOUAINES	S 98	27/8	1/9
Air Force Fuel Depot	ST. JUST EN CHAUSSE	N 22	29/8	2/9
2 SS Pz Div	BEAUVAIS	K 52	30/8	2/9
SS Pz AA 2/ 2 SS Pz Div	FOUQUEROLLES	N 00	30/8	2/9
Supply Depot/ 2 SS Pz Div	CAMBRAI	N 78	30/8	2/9
2 SS Pz Div	CELLES	P 08	4/9	6/9
Div Ib/ 2 SS Pz Div	TILLET	K 42	4/9	6/9
Wirtschaft Bn/ 2 SS Pz Div	NEUFCHATEAU	K 63	4/9	6/9
Mag Center/ 2 SS Pz Div	CELLES	P 08	4/9	6/9
SS FGR 4/ 2 SS Pz Div	MONT GAUTHIER	P 18	7/9	8/9
SS Pz AA 2/ 2 SS Pz Div	CHATEAU TAVIET	P 08	7/9	8/9
2 SS Pz Div	XHORIS	K 40	7/9	8/9
SS Flak Bpt 2/ 2 SS Pz Div	GROS CHENE	P 39	7/9	8/9
KG MILIUS/ 2 SS Pz Div	PAIR	K 30	7/9	8/9
1 SS Pz Div	AYE	P 28	7/9	8/9
Regt/ 2 SS Pz Div	DEUAIN	K 61	7/9	9/9
SS FGR 3/ 2 SS Pz Div	CHARDENEUX	P 39	8/9	11/9
Div Ib/ 2 SS Pz Div	ROETGEN	K 92	8/9	11/9
Wirtschaft Bn/ 2 SS Pz Div	HOFFELD	L 39	10/9	11/9
Bn/ 2 SS Pz Div	BASSE BODEU	P 69	10/9	11/9

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Unid elt/ 2 SS Pz Div	GRANDMENIL	P 59	8/9	11/9
Troops II/ 2 SS Pz Div	ALSOMONT	P 79	10/9	12/9
Repair echelon/ 2 SS Pz Div	EUSKIRCHEN	F 33	10/9	12/9
2 SS Pz Div	HOFFELD	L 39	10/9	12/9
Mag Center/ 2 SS Pz Div	HARRE	P 59	11/9	12/9
SS Pz AA 2/ 2 SS Pz Div	WALLERODE	P 89	12/9	12/9
1 SS Pz Div	DOCHAMPS	P 48	9/9	13/9
SS PGR 3/ 2 SS Pz Div	MANDERFELD	L 09	12/9	13/9
Bn/ 2 SS Pz Div	BELLEVAUX	K 70	12/9	13/9
Repair echelon/ 2 SS Pz Div	LEIMBACH	F 50	13/9	13/9
Div Troops/ 2 SS Pz Div	OBERHERSDORF	L 17	13/9	13/9
Bn/ 2 SS Pz Div	AYWAILLE	K 50	9/9	14/9
2 SS Pz Div	MANDERFELD	L 09	12/9	14/9
SS PGR 3/ 2 SS Pz Div	WIRTZFELD	K 90	12/9	14/9
SS PGR 4/ 2 SS Pz Div	HOLZHEIM	P 99	12/9	14/9
Bn/ 2 SS Pz Div	KLEINLANGENFELD	P 98	13/9	14/9
Assembly Area/ 2 SS Pz Div	MUELLENBORN	L 28	12/9	15/9
Mag Center/ 2 SS Pz Div	MANDESCHIED	L 36	12/9	15/9

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
SS Pz AR 2/ 2 SS Pz Div	ORMOND	L 09	13/9	15/9
Signal Column/ 2 SS Pz Div	LOMMERSUM	F 33	13/9	15/9
Mag Center/ 2 SS Pz Div	FRUEN	L 07	13/9	15/9
ares HVP	FRUEN	L 07	13/9	15/9
SS FGR 4/ 2 SS Pz Div	OBERRUENFELD	F 97	15/9	16/9
SS Pz Bn 2/ 2 SS Pz Div	ROMMERSHEIM	L 07	15/9	16/9
Regt/ 2 SS Pz Div	WEIDINGEN	L 06	15/9	16/9
Div Ib/ 2 SS Pz Div	DUPPACH	L 18	15/9	16/9
Wirtschaft Bn/ 2 SS Pz Div	MAYEN	L 69	15/9	17/9
Div Tross/ 2 SS Pz Div	BARWEILER	L 39	15/9	17/9
Pz Jg Abt 33/ 15 FG Div	SIONVILLERS	Q 10	15/9	20/9
15 FG Div	FORET DE PARROY	Q 10	15/9	20/9
1/ FGR 104, Nachr Abt 33, Pz Abt 33/ 15 FG Div	REMONCOURT	Q 20	15/9	20/9
Unit elts/ 553 Inf	REMERVILLER	Q 01	15/9	20/9
Supply echelon/ 15 FG Div	REBING	Q 41	15/9	22/9
Div Supply/ 15 FG Div	LUETZELBERG	Q 60	15/9	24/9
15 FG Div	SIONVILLERS	Q 10	15/9	24/9
15 FG Div	LANEUVILLE	Q 03	20/9	26/9

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Mag Center/ 15 FG Div	SMARBRUECKEN	Q 47	20/9	26/9
FGH 110/ 11 Pz Div	MARSAL	Q 12	25/9	27/9
Abt/ Pz AR 119/ 11 Pz Div	MAIZIERES	Q 21	25/9	27/9
Abt/ Pz AR 119/ 11 Pz Div	MAMPONT	Q 12	26/9	27/9
Supply Point/ 2 SS Pz Div	BOBENLSEHEIM	L 07	26/9	27/9
11 Pz Div	OMERAY	Q 21	27/9	30/9
Bn/ 11 Pz Div	PARROY	Q 11	27/9	1/10
SS Pz AA 2/ 2 SS Pz Div	ZERPMUELLEN	L 48	29/9	2/10
FEB/ 15 P G Div	WASSELNHEIM	Q 70	2/10	5/10
Mag Center/ 15 FG Div	ZABERN	Q 71	2/10	5/10
SS Pz AA 2/ 2 SS Pz Div	ADENAU	L 49	4/10	5/10
III Bn/ 2 SS Pz Div	DRUIS	L 39	14/10	20/10
6, 7/ 2 SS Pz Div	ZILSDORF	L 28	14/10	20/10
13, 14/ Tross II/ 2 SS Pz Div	NEROTH	L 27	14/10	20/10
Regt/ 2 SS Pz Div	BEFLINGEN	L 28	14/10	20/10
III Bn HQ/ 2 SS Pz Div	DOCKWELLER	L 38	14/10	20/10
11 Co, Rep. & Refuel- ing echelon/ 2 SS Pz Div	KIRCHWEILER	L 28	14/10	20/10

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Pz AR 146/ 116 Pz Div	BERICH	F 05	20/10	23/10
I/ Pz AR 146/ 116 Pz Div	NIEDEREMBT	F 16	22/10	24/10
Pz AR 146/ 116 Pz Div	KITZWEILER	F 15	25/10	27/10
HQ Pz Bn/ 15 Pz Div	BAARLO	E 86	8/11	12/11
Pz Bn/ 15 Pz Div	HUENDE	A 33	8/11	12/11
Repair echelon/ 11 Pz Div	NELLINGEN	Q 34	11/11	13/11
Fuel depot/ 116 Pz Div	GIEFFELSBERG	F 25	15/11	16/11
Div Bn/ 11 Pz Div	HOLVINGEN	Q 44	15/11	17/11
Pz AA 11/ 11 Pz Div	WALLERINGEN	Q 23	17/11	19/11
Regt/ 11 Pz Div	RICHELING	Q 44	23/11	25/11
II Bn/ 11 Pz Div	GRUNDWILLER	Q 44	23/11	25/11
Pz Jg Bpt 61/ 11 Pz Div	HERBITZHEIM	Q 54	23/11	26/11
I Bn/ 11 Pz Div	RICHELING	Q 44	23/11	27/11
10 SS Pz Div	KLEINBOUSLAR	F 07	24/11	27/11
Tross/ 10 SS Pz Div	BELLINGHOFEN	F 07	25/11	27/11
Msg Center/ 10 SS Pz Div	HALBERG	F 64	25/11	27/11
Regt/ 10 SS Pz Div	CASTLE RURICH	K 96	25/11	27/11
SS Nachr Bpt 10/ 10 SS Pz Div	RURLO	A 08	25/11	27/11
Div Bn/ 10 SS Pz Div	OTZENRATH	F 17	26/11	27/11

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Ammo dump/ 10 SS Pz Div	GUSTORF/ NEUNHAUSEN	F 17	26/11	27/11
HQ CORPS Chief Engr.	KATZEM	F 07	25/11	28/11
SS PGR 21/ 10 SS Pz Div	PESCH	F 18	26/11	29/11
Mag Center/ 10 SS Pz Div	BRACHELEN	K 96	30/11	3/12
Regt/ 10 SS Pz Div	LINNICH	K 96	1/12	3/12
MP Det 33/ 15 PG Div	KLEIN-GLADBACH	K 97	2/12	5/12
Bn/ Pz LEHR Div	LAUBACH	Q 93	3/12	5/12
Pz AA 130/ Pz Lehr Div	LAUBACH	Q 93	5/12	5/12
Div Ib/ Pz LEHR Div	RHEINHEIM	Q 56	5/12	7/12
Mag Center/ Pz LEHR Div	ALF	L 56	5/12	7/12
341 Sturmgesch. Brig.	ARNOLDSWEILER	F 14	6/12	7/12
PGR 110/ 11 Pz Div	BIESINGEN	Q 66	5/12	9/12
I/ PGR 110/ 11 Pz Div	SINGLINGEN	Q 64	5/12	9/12
Combat school/ 15 PG Div	GELLUP	A 20	6/12	9/12
HQ FEB/ 15 PG Div	LANKLATUM	A 20	6/12	9/12
I/ SS PGR 21/ 10 SS Pz Div	WICKRATH	F 08	8/12	14/12
Mag Center/ 10 SS Pz Div	WEILERHOEFE	F 18	12/12	15/12

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Army Vehicle Park	SUTPHEN	R 22	12/12	15/12
Msg Center/ 10 SS Pz Div	MANNHEIM	F 15	15/12	17/12
SS Pz M Bn 10/ 10 SS Pz Div	BLATZHEIM	F 25	15/12	17/12
SS Pz AA 10/ 10 SS Div	TUERNICH	F 35	15/12	17/12
Army HQ	DORMUND	A 72	16/12	19/12
Gen Hqo VI AK. Aht II	MUENSTER	A 97	16/12	19/12
Repair echelon/ 10 SS Pz Div	WOLFSITTARD	F 08	16/12	19/12
SS Nachr Aht 10/ 10 SS Pz Div	TUERNICH	F 35	16/12	19/12
Pz Gren B's u Ausb Regt 16/ Wkr VI	ISERLOHN	A 90	16/12	19/12
Pz Bn 4/ Wkr VI	ISERLOHN	A 90	16/12	19/12
Pz Gren B's u Ausb Bn 361/ Wkr VI	WUPPERTAL	F 59	16/12	19/12
Pz Gren B's Bn 61,367	WUPPERTAL	F 59	16/12	19/12
Bn/ Pz LEHR Div	NAHLAU	P 85	17/12	20/12
Div Sig Offr/ 10 SS Pz Div	GREVENBROICH	F 17	17/12	21/12
Wirtschaft Bn/ 10 SS Pz Div	LUERRIP	F 08	18/12	21/12
GHQ M/T Park	BONN	F 53	18/12	21/12
Pz LEHR Div	CHATEAU LOSANGE	P 55	22/12	24/12
Div Id/ Pz LEHR Div	DRAUFFELD	P 75	23/12	24/12

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Evacuation Area PGR 60/116 Pz Div	GIELLE	P 48	23/12	26/12
Forward CP/ 116 Pz Div	SAMREE	P 58	23/12	26/12
Div Id/ 12 SS Pz Div	HOLZHEIM	P 99	24/12	26/12
Div Id/ Pz LEHR Div	GIVROULLE	P 46	24/12	26/12
Abt/ 26 VG Div	HINTERHASSEL	P 68	28/12	30/12
Div Id/ Pz LEHR Div	HERWIGAL	P 46	28/12	30/12
Ammo dump/ Pz LEHR Div	DERENBACH	P 65	28/12	30/12
SS PGR 1/ 1 SS Pz Div	TARCHAMPS	P 65	3/1/45	5/1/45
Div Id/ Pz LEHR Div	ULFLINGEN	P 77	7/1	10/1
Supply echelon/ Pz LEHR Div	MUNSHAUSEN	P 76	8/1	11/1
Pz LEHR Div	LAVACHERIE	P 46	8/1	11/1
Army ammo dump	STEIN	P 36	8/1	12/1
Div Id/ 12 SS Pz Div	GRILIG	P 77	10/1	13/1
SS PGR 25/ 12 SS Pz Div	DEIFELD	P 77	10/1	13/1
SS Pl Bn 12/ 12 SS Pz Div	DEIFELD	P 77	10/1	13/1
Pz LEHR Div	GENS	P 46	10/1	13/1
CORPS	STEINBACH	P 67	10/1	13/1
Supply Dump/ 12 SS Pz Div	WIBRIN	P 57	10/1	14/1

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
12 SS Pz Div	DEIFELD	P 74	12/1	15/1
Pz AA 130/ Pz LEHR Div	MONT	P 57	14/1	15/1
REHMER Brig	ALLERBORN	P 66	16/1	19/1
Heeres Pz Bn 207	MAULUSMUEHLE	P 76	17/1	19/1
Fuel dump/ Pz LEHR Div	MAIZERATH	L 07	17/1	19/1
BUKO 2/ Pz LEHR Div	HOLDINGEN	P 77	17/1	19/1
Bn/ Pz LEHR Div	BURET	P 96	17/1	19/1
Div Ia/ Pz LEHR Div	WEILER	P 76	17/1	19/1
Pz Pz Bn 130/ Pz LEHR Div	LEHRESMUEHLE	P 76	17/1	19/1
GR 901/ Pz LEHR Div	WANDERBOURCY	P 66	17/1	19/1
GR 902/ Pz LEHR Div	TAVIGNY	P 66	17/1	19/1
1/ Pz Bn 130/ Pz LEHR Div	LAMERSCHER	P 77	17/1	19/1
3/ Pz Bn 130/ Pz LEHR Div	WEISWAMPACH	P 87	17/1	19/1
Div Ic/ Pz LEHR Div	WEILER	P 76	17/1	19/1
Ammo dump	WILWERDINGEN	P 77	17/1	19/1
Pz LEHR Div	DRINKLINGEN	P 77	19/1	20/1
I SS Pz Corps	STOLZEMBURG	P 85	19/1	20/1
XIII A K	WEINSHEIM	L 08	19/1	20/1
Pz LEHR Div	FUENFERUNNEN	P 76	19/1	21/1
Supply base/ Pz LEHR Div	WEISWAMPACH	P 87	19/1	21/1

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE	
PGR 902/ Pz LEHR Div	HOSINGEN	P 85	20/1	22/1	
Pz Regt 130/ Pz LEHR Div	HICKENDORF	L 16	20/1	22/1	
Tross/ Pz LEHR Div	ARZFELD	P 96	20/1	22/1	
Unid Bn/ Pz LEHR Div	HINSFELD	P 77	20/1	22/1	
ammo dump	BEILER	P 87	20/1	22/1	
Beeres HVP	KALBORN	P 86	20/1	22/1	
Fuel dump/ XII AK	SCHMIDHEIM	F 10	20/1	22/1	
I SS Pz Korps	OBERGECKLAR	P 95	21/1	24/1	
Pz LEHR Div	BREITFELD	P 87	21/1	24/1	
Msg Center/ Pz LEHR Div	HOSINGEN	P 85	21/1	24/1	
Msg Center/ Pz LEHR Div	KODINA	HEINERSCHIED	P 86	21/1	24/1
Pz LEHR Div	OBERRISENBACH	P 85	22/1	24/1	
Pz AA 130/ Pz LEHR Div	RODER	P 86	22/1	24/1	
PGR 902, Pz Pi Bn 130/ Pz LEHR Div	HOSCHELDERDICKT	P 85	23/1	24/1	
Equipment depot/ Pz LEHR Div	SUMMERIN	L 23	21/1	25/1	
Regt 36/ 9 VG Div	FUTSCHEID	P 85	23/1	25/1	
Repair shops/ Pz LEHR Div	RHEINBOELLEN ILLERICH	L 95 L 67	25/1	27/1	
III/ Pz AR 146/ 116 Pz Div	BUSKIRCHEN	F 33	27/1	30/1	
Msg Center/ 116 Pz Div	IVERSHEIM	F 32	27/1	30/1	

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UNIT CP	LOCATION	MAP REF	TEST DATE	REPORT DATE
Mag Center/ 116 Pz Div	MEDELHOFEN	L 39	27/1	30/1
Regt/ 116 Pz Div	BORLER	L 39	27/1	30/1
HQ, 8, 9 Btries/ Pz AR 146/ 116 Pz Div	STADTKYLL	L 15	28/1	31/1
Pz LEHR Div	HICKENDORF	L 16	30/1	2/2
II/ Pz LEHR Div	UETTFELD	P 97	30/1	2/2
Pz PI Bn 130/ Pz LEHR Div	RITTERSDORF	L 15	31/1	2/2
Pz AR 146/ 116 Pz Div	HAGENBROICH	A 00	3/2	4/2
I/ PGR 901/ Pz LEHR Div	RUEBER	L 78	4/2	7/2
Army Ord Depot	WAHN	F 55	5/2	7/2
Army ammo dump	KOENIGSFORST	F 55	4/2	14/2
Art/ 116 Pz Div	HELENABRUNN	F 09	25/2	27/2
II Bn/ 9 Pz Div	KIRCHTROLSDORF	F 16	26/2	1/3
PGR 10/ 9 Pz Div	NIEDEREMBT	F 16	26/2	1/3
Ammo & fuel dump/ 9 Pz Div	MENGENICH-NUESSENBERG	F 36	27/2	1/3
Div Id/ 9 Pz Div	MANSTEDTEN	F 36	27/2	1/3
III/ PGR 11/ 9 Pz Div	ZIEVERICH	F 26	28/2	1/3
Repair echelon/ 116 Pz Div	GRUITEN	F 49	28/2	1/3
Tross/ Pz AR 146/ 116 Pz Div	WEENDICK	A 13	1/3	2/3
9 Pz Div	ROMMERSKIRCHEN	F 27	3/3	8/3

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Ammo dump/ 116 Pz Div	DORSTEN	A 44	8/3	10/3
Pz Gren Aufb Bn 61/ Wkr VI	PIVITSCHHEIDE	B 77	12/3	13/3
Btries 4, 5, 6/ Pz AR 146/ 116 Pz Div	HAMMINKELN	A 24	13/3	13/3
Mag Center/ 116 Pz Div	VARSEFELD	A 17	12/3	14/3
II/ Pz AR 146/ 116 Pz Div	ZELLEHIM	A 07	14/3	16/3
276 VG Div	HEIENS	L 98	16/3	19/3
Unid elt/ 2 Pz Div	OBERAFFERBACH	N 05	25/3	29/3
FOR 2/ 2 Pz Div	PFÄFFENWIESBACH	M 69	25/3	29/3
Regt/ 2 Pz Div	EFFENHAIN	M 47	25/3	29/3
Mag Center/ 2 Pz Div	SCHOELLKROFFEN	N 06	25/3	29/3
Regt/ 2 Pz Div	ZIEFFENRIESBACH	M 69	26/3	29/3
2 Pz Div	HERBSTEIN	H 11	27/3	29/3
Mag Center/ 2 Pz Div	HAUSERHOF	G 80	28/3	29/3
Repair echelon/ 116 Pz Div	LUENEN	A 83	29/3	29/3
Div Id/ 116 Pz Div	LEVRINGHAUSEN	A 73	31/3	31/3
116 Pz Div	VENNEMAN	A 73	31/3	1/4
Mag Center/ 116 Pz Div	MELLE	W 48	31/3	1/4
Unid elt/ 2 Pz Div	KOETHEN	N 49	4/4	10/4
Unid elt/ 2 Pz Div	SCHWEINSHAUPPEN	O 08	8/4	10/4
Unid elt/ 2 Pz Div	VIERST	O 97	14/4	15/4

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UNIT CP	LOCATION	MAP REF	TEXT DATE	REPORT DATE
Divid elt/ 2 Pz Div	SCHOENHAID	P 25	15/4	17/4
Div Ia/ 2 Pz Div	GROSSCHLOPPEN	P 07	15/4	17/4
Supply echelon/ 2 Pz Div	OBERSANDAU	P 46	16/4	17/4
Div Ib/ 2 Pz Div	ROETHENBACH	P 17	16/4	17/4
Divid elt/ 2 Pz Div	BERGNEERSREUTH	P 17	16/4	17/4
Pz Regt 3/ 2 Pz Div	SCHOENHAID	P 25	16/4	17/4
2 Pz Div	RUEGERSGRUEN	P 07	17/4	18/4
Wirtschaft Bn/ 2 Pz Div	ROETZ	U 49	18/4	19/4
Sig Column/ 2 Pz Div	OBERSANDAU	P 46	18/4	19/4
Div Ia/ 2 Pz Div	PLATZERMUEHL	P 36	21/4	24/4
FEB/ 2 Pz Div	ROSALL	P 35	21/4	24/4
Rear Elt/ 2 Pz Div	SCHMOGRO	A 35	21/4	24/4
FEB/ 10 SS Pz Div	KLEIN-HERESDORF	F 47	23/4	24/4
IIa Staffel/ 10 SS Pz Div	LANGENEHNERSDORF	F 47	23/4	25/4
Ib/ XIII AK	GROSS KISSENDORF	X 88	23/4	26/4
Div Ia/ 2 Pz Div	UNTERLINDAU	P 37	23/4	26/4
KG MONSCHAU/ 2 Pz Div	FONSAU	P 38	23/4	26/4
Ammo dump	OSTBAHNOFULTM	X 68	24/4	26/4
II/ SS Pz AR 17/ 17 SS FG Div	MUENHINGENHAUSEN	T 84	25/4	26/4
SS Pz AR 17/ 17 SS FG Div	DOERNDORF	T 74	25/4	27/4
III/ SS Div NIBELUNGEN	SIEGENBURG	U 02	25/4	27/4
IV/ SS AR 38/ Div NIBELUNGEN	THANN	Z 19	30/4	2/5

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