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12	1	68	NPIC						31										

TITLE NPIC  
R-218/66 PART 5 16 Nov. 1966

SEC 5

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16 Nov 1966

SEC. 2

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[REDACTED]

This is the fifth group of items disseminated as part of NPIC/R-218/66, Southeast Asia, Activity Report, POL Facilities, North Vietnam. Forty items are included in this portion of the report, 33 newly reported sites and 7 updated items. The updated items are as follows:

Nguyen Khe Petroleum Products Storage, A9, A10, X-A9, X-A10;  
Duong Nham Petroleum Products Storage, A17, A18, X-A17;  
Vinh Petroleum Products Storage, A23, A24, X-A23, X-A24;  
Bai Thuong Petroleum Products Storage UG Southeast, B11, B12, X-B11;  
Yen Hieu Petroleum Products Storage PUG, B21, B22, X-B21;  
Phuc Yen Airfield POL Storage Area 1, B55, B56, X-B55; and  
Thuan Le POL Storage Area, B69, B70, X-B69.

Each new or updated page carries the date of the covering memo directly under the NPIC report number. NPIC will continue to disseminate new and updated items on a continuing basis as photography becomes available.

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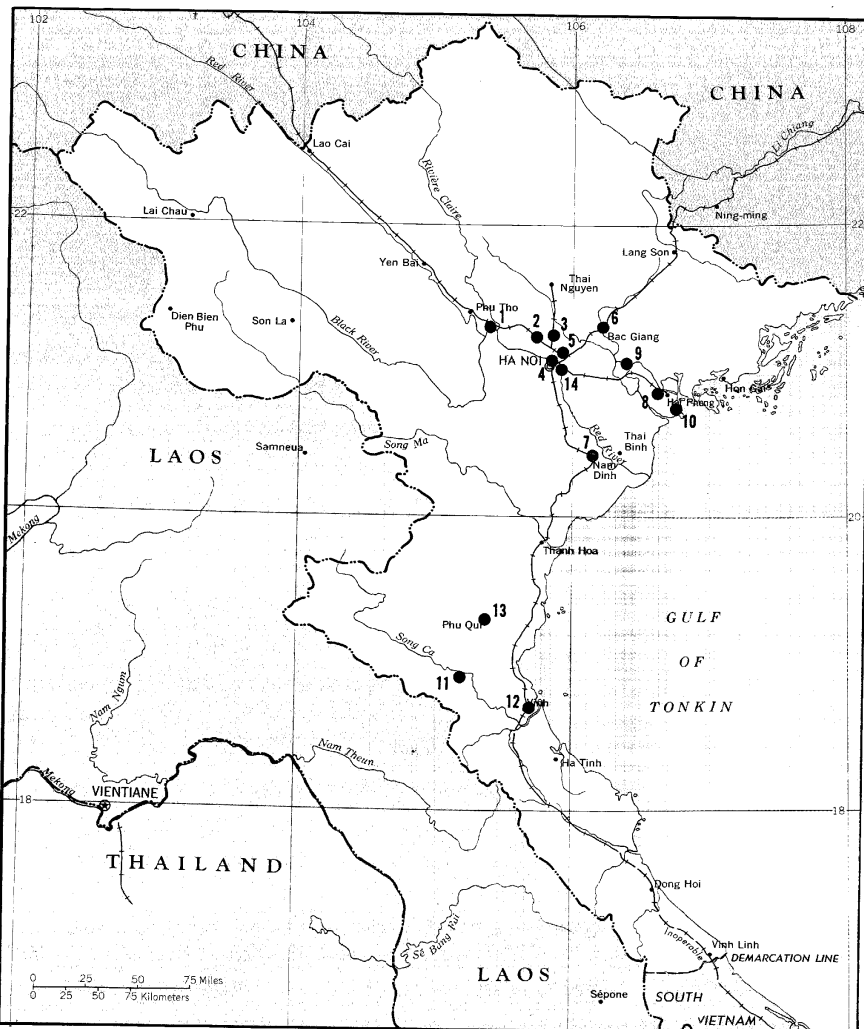
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16 NOVEMBER 1966

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# KEY TO CATEGORY A

## PERMANENT STORAGE AND HANDLING AREAS

1. Viet Tri Petroleum Products Storage
2. Phuc Yen Airfield POL Storage Area
3. Phuc Yen Petroleum Products Storage NNE UG
4. Ha Noi Petroleum Products Storage Thanh Am
5. Nguyen Khe Petroleum Products Storage
6. Bac Giang Petroleum Products Storage
7. Nam Dinh Petroleum Products Storage
8. Hai Phong Petroleum Products Storage
9. Duong Nham Petroleum Products Storage
10. Do Son Petroleum Storage
11. Phu Van POL Storage
12. Vinh Petroleum Products Storage
13. Phu Qui Petroleum Products Storage
14. Ha Noi/Gia Lam Airfield POL Storage Area

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	WJ453547 UTM COORDINATES	2117N 10526E GEOGRAPHIC COORDINATES
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NAME: VIET TRI PETROLEUM PRODUCTS STORAGE

LOCATION: IMMEDIATELY SOUTH OF VIET TRI, AT THE CONFLUENCE OF THE RED AND CLARE RIVERS, 28 NM NW OF HA NOI.

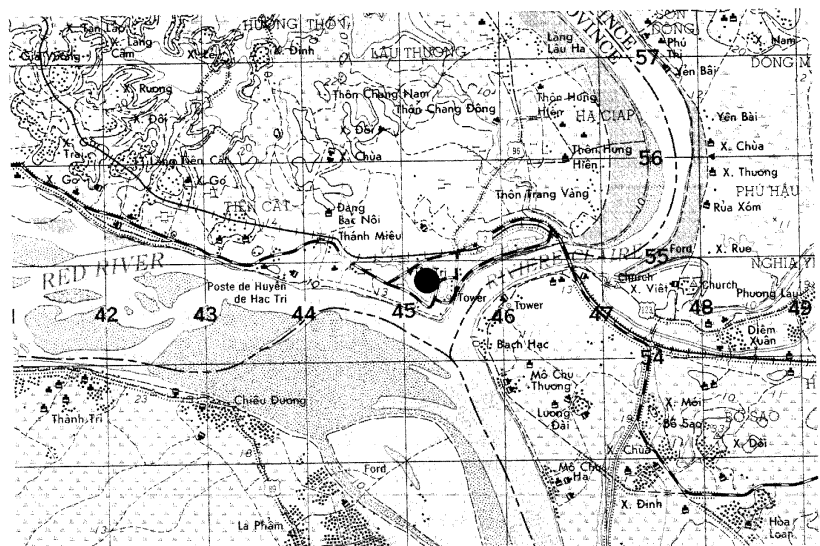
DESCRIPTION: PRIOR TO FIRST STRIKE FACILITY CONTAINED 3 ABOVEGROUND MEDIUM CYLINDRICAL TANKS, 2 UNDERGROUND TANKS, AND 4 HORIZONTAL SERVICE TANKS. PHOTOGRAPHY AFTER SECOND STRIKE REVEALS 2 DESTROYED AND 2 DAMAGED SERVICE TANKS, DISRUPTED ABOVEGROUND PIPING, AND SEVERELY DAMAGED PUMPHOUSE. APPROXIMATELY 800 DRUMS ARE AT DRUM TRANSSHIPMENT AREA.

ESTIMATED CAPACITY: TANK 1,570 TANK (EXCLUSIVE OF UNDERGROUND TANKS)  
DRUM 160 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6074 I, 1ST ED, JUN 65 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

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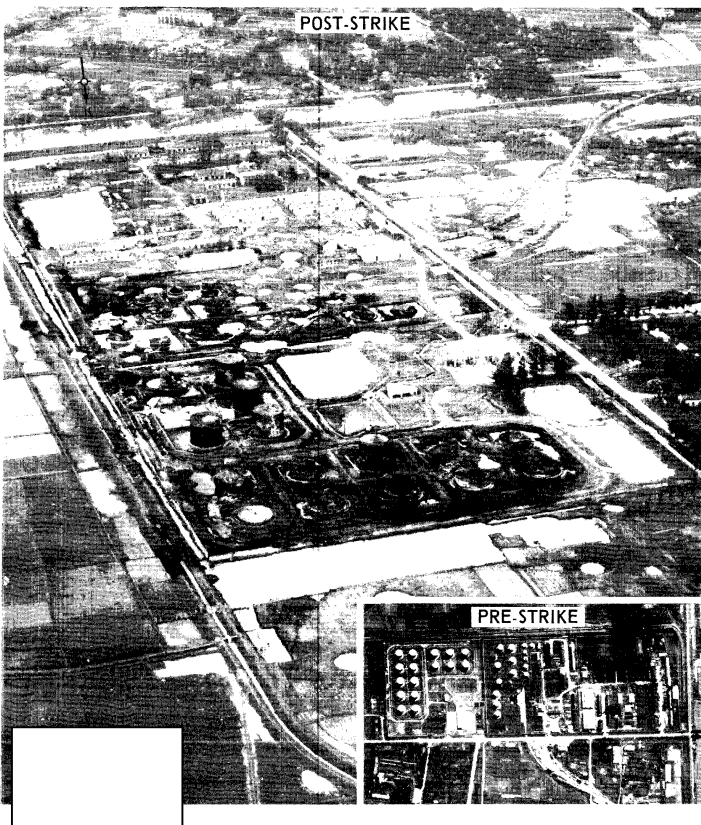
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27 September 1966

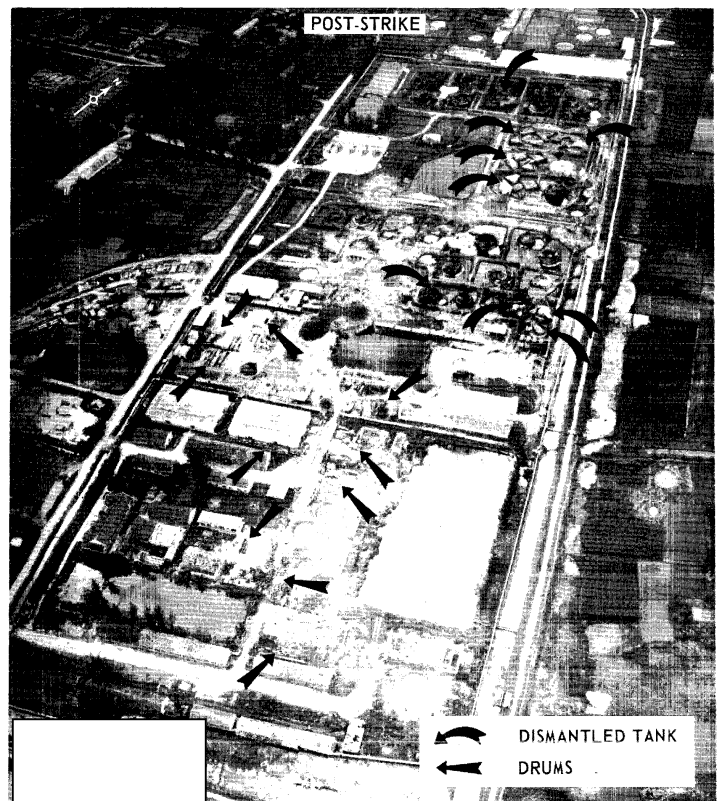
WJ932294  
UTM COORDINATES

HA NOI PETROLEUM PRODUCTS STORAGE THANH AM

2103N 10553E  
GEOGRAPHIC COORDINATES



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16 November 1966

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	WJ892408	2110N 10551E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

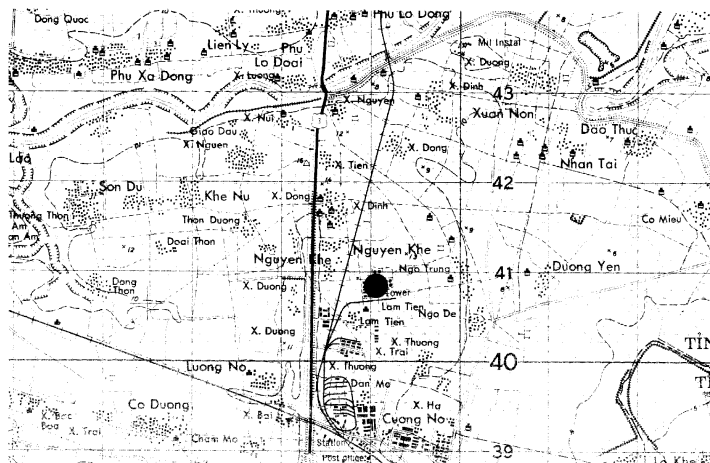
**LOCATION:** 0.4 NM SE OF NGUYEN KHE AND 8.3 NM NORTH OF HA NOI

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**MAP REFERENCES:** AMS SERIES L7014, SHEET 6151 II, 1ST ED, 1964 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-11, 1ST ED, JUN 65 (U)

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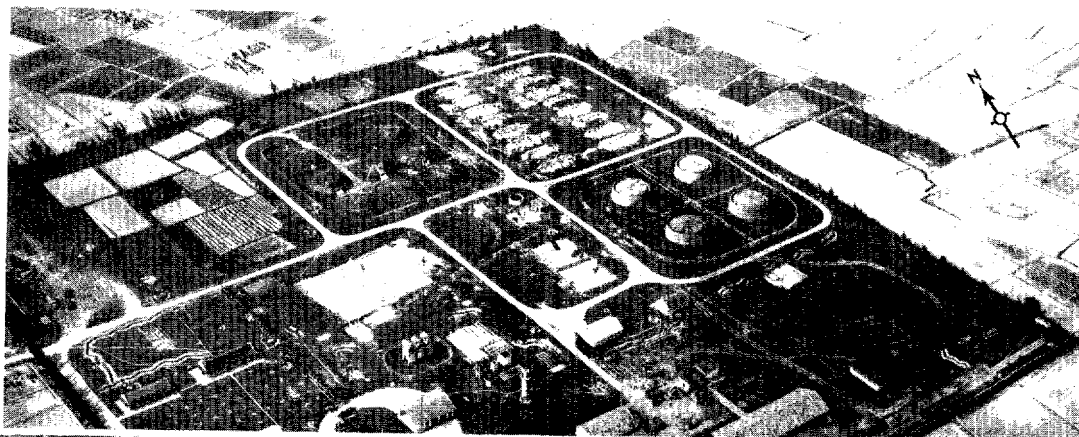
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16 November 1966

WJ892408  
UTM COORDINATES

NGUYEN KHE PETROLEUM PRODUCTS STORAGE

2110N 10551E  
GEOGRAPHIC COORDINATES



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	XJ243518 UTM COORDINATES	2116N 10611E GEOGRAPHIC COORDINATES
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**NAME:** BAC GIANG PETROLEUM PRODUCTS STORAGE

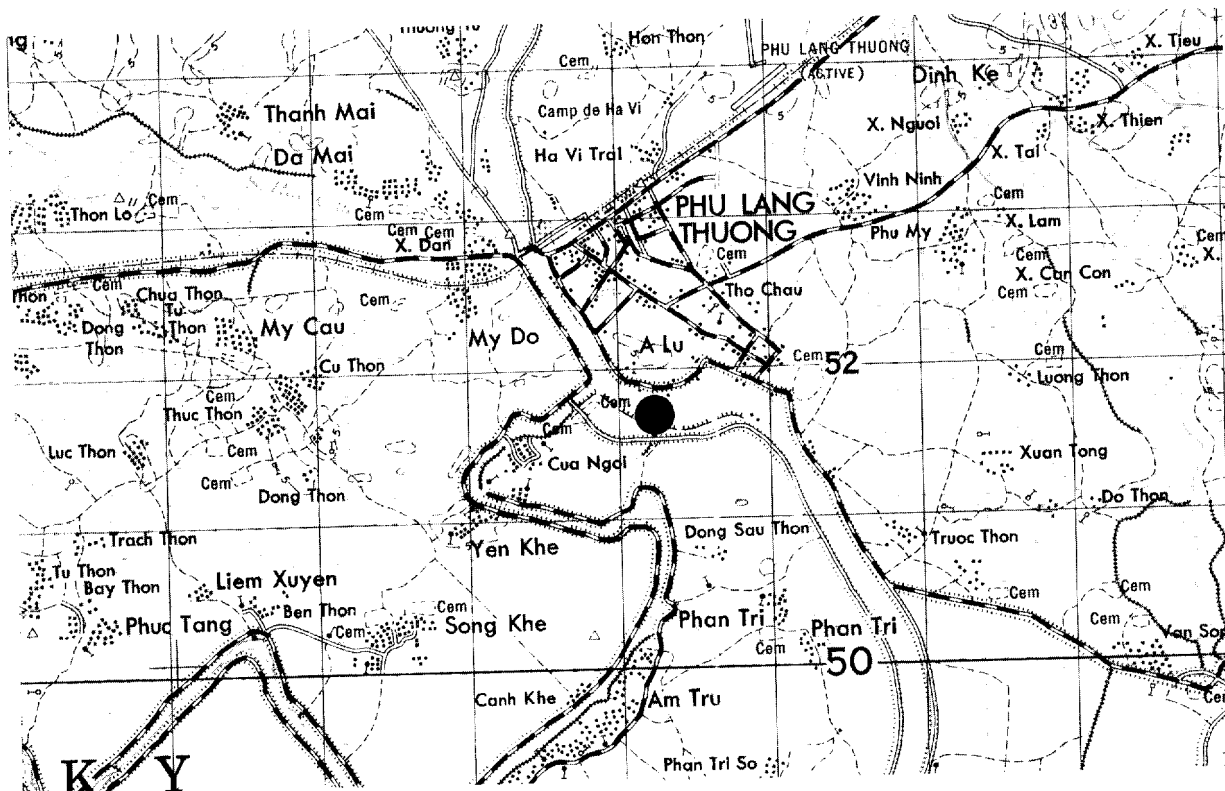
**LOCATION:** SOUTH EDGE OF BAC GIANG ON NORTH BANK OF THE SONG THUONG (RIVER)

**DESCRIPTION:** PRE-STRIKE PHOTOGRAPHY REVEALS 1 LARGE AND 3 MEDIUM VERTICAL, 4 SERVICE, AND 2 CYLINDRICAL UNDERGROUND TANKS. POST-STRIKE PHOTOGRAPHY REVEALS 1 LARGE AND 1 MEDIUM VERTICAL UNDAMAGED, 2 MEDIUM VERTICAL DESTROYED, 2 SERVICE DAMAGED, AND 2 SERVICE TANKS DESTROYED. TWENTY-SEVEN BURIED AND 3 UNBURIED TANKS JUST NORTH OF THE RAIL SPUR SERVICING THE FACILITY AND APPROXIMATELY 200 DRUMS ARE ALSO OBSERVED IN THE FACILITY.

**ESTIMATED CAPACITY:** PRE-STRIKE TANK 2,690 MT, POST-STRIKE TANK 1,860 MT  
DRUM 40 MT

**MAP REFERENCES:** AMS SERIES L701, SHEET 6274-IV, 3D ED, DEC 59 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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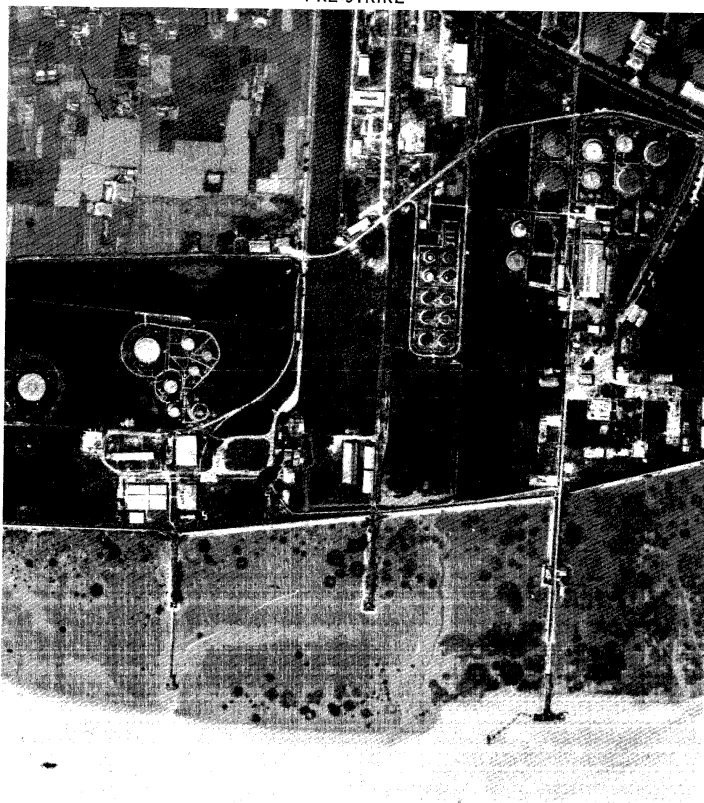
R-218/66

XJ730087  
UTM COORDINATES

HAI PHONG PETROLEUM PRODUCTS STORAGE

2052N 10639E  
GEOGRAPHIC COORDINATES

PRE-STRIKE



POST-STRIKE



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	XJ572260 UTM COORDINATES	2101N 10630E GEOGRAPHIC COORDINATES
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NAME: DUONG NHAM PETROLEUM PRODUCTS STORAGE

LOCATION: 0.4 NM NORTH OF DUONG NHAM AND 14.5 NM NW OF HAI PHONG

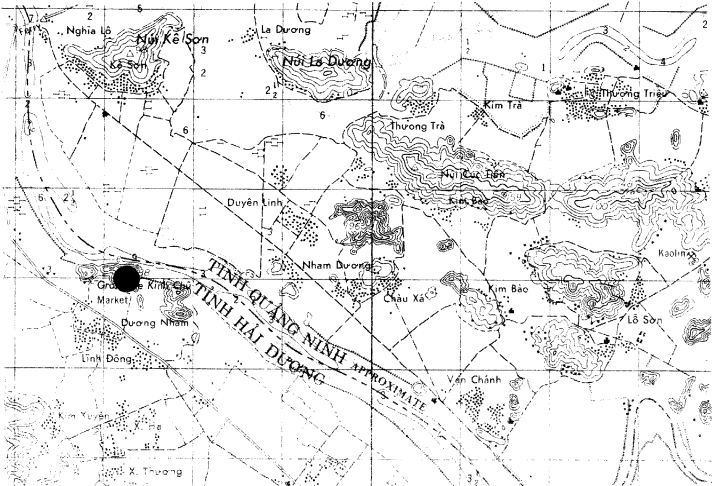
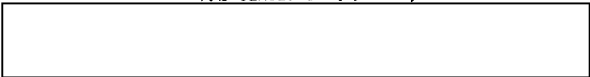
DESCRIPTION: PRE-STRIKE PHOTOGRAPHY REVEALS 4 VERTICAL ABOVEGROUND POL STORAGE TANKS, EACH WITH U-SHAPED PROTECTION WALL, AND 3 TANK BASES. PHOTOGRAPHY OF [REDACTED] REVEALS ALL 4 TANKS DESTROYED. APPROXIMATELY 80 DRUMS ARE APPARENT AT THE SITE.

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ESTIMATED CAPACITY: PRE-STRIKE TANK 4,920 MT, POST-STRIKE TANK NONE  
DRUM 16 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6374 III, 1ST ED, APR 65 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-12, 1ST ED, JUN 65 (U)

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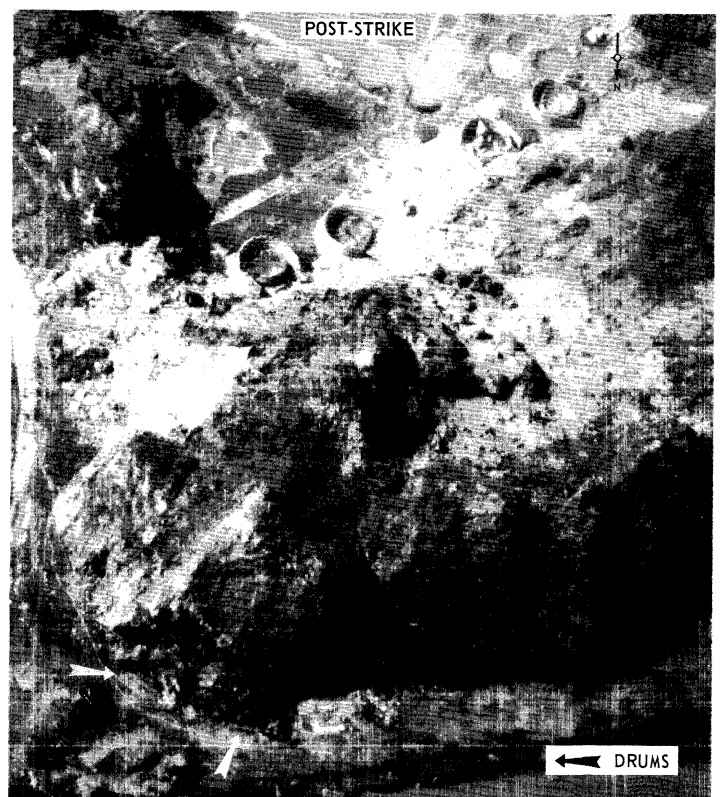
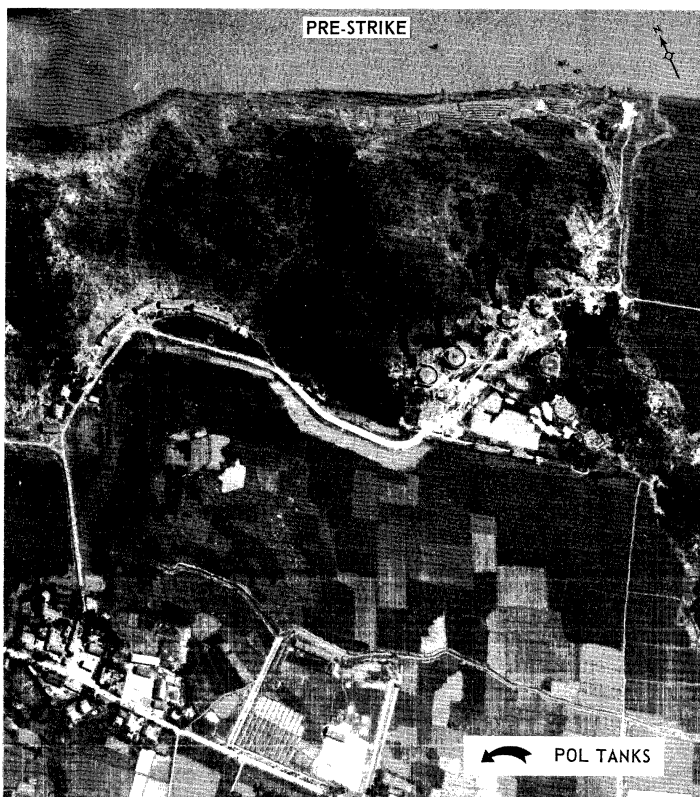
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XJ572260  
UTM COORDINATES

DUONG NHAM PETROLEUM PRODUCTS STORAGE

2101N 10630E  
GEOGRAPHIC COORDINATES



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UTM COORDINATES

2042N 10647E  
GEOGRAPHIC COORDINATES

NAME: DO SON PETROLEUM STORAGE

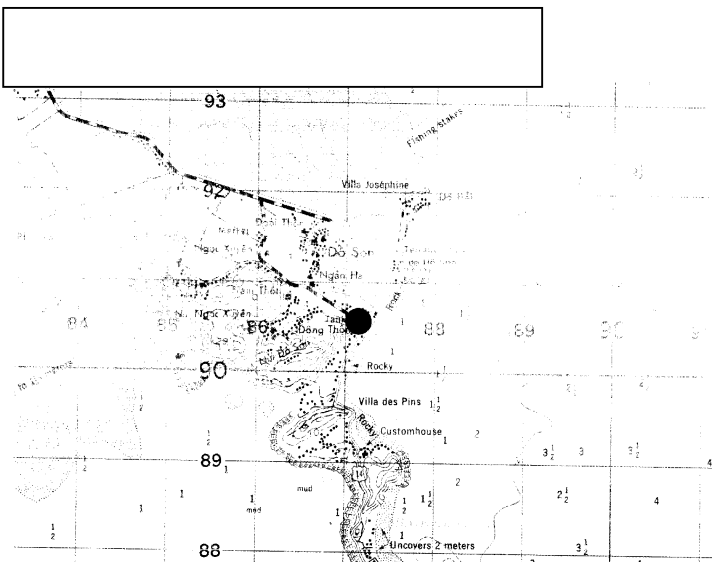
LOCATION: ON DO SON PENINSULA, 0.5 NM SE OF DO SON, AND 10.8 NM SE OF HAI PHONG

DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS 2 VERTICAL TANKS, EACH WITH A CIRCULAR BLAST WALL. POST-STRIKE PHOTOGRAPHY [REDACTED] REVEALS SEVERE DAMAGE TO ROOF AND SIDES OF NORTHERN TANK AND SUPERFICIAL ROOF DAMAGE TO SOUTHERN TANK.

ESTIMATED CAPACITY: PRE-STRIKE TANK 3,400 MT, POST-STRIKE TANK 1,700 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6373-11, 1ST ED, JUN 64 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-12, 1ST ED, JUN 65 (U)

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PHU VAN POL STORAGE

WF344841

1851N 10519E

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GEOGRAPHIC COORDINATES



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	WF762644	1840N 10543E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

**LOCATION:** 2.8 NM EAST OF VINH ON NW BANK OF THE SONG CA

**DESCRIPTION:** [REDACTED] REVEALS 3 LARGE, 5 MEDIUM, AND 6 SMALL ABOVEGROUND VERTICAL, 2 UNDERGROUND VERTICAL, AND 5 SERVICE TANKS.

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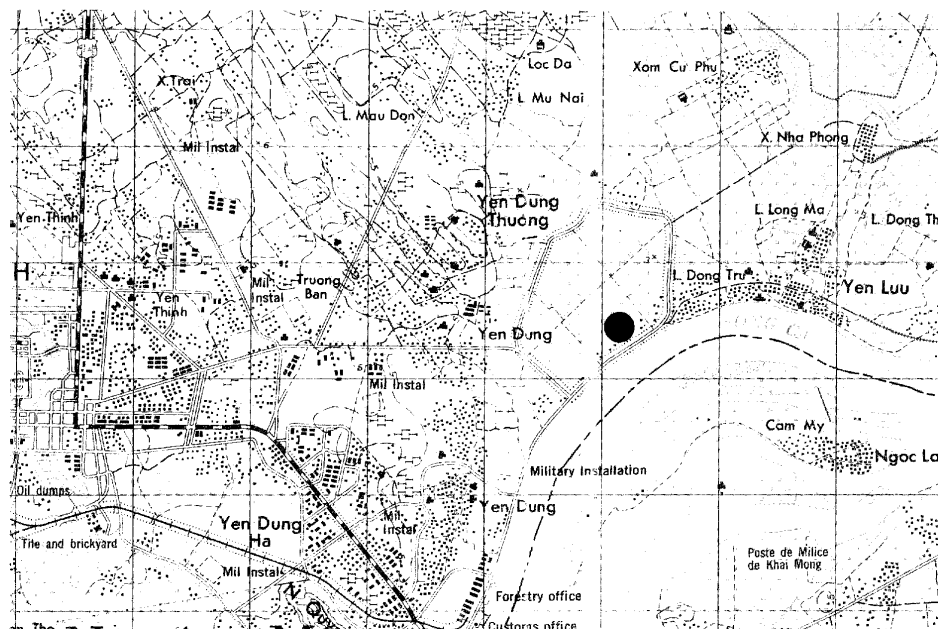
REVEALS 8 PREVIOUSLY UNOBSERVED BUNKERED HORIZONTAL AND THE 2 UNDERGROUND VERTICAL TANKS UNDAMAGED, 1 LARGE AND 1 MEDIUM TANK DAMAGED, AND 2 LARGE, 4 MEDIUM, AND 6 SMALL VERTICAL AND 5 SEPVICE TANKS DESTROYED.

**ESTIMATED CAPACITY:** PPE-STRIKE TANK 14,325 MT (EXCLUSIVE OF 8 BUNKERED HORIZONTAL TANKS) POST-STRIKE TANK 1,600 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6146 III, 1ST ED, 1965 (U)

AMS SERIES JOG(G) 1501, SHEET NE 48-11, 1ST ED, JUN 65 (U)

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VINH PETROLEUM PRODUCTS STORAGE

1840N 10543E  
**GEOGRAPHIC COORDINATES**

WF762644  
**UTM COORDINATES**



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	WG372250 UTM COORDINATES	1913N 10521E GEOGRAPHIC COORDINATES
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NAME: PHU QUI PETROLEUM PRODUCTS STORAGE

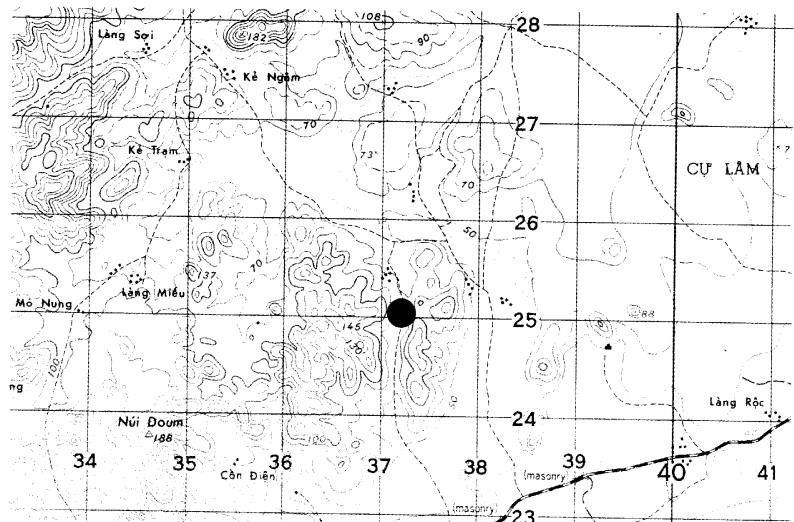
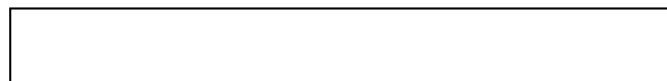
LOCATION: 0.7 NM SW OF PHU QUI AND 38 NM NW OF VINH

DESCRIPTION: PRE-STRIKE PHOTOGRAPHY REVEALS AREA IN LATE STAGE OF CONSTRUCTION WITH 9 VERTICAL TANKS CONSTRUCTED FROM PREFABRICATED SECTIONS, AND OPEN PIPELINE TRENCHES WITH PIPES BEING INSTALLED. ESTIMATED POTENTIAL CAPACITY WAS 9,000 MT. POST-STRIKE PHOTOGRAPHY REVEALS 2 DESTROYED, 6 DAMAGED, AND 1 POSSIBLY DAMAGED TANK. NO ACTIVITY IS OBSERVED, BUT SERVICE ROAD IS UN-DAMAGED

ESTIMATED CAPACITY: NONE

MAP REFERENCES: AMS SERIES L701, SHEET 6068-I, 1ST ED, JUN 64 (U)  
AMS SERIES J06(G) 1501, SHEET NF 48-3, 1ST ED, JUN 65 (U)

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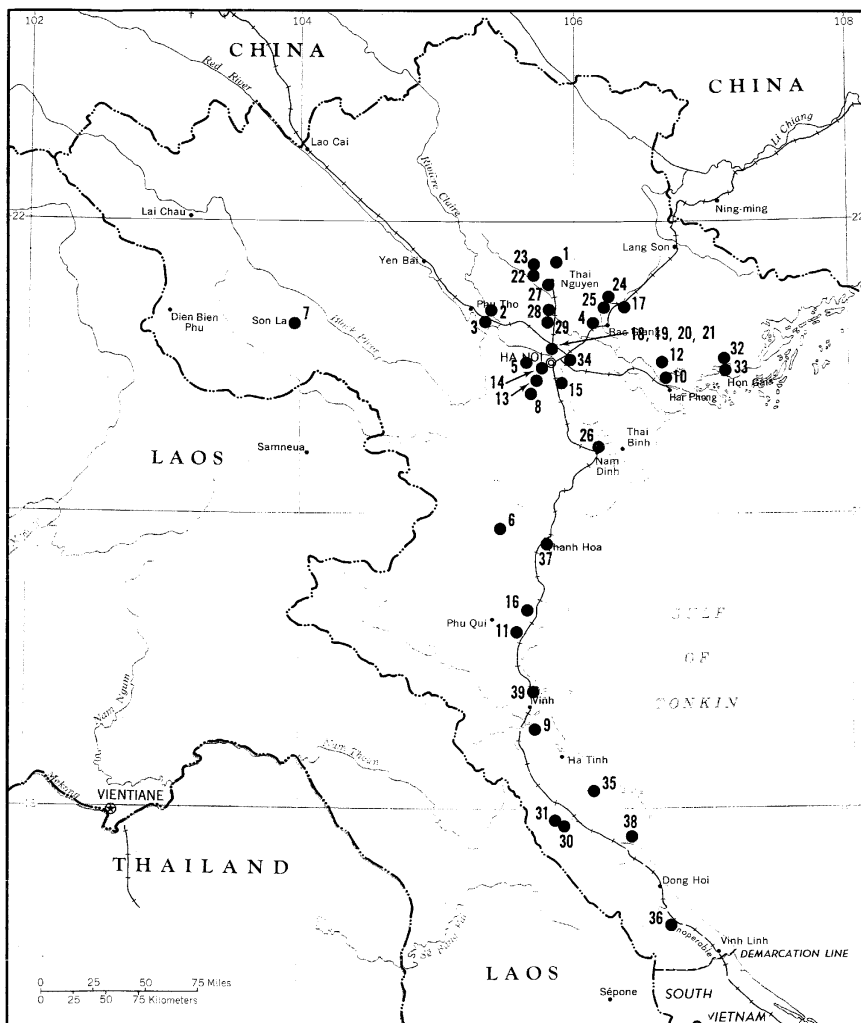
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**KEY TO CATEGORY B**  
**DISPERSED STORAGE AREAS**

1. La Danh Petroleum Products Storage PUG
2. Van Lung Petroleum Products Storage UG
3. Van Lung Petroleum Products Storage West UG
4. Hoang Mai POL Storage Area
5. Ha Noi Petroleum Products Thi Cam
6. Bai Thuong Petroleum Products Storage UG Southeast
7. Son La Petroleum Products Storage
8. Thuong Thon Petroleum Products Storage UG
9. Ngoc Son Petroleum Products Storage PUG
10. Thai Lai Petroleum Products Storage
11. Yen Hau Petroleum Products Storage PUG
12. Thanh Lang Petroleum Products Storage PUG
13. Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)
14. Ha Noi Petroleum Products Storage UG Thanh Liet (Area 2)
15. Bang So Petroleum Products Storage PUG
16. Son Chau Petroleum Products Storage PUG
17. Kep Petroleum Products Storage
18. Ha Noi Petroleum Products Storage Duc Noi (Area 1)
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22. Cu Van Petroleum Products Storage
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27. Thai Nguyen Petroleum Products Storage PUG South
28. Phuc Yen Airfield POL Storage Area 1
29. Phuc Yen Airfield POL Storage Area 2
30. Xom Duong Quan Petroleum Products Storage UG East
31. Xom Duong Quan Petroleum Products Storage UG
32. Nui Tap Tinh POL Storage Area
33. Sac Le POL Storage Area
34. Phu Dong POL Storage Area
35. Thuan Le POL Storage Area
36. Phu Loc Petroleum Products Storage
37. Thanh Hoa POL Storage Area
38. Ba Don POL Storage Area
39. Phuc Loi Petroleum Products Storage Navy

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WJ877956  
UTM COORDINATES

2139N 10550E  
GEOGRAPHIC COORDINATES

**NAME:** LA DANH PETROLEUM PRODUCTS STORAGE PUG

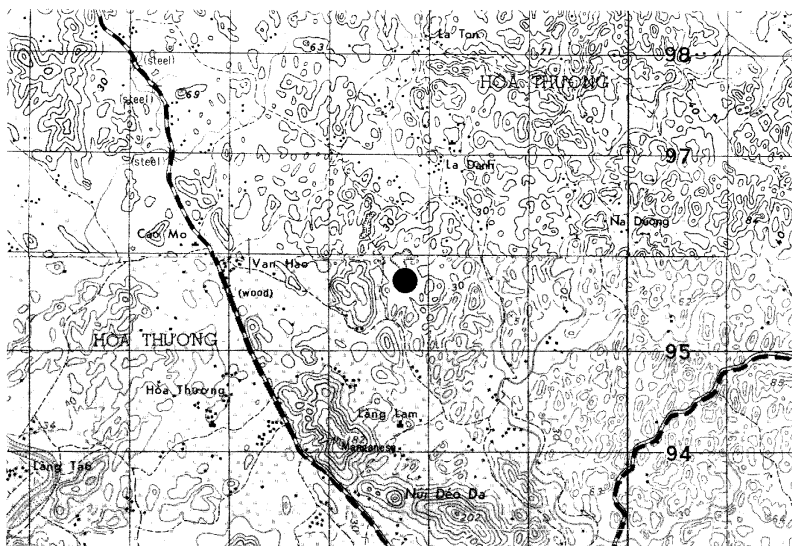
**LOCATION:** 4.1 NM NORTH OF THAI NGUYEN AND 0.8 NM EAST OF VAN HAO

**DESCRIPTION:** STORAGE AREA CONSISTS OF 2 ADJACENT SITES. EAST AREA CONTAINS APPROXIMATELY 116 BUNKERED TANKS, 6 UNBURIED MEDIUM TANKS, 15 EXCAVATIONS, AND APPROXIMATELY 4,000 DRUMS DISPERSED UNDER TREES. WEST AREA, 0.3 NM WEST, CONTAINS AT LEAST 475 DRUMS IN OPEN STORAGE AND IN 9 EXCAVATIONS AND 9 ADDITIONAL EXCAVATIONS. BOMB CRATERS ARE OBSERVED IN EACH AREA.

ESTIMATED CAPACITY: TANK 1,464 MT DRUM 895 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6175-I, 1ST ED, OCT 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1D



25X1C

B1  
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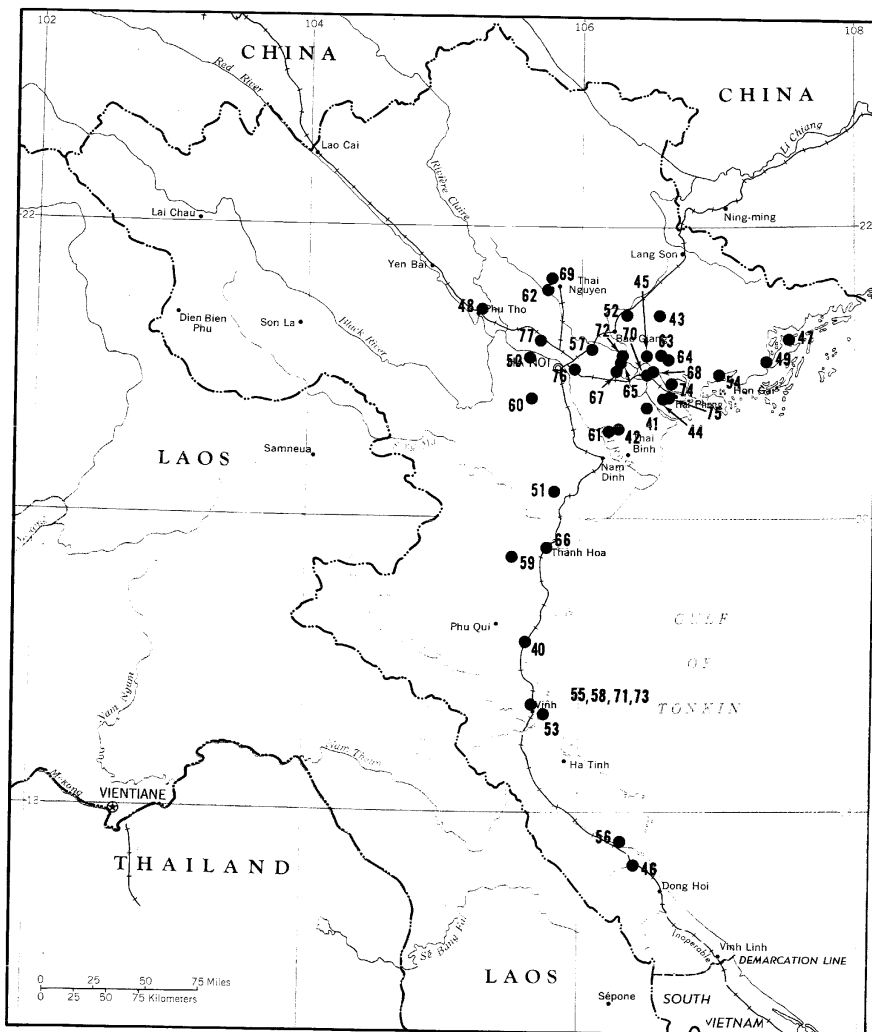
**B04560A0055000**

25X1

25X1

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R-218/66  
16 NOVEMBER 1966



DISPERSED STORAGE AREAS (CONTINUED)

40. Tho Trang Petroleum Products Storage
41. Ninh Giang Petroleum Products Storage
42. Viet Yen Petroleum Products Storage
43. Kep Ha Petroleum Products Storage
44. Tien Hoi Petroleum Products Storage
45. Dong Mai Petroleum Products Storage
46. Xom Lang POL Storage
47. Van Hoa POL Storage
48. Phu Lo Petroleum Products Storage NNE UG
49. Jaune Island POL Storage
50. Co Nhue Hoang POL Storage
51. Quang Suoi Petroleum Products Storage
52. Trung Phu Petroleum Products Storage
53. Gia Hoa Petroleum Products Storage PUG
54. Bai Chay Petroleum Products Storage
55. Vinh Petroleum Products Storage Yen Thinh
56. Ba Don Petroleum Products Storage UG West
57. Bac Ninh Petroleum Products Storage
58. Vinh Petroleum Products Storage PUG Xuan Yen
59. Tri Binh Petroleum Products Storage
60. Thuong Lam Petroleum Products Storage
61. Cau Cong Petroleum Products Storage
62. Tung Tu Petroleum Products Storage UG
63. Don Son Petroleum Products Storage
64. Quy Khe Petroleum Products Storage
65. Tran Xa Petroleum Products Storage
66. Thanh Hoa Petroleum Products Storage
67. Tram Du Petroleum Products Storage
68. Luc Nong Petroleum Products Storage
69. Thai Nguyen Petroleum Products Storage
70. Tien Nong Petroleum Products Storage
71. Vinh Petroleum Products Storage PUG Ben Thuy
72. Chi Linh Petroleum Products Storage
73. Vinh Petroleum Products Storage PUG Yen Dai
74. Hoang Pha Petroleum Products Storage
75. Kien An Petroleum Products Storage
76. Phu Thi Petroleum Products Storage
77. Phuc Yen Petroleum Products Storage

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27 September 1966

25X1C

25X1

25X1A

	WJ877956	2139N 10550E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

**NAME:** LA DANH PETROLEUM PRODUCTS STORAGE PUG

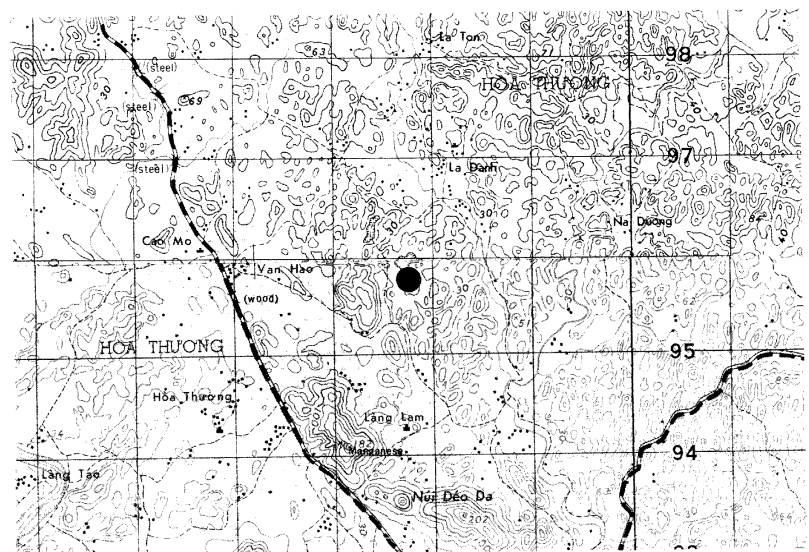
**LOCATION:** 4.1 NM NORTH OF THAI NGUYEN AND 0.8 NM EAST OF VAN HAO

**DESCRIPTION:** STORAGE AREA CONSISTS OF 2 ADJACENT SITES. EAST AREA CONTAINS APPROXIMATELY 116 BUNKERED TANKS, 6 UNBURIED MEDIUM TANKS, 15 EXCAVATIONS, AND APPROXIMATELY 4,000 DRUMS DISPERSED UNDER TREES. WEST AREA, 0.3 NM WEST, CONTAINS AT LEAST 475 DRUMS IN OPEN STORAGE AND IN 9 EXCAVATIONS AND 9 ADDITIONAL EXCAVATIONS. BOMB CRATERS ARE OBSERVED IN EACH AREA.

**ESTIMATED CAPACITY:** TANK 1,464 MT DRUM 895 MT

**MAP REFERENCES:** AMS SERIES L701, SHEET 6175-I, 1ST ED, OCT 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1D



B1

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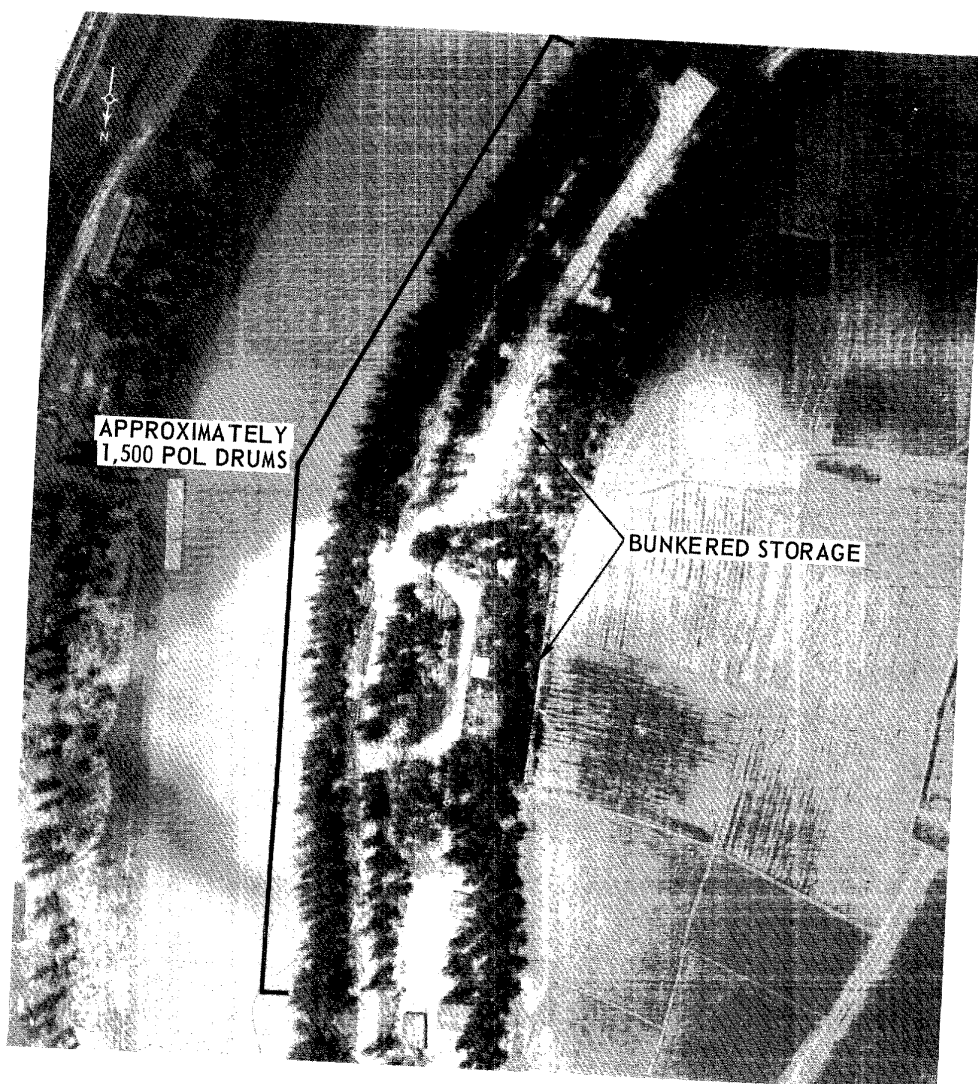
25X1C

HA NOI PETROLEUM PRODUCTS THI CAM

R-218/66

WJ791254  
UTM COORDINATES

2101N 10545E  
GEOGRAPHIC COORDINATES



25X1C

B10

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25X1

September 1966

25X App

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1951N 10525E  
GEOGRAPHIC COORDINATES

**LOCATION:** 4.2 NM SW OF BAI THUONG AIRFIELD AND 3.2 NM SE OF BAI THUONG

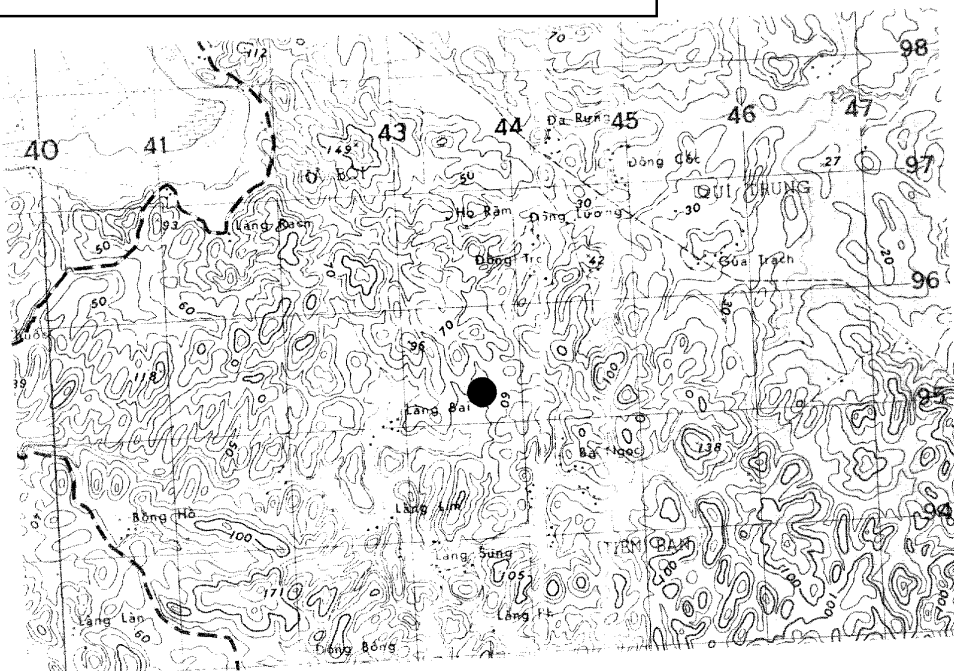
ESTIMATED CAPACITY: PRE-STRIKE

MAP REFERENCES: AMS SERIES L7014, SHEET 6071 I, 1ST ED, JAN 65 (U)  
AMS SERIES JOG(G) 1501, SHEET HE-48-3, 1ST ED, DEC 65 (U)

ESTIMATED CAPACITY: PRE-STRIKE

MAP REFERENCES: AMS SERIES L7014, SHEET 6071 I, 1ST ED, JAN 65 (U)  
AMS SERIES JOG(G) 1501, SHEET HE-48-3, 1ST ED, DEC 65 (U)

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Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

25X1C

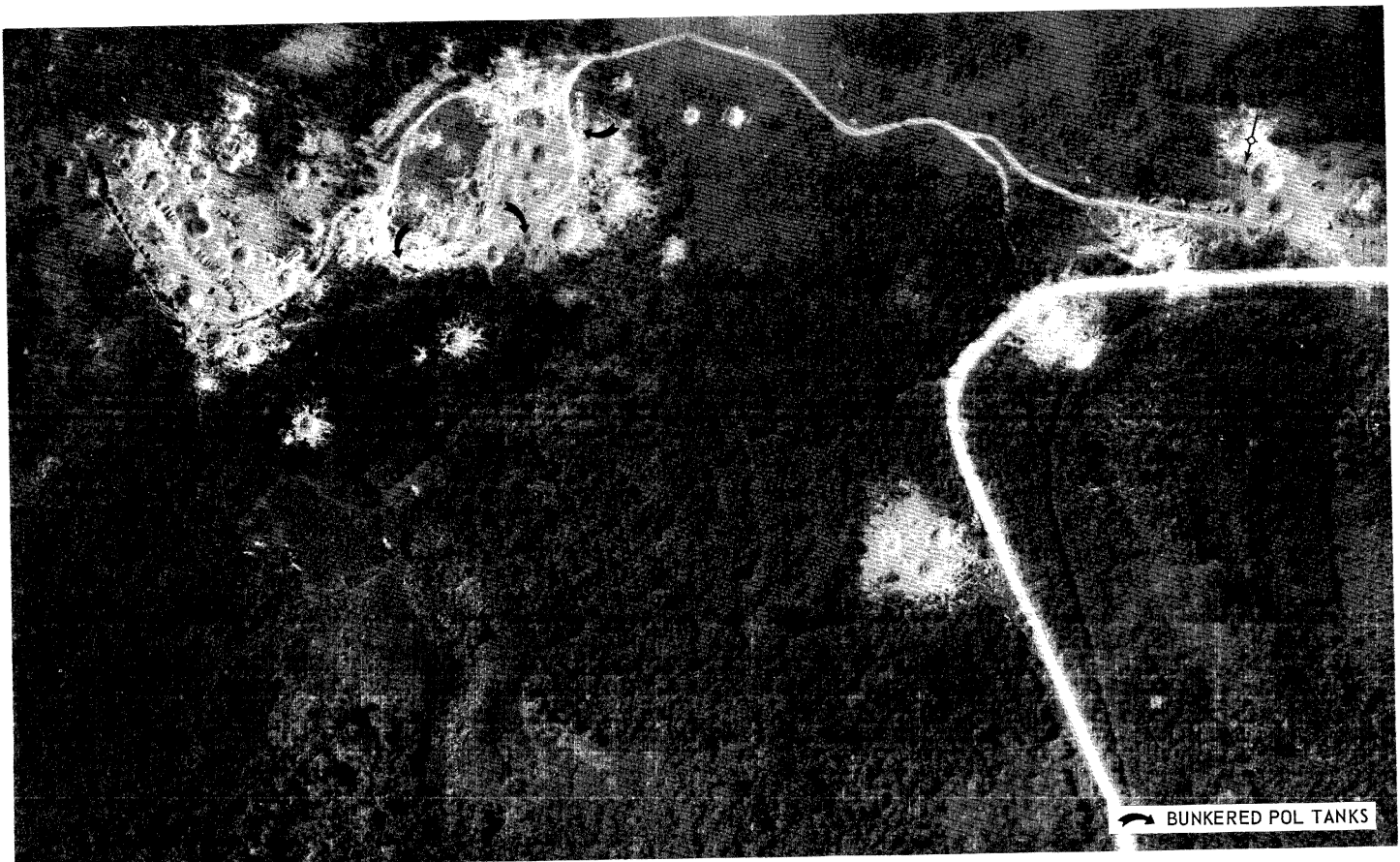
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R-218/66  
16 November 1966

BAI THUONG PETROLEUM PRODUCTS STORAGE UG SOUTHEAST

1951N 10525E  
GEOGRAPHIC COORDINATES

WG436952  
UTM COORDINATES



25X1C

B12

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CONFIDENTIAL

25X1A

R-218/66

	UJ910549	2117N 10356E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: SON LA PETROLEUM PRODUCTS STORAGE

LOCATION: 2.8 NM SE OF SON LA AND IMMEDIATELY SOUTH OF ROUTE 6

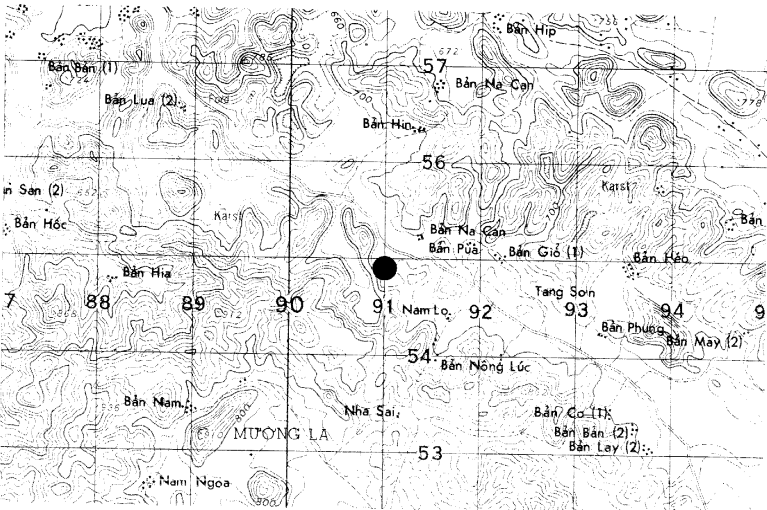
DESCRIPTION: STORAGE SITE CONTAINS 32 BUNKERED POL TANKS. SITE IS FENCE SECURED AND ATTEMPTS HAVE BEEN MADE TO CAMOUFLAGE BUNKERS AND ACCESS ROADS

25X1D

ESTIMATED CAPACITY: TANK 384 MT

MAP REFERENCES: AMS SERIES L701, SHEET 5774-I, 1ST ED, MAR 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-10, 1ST ED, JUN 65 (U)

25X1D



25X1C

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25X1

25X1

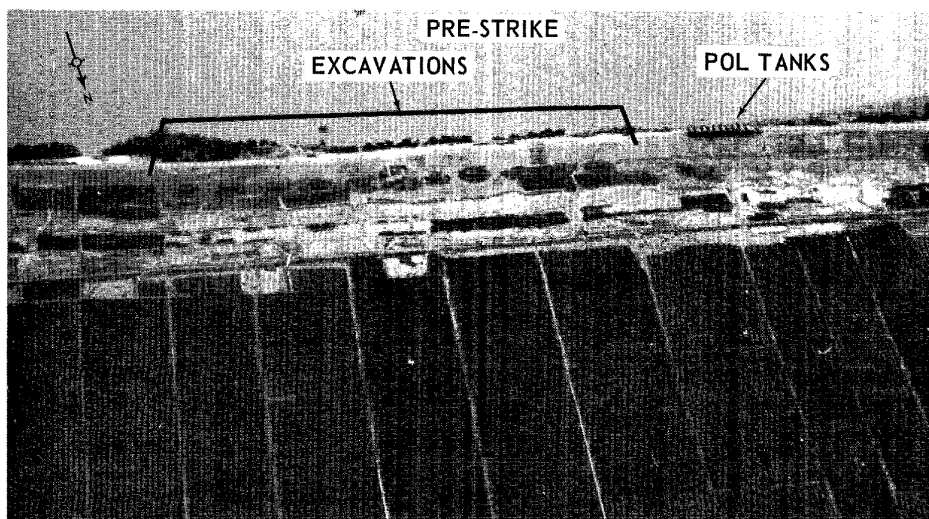
25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A00550010031-4

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R-218/66

THAI LAI PETROLEUM PRODUCTS STORAGE

XJ684143	2055N 10637E
UTM COORDINATES	GEOGRAPHIC COORDINATES



B20

25X1C  
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CONFIDENTIAL

25X1

25X1C

Approved For Release 2009/08/04 : CIA-RDP78B04560A005500010031-4

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10 November 1966

25X1A

	WG593166 UTM COORDINATES	1908N 10534E GEOGRAPHIC COORDINATES
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NAME: YEN HAU PETROLEUM PRODUCTS STORAGE PUG

LOCATION: 0.5 NM NNW OF YEN HAU AND 0.3 NM EAST OF ROUTE 116

25X1D

DESCRIPTION: 50 BUNKERED TANKS, 20 OPEN EXCAVATIONS, AND APPROXIMATELY 2,000 POL DRUMS.

25X1D

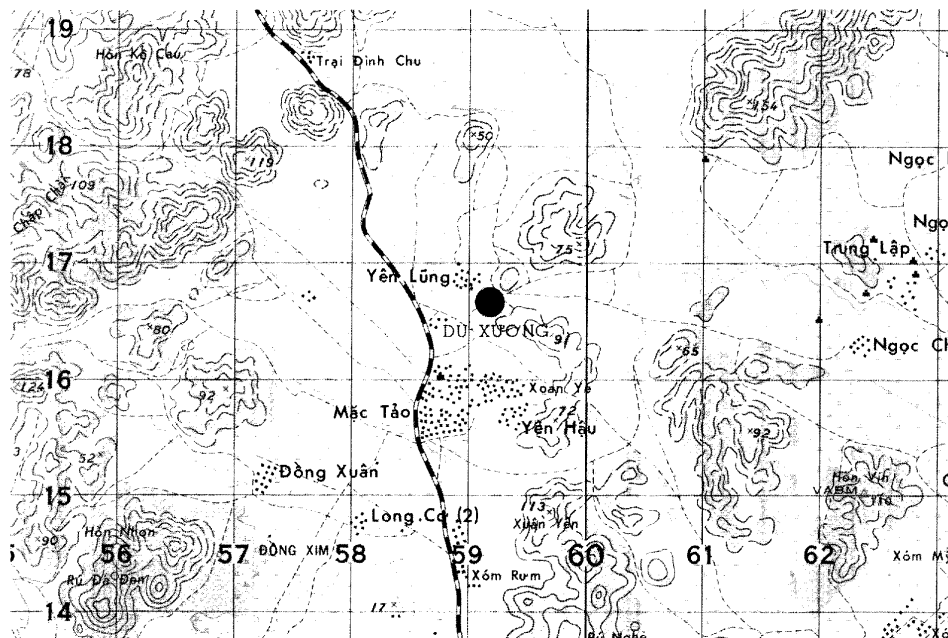
UNDAMAGED BUNKERED TANKS, 7 ABOVE-GROUND TANKS, AND 2 EMPTY EXCAVATIONS. NO DRUM STORAGE OBSERVED.

25X1D

ESTIMATED CAPACITY: TANK 396 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6168-III, 1ST ED, NOV 62 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-3, 1ST ED, DEC 65 (U)

25X1D



25X1C

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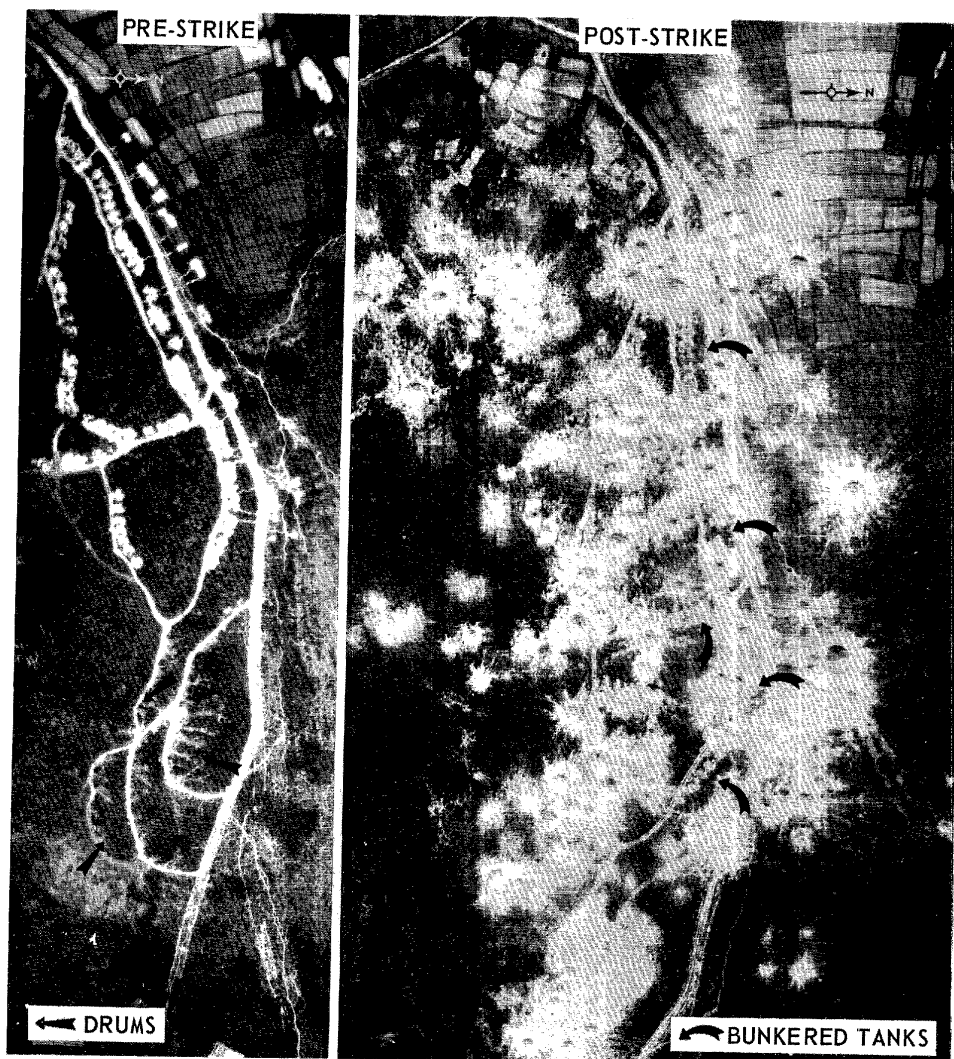
CONFIDENTIAL

B21

25X1

25X1C  
Approved For Release 2003/06/04 : CIA-RDP78B04560A005500010031-4  
CONFIDENTIAL  
R-218/66  
16 November 1966

YEN HAU PETROLEUM PRODUCTS STOPAGE PUG  
WG593166  
UTM COORDINATES  
1908N 10534E  
GEOGRAPHIC COORDINATES



25X1

25X1C  
Approved For Release 2003/06/04 : CIA-RDP78B04560A005500010031-4  
CONFIDENTIAL  
B22

25X1

25X1C  
CONFIDENTIAL  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

R-218/66

25X1A

XJ676195  
UTM COORDINATES

2058N 10636E  
GEOGRAPHIC COORDINATES

**NAME:** THANH LANG PETROLEUM PRODUCTS STORAGE PUG

**LOCATION:** 0.3 NM NNE OF THANH LANG AND 8 NM NW OF HAI PHONG

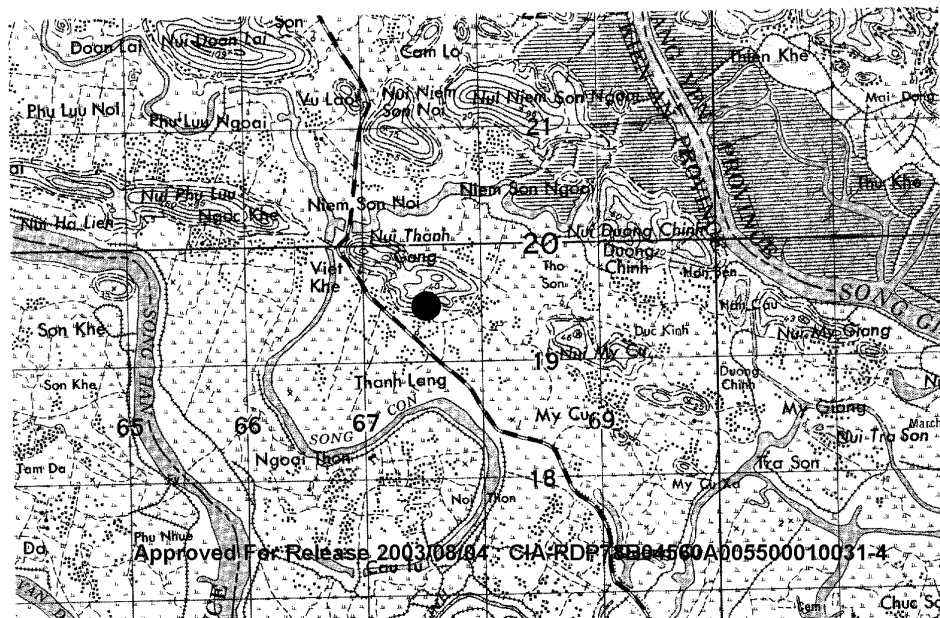
**DESCRIPTION:** STORAGE AREA CONTAINS 32 BURIED TANKS LIGHTLY OVERGROWN WITH VEGETATION, 5 UNBURIED TANKS, AND APPROXIMATELY 3,000 DRUMS.

**ESTIMATED CAPACITY:** TANK 444 MT DRUM 600 MT

**MAP REFERENCES:** AMS SERIES L701, SHEET 6373-IV, 3D ED, JAN 61 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



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25X1

25X1C

25X1A

THAI NGUYEN PETROLEUM PRODUCTS STORAGE PUG SOUTH

R-218/66  
27 September 1966

2129N 10551E

UTM COORDINATES

GEOGRAPHIC COORDINATES



B54

CONFIDENTIAL

25X1C

25X1

CONFIDENTIAL

R-218/66  
16 November 1966  
25X1

25X1A

BE NUMBER	WJ847519	2116N 10549E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: PHUC YEN AIRFIELD POL STORAGE AREA 1

LOCATION: 2.9 NM NORTH OF PHUC YEN AIRFIELD

25X1

DESCRIPTION: AREA FIRST OBSERVED UNDER CONSTRUCTION ON PHOTOGRAPHY  
CONSISTED OF 12 OPEN EXCAVATIONS AND 10 LARGE TANKS. PHOTOGRAPHY  
REVEALS 12 TANKS IN 3 BUNKERS AND 5 ADDITIONAL TANKS BEING BURIED 0.2 NM SE.  
MISSION REVEALS THE 5 TANKS (LAST SEEN BEING  
HAVE BEEN REMOVED.

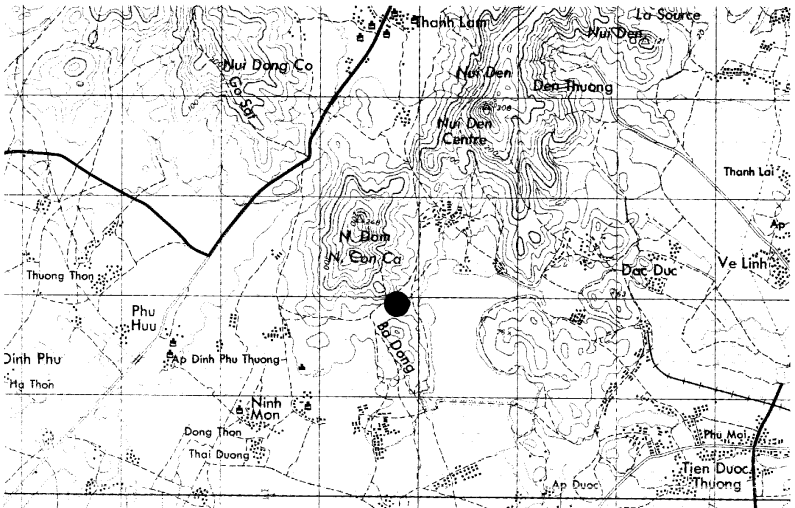
25X1

ESTIMATED CAPACITY: TANK 300 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



25X1C

B55

CONFIDENTIAL

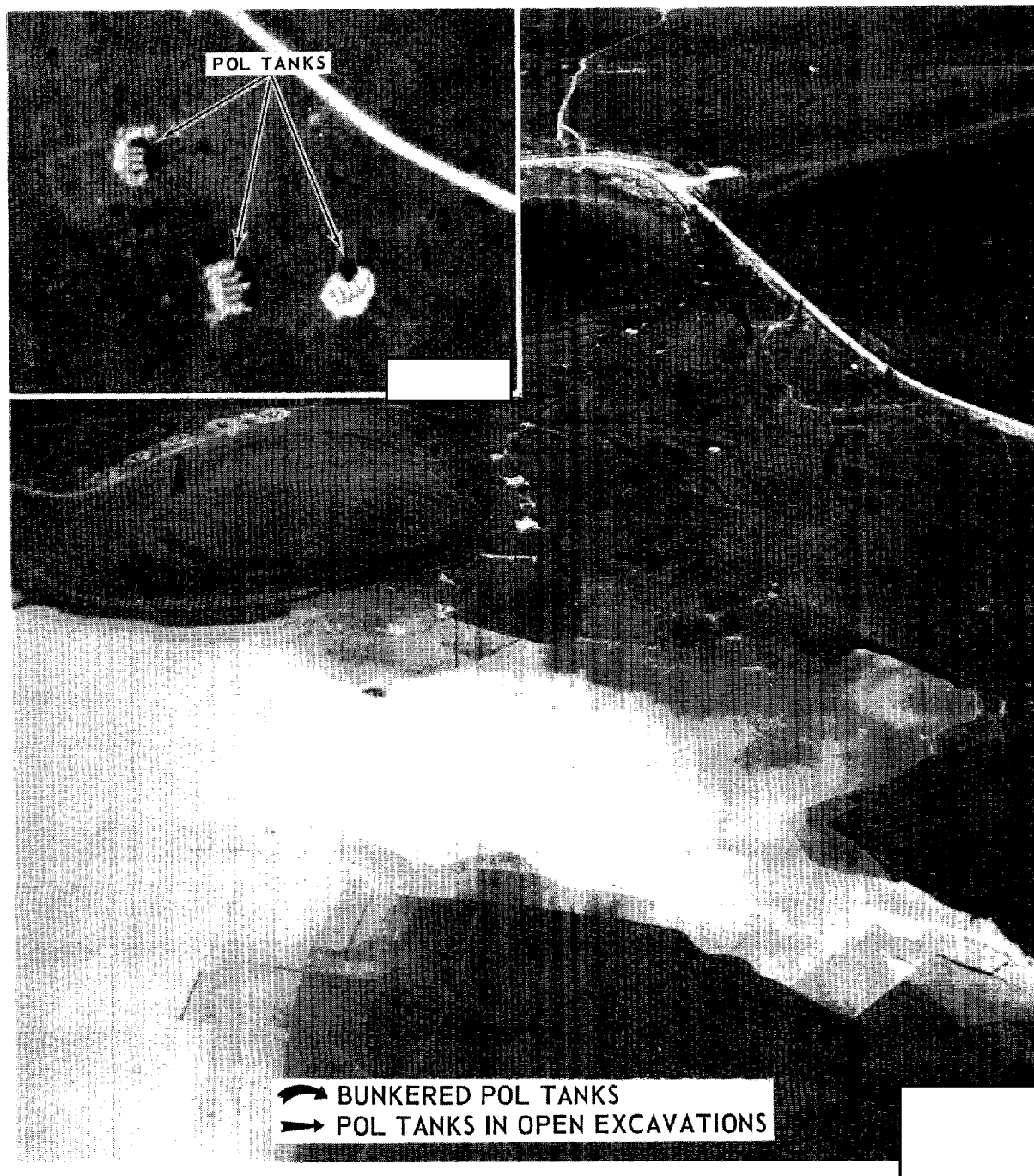
25X1



PHUC YEN AIRFIELD POL STORAGE AREA 1

WJ847519  
UTM COORDINATES

2116N 10549E  
GEOGRAPHIC COORDINATES



B56



25X1

25X1C **CONFIDENTIAL**  
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R-218/66

25X1A

BE NUMBER

WJ862506  
 UTM COORDINATES

2115N 10549E  
 GEOGRAPHIC COORDINATES

**NAME:** PHUC YEN AIRFIELD POL STOPAGE AREA 2

**LOCATION:** 2.4 NM NNE OF PHUC YEN AIRFIELD AND 1 NM SW OF PHUC YEN  
 PETROLEUM PRODUCTS STORAGE NNE UNDERGROUND

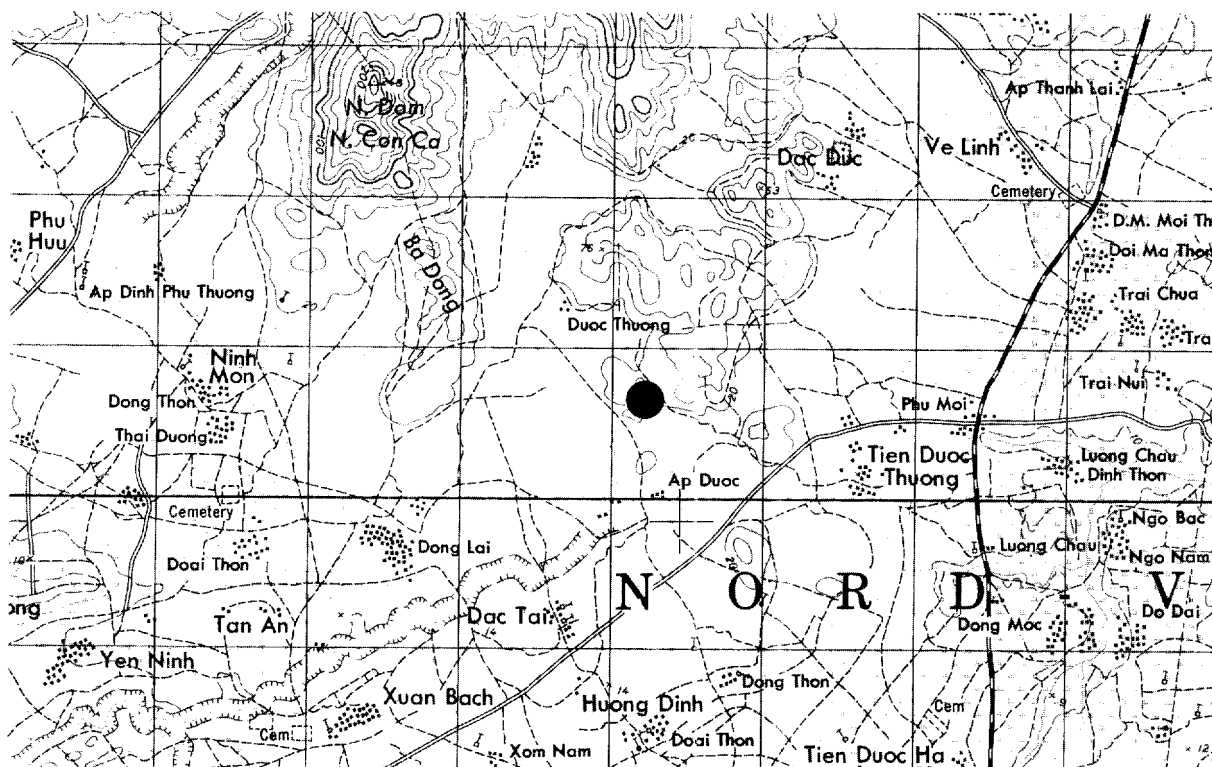
**DESCRIPTION:** AREA CONTAINS 4 BUNKERS, EACH WITH 5 TANKS.

**ESTIMATED CAPACITY:** TANK 240 MT

**MAP REFERENCES:** AMS SERIES L701, SHEET 6174-I, 3D ED, DEC 59 (U)  
 AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



25X1C **CONFIDENTIAL**  
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25X1

25X1

25X1C

**CONFIDENTIAL**

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

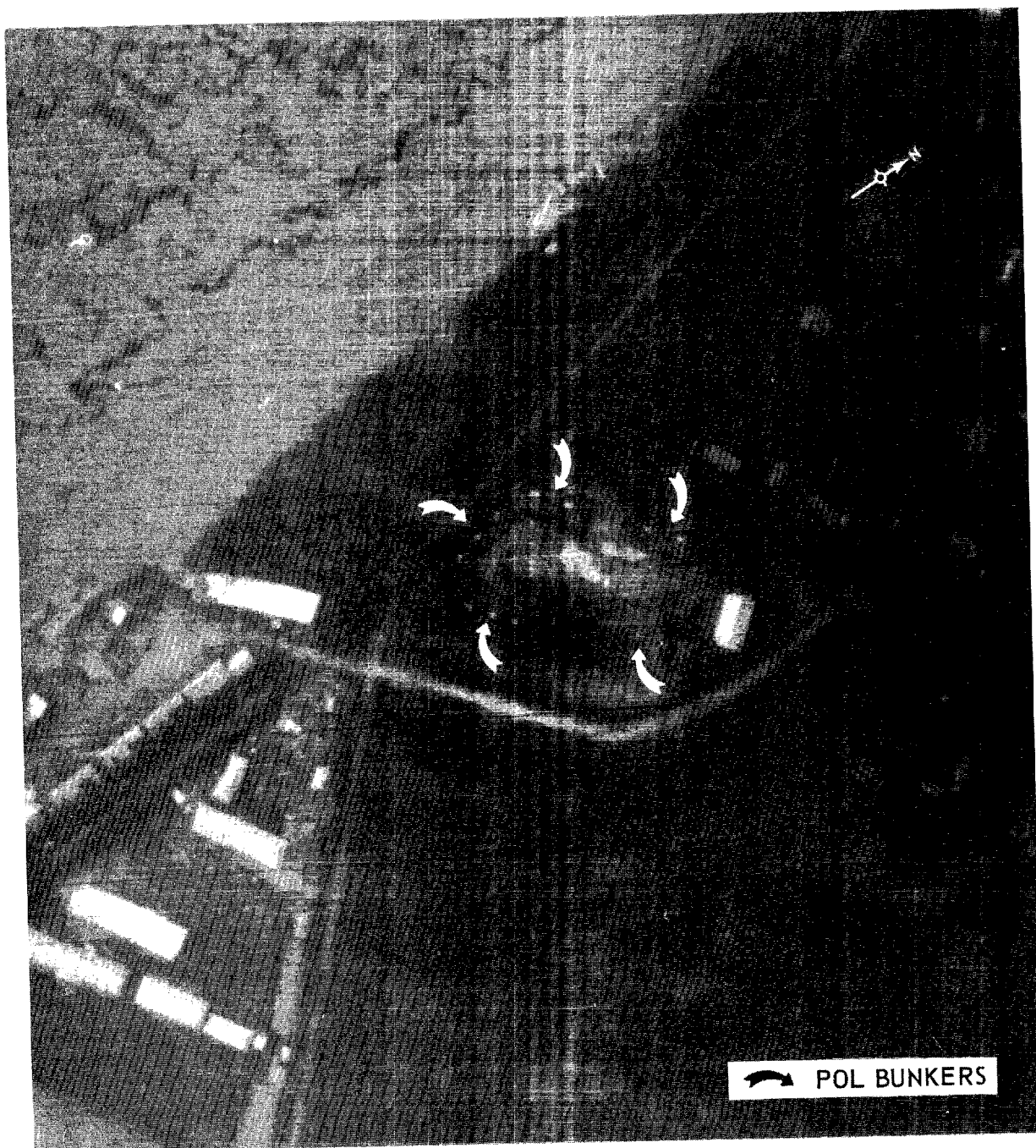
R-218/66

PHU DONG POL STORAGE AREA

2103N 10556E

WJ973288  
UTM COORDINATES

GEOGRAPHIC COORDINATES



B68

25X1C

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**CONFIDENTIAL**

25X1

0617-  
BE NUMBER

XF143133  
UTM COORDINATES

1812N 10604E  
GEOGRAPHIC COORDINATES

NAME: THUAN LE POL STORAGE AREA

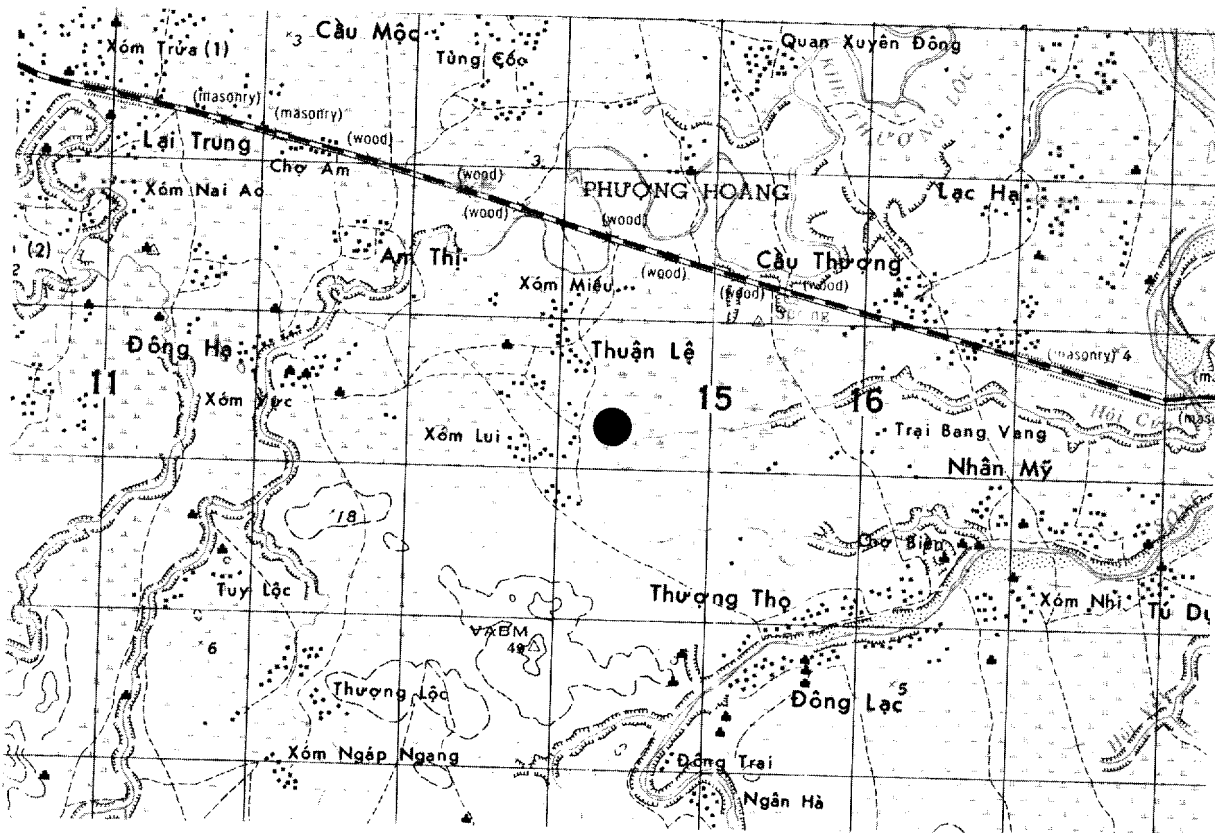
LOCATION: 0.3 NM SSE OF THUAN LE AND 0.6 NM SOUTH OF ROUTE 1A

DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS SITE CONSISTING OF 3 AREAS WITH A TOTAL OF 44 BUNKERED TANKS, 45 DRUMS IN 5 EXCAVATIONS, AND 16 EMPTY EXCAVATIONS. PHOTOGRAPHY [REDACTED] REVEALS NORTH AREA CONTAINS 19 SMALL BUNKERED, 1 SMALL EXPOSED, AND 4 DESTROYED TANKS. SOUTH AREA CONTAINS 19 SMALL BUNKERED AND 1 DESTROYED TANK. EAST AREA CONTAINS 20 EXCAVATIONS. NO DRUMS OBSERVED. ESTIMATED CAPACITY: PRE-STRIKE TANK 308 MT DRUM 9 MT, POST-STRIKE TANK 273 MT DRUM NONE

MAP REFERENCES: AMS SERIES L701, SHEET 6265-IV, 1ST ED, NOV 62 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



25X1C

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R-218/66

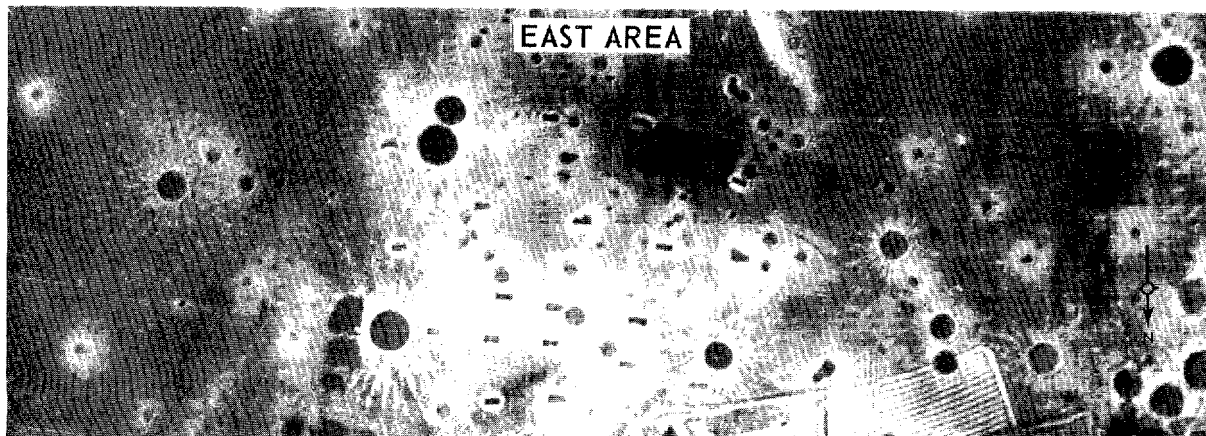
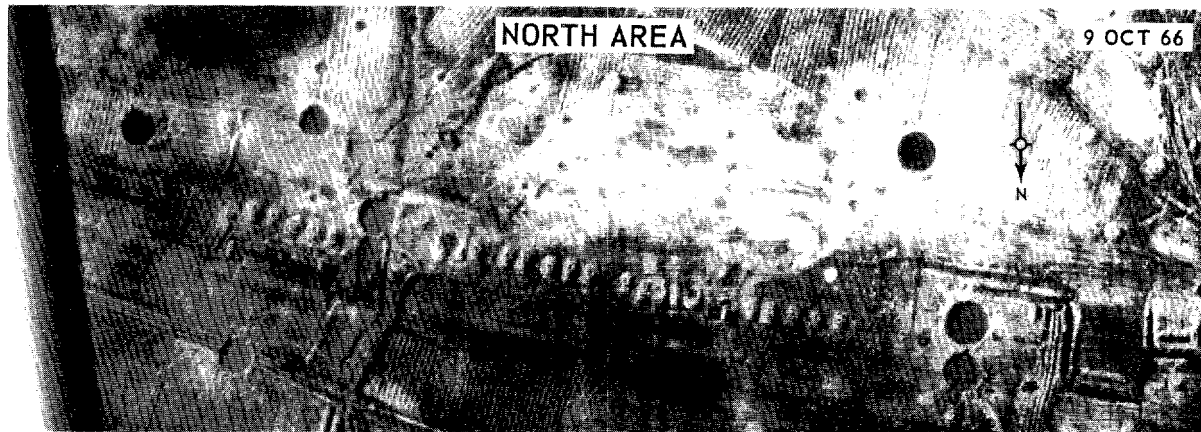
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

10 November 1966

THUAN LE POL STORAGE AREA

XF143133  
UTM COORDINATES

1812N 10604E  
GEOGRAPHIC COORDINATES



25X1C

B70

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27 September 1966

CONFIDENTIAL

0617-  
BE NUMBER

XE76 3071  
UTM COORDINATES

1714N 10639E  
GEOGRAPHIC COORDINATES

**NAME:** PHU LOC PETROLEUM PRODUCTS STORAGE

**LOCATION:** 3 NM WNW OF MY DUC AND 2.1 NM WEST OF ROUTE 101

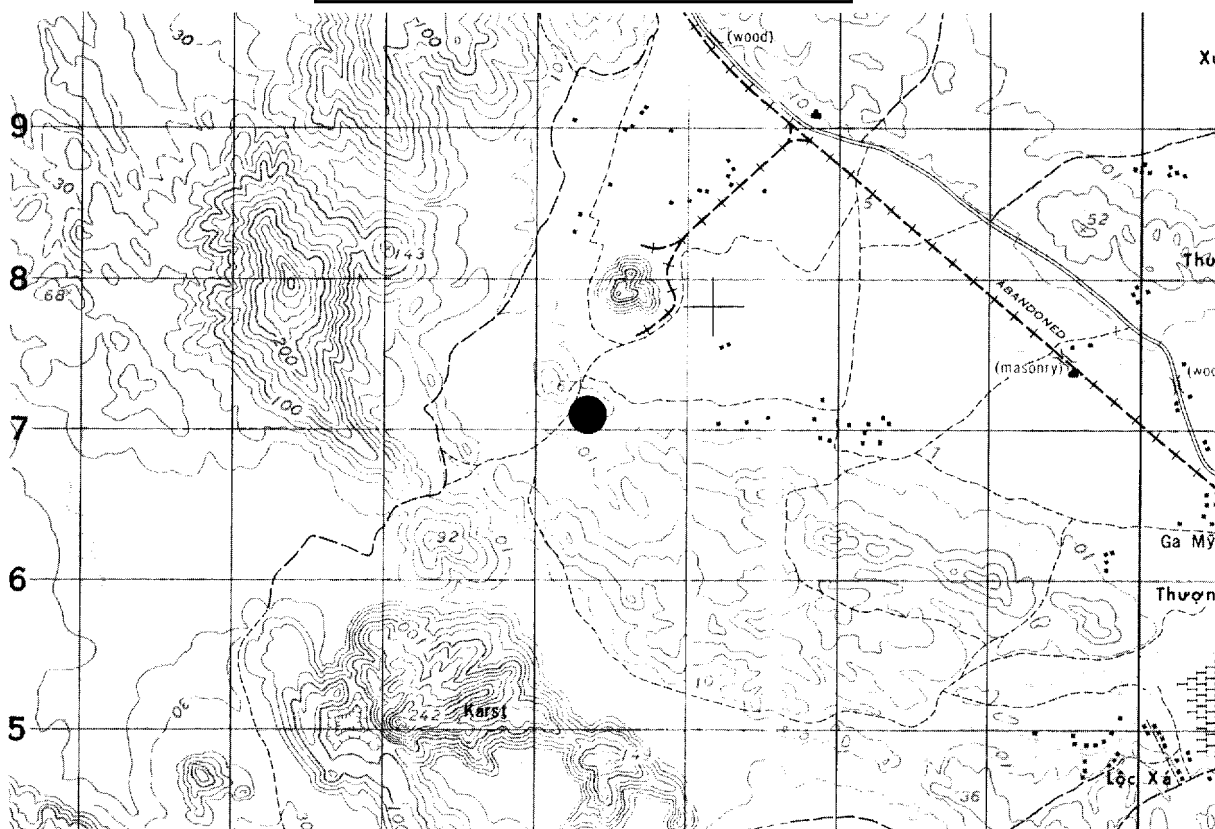
**DESCRIPTION:** PRE-STRIKE PHOTOGRAPHY REVEALS 10 BUNKERED TANKS. POST-STRIKE PHOTOGRAPHY REVEALS 3 TANKS POSSIBLY DAMAGED AND NO APPARENT DAMAGE TO THE REMAINING 7 TANKS. THREE UNBURIED TANKS ARE OBSERVED IMMEDIATELY SOUTH.

**ESTIMATED CAPACITY:** POST-STRIKE TANK 156 MT

**MAP REFERENCES:** AMS SERIES L701, SHEET 6362 IV, 1ST ED, APR 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-12, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



B71

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25X1

25X1C

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R-218/66

WF713660  
UTM COORDINATES

VINH PETROLEUM PRODUCTS STORAGE PUG XUAN YEN

1841N 10540E

GEOGRAPHIC COORDINATES



B116

25X1C

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25X1

25X1A

BE NUMBER

WG573873  
UTM COORDINATES

1946N 10532E  
GEOGRAPHIC COORDINATES

NAME: TRI BINH PETROLEUM PRODUCTS STORAGE

LOCATION: 0.6 NM EAST OF TRI BINH

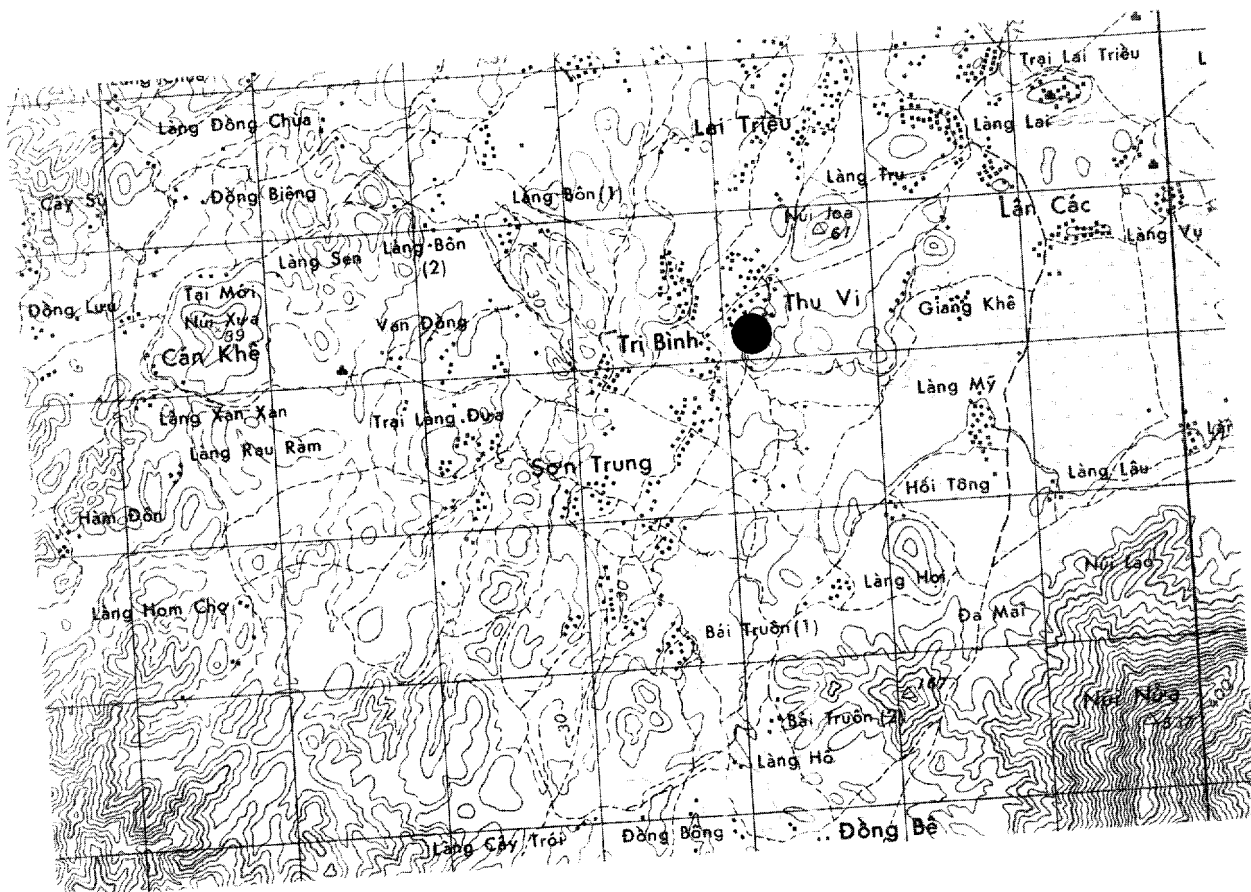
DESCRIPTION: PHOTOGRAPHY OF [REDACTED] REVEALS 1 DESTROYED, 2 DAMAGED, AND 2 UNDAMAGED BUNKERED TANKS.

ESTIMATED CAPACITY: TANK 48 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-3, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



B117

25X1

25X1C  
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16 November 1966

VG573873  
UTM COORDINATES

TRI BINH PETROLEUM PRODUCTS STORAGE

1946N 10532E  
GEOGRAPHIC COORDINATES



25X1

25X1C  
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B118

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25X16

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WJ701005  
UTM COORDINATES

2048N 10540E  
GEOGRAPHIC COORDINATES

NAME: THUONG LAM PETROLEUM PRODUCTS STORAGE

LOCATION: 0.3 NM NW OF THUONG LAM, IMMEDIATELY SOUTH OF ROUTE 212 AND 2 NM WEST OF THE SONG DAY

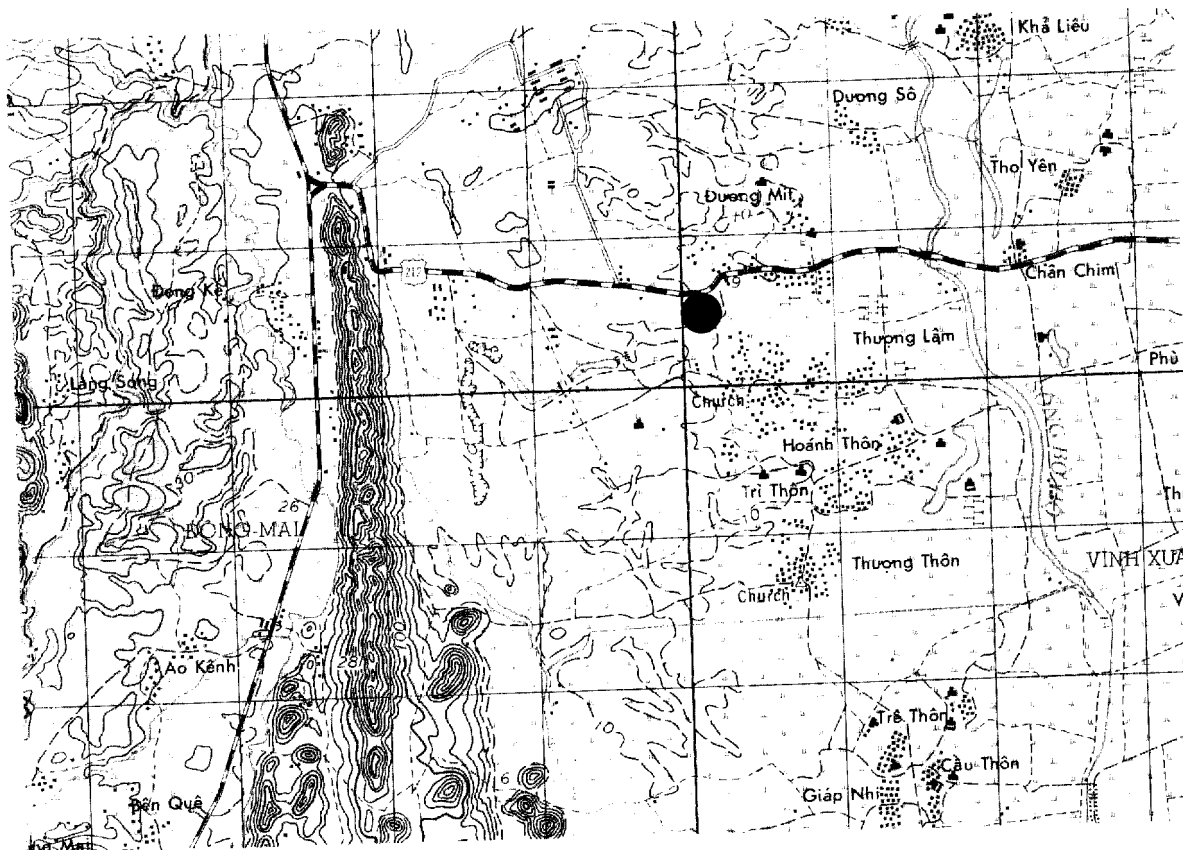
**DESCRIPTION:** AREA CONSISTS OF 8 TANKS IN OPEN EXCAVATIONS, 4 ON EACH SIDE OF A SECONDARY ROAD.

ESTIMATED CAPACITY: TANK 96 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-IV, 1ST ED, 1965 (U)  
AMS SERIES 1501 JOG(G) 1501, SHEET NF 48-15, 1ST ED, DEC 65 (U)

**PHOTO REFERENCE:**

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25X1

25X1C  
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CONFIDENTIAL

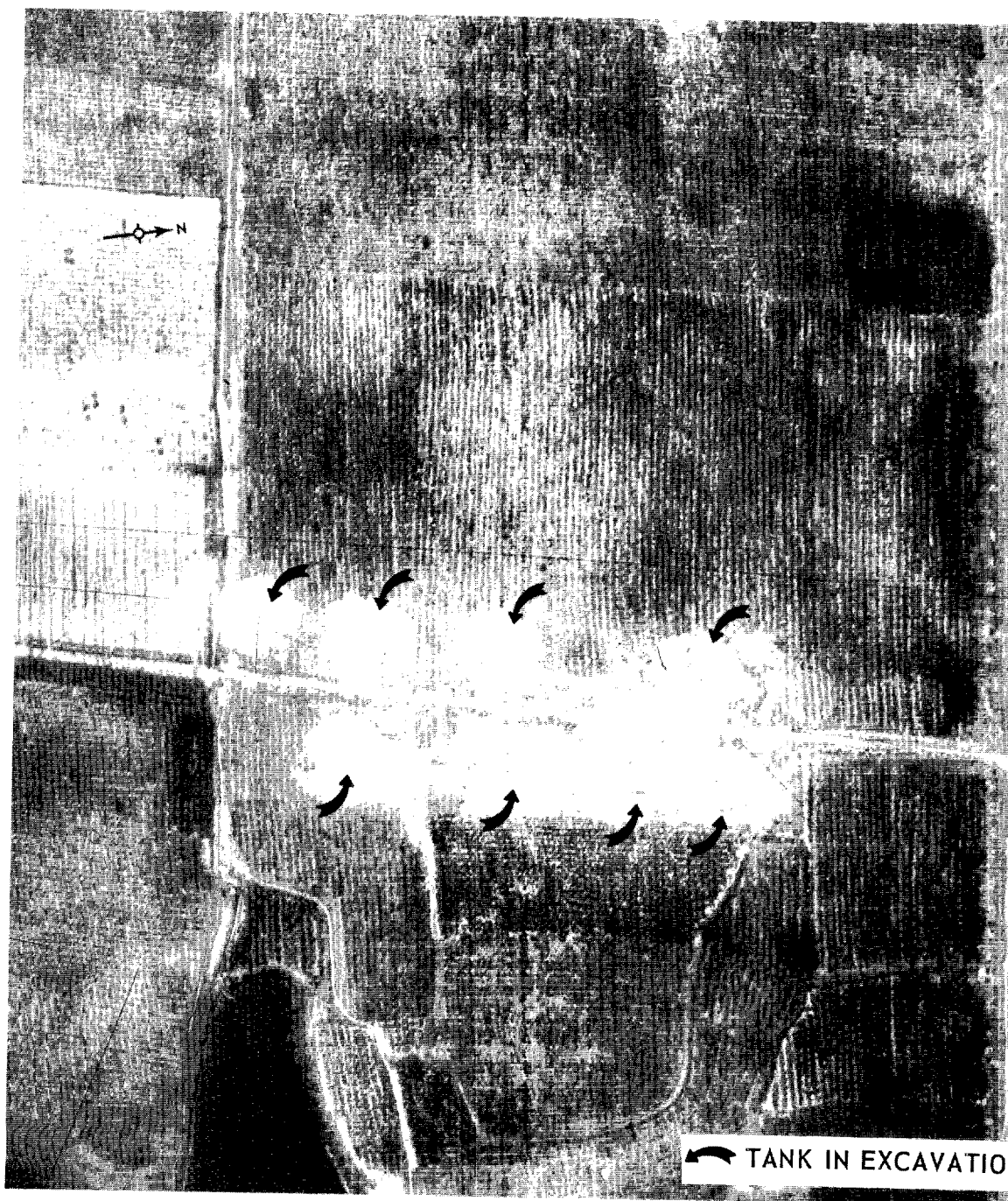
R-218/66

16 November 1966

WJ701005  
UTM COORDINATES

THUONG LAM PETROLEUM PRODUCTS STORAGE

2048N 10540E  
GEOGRAPHIC COORDINATES



25X1

B120  
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25X1C

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10 November 1966

25X1

0616-  
BE NUMBERXH225839  
UTM COORDINATES2039N 10610E  
GEOGRAPHIC COORDINATES

NAME: CAU CONG PETROLEUM PRODUCTS STORAGE

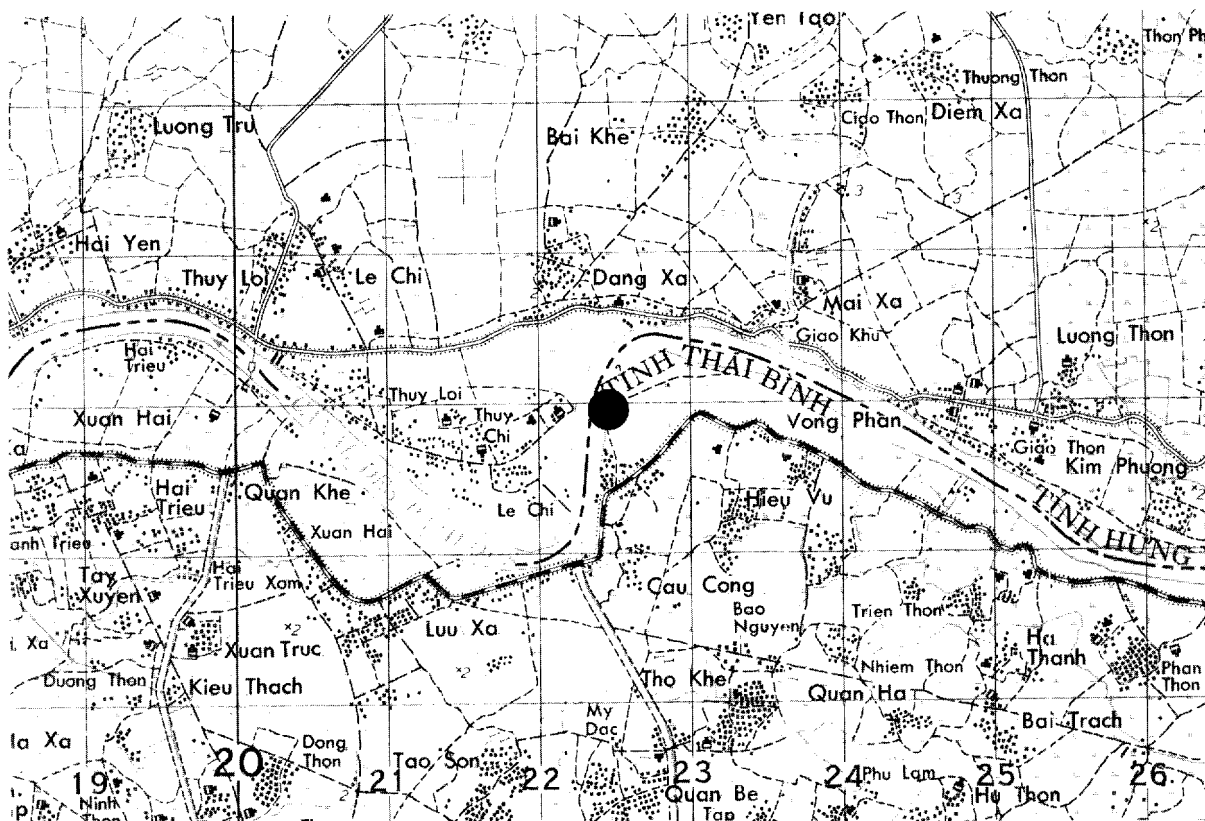
LOCATION: 0.5 NM NORTH OF CAU CONG ON SOUTH BANK OF CANAL DES BAMBOUS

DESCRIPTION: AREA CONTAINS 30 BUNKERED TANKS AND 2 ABOVEGROUND TANKS.

ESTIMATED CAPACITY: TANK 384 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6250-III, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, 1965 (U)

25X1



B121

25X1C

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CONFIDENTIAL

25X1

25X1

CONFIDENTIAL  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
[redacted] [redacted]

R-218/66  
16 November 1966

XH225839  
UTM COORDINATES

CAU CONG PETROLEUM PRODUCTS STORAGE

2039N 10610E  
GEOGRAPHIC COORDINATES



25X1

25X1C B122  
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[redacted] [redacted]

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R-218/66

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

25X1

25X1A

[REDACTED]

BE NUMBER

WJ908773

UTM COORDINATES

2129N 10552E

GEOGRAPHIC COORDINATES

NAME: TUNG TU PETROLEUM PRODUCTS STORAGE UG

LOCATION: 0.2 NM NNE OF TUNG TU, IMMEDIATELY WEST OF ROUTE 3, AND 5.8 NM SSE OF THAI NGUYEN

DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS SITE UNDER CONSTRUCTION CONSISTS OF AT LEAST 14 BUNKERED LARGE TANKS, 1 LARGE TANK IN OPEN EXCAVATION, 1 EMPTY EXCAVATION, AND AN UNIDENTIFIED OBJECT IN AN OPEN EXCAVATION.

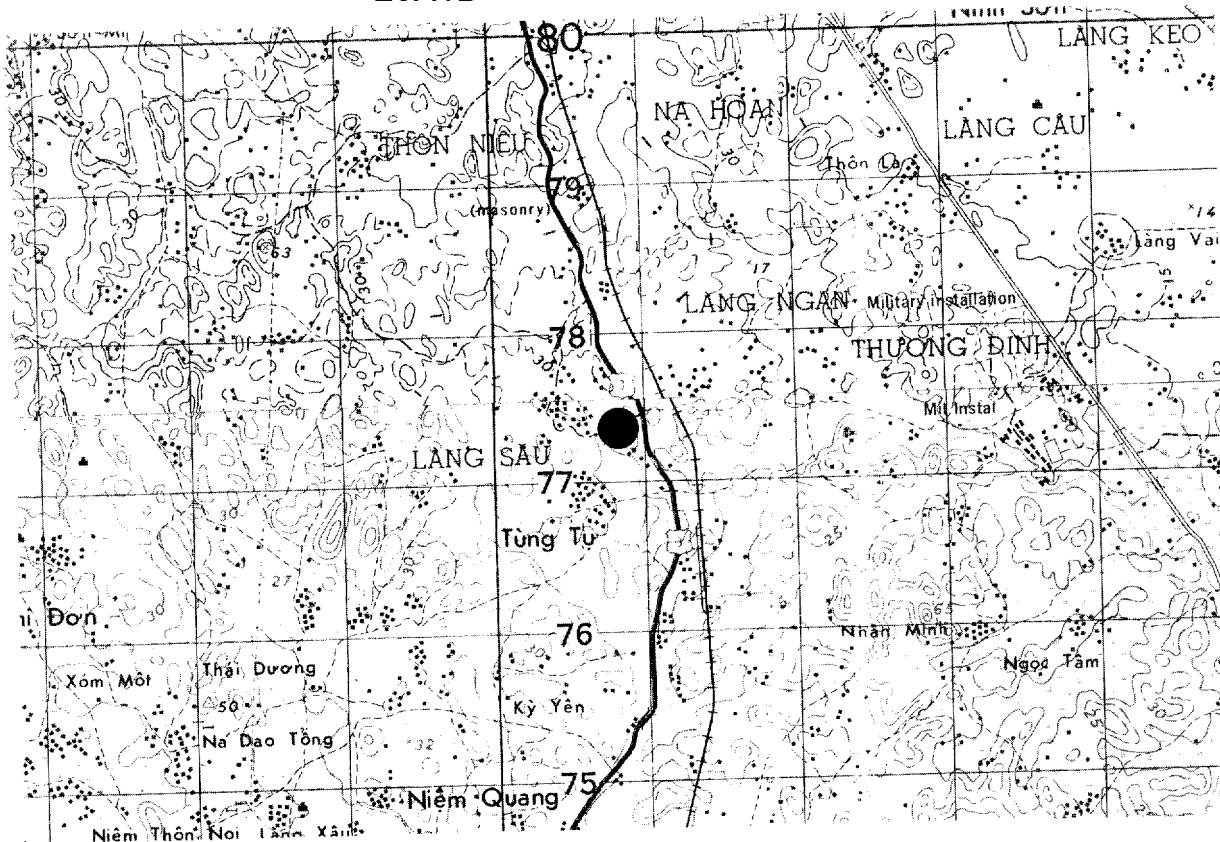
25X1

ESTIMATED CAPACITY: TANK 375 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, 1965 (U)

PHOTO REFERENCE: [REDACTED]

25X1D



B123

25X1C

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CONFIDENTIAL

25X1

[REDACTED]



25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

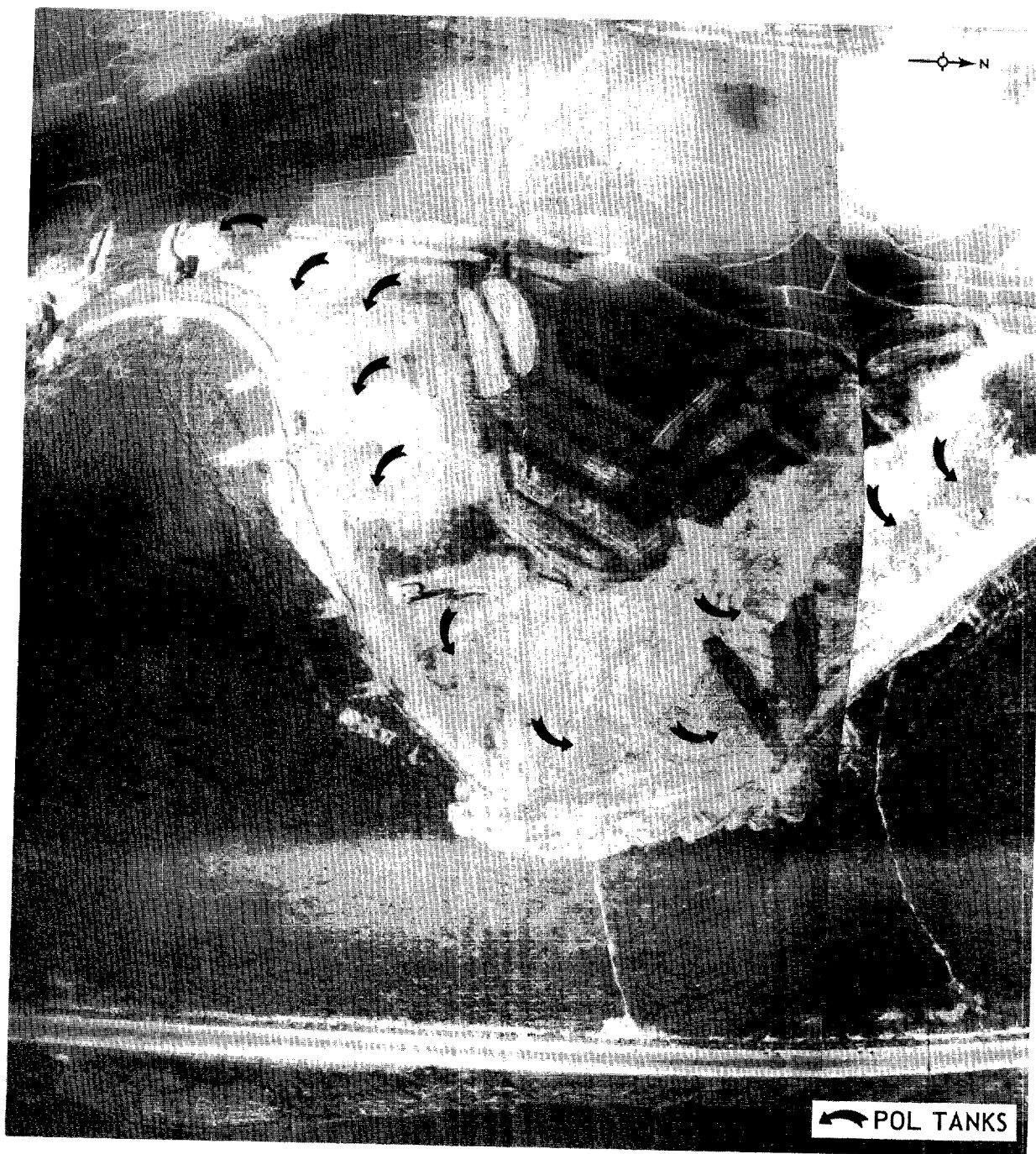
CONFIDENTIAL

R-218/66  
16 November 1966

WJ908773  
UTM COORDINATES

TUNG TU PETROLEUM PRODUCTS STORAGE UG

2129N 10552E  
GEOGRAPHIC COORDINATES



25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

B124

CONFIDENTIAL

25X1

0616-  
BE NUMBER

XJ674266  
UTM COORDINATES

2102N 10636E  
GEOGRAPHIC COORDINATES

**NAME:** DON SON PETROLEUM PRODUCTS STORAGE

**LOCATION:** 0.6 NM NW OF DON SON, ON NORTH BANK OF THE SONG DA BACH

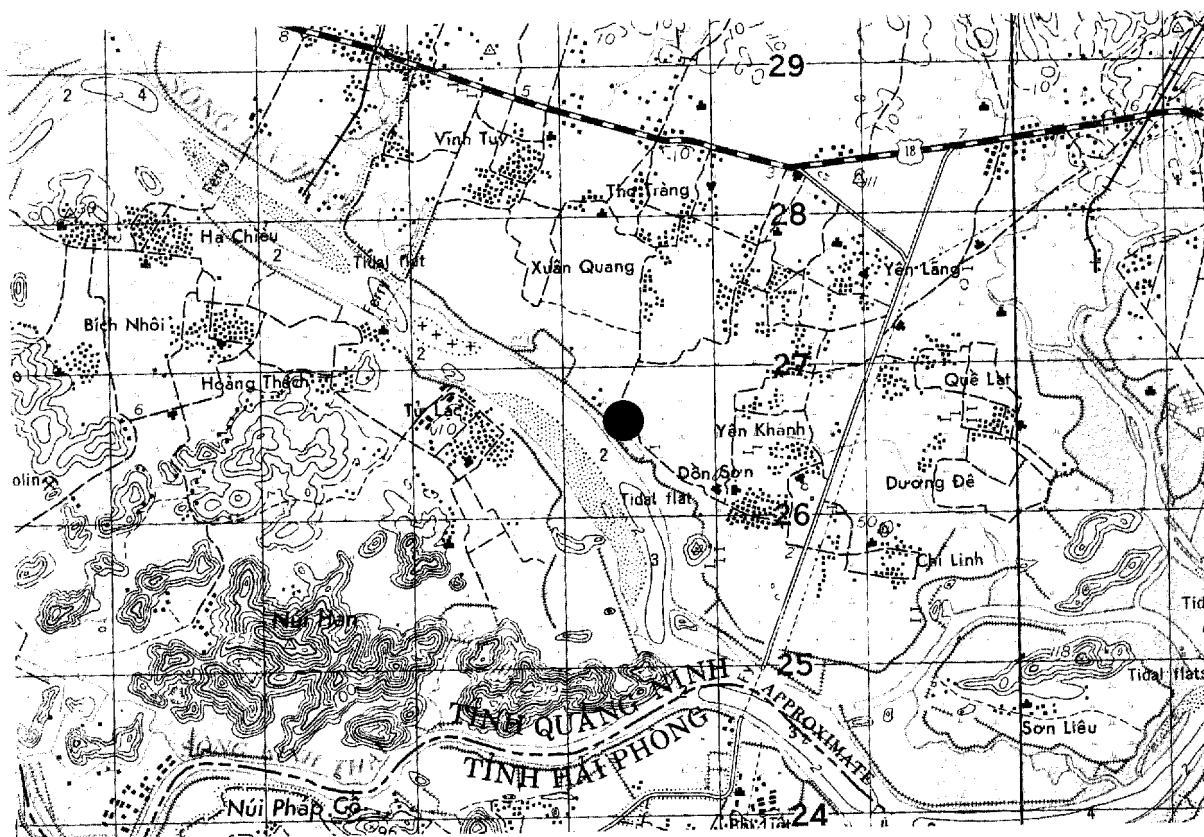
**DESCRIPTION:** AREA CONSISTS OF APPROXIMATELY 62 BUNKERED TANKS IN 7 SEPARATE GROUPS.

**ESTIMATED CAPACITY:** TANK 744 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6351-III, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-12, 1ST ED, 1965 (U)

**PHOTO REFERENCE:**

25X1D



25X1C

B125

25X1

25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

CONFIDENTIAL

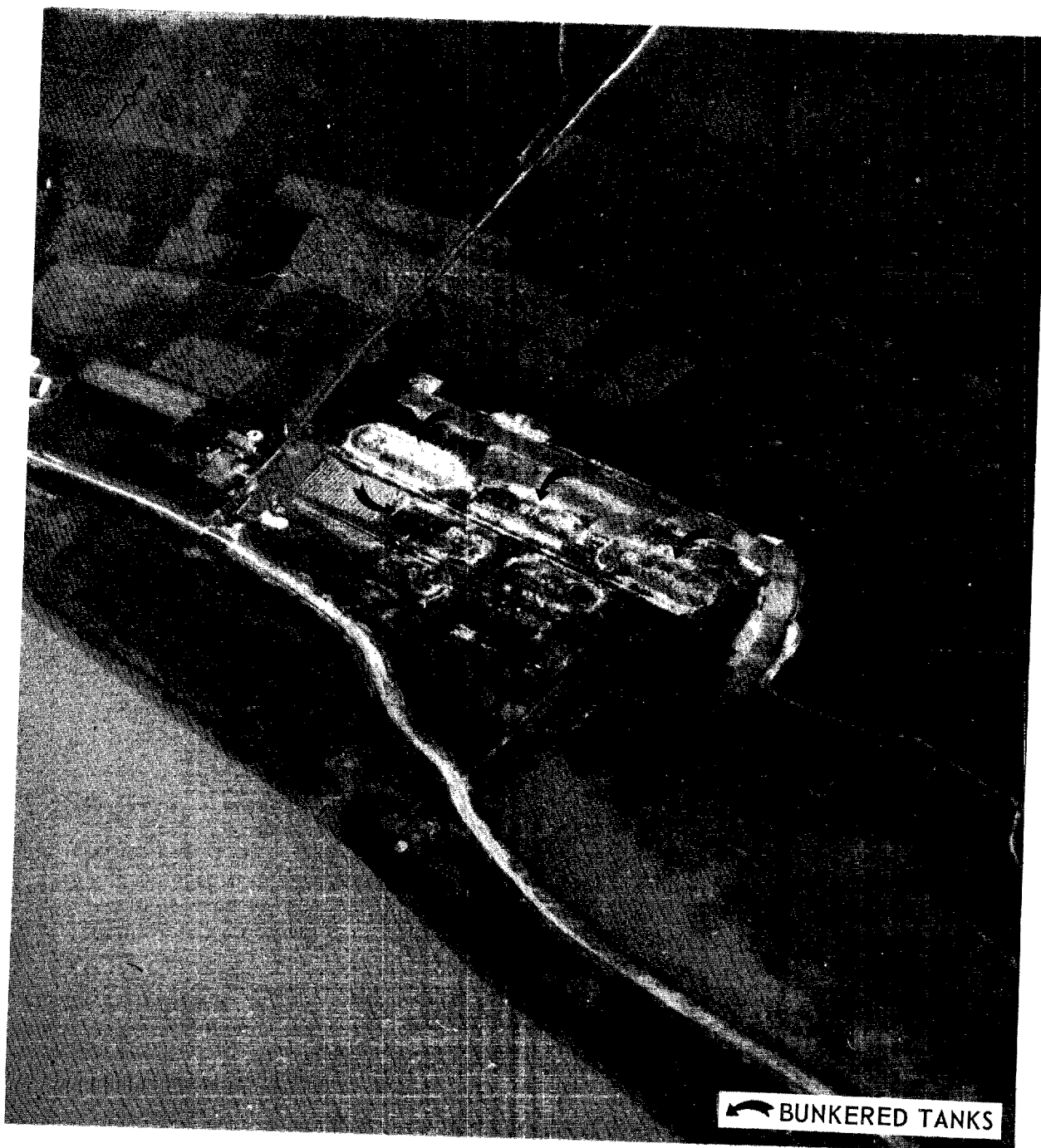
R-218/66

16 November 1966

DON SON PETROLEUM PRODUCTS STORAGE

XJ674266  
UTM COORDINATES

2102N 10636E  
GEOGRAPHIC COORDINATES



25X1

25X1C  
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B126

CONFIDENTIAL



25X1C

Approved For Release 2008/08/04 : CIA-RDP78B04560A005500010031-4

R-218/66

18 NOVEMBER 1966

25X1

0616-  
BE NUMBERXJ697237  
UTM COORDINATES2100N 10638E  
GEOGRAPHIC COORDINATES

NAME: QUY KHE PETROLEUM PRODUCTS STORAGE

LOCATION: 0.9 NM WEST OF QUY KHE ON SOUTH BANK OF THE SONG DA BACH.

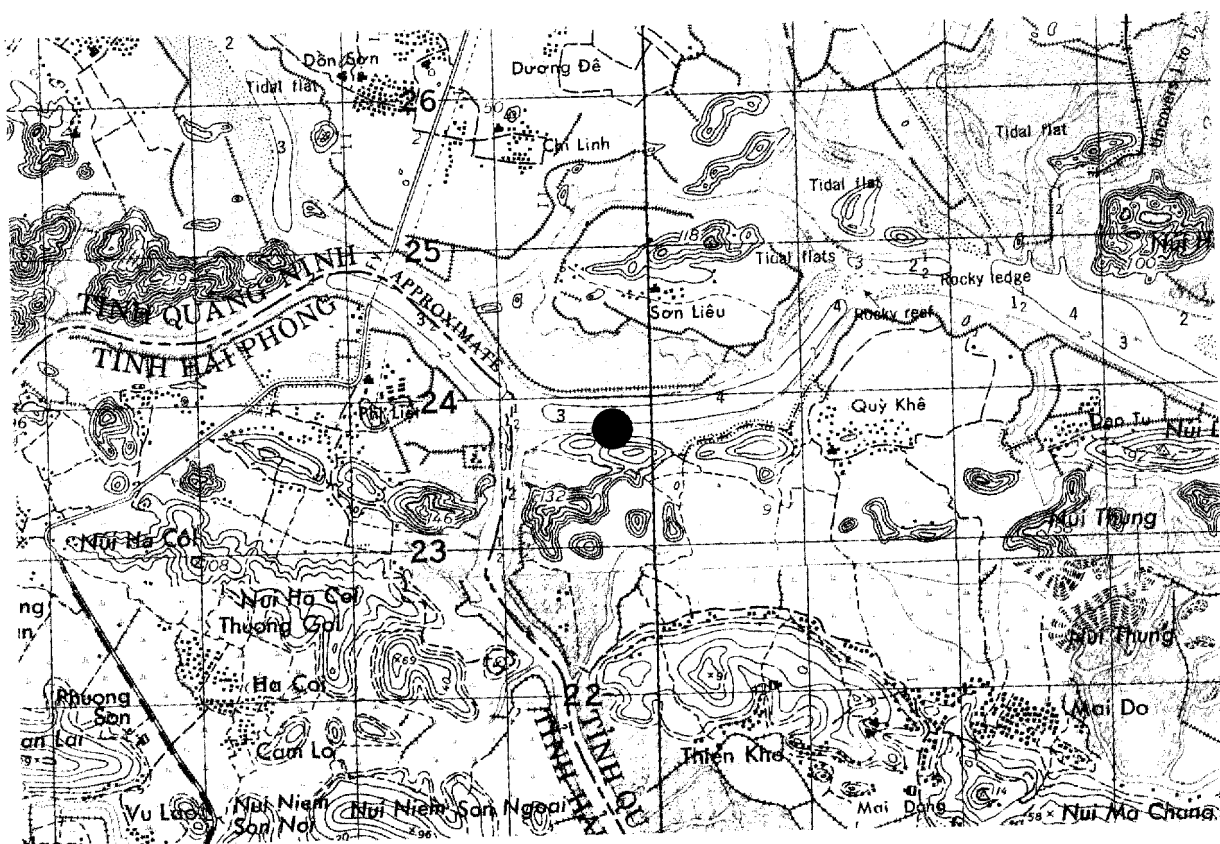
DESCRIPTION: AREA CONSISTS OF APPROXIMATELY 112 BUNKERED TANKS.

ESTIMATED CAPACITY: TANK 1,344 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6351-III, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-12, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



25X1C

B127

Approved For Release 2008/08/04 : CIA-RDP78B04560A005500010031-4

CONFIDENTIAL

25X1

25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

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16 November 1966

XJ697237  
UTM COORDINATES

QUY KHE PETROLEUM PRODUCTS STORAGE

2100N 10638E  
GEOGRAPHIC COORDINATES



B128

25X1C  
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25X1

25X1C  
CONFIDENTIAL

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R-218/66

25X1

0616-  
BE NUMBER

XJ374286  
UTM COORDINATES

2103N 10619E  
GEOGRAPHIC COORDINATES

**NAME:** TRAN XA PETROLEUM PRODUCTS STORAGE

**LOCATION:** 0.5 NM SW OF TRAN XA ON SOUTH BANK OF THE SONG KINH THAY AND JUST WEST OF ROUTE 181

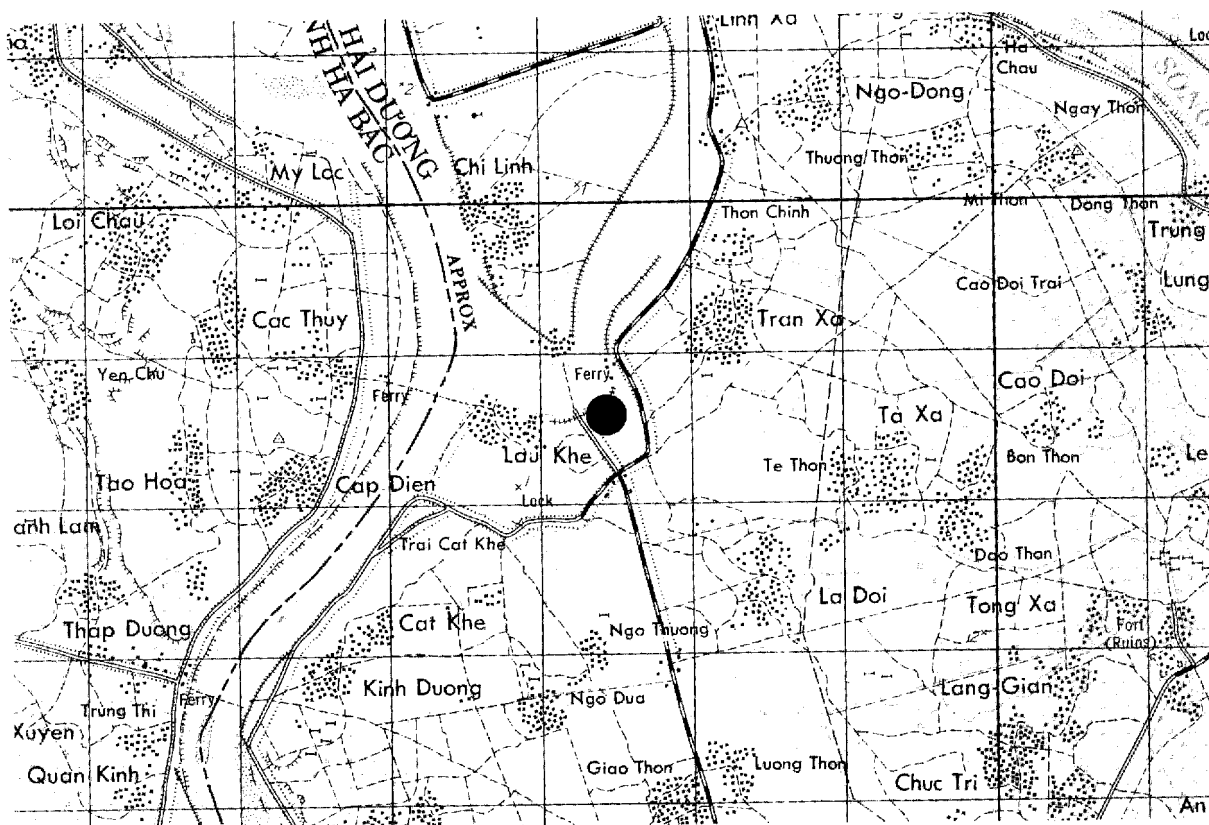
**DESCRIPTION:** AREA IS SECURED BY A FENCE AND CONSISTS OF 25 BUNKERS WITH 2 TANKS PER BUNKER FOR A TOTAL OF 50 TANKS.

**ESTIMATED CAPACITY:** TANK 1,250 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6251-II, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF48-II, 1ST ED, 1965 (U)

**PHOTO REFERENCE:**

25X1D



25X1C

B129

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25X1

25X1

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
25X1C [REDACTED] [REDACTED]

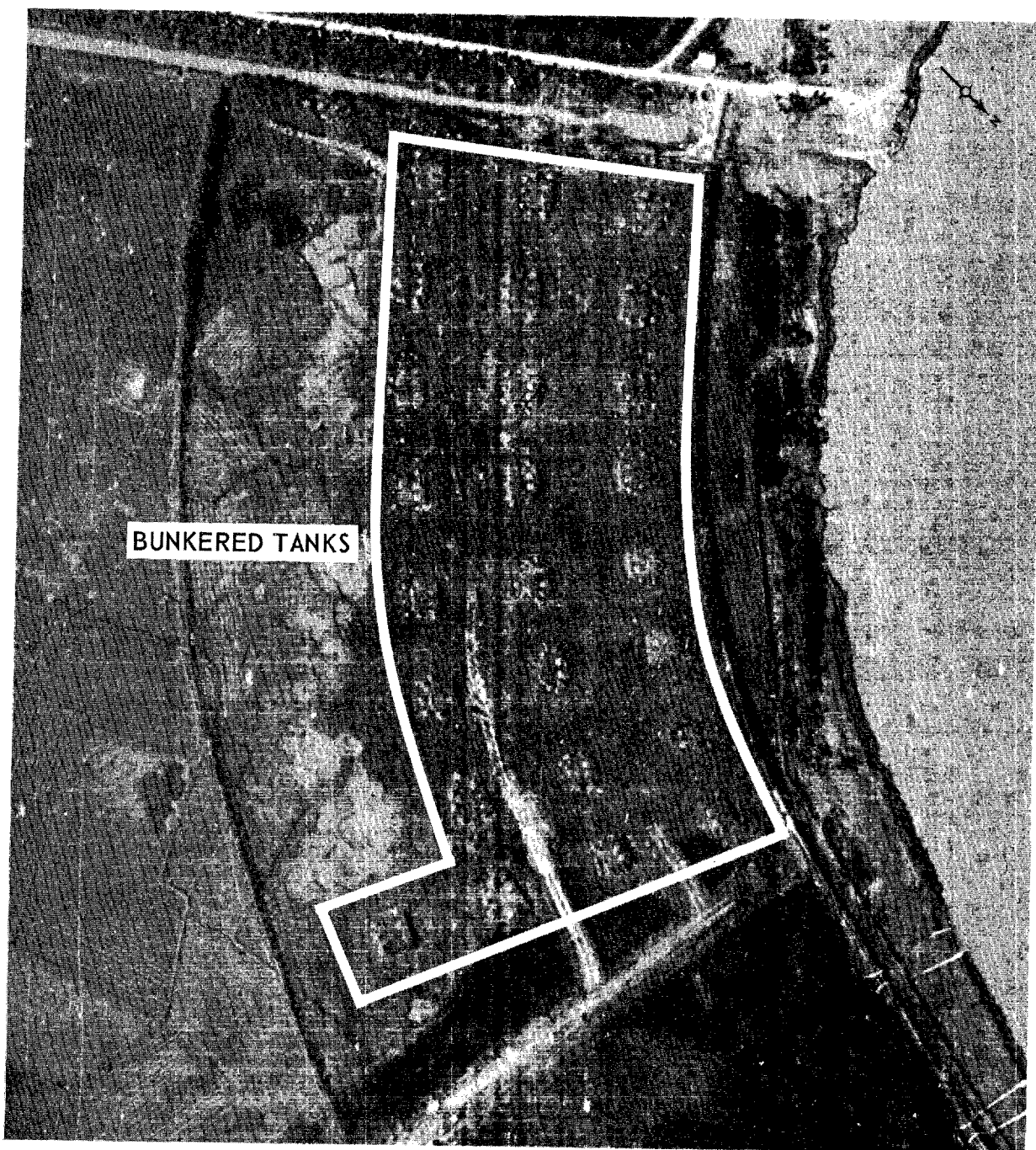
CONFIDENTIAL

R-218/66  
16 November 1966

XJ374286  
UTM COORDINATES

TRAN XA PETROLEUM PRODUCTS STORAGE

2103N 10619E  
GEOGRAPHIC COORDINATES



25X1C  
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B130

CONFIDENTIAL

25X1

CONFIDENTIAL

R-218/66

10 November 1966

25X1A

BE NUMBER

WG811916  
UTM COORDINATES

1949N 10546E  
GEOGRAPHIC COORDINATES

NAME: THANH HOA PETROLEUM PRODUCTS STORAGE

LOCATION: 0.8 NM NORTH OF THANH HOA, ADJACENT TO THE THANH HOA/HA NOI RAIL LINE

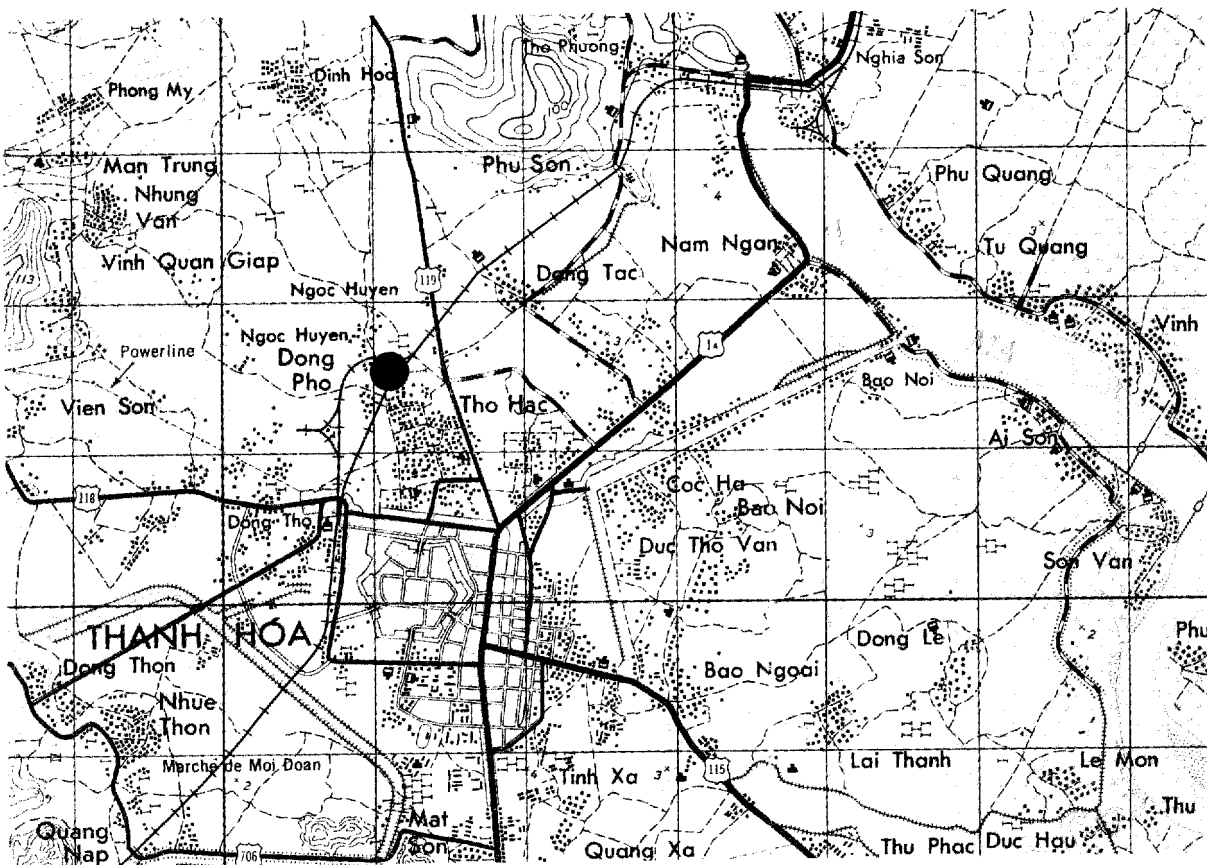
DESCRIPTION: FENCE-SECURED AREA CONTAINS 12 SMALL BUNKERED TANKS.

ESTIMATED CAPACITY: TANK 84 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6148 I, 1ST ED, 1965 (U)  
AMS SERIES JOG(C) 1501, SHEET NE 48-3, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



B131

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25X1

25X1C  
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CONFIDENTIAL

R-218/66

16 November 1966

WG811916  
UTM COORDINATES

THANH HOA PETROLEUM PRODUCTS STORAGE

1949N 10546E  
GEOGRAPHIC COORDINATES



B132

25X1C

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CONFIDENTIAL

25X1

25X1

CONFIDENTIAL  
 Approved For Release 2003/06/04 : CIA-RDP78B04560A005500010031-4

R-218/66

1966

0616-  
 BE NUMBER

XJ339202  
 UTM COORDINATES

2058N 10617E  
 GEOGRAPHIC COORDINATES

**NAME:** TRAM DU PETROLEUM PRODUCTS STORAGE

**LOCATION:** ON SOUTH BANK OF SONG THAI BINH, 0.3 NM EAST OF TRAM DU, AND 3.5 NM NW OF HAI DUONG

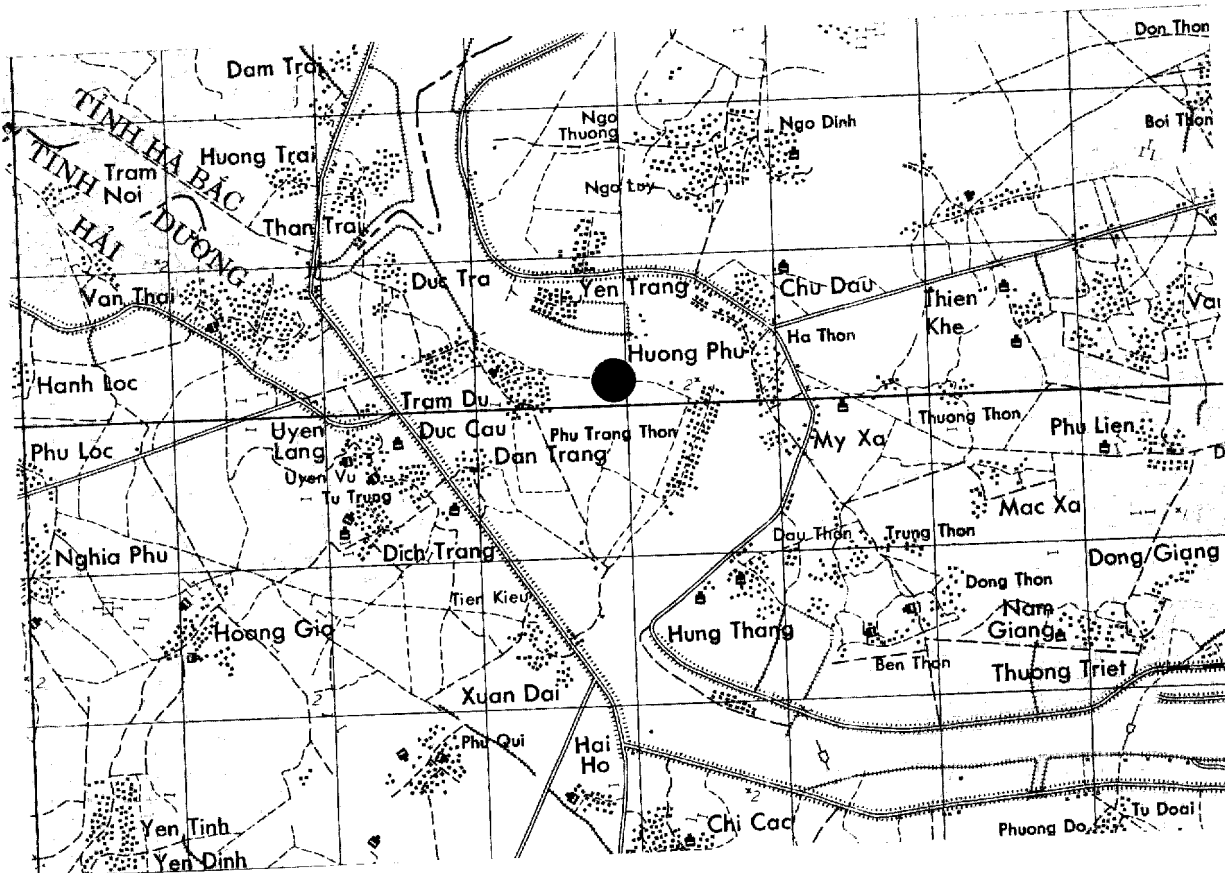
**DESCRIPTION:** FACILITY CONSISTS OF 42 LARGE TANKS IN 4 BUNKERS. TWO CAMOUFLAGED POL BARGES ARE APPROXIMATELY 0.4 NM WNW OF POL FACILITY.

**ESTIMATED CAPACITY:** TANK 1,050 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6250-1, 1ST ED, 1965 (U)  
 AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



B133

25X1C

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25X1

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

25X1C

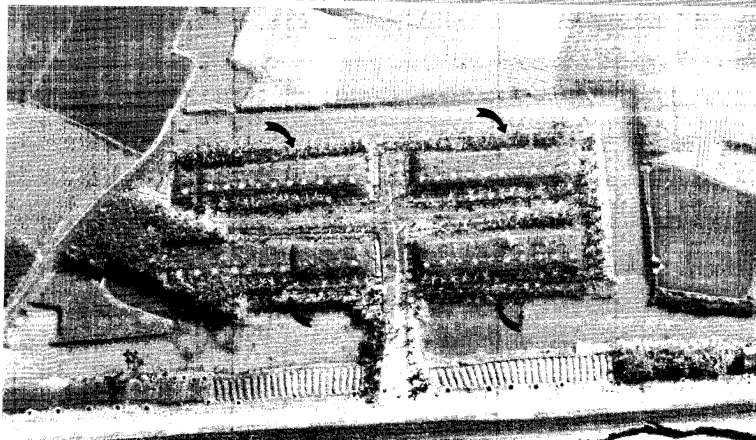
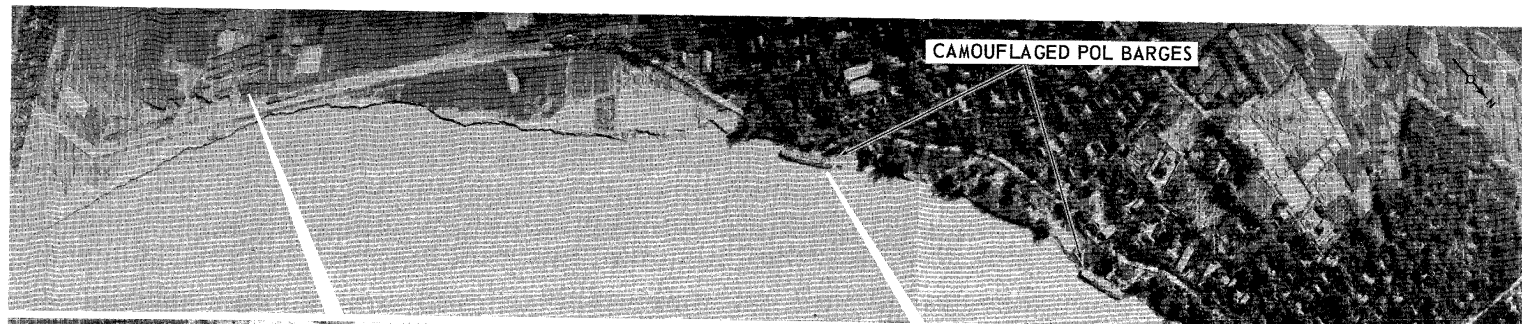
CONFIDENTIAL

TRAM DU PETROLEUM PRODUCTS STORAGE

R-218/66  
16 November 1966

XJ339202  
UTM COORDINATES

2058N 10617E  
GEOGRAPHIC COORDINATES



BUNKERED TANKS

25X1C

B134

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25X1



CONFIDENTIAL

R-218/66  
16 November 1966

25X1

0616-  
BE NUMBER

XJ635156  
UTM COORDINATES

2055N 10634E  
GEOGRAPHIC COORDINATES

NAME: LUC NONG PETROLEUM PRODUCTS STORAGE

LOCATION: 0.2 NM SOUTH OF LUC NONG, 8 NM NW OF HAI PHONG, ON SOUTH BANK OF THE SONG VAN DUONG

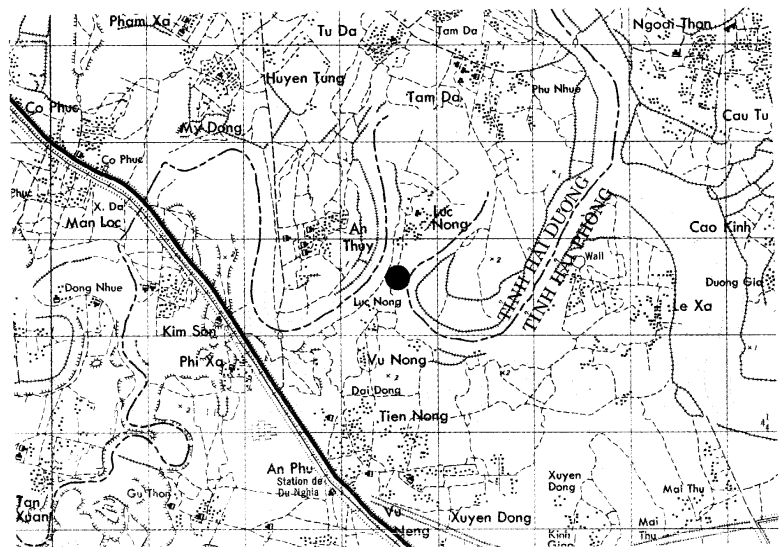
DESCRIPTION: AREA CONSISTS OF 6 BUNKERS CONTAINING AT LEAST 60 TANKS. OBLIQUITY PRECLUDES MORE ACCURATE INTERPRETATION.

ESTIMATED CAPACITY: TANK 720 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6350-IV, 1ST ED, 1965 (U)  
JOG SERIES 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



B135

25X1C

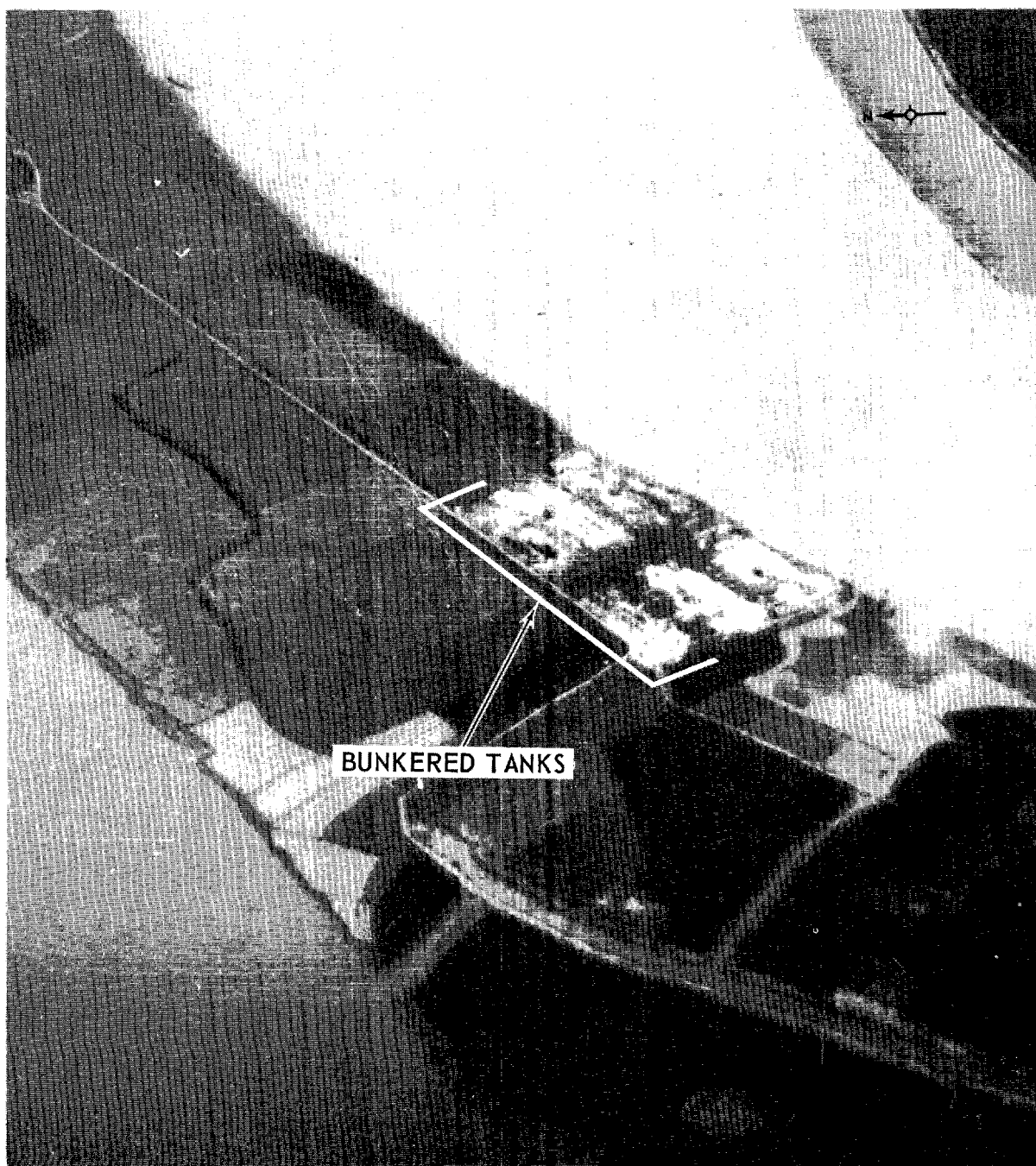
CONFIDENTIAL

25X1

LUC NONG PETROLEUM PRODUCTS STORAGE

XJ635156  
UTM COORDINATES

2055N 10634E  
GEOGRAPHIC COORDINATES



B136

25X1C

R-218/66  
16 November 1966

25X1A

DE NUMBER

WJ836890  
UTM COORDINATES

2136N 10548E  
GEOGRAPHIC COORDINATES

NAME: THAI NGUYEN PETROLEUM PRODUCTS STORAGE

LOCATION: 2.2 NM WNW OF THAI NGUYEN

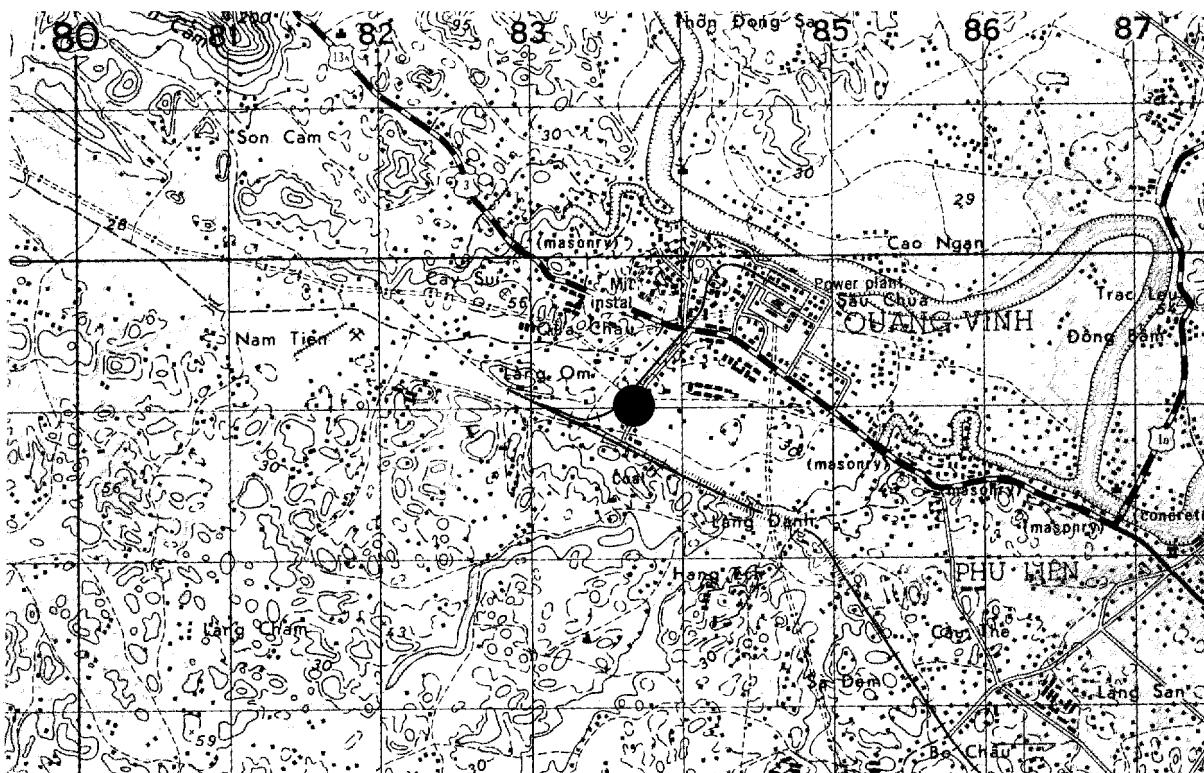
DESCRIPTION: STORAGE AREA CONSISTS OF 6 BUNKERED TANKS AND 1 UNBURIED TANK. PIPES LEAD FROM BUNKERED TANKS TO SEVERELY DAMAGED BUILDING, PROBABLY USED FOR PACKAGING POL DRUMS. APPROXIMATELY 75 DRUMS ARE OBSERVED.

ESTIMATED CAPACITY: TANK 84 MT, DRUM 15 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6152 II, 1ST ED, 1964 (U)  
JOG SERIES 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



25X1C

B137

CONFIDENTIAL

25X1

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R-218/66  
16 November 1966

THAI NGUYEN PETROLEUM PRODUCTS STORAGE

WJ836890  
UTM COORDINATES

2136N 10548E  
GEOGRAPHIC COORDINATES



B138

25X1C

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25X1

CONFIDENTIAL

R-218/66

10 November 1966

25X1

0616-  
BE NUMBER

XJ625149  
UTM COORDINATES

2055N 10633E  
GEOGRAPHIC COORDINATES

**NAME:** TIEN NONG PETROLEUM PRODUCTS STORAGE

**LOCATION:** 0.5 NM NNW OF TIEN NONG, 8 NM NW OF HAI PHONG, ON SOUTH BANK OF SONG VAN DUONG

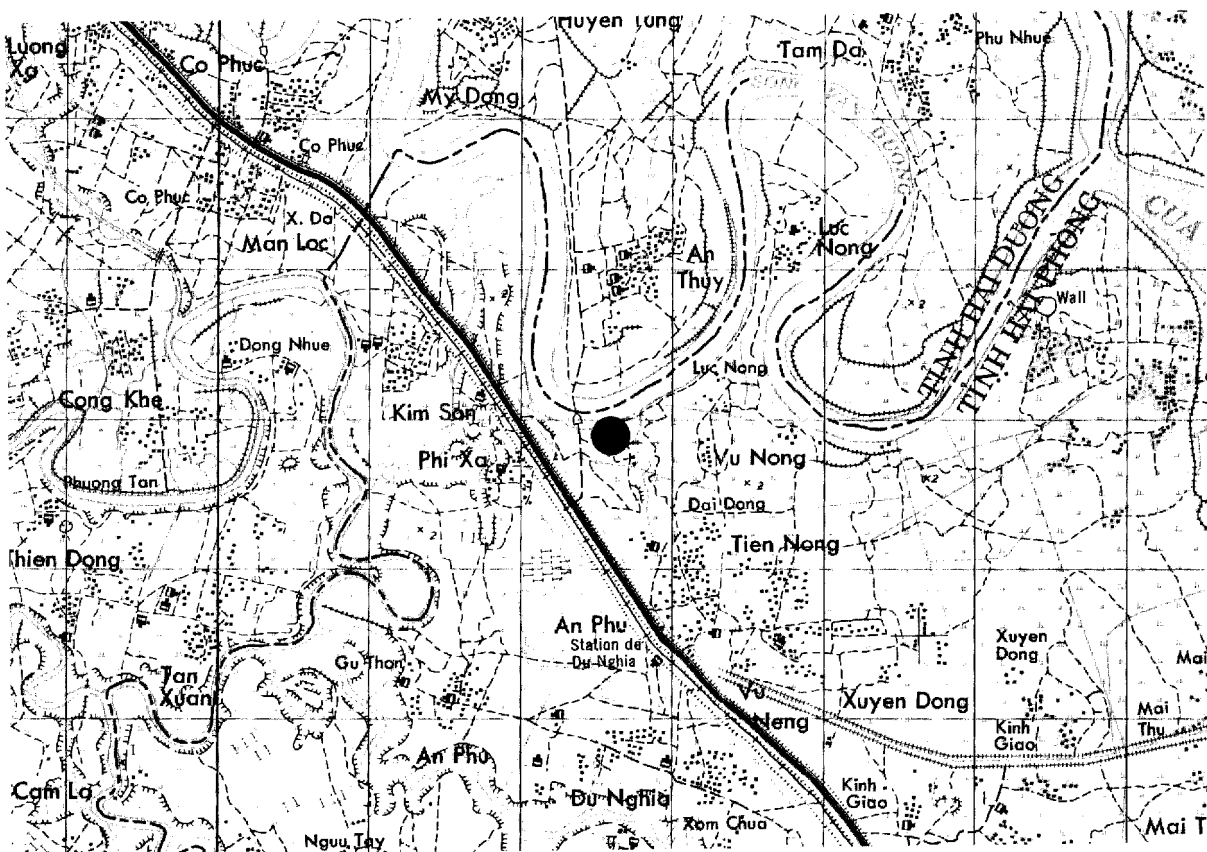
**DESCRIPTION:** AREA CONSISTS OF 14 BUNKERS CONTAINING A TOTAL OF 35 TANKS.

**ESTIMATED CAPACITY:** TANK 420 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



B139

25X1C

CONFIDENTIAL

25X1



25X1C

CONFIDENTIAL

R-218/66

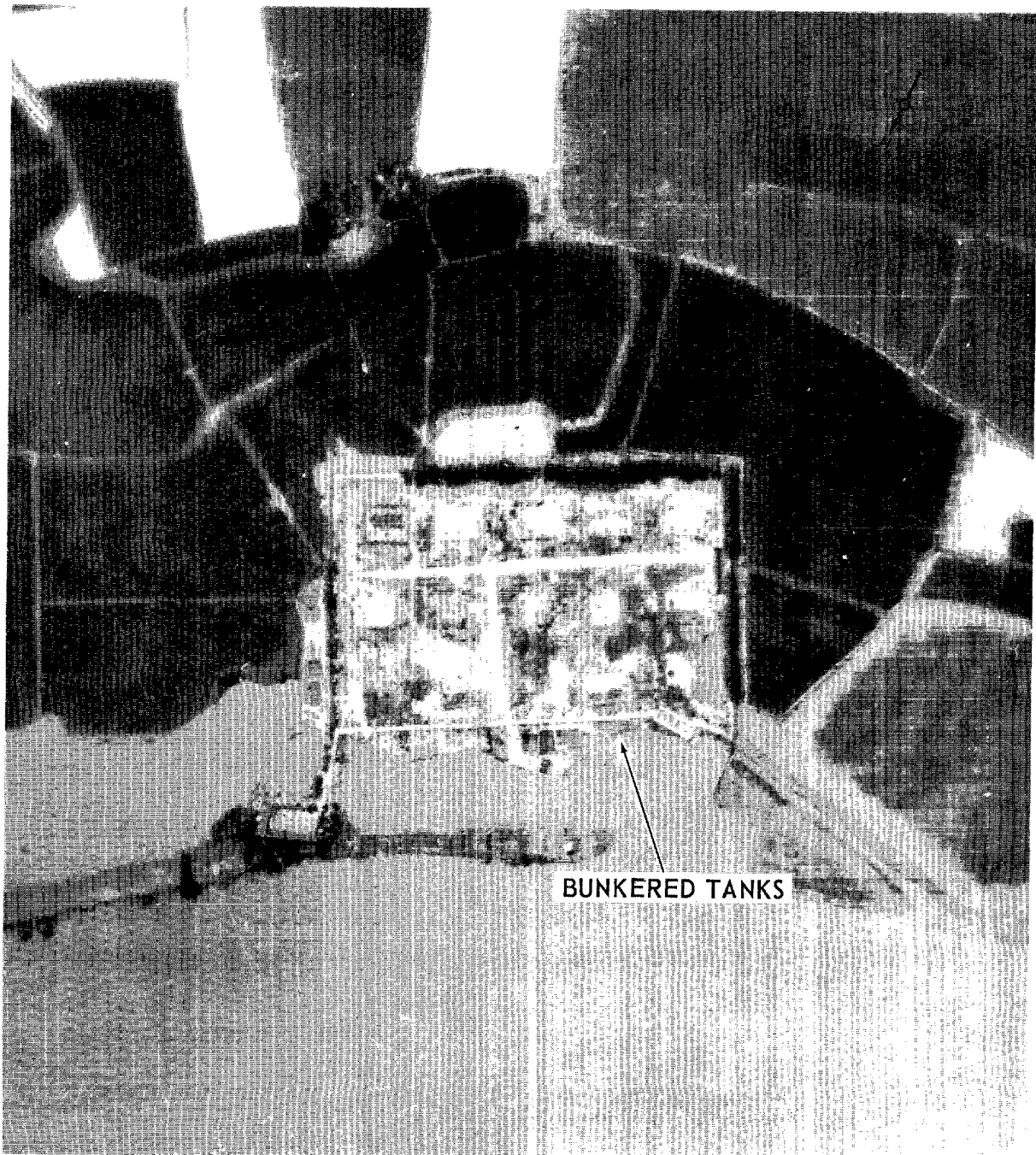
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

10 November 1966

TIEN NONG PETROLEUM PRODUCTS STORAGE

XJ625149  
UTM COORDINATES

2055N 10633E  
GEOGRAPHIC COORDINATES



BUNKERED TANKS

B140

25X1C

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25X1

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25X1C Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4 R-218/66  
10 November 1966

25X1A

BE NUMBER

WF738621  
UTM COORDINATES

1839N 10542E  
GEOGRAPHIC COORDINATES

**NAME:** VINH PETROLEUM PRODUCTS STORAGE PUG BEN THUY

**LOCATION:** 1.8 NM SE OF VINH, 0.6 NM NW OF BEN THUY PORT AND THE SONG CA

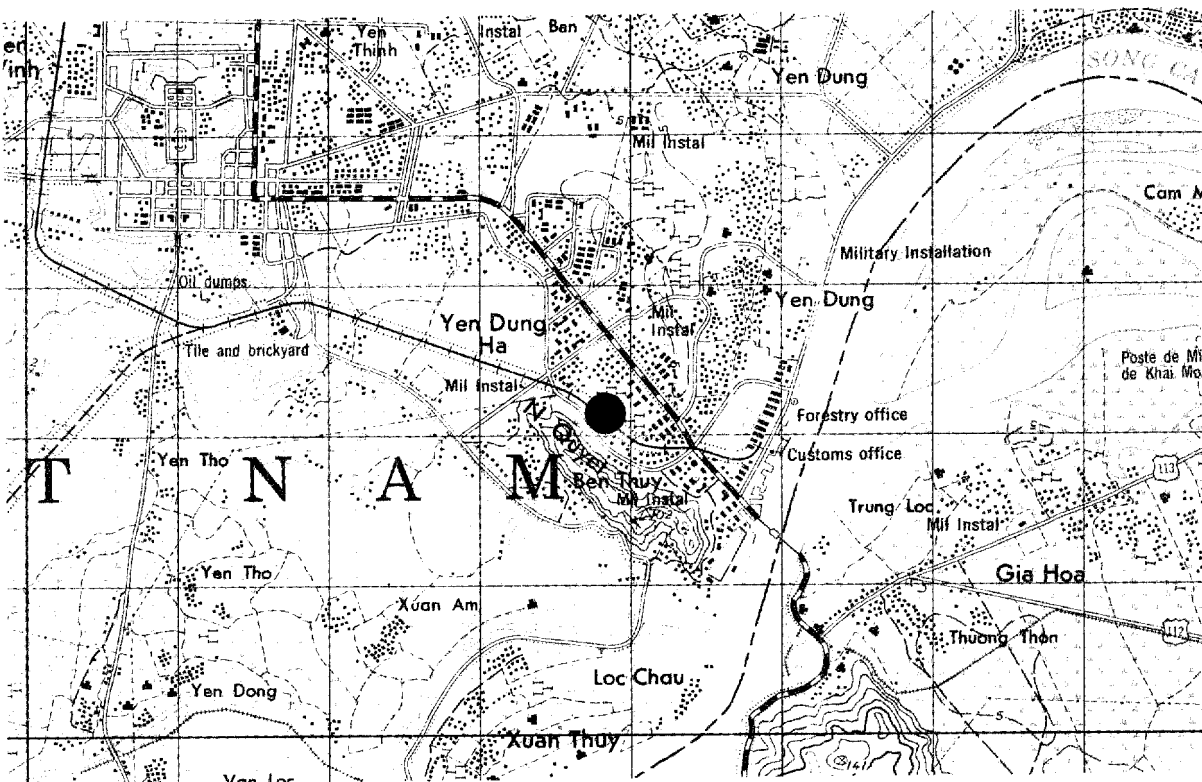
**DESCRIPTION:** AREA CONTAINS 8 BUNKERED TANKS IN PAIRS ADJACENT TO RAIL LINE AND 6 TANKS IN SINGLE BUNKER ADJACENT TO RAIL SPUR.

**ESTIMATED CAPACITY:** TANK 168 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6146-III, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



25X1C

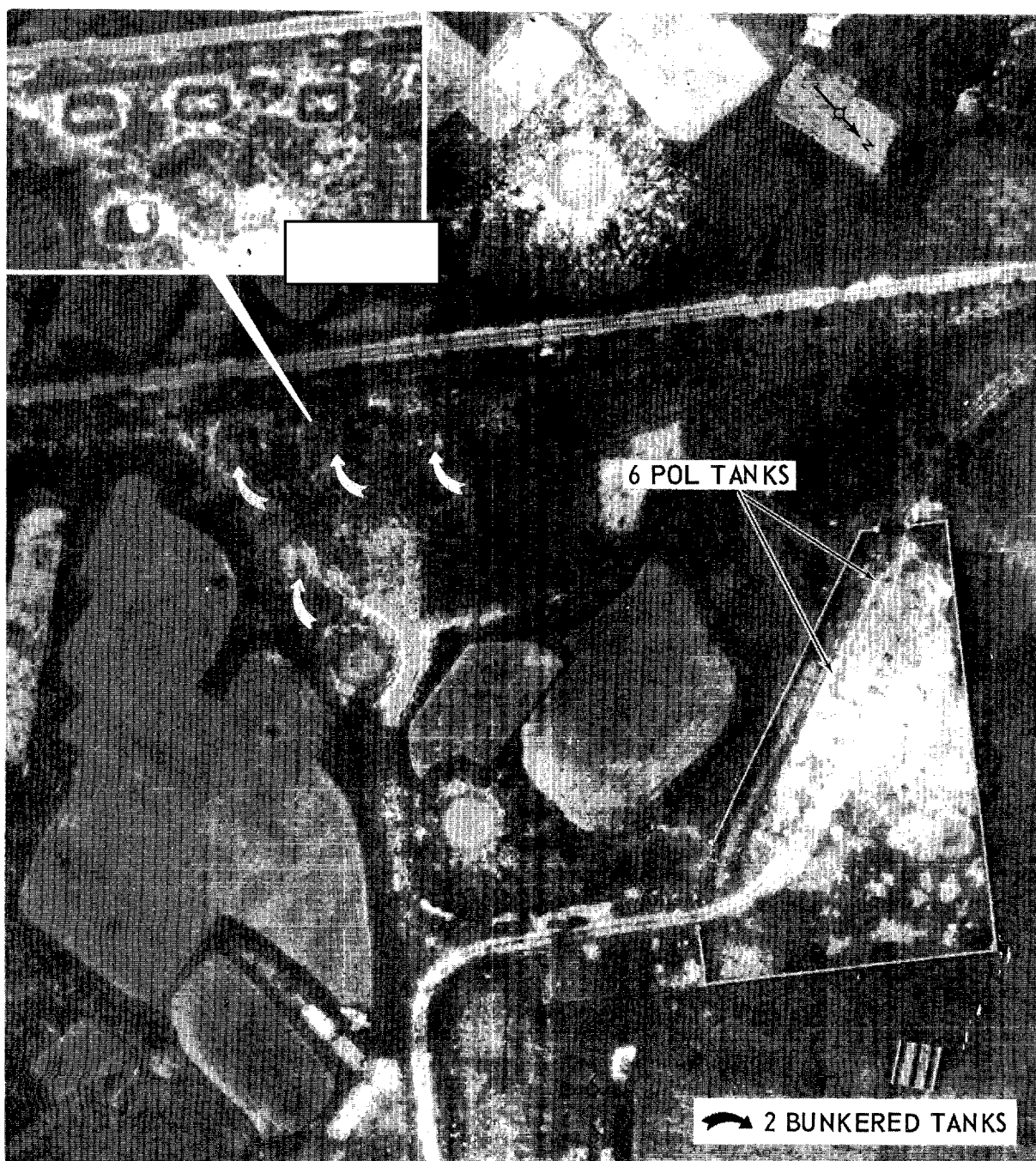
B141

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25X1

VINH PETROLEUM PRODUCTS STORAGE PUG BEN THUY  
WF738621  
UTM COORDINATES  
1839N 10542E  
GEOGRAPHIC COORDINATES

25X1D





0616-  
BE NUMBER

XJ377304  
UTM COORDINATES

2104N 10619E  
GEOGRAPHIC COORDINATES

**NAME:** CHI LINH PETROLEUM PRODUCTS STORAGE

**LOCATION:** 0.6 NM ENE OF CHI LINH, 24 NM NW OF HAI PHONG, ON WEST BANK OF THE SONG KINH THAY

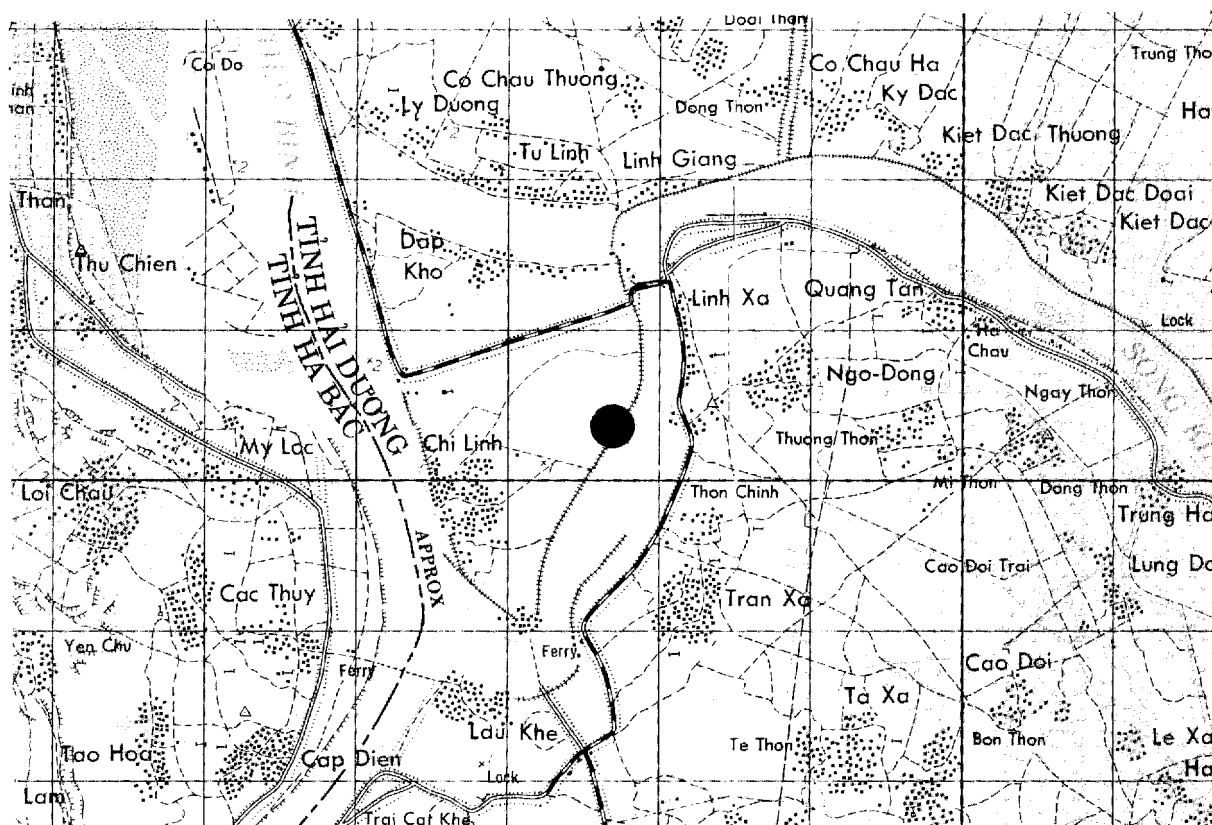
**DESCRIPTION:** AREA CONSISTS OF 13 BUNKERS CONTAINING APPROXIMATELY 144 TANKS. PHOTOGRAPHIC QUALITY PRECLUDES MORE ACCURATE TANK COUNT.

**ESTIMATED CAPACITY:** TANK 1,728 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6251-II, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



B143

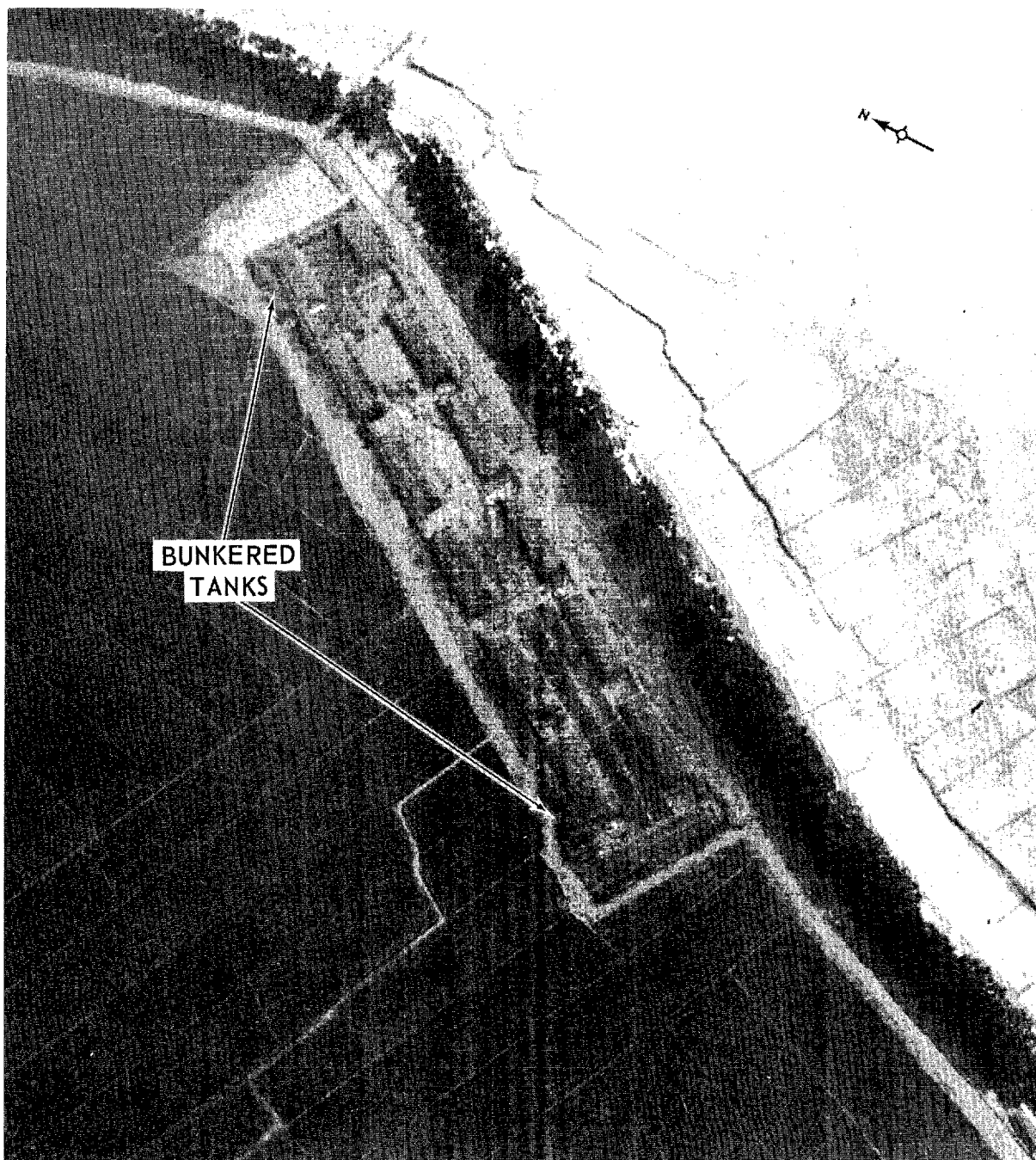
25X1

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R-218/66  
16 November 1966

WJ377304  
UTM COORDINATES

CHI LINH PETROLEUM PRODUCTS STORAGE

2104N 10619E  
GEOGRAPHIC COORDINATES



25X1

B144  
CONFIDENTIAL  
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25X1

25X1A

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	WF708686	1842N 10540E

**NAME:** VINH PETROLEUM PRODUCTS STORAGE PUG YEN DAI

**LOCATION:** 0.3 NM WEST OF YEN DAI; 2.5 NM NORTH OF VINH BETWEEN ROUTE 1A AND THE VINH/THANH HOA RAIL LINE

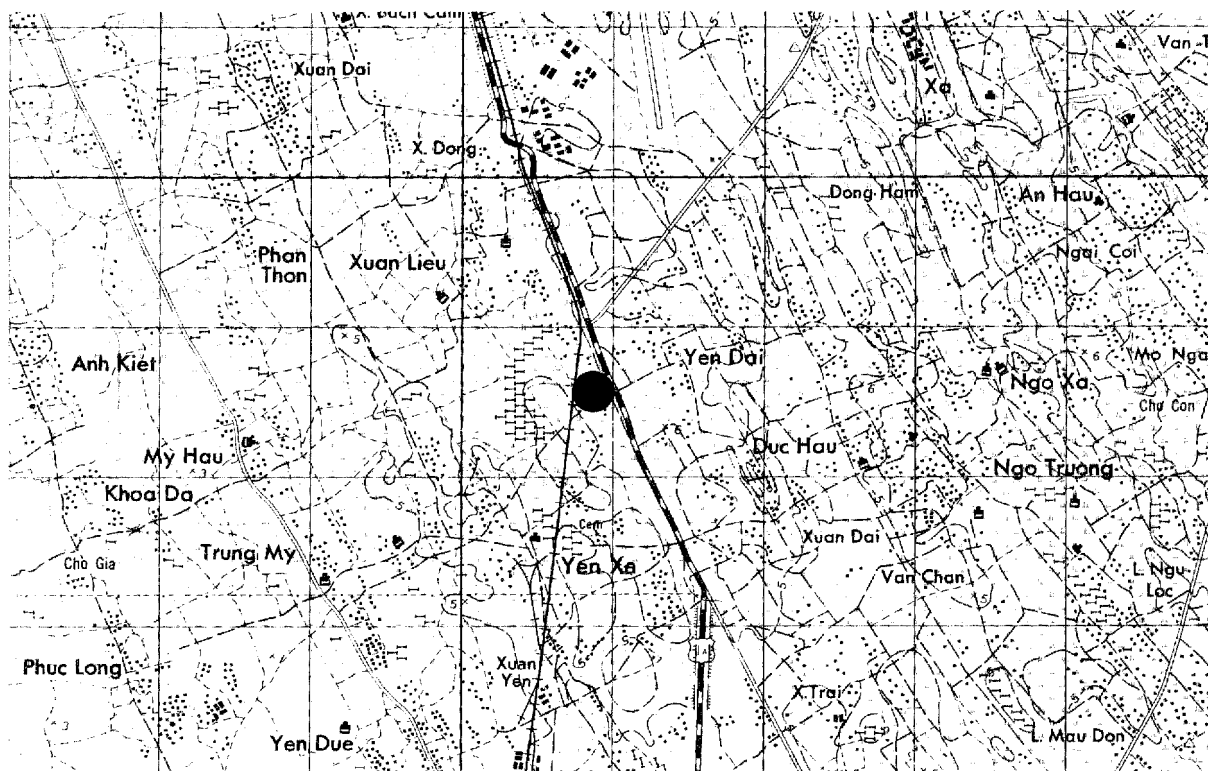
**DESCRIPTION:** STORAGE CONSISTS OF 6 BUNKERED TANKS.

**ESTIMATED CAPACITY:** TANK 72 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6145 III, 1ST ED, 1965 (U)  
AMS SERIES JOC(C) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



25X1

25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
CONFIDENTIAL  
R-218/66  
16 November 1966

VINH PETROLEUM PRODUCTS STORAGE PUG YEN DAI

WF708686  
UTM COORDINATES

1842N 10540E  
GEOGRAPHIC COORDINATES



25X1

25X1C  
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CONFIDENTIAL  
B146

25X1

25X1C CONFIDENTIAL R-218/66  
 Approved For Release 2006/06/04 : CIA-RDP78B04560A005500010031-4 per 1966

0616-  
 BE NUMBER

XJ695125  
 UTM COORDINATES

2054N 10637E  
 GEOGRAPHIC COORDINATES

**NAME:** HOANG PHA PETROLEUM PRODUCTS STORAGE

**LOCATION:** 0.4 NM NW OF HOANG PHA, 4.3 NM NW OF HAI PHONG, NEAR EAST BANK OF THE CUA CAM

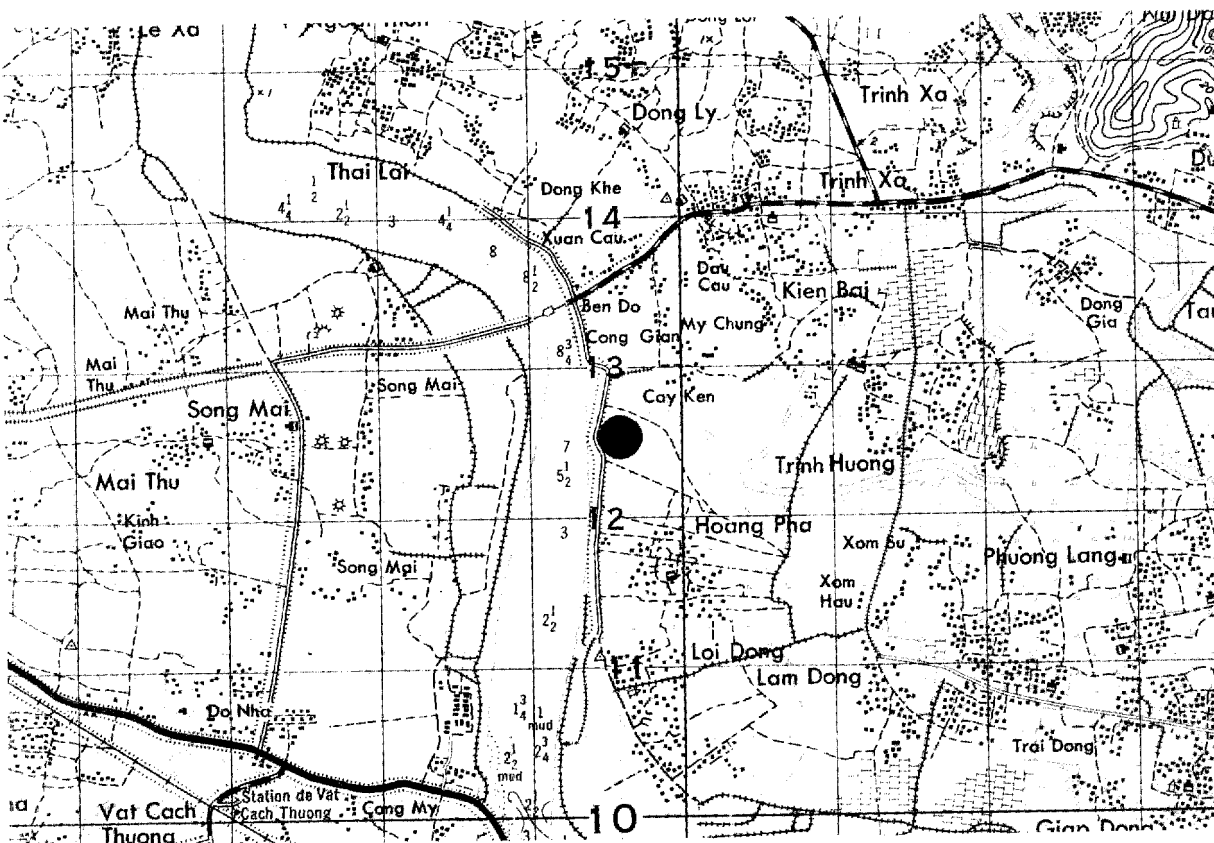
**DESCRIPTION:** AREA CONTAINS 20 TANKS, 2 IN EACH OF 10 BUNKERS.

**ESTIMATED CAPACITY:** TANK 240 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
 AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



B147

25X1C CONFIDENTIAL  
 Approved For Release 2006/06/04 : CIA-RDP78B04560A005500010031-4

25X1

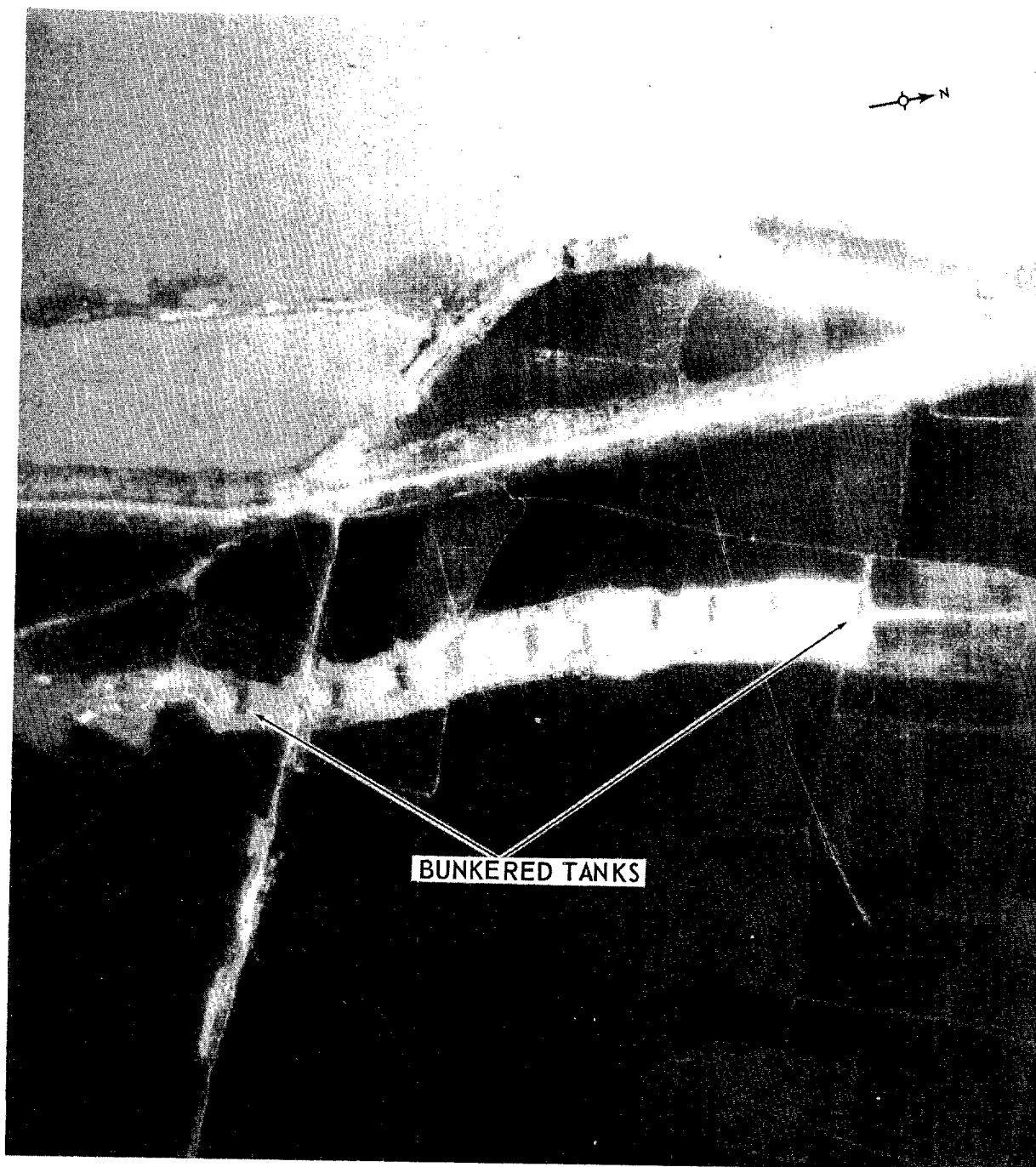
25X1

25X1C **CONFIDENTIAL**  
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16 November 1966

HOANG PHA PETROLEUM PRODUCTS STORAGE

XJ695125  
UTM COORDINATES

2054N 10637E  
GEOGRAPHIC COORDINATES



25X1

25X1C **CONFIDENTIAL** B148  
Approved For Release 2003/06/04 : CIA-RDP78B04560A005500010031-4

25X1

0616-  
BE NUMBER

XJ688001  
UTM COORDINATES

2047N 10637E  
GEOGRAPHIC COORDINATES

NAME: KIEN AN POL STORAGE

25X1A

LOCATION: 0.8 NM SE OF HAIPHONG/KIEN AN AIRFIELD [REDACTED] 5 NM  
SW OF HAI PHONG, AND 1.2 NM SOUTH OF THE LACH TRAY

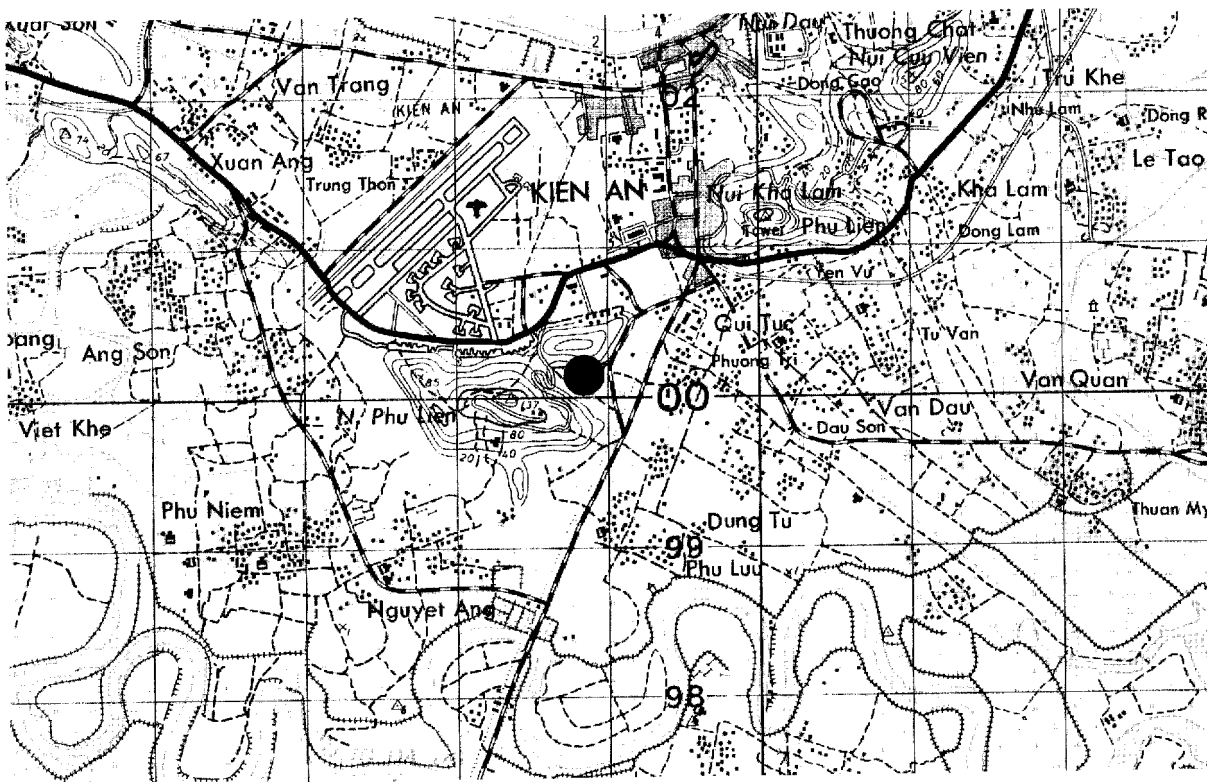
DESCRIPTION: AREA CONSISTS OF AT LEAST 24 TANKS BURIED IN PAIRS IN ABANDONED VEHICLE REVETMENTS. SIX POL TANK TRUCKS ARE ALSO OBSERVED. AREA IS PARTIALLY OBSCURED BY CLOUDS.

ESTIMATED CAPACITY: TANK 288 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



B149

25X1C

25X1



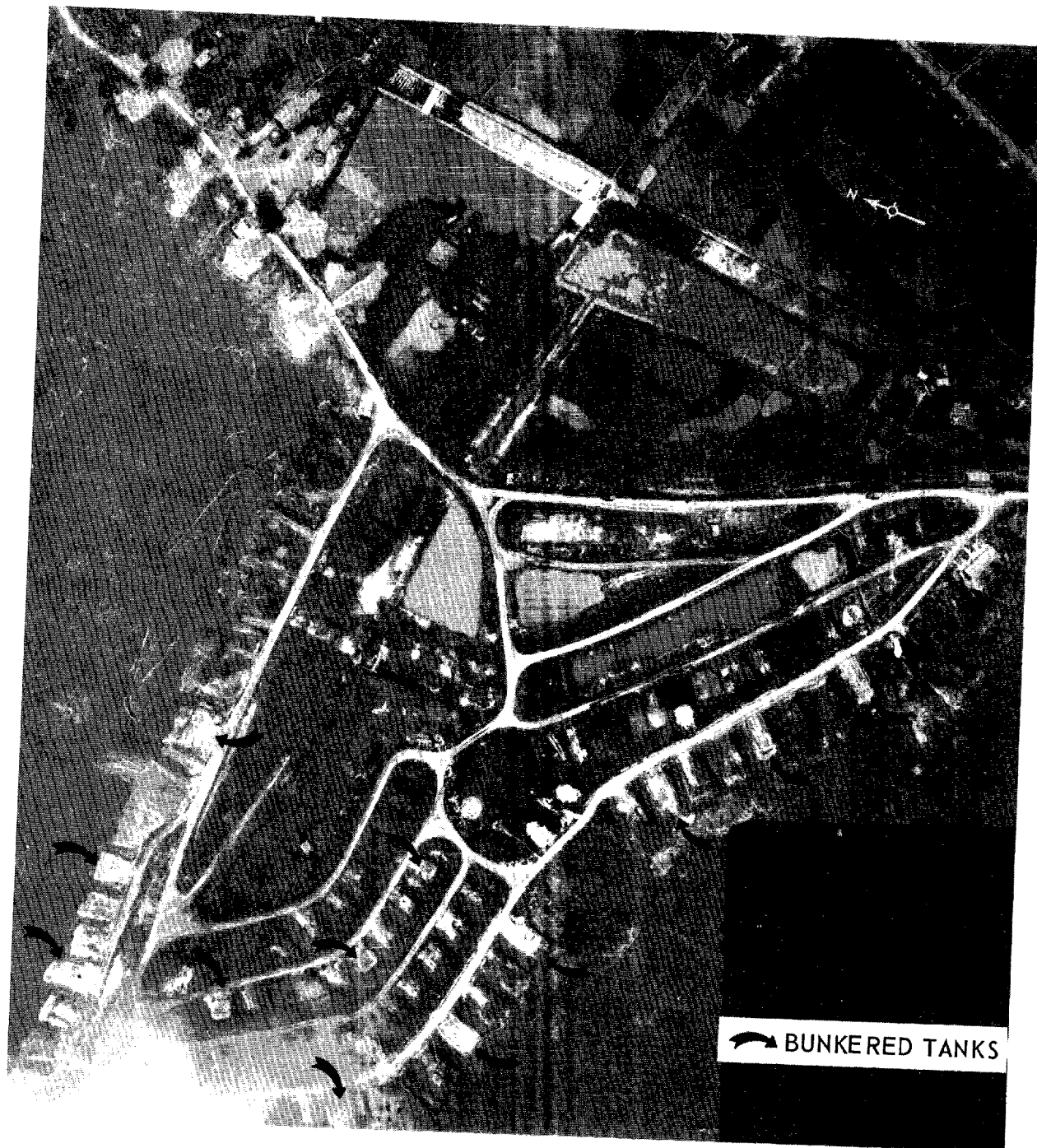
25X1

25X1C **CONFIDENTIAL**  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4 R-218/66  
16 November 1966

XJ688001  
UTM COORDINATES

KIEN AN POL STORAGE

2047N 10637E  
GEOGRAPHIC COORDINATES



25X1

25X1C B150  
**CONFIDENTIAL**  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

25X1

**CONFIDENTIAL**

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

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16 November 1966

0616-  
BE NUMBER

XJ006243  
UTM COORDINATES

2101N 10558E  
GEOGRAPHIC COORDINATES

**NAME:** PHU THI PETROLEUM PRODUCTS STORAGE

**LOCATION:** IMMEDIATELY NORTH OF PHU THI, 7 NM EAST OF HA NOI, AND 1.3 NM SOUTH OF THE CANAL DES RAPIDES

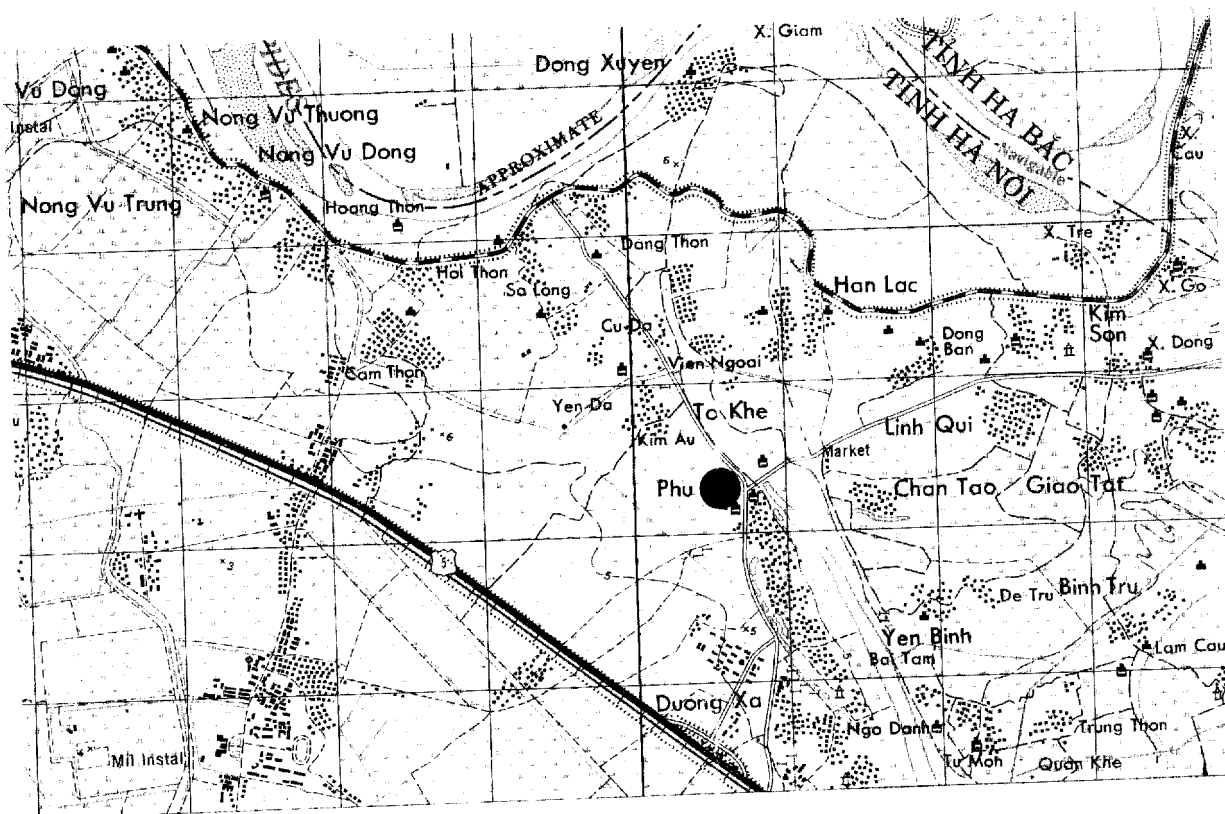
**DESCRIPTION:** FENCE-SECURED AREA CONSISTS OF AT LEAST 30 BUNKERED TANKS. TREE COVER OBSCURES PARTS OF THE AREA, PRECLUDING MORE DETAILED INTERPRETATION.

**ESTIMATED CAPACITY:** TANK 360 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6151 II, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



25X1C

B151

**CONFIDENTIAL**

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

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Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

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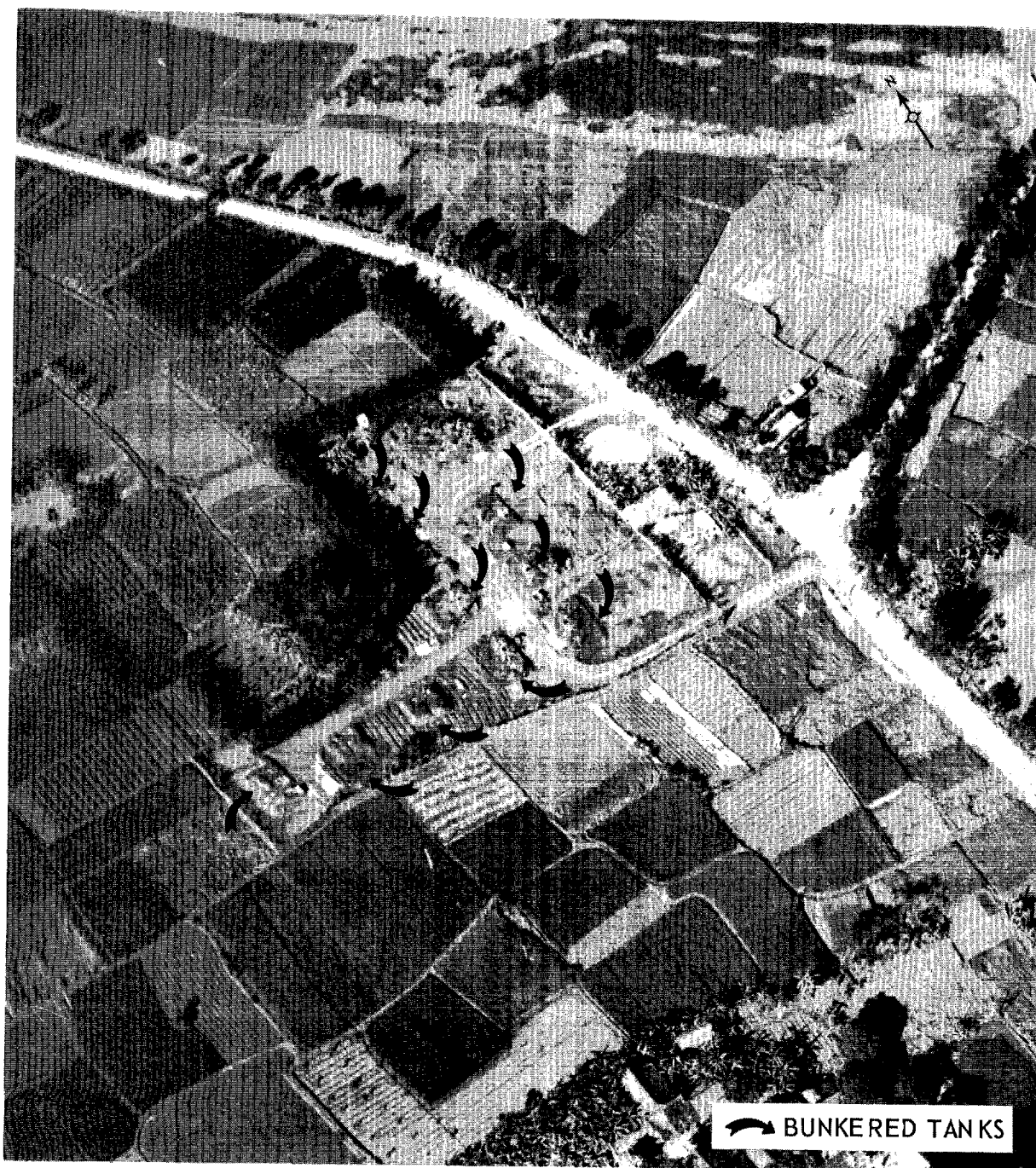
10 November 1966

XJ006243  
UTM COORDINATES

PHU THI PETROLEUM PRODUCTS STORAGE

2101N 10558E

GEOGRAPHIC COORDINATES



25X1A

B152

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0616-  
BE NUMBER

WJ733457  
UTM COORDINATES

2112N 10542E  
GEOGRAPHIC COORDINATES

**NAME:** PHUC YEN PETROLEUM PRODUCTS STORAGE

**LOCATION:** 1.4 NM SOUTH OF PHUC YEN AND 3.5 NM NORTH OF THE RED RIVER

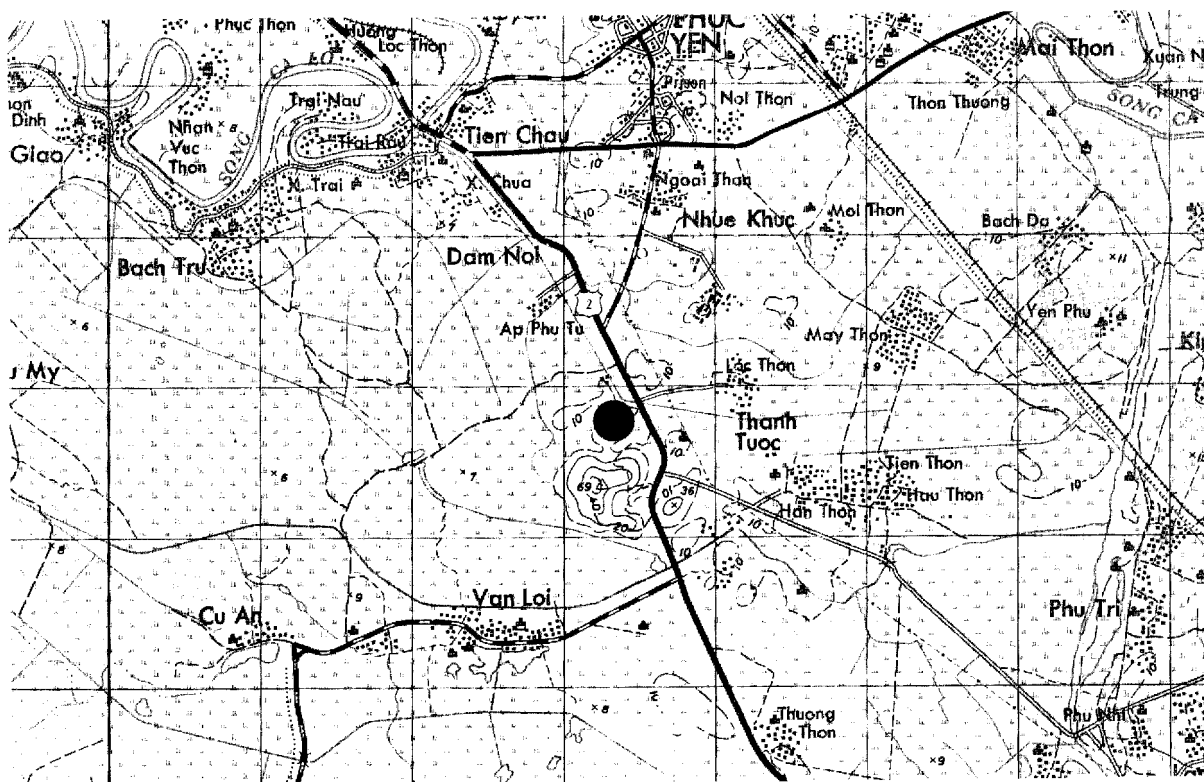
**DESCRIPTION:** AREA CONSISTS OF 6 TANKS, 4 REVETTED AND 2 BUNKERED.

**ESTIMATED CAPACITY:** TANK 72 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6151 III, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D





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PHUC YEN PETROLEUM PRODUCTS STORAGE

WJ733457  
UTM COORDINATES

2112N 10542E  
GEOGRAPHIC COORDINATES



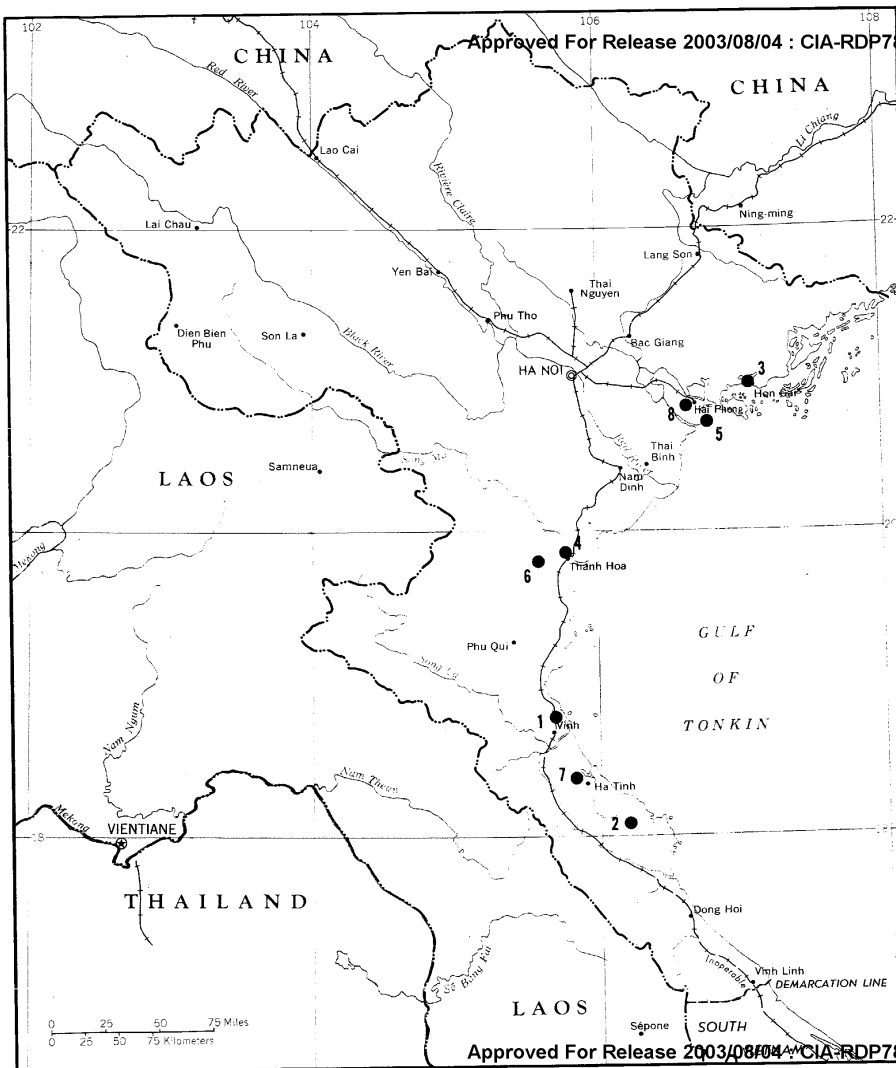
25X1

TABLE OF CONTENTS CATEGORY C

<u>BE No.</u>	<u>Installation Name</u>	<u>Page Nos.</u>
	Ky Tran POL Storage Area	C1, C2
	Ky Anh POL Drum Storage	C3, C4
	Hon Gai POL Drum Storage	C5, C6
	Thanh Hoa POL Distribution Area	C7, C8
	Do Son POL Drum Storage	C9, C10
	Tri Binh POL Drum Storage Area	C11, C12
	Dien Xa POL Storage	C13, C14
	Cuu Vien POL Storage Area	C15, C16

**KEY TO CATEGORY C**  
DRUM STORAGE AREAS

1. Ky Tran POL Storage Area
2. Ky Anh POL Drum Storage
3. Hon Gai POL Drum Storage
4. Thanh Hoa POL Distribution Area
5. Do Son POL Drum Storage
6. Tri Binh POL Drum Storage Area
7. Dien Xa POL Storage
8. Cuu Vien POL Storage Area





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BE NUMBER

UTM COORDINATES

1847N 10540E  
GEOGRAPHIC COORDINATES

**NAME:** KY TRAN POL STORAGE AREA

**LOCATION:** 0.2 NM SOUTH OF KY TRAN, 6.9 NM NORTH OF VINH, AND 1.2 NM EAST OF ROUTE 1A AND THE THANH HOA/VINH RAIL LINE

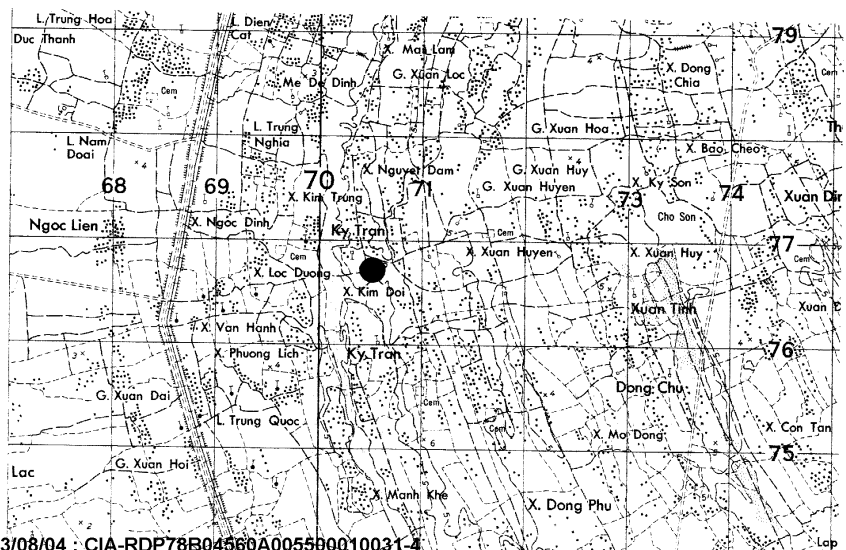
**DESCRIPTION:** STORAGE AREA CONSISTS OF AT LEAST 24 PARALLEL TRENCHES IN 3 LIGHTLY WOODED AREAS ALONG BOTH SIDES OF A SECONDARY ROAD JUST SOUTH OF KY TRAN. APPROXIMATELY 1,000 POL DRUMS ARE STORED IN THESE TRENCHES. THE PART OF THE AREA SHOWN IN INSET IS AT UTM WF708768.

**ESTIMATED CAPACITY:** DRUM 200 MT

**MAP REFERENCES:** AMS SERIES L701, SHEET 6167 III, 1ST ED, DEC 60 (U)  
AMS SERIES JOG(G), SHEET NE 48-7, 1ST ED, DEC 65 (U)

**PHOTO REFERENCE:**

25X1D



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25X1C Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

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XH865915 XH866917  
UTM COORDINATES

DO SON POL DRUM STORAGE

2043N 10647E  
GEOGRAPHIC COORDINATES



25X1C

C10

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R-218/'66  
16 November 1966

25X1

1947N 10532E  
GEOGRAPHIC COORDINATES

LOCATION: 0.8 NM NORTH OF TRI BINH

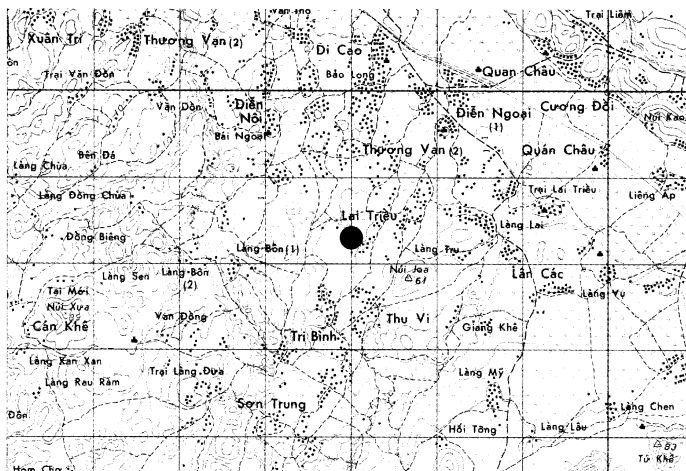
**DESCRIPTION:** AREA CONTAINS APPROXIMATELY 300 DRUMS LOCATED PRIMARILY IN 2 EARTHEN REVETMENTS.

ESTIMATED CAPACITY: DRUM 60 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-3, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



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Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

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R-218/66

10 November 1966

TRI BINH POL DRUM STORAGE AREA

WG570883  
UTM COORDINATES

1947N 10532E  
GEOGRAPHIC COORDINATES



C12

25X1C  
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CONFIDENTIAL

0617-  
BE NUMBER

VF790318 VF791311  
UTM COORDINATES

1822N 10544E  
GEOGRAPHIC COORDINATES

**NAME:** DIEN XA POL STORAGE

**LOCATION:** 1.7 NM SOUTH OF DIEN XA AND THE INTERSECTION OF ROUTES 82 AND 821

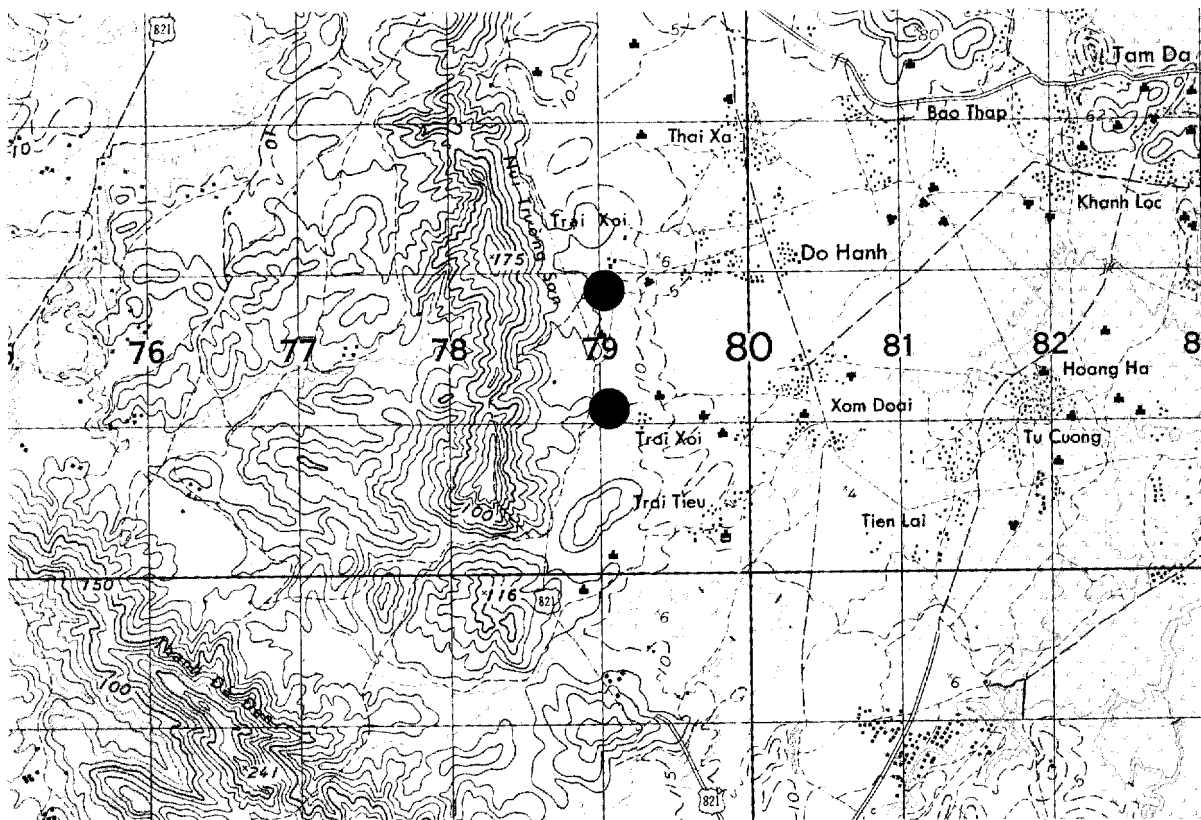
**DESCRIPTION:** AREA CONSISTS OF 2 SITES, BOTH 200 YARDS EAST OF ROUTE 821.  
THE SITE AT VF790318 HAS 71 TRENCHES, 59 CONTAIN 1,300 DRUMS. THE SITE AT  
VF791311 HAS 26 TRENCHES, 20 CONTAINING AT LEAST 450 DRUMS.

**ESTIMATED CAPACITY:** DRUM 350 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6145 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D

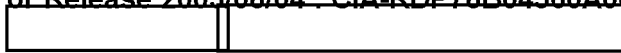


C13

CONFIDENTIAL

25X1

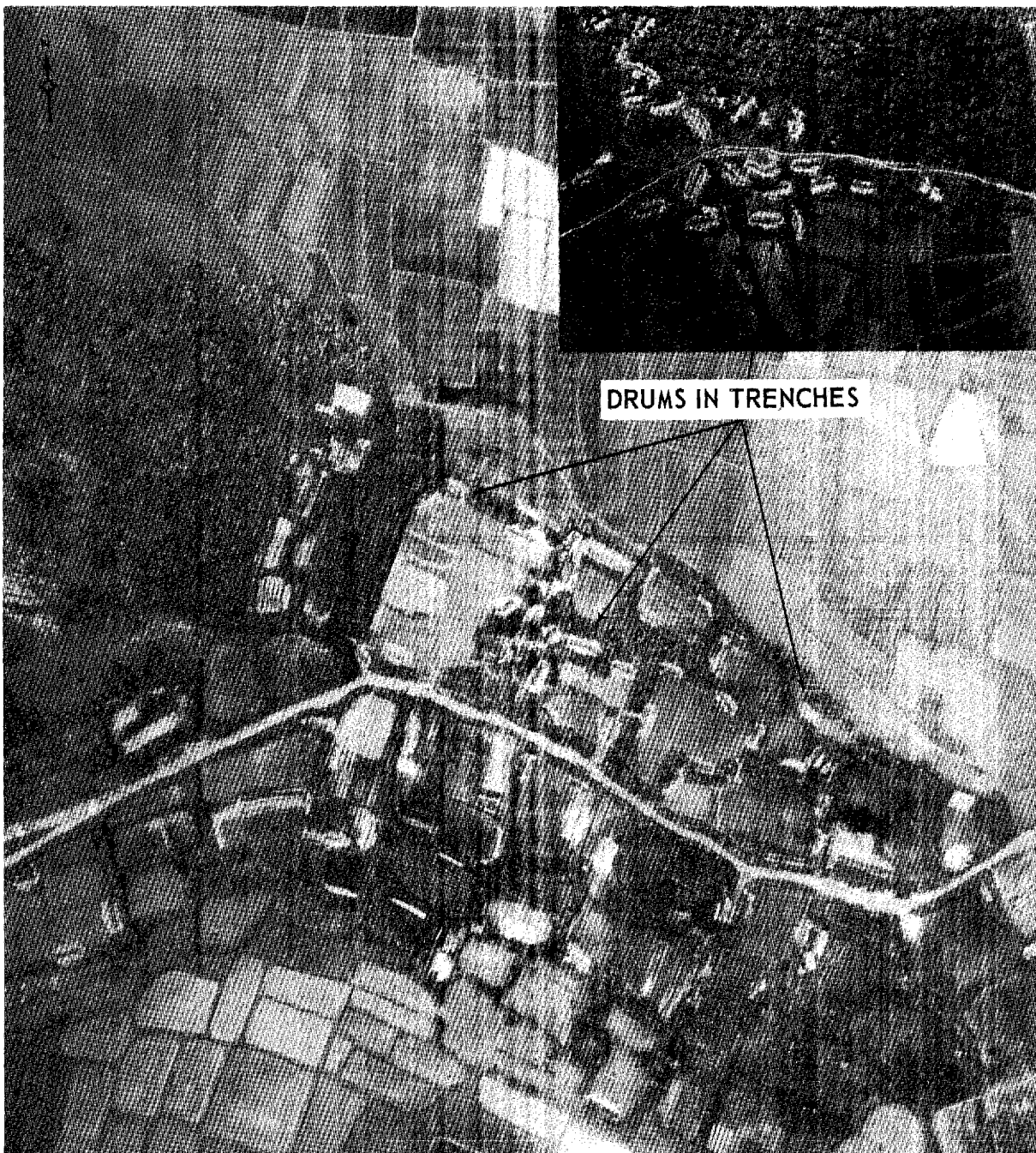
25X1C **CONFIDENTIAL** R-218/66  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4 10 November 1966



DIEN XA POL STORAGE

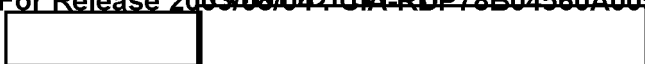
WF790318 WF791311  
**UTM COORDINATES**

1822N 10544E  
**GEOGRAPHIC COORDINATES**



C14

25X1C **CONFIDENTIAL**  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4



25X1



0616-  
BE NUMBER

XJ710030  
UTM COORDINATES

2049N 10638E  
GEOGRAPHIC COORDINATES

**NAME:** CUU VIEN POL STORAGE AREA

**LOCATION:** ALONG SECONDARY ROAD BETWEEN CUU VIEN AND LACH TRAY (STREAM),  
3 NM SW OF HAI PHONG

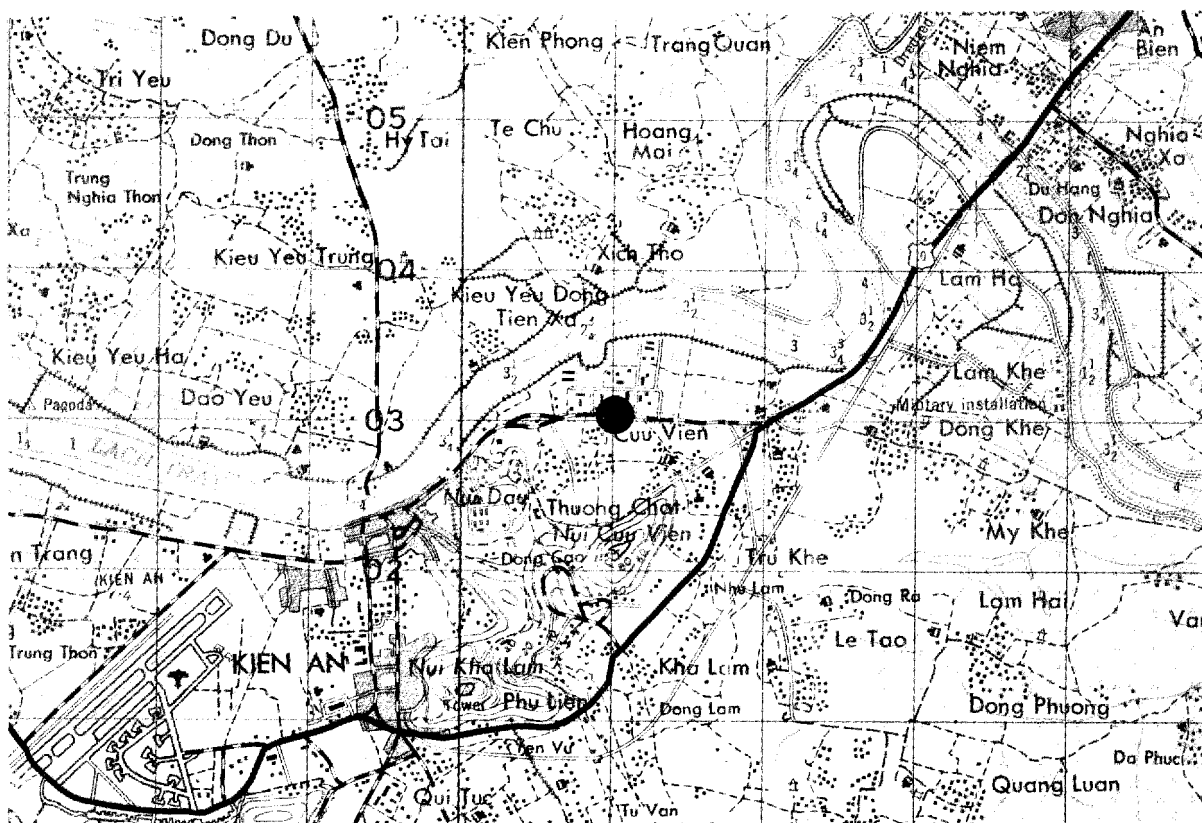
**DESCRIPTION:** STORAGE AREA CONSISTS OF AT LEAST 5,000 POL DRUMS AND 4  
STANDARD AND 3 SMALL TANKS SCATTERED UNDER TREES ALIGNING ROAD BETWEEN  
UTM XJ703029 AND XJ719030. TWO FILLING PUMPS AND A BASE FOR A THIRD PUMP  
AT A PROBABLE FUEL TRUCK FILLING FACILITY ARE ALSO OBSERVED.

**ESTIMATED CAPACITY:** TANK 69 MT DRUM 1,000 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

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C15



25X1C

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R-218/66

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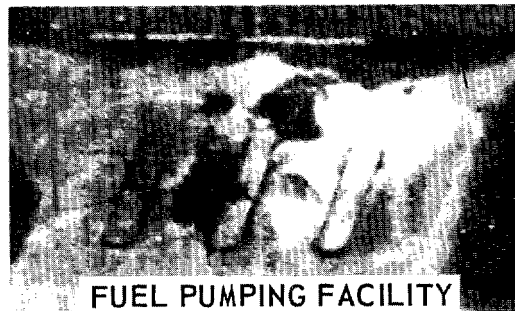
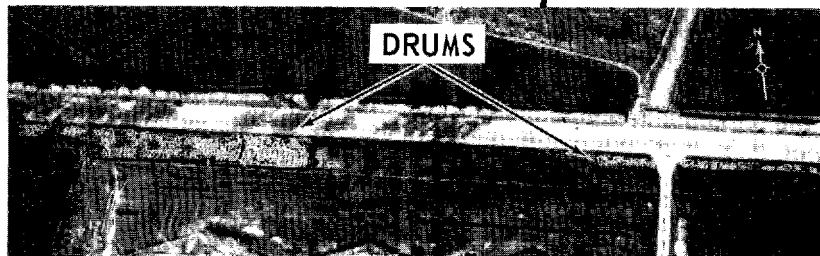
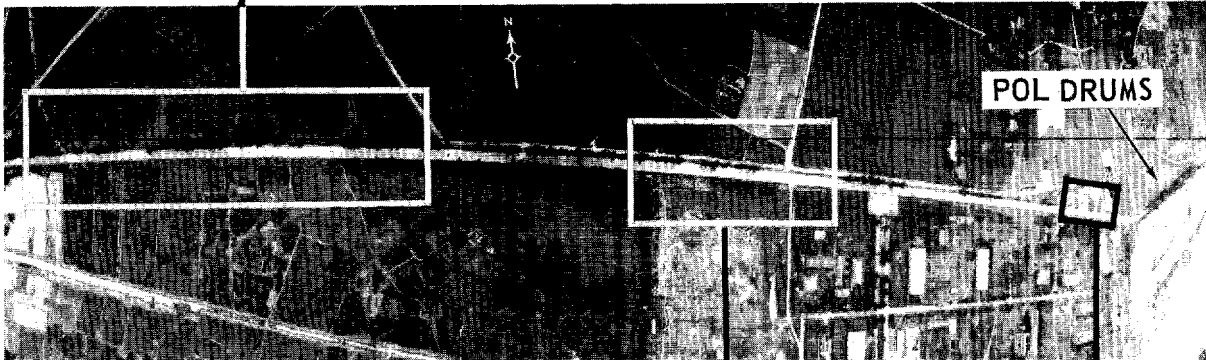
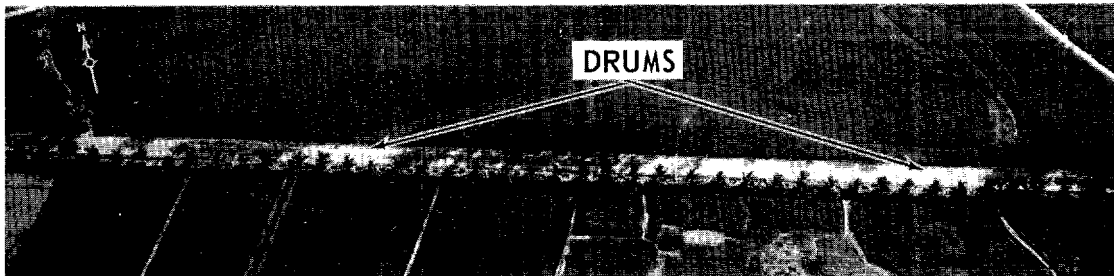
16 November 1966

25X1

XJ710030  
UTM COORDINATES

CUU VIEN POL STORAGE AREA

2049N 10638E  
GEOGRAPHIC COORDINATES



C16

25X1C

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TABLE OF CONTENTS CATEGORY D

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	Ha Noi Probable POL Tank Fabrication Area 1	D3, D4
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	Ninh Binh (POL Tanks in Sampan)	D7, D8
	Thanh Thuy POL Tanks	D9, D10
	Lang Khe POL Storage Area Under Construction	D11, D12
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	Phuc Yen POL Truck Dispersal Area	D15, D16
	Sac Le POL Tanks	D17, D18
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	POL Barge	D21, D22
	Ha Dong POL Trucks	D23, D24
	POL Tanks (Van Dien Army Supply Depot)	D25, D26
	Soviet Tanker with Motorized POL Barges	D27, D28
	POL Storage at Phu Tho Chemical Fertilizer Plant Lam Thao	D29, D30
	Ben Thuy Thermal Powerplant (POL Storage Area)	D31, D32
	POL Trucks on Polish Ship (Hai Phong Area)	D33, D34
	POL Tanks in Ha Noi	D35, D36
	Uong Bi Powerplant (Petroleum Products Storage)	D37, D38
	Cong My Transshipment Facility and POL Barges	D39, D40
	Thai Nguyen Thermal Powerplant (Petroleum Storage)	D41, D42
	Thon Nieu Tank Fabrication Area (Thai Nguyen Complex)	D43, D44
	POL Tanks Lang Con	D45, D46
	Ha Noi POL Tanks	D47, D48
	POL Tanks at Hai Phong Thermal Powerplant	D49, D50
	POL Storage Tanks Hai Phong	D51, D52

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R-218/66

0616-  
BE NUMBER

WJ809323  
UTM COORDINATES

2105N 10546E  
GEOGRAPHIC COORDINATES

**NAME:** THUY PHUONG POL STORAGE TANKS

**LOCATION:** NE SECTION OF THUY PHUONG AND 5.3 NM NW OF HA NOI

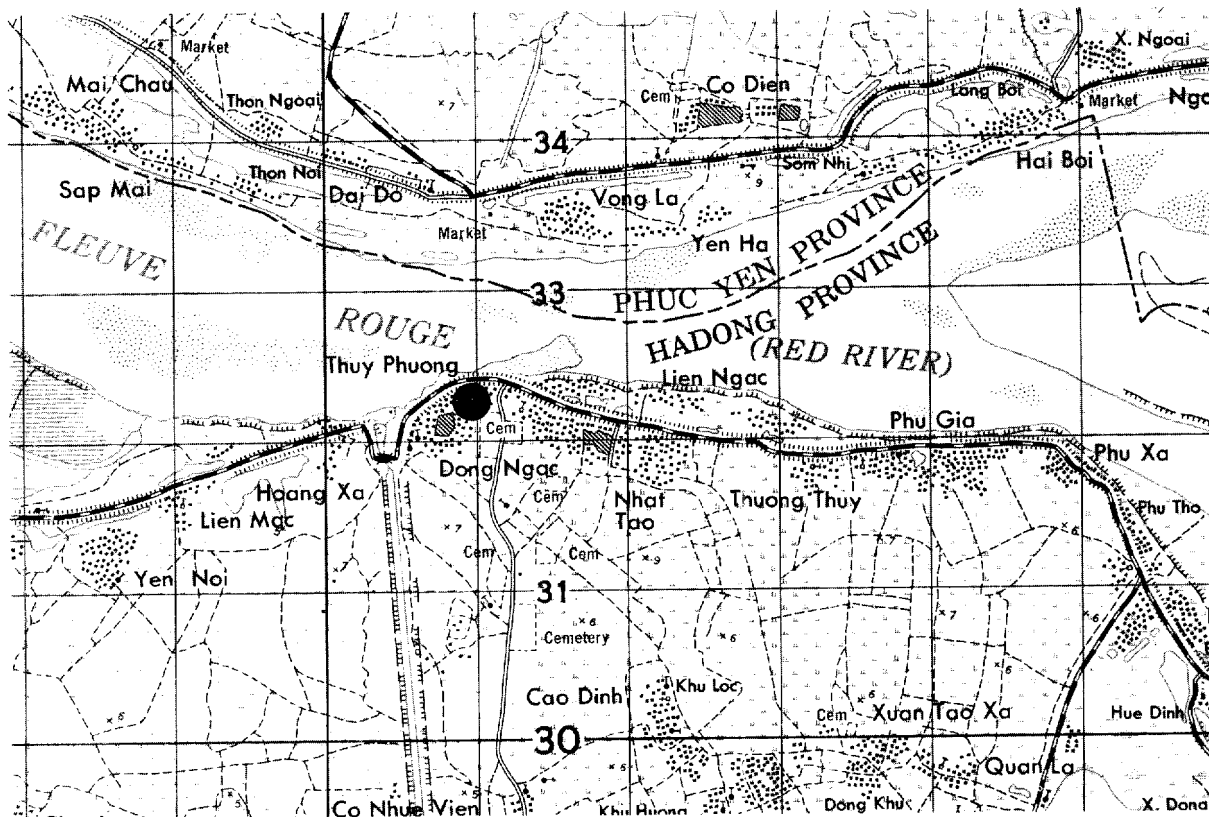
**DESCRIPTION:** SITE CONTAINS A TOTAL OF 65 (55 STANDARD AND 10 LARGE) TANKS IN RANDOM STORAGE. THIRTY-SIX UNASSEMBLED TANK SECTIONS ARE ALSO OBSERVED. NO PERMANENT POL STORAGE FACILITY IS APPARENT AT THIS SITE.

**ESTIMATED CAPACITY:** NOT APPLICABLE

**MAP REFERENCES:** AMS SERIES L701, SHEET 6174 II, 3D ED, APR 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



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R-218/66

POL STORAGE AT PHU THO CHEMICAL FERTILIZER PLANT LAM THAO  
WJ301585  
UTM COORDINATES

2119N 10517E  
GEOGRAPHIC COORDINATES



D30

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

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R-218/66

Approved For Release 2003/06/04 : CIA-RDP78B04560A005500010031-4

25X1A

BE NUMBER

WF743617

1838N 10542E

UTM COORDINATES

GEOGRAPHIC COORDINATES

**NAME:** BEN THUY THERMAL POWERPLANT (POL STORAGE AREA)

**LOCATION:** 2.1 NM SE OF VINH, IMMEDIATELY SOUTH OF ROUTE 1A AND 0.2 NM WEST OF THE SONG CA

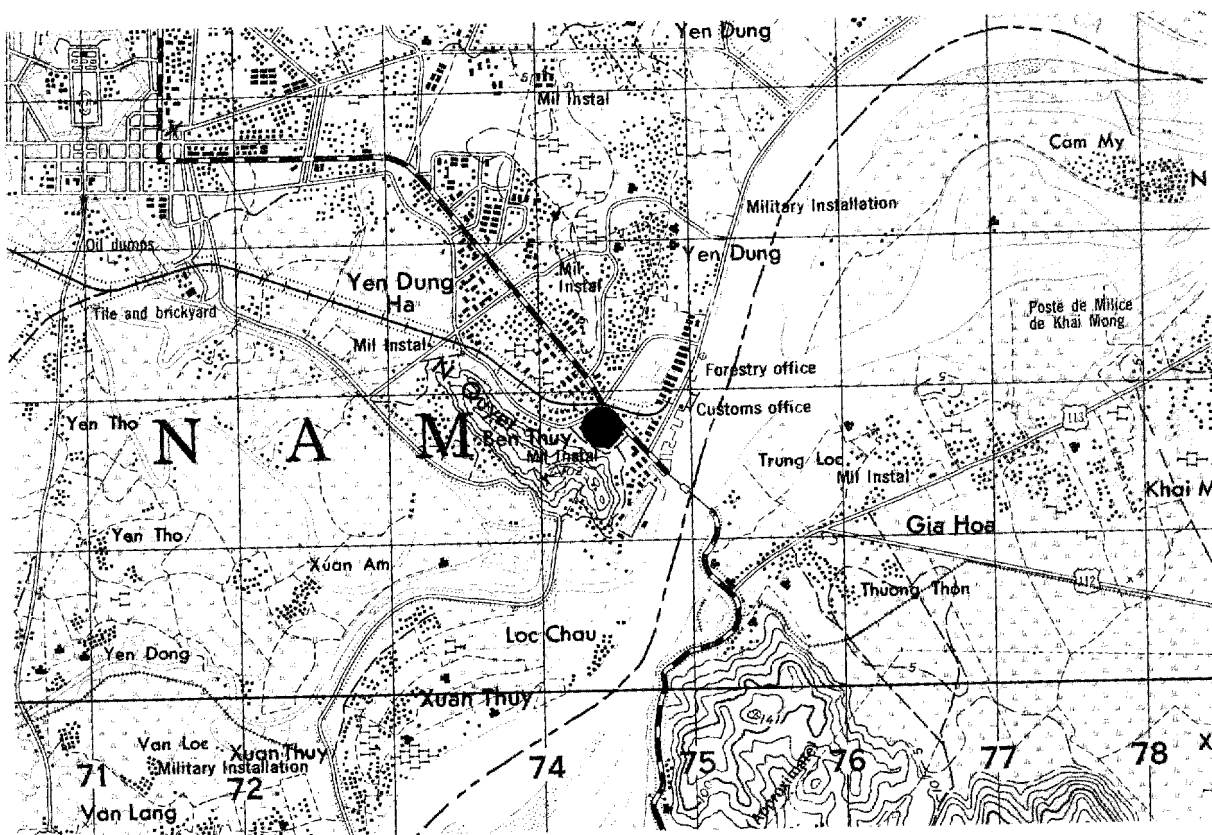
**DESCRIPTION:** STORAGE SITE CURRENTLY CONSISTS OF 2 VERTICAL CYLINDRICAL TANKS IN POL STORAGE AREA AND 1 CYLINDRICAL UNDERGROUND TANK ADJACENT TO THE POWERPLANT.

**ESTIMATED CAPACITY:** TANK 26 MT (UNDERGROUND TANK OF UNDETERMINED CAPACITY)

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6146-III, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



D31

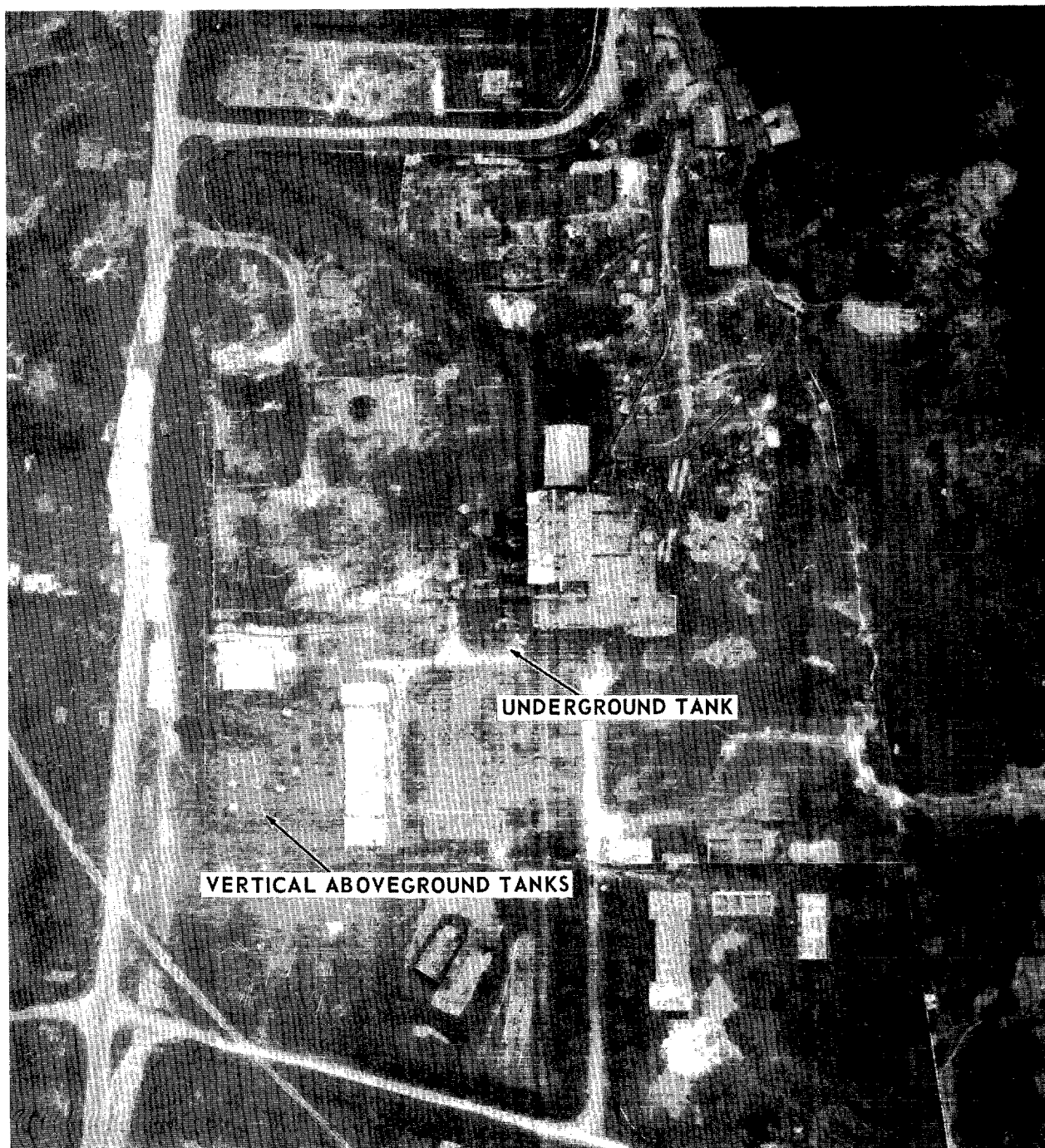
25X1C

CONFIDENTIAL

Approved For Release 2003/06/04 : CIA-RDP78B04560A005500010031-4

25X1

BEN THUY THERMAL POWERPLANT (POL STORAGE AREA)  
WF743617 1838N 10542E  
UTM COORDINATES GEOGRAPHIC COORDINATES



25X1



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16 November 1966

0616-  
BE NUMBER

XJ866044  
UTM COORDINATES

2049N 10647E  
GEOGRAPHIC COORDINATES

**NAME:** POL TRUCKS ON POLISH SHIP (HAIPHONG AREA)

**LOCATION:** 6 NM EAST OF HAIPHONG IN THE CUA NAM TRIEU

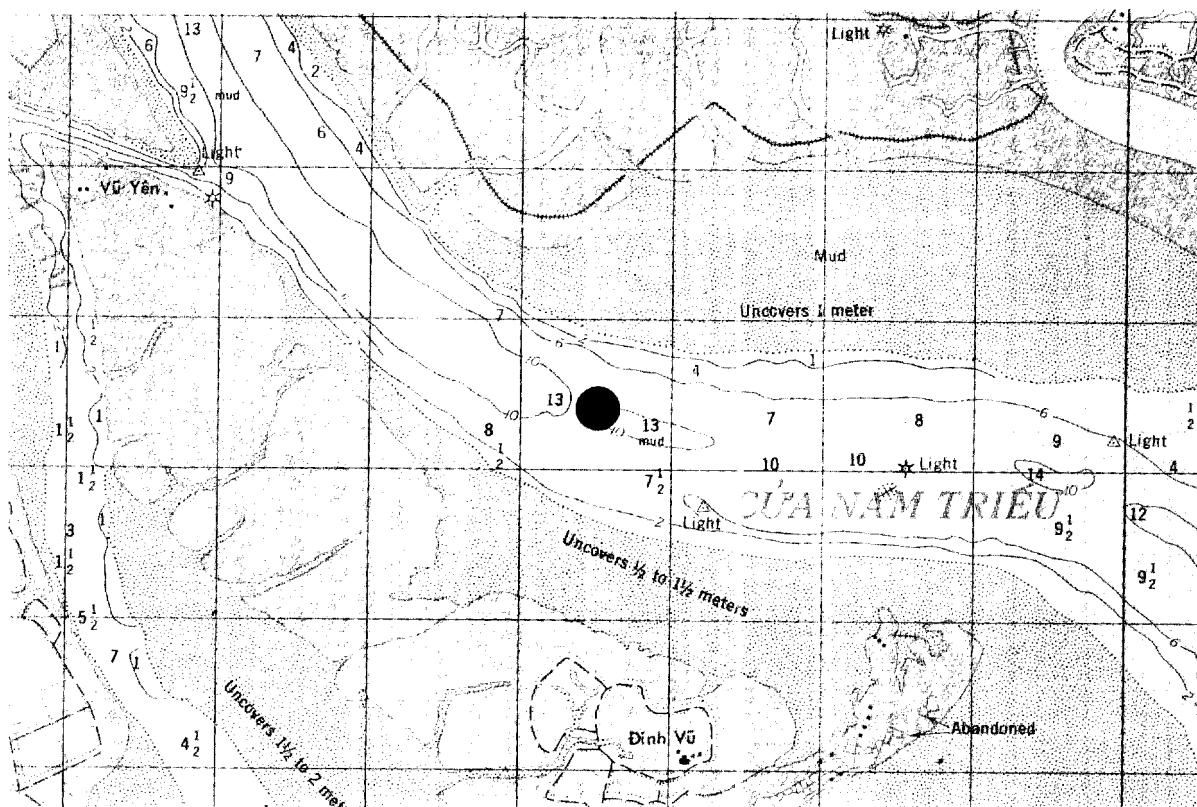
**DESCRIPTION:** POLISH MERCHANT SHIP (DLUGOSZ-CLASS) AT ANCHOR WITH DECK CARGO OF 28 FUEL TANK TRUCKS AND 10 FLATBED TRUCKS.

**ESTIMATED CAPACITY:** NOT APPLICABLE

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6350-I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



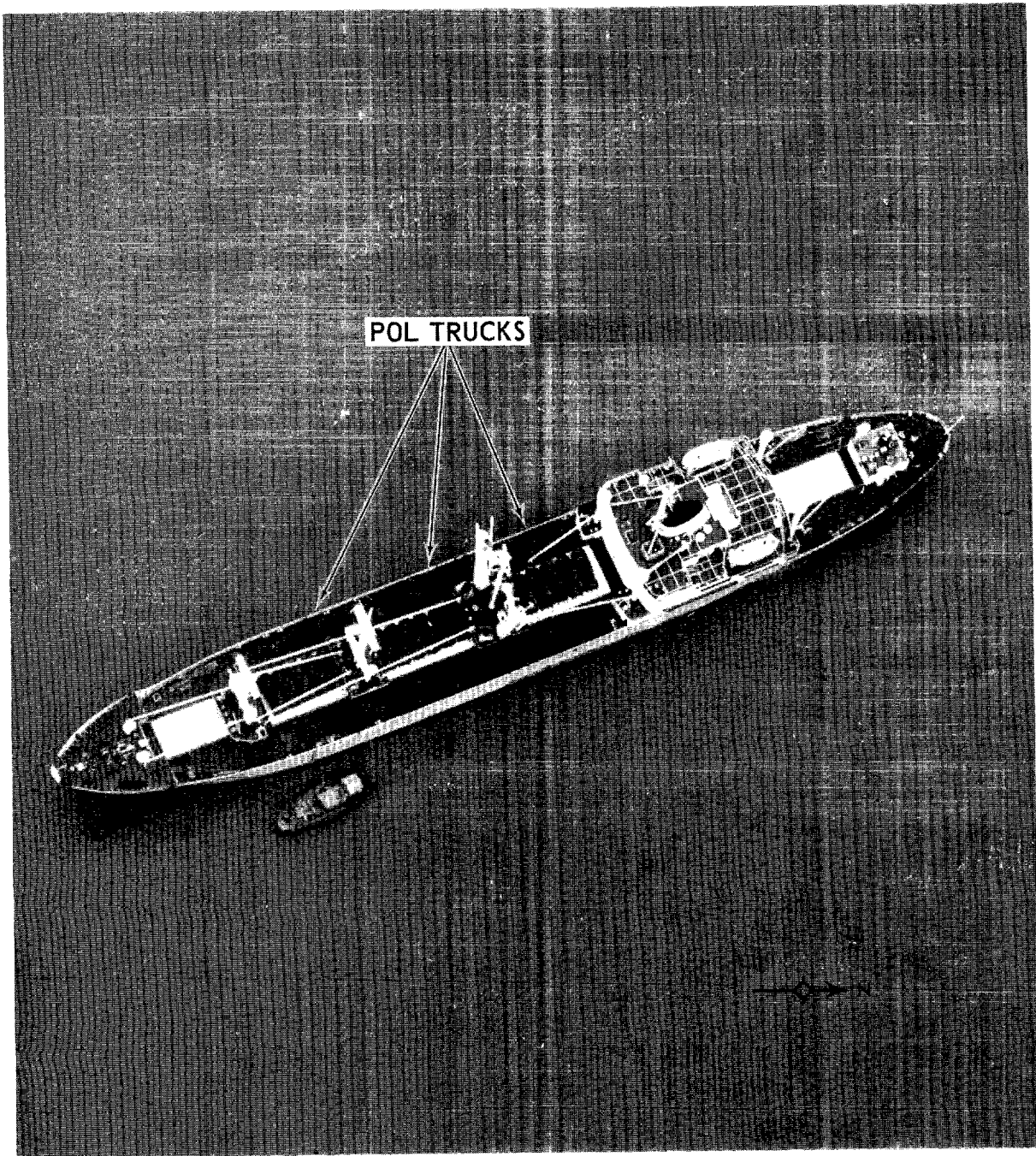
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POL TRUCKS ON POLISH SHIP (HAIPHONG AREA)

XJ866044  
UTM COORDINATES

2049N 10647E  
GEOGRAPHIC COORDINATES



CONFIDENTIAL

16 November 1966

0616-  
BE NUMBER

WJ875219  
UTM COORDINATES

2059N 10550E  
GEOGRAPHIC COORDINATES

NAME: POL TANKS IN HA NOI

LOCATION: SOUTH EDGE OF HA NOI

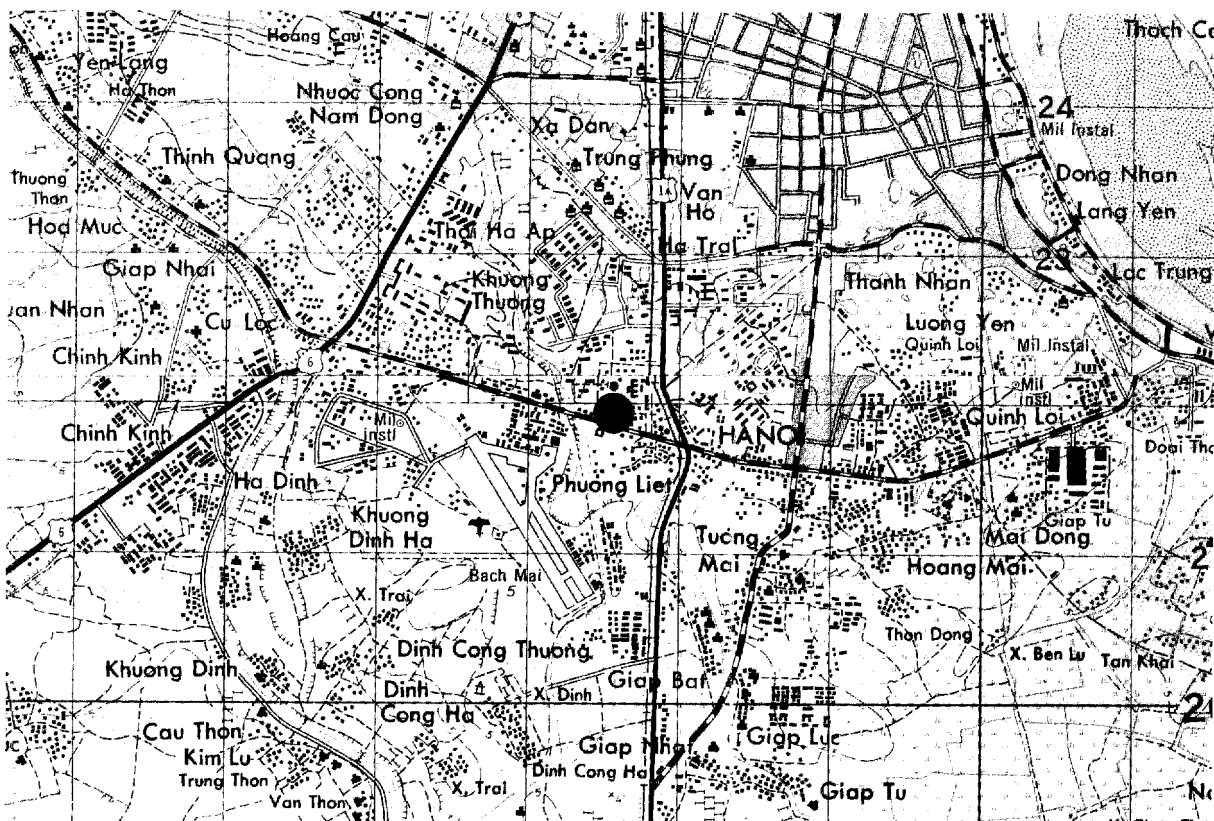
DESCRIPTION: AREA CONSISTS OF 11 TANKS ALONG ROAD AND 1 IN AN ADJACENT  
VEHICLE MAINTENANCE AREA.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



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POL TANKS IN HA NOI

WJ875219  
UTM COORDINATES

2059N 10550E  
GEOGRAPHIC COORDINATES



25X1C

16 November 1966

25X1A

[REDACTED]  
DE NUMBER

XJ861270  
UTM COORDINATES

2102N 10647E  
GEOGRAPHIC COORDINATES

**NAME:** UONG BI POWERPLANT (PETROLEUM PRODUCTS STORAGE)

**LOCATION:** AT THE UONG BI THERMAL POWERPLANT, 0.2 NM NORTH OF ROUTE 18 AND 12.4 NM NE OF HAI PHONG

**DESCRIPTION:** POL STORAGE SITE CONSISTS OF 2 MEDIUM AND 6 SMALL VERTICAL, CYLINDRICAL STORAGE TANKS. ONE OF THE SMALL TANKS HAS A CONCRETE JACKET. ONE OF THE MEDIUM TANKS IS DESTROYED, THE OTHER, SEVERELY DAMAGED.

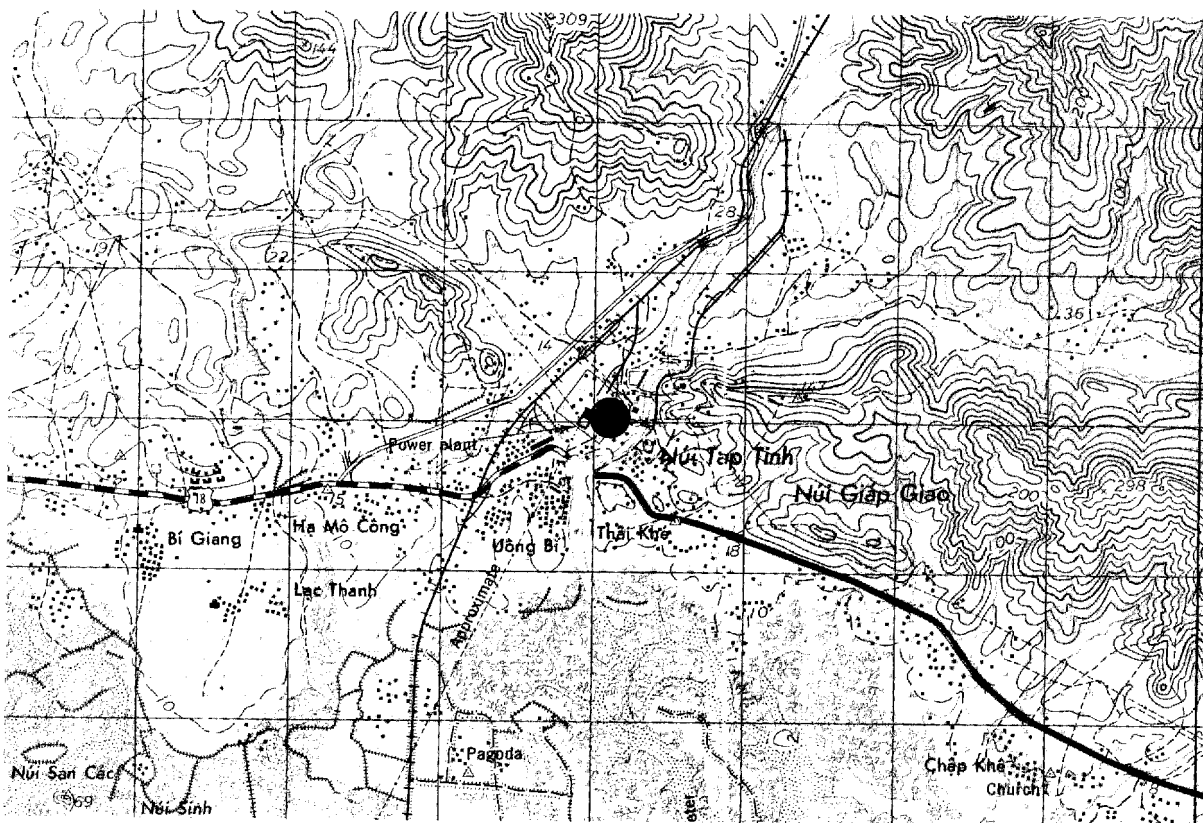
**ESTIMATED CAPACITY:** TANK 144 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6351-II, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-12, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**



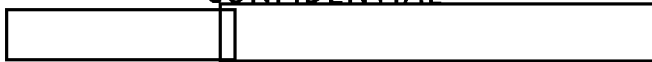
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D37

CONFIDENTIAL



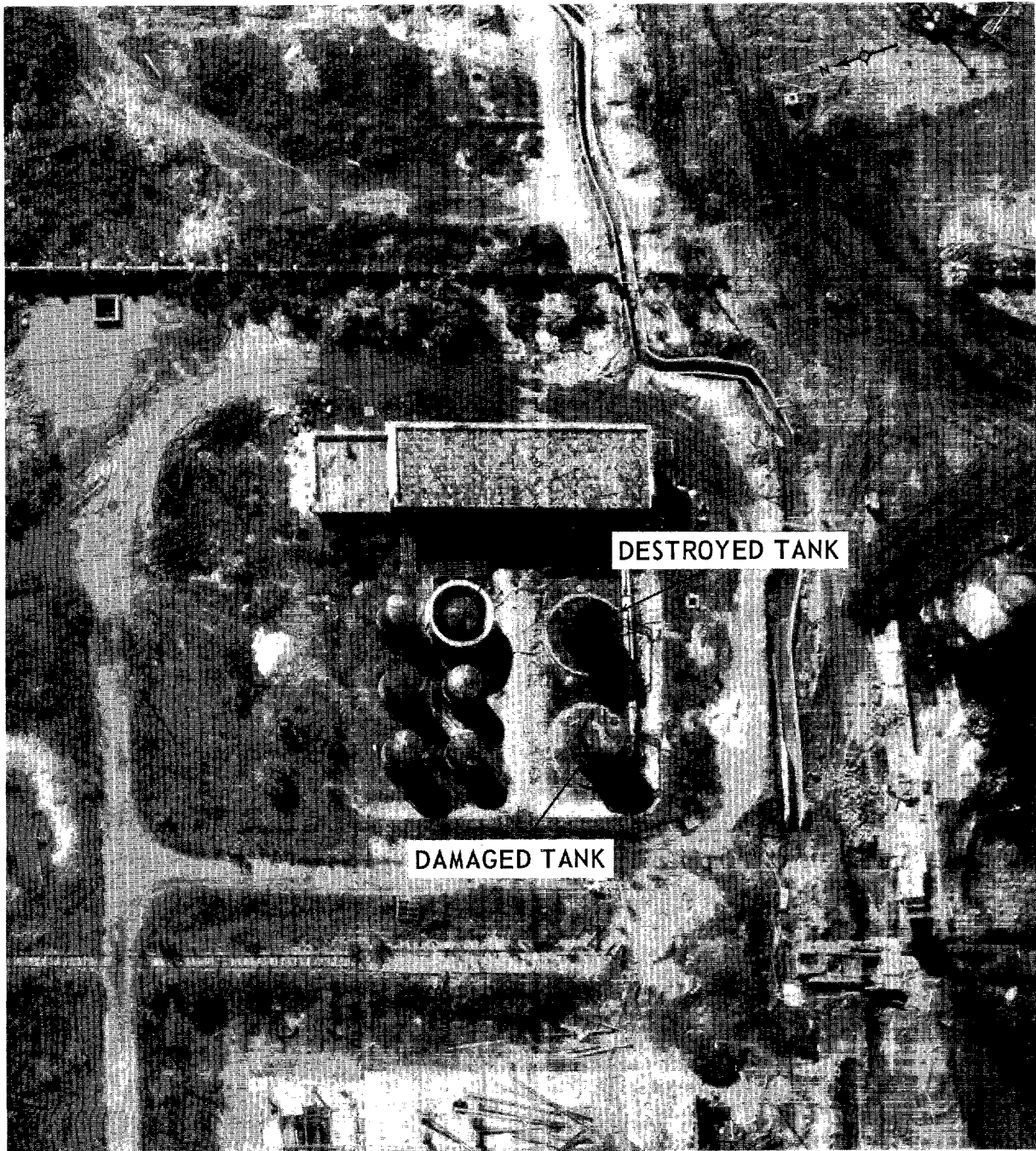
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XJ861270  
UTM COORDINATES

UONG BI POWERPLANT PETROLEUM PRODUCTS STORAGE  
2102N 10647E  
GEOGRAPHIC COORDINATES



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25X1C

25X1

25X1C CONFIDENTIAL

16 November 1966

25X1

0616-  
BE NUMBER

XJ686102  
UTM COORDINATES

2053N 10637E  
GEOGRAPHIC COORDINATES

**NAME:** CONG MY TRANSSHIPMENT FACILITY AND POL BARGES

**LOCATION:** 0.4 NM NNE OF CONG MY AND 3.9 NM NW OF HAI PHONG

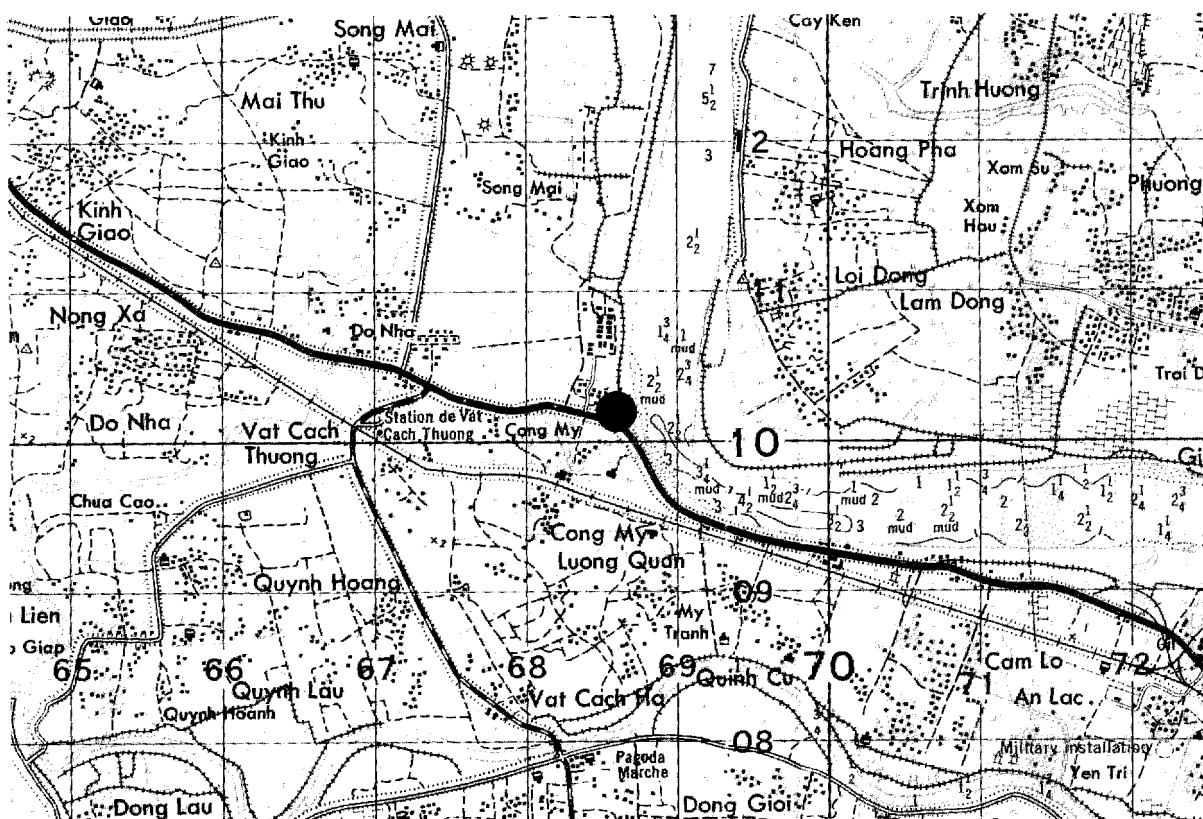
**DESCRIPTION:** TRANSSHIPMENT AREA ON WEST SIDE OF CUA CAM, JUST NORTH OF ROUTE 5 AND THE HA NOI/HAI PHONG RAIL LINE, CONSISTS OF 2 NEW OFFSHORE WHARVES. TWENTY-THREE POL TANKS ARE IN A FIELD BETWEEN ROUTE 5 AND THE WHARVES. SEVEN PROBABLE POL BARGES (2 UNDERWAY) ARE IN THE CUA CAM.

**ESTIMATED CAPACITY:** NOT APPLICABLE

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1



D39

25X1C

CONFIDENTIAL

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25X1  
XJ686102  
UTM COORDINATES

CONG MY TRANSSHIPMENT FACILITY AND POL BARGES  
2053N 10637E  
GEOGRAPHIC COORDINATES



D40



25X1

25X1A

BE NUMBER	WJ846895	2136N 10549E
UTM COORDINATES	GEOGRAPHIC COORDINATES	

**NAME:** THAI NGUYEN THERMAL POWERPLANT (PETROLEUM STORAGE)

**LOCATION:** AT THAI NGUYEN THERMAL POWERPLANT, 1.8 NM NW OF THAI NGUYEN

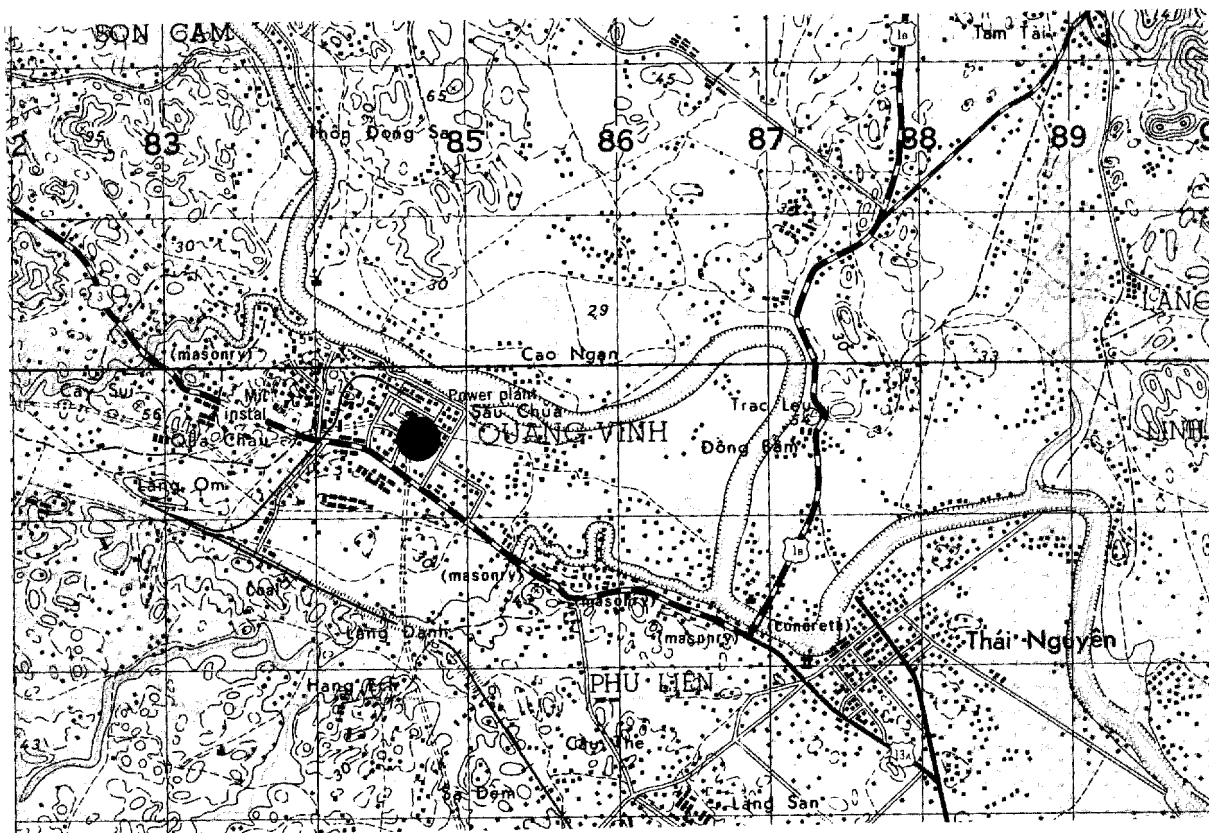
**DESCRIPTION:** PETROLEUM STORAGE AREA IN SUPPORT OF POWERPLANT CONSISTS OF 5 VERTICAL ABOVEGROUND TANKS AND 1 TANK BASE.

**ESTIMATED CAPACITY:** TANK 105 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6152-II, 1ST ED, 1964 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



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16 November 1966

THAI NGUYEN THERMAL POWERPLANT (PETROLEUM STORAGE)

WJ846895  
UTM COORDINATES

2136N 10549E  
GEOGRAPHIC COORDINATES



D42

25X1

25X1C CONFIDENTIAL  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

25X1

2132N 10552E  
GEOGRAPHIC COORDINATES

**LOCATION:** 1 NM SOUTH OF THAI NGUYEN IRON AND STEEL COMBINE ON WEST SIDE OF  
ROUTE 3

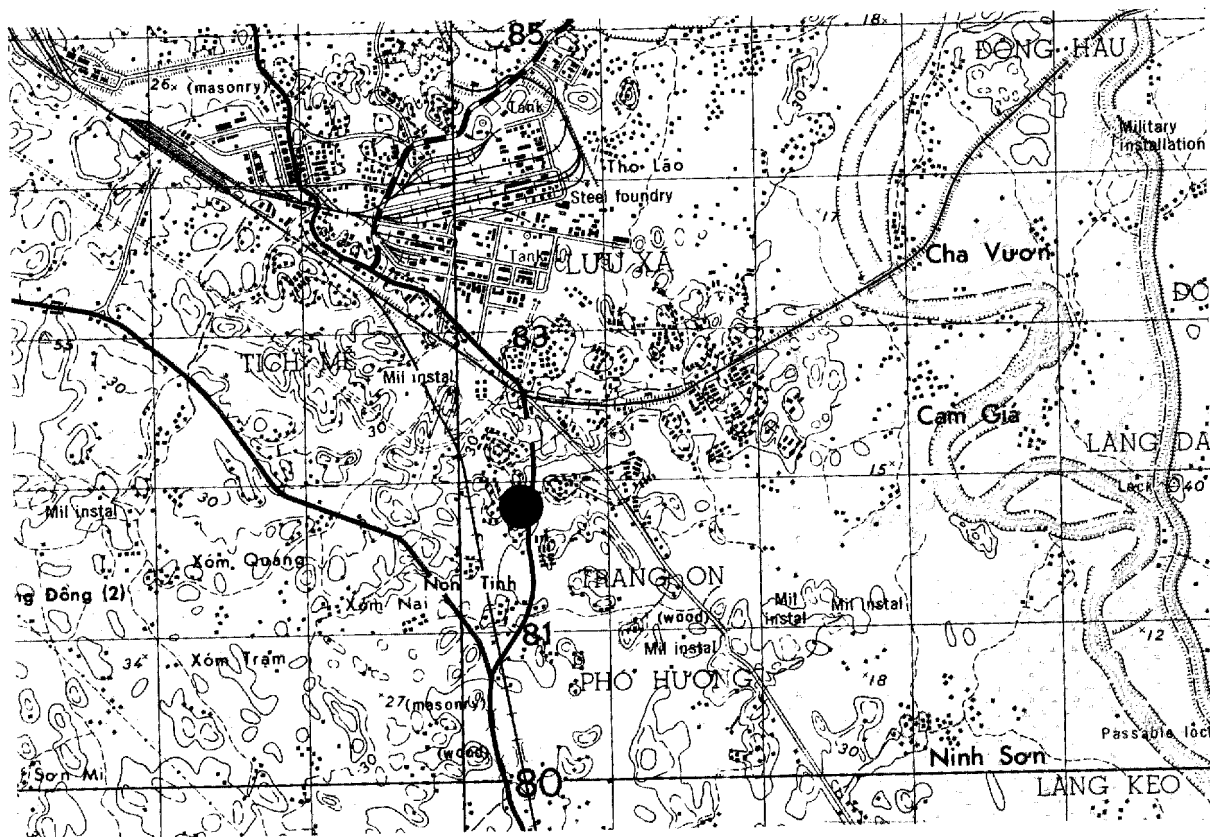
ROUTE 3  
**DESCRIPTION:** AREA IS PROBABLY A TANK FABRICATION/FINISHING SHOP ASSOCIATED WITH THAI NGUYEN IRON AND STEEL COMBINE. THIRTY-SEVEN STORAGE TANKS AND STACKS OF MATERIAL, PROBABLY USED FOR TANKS FABRICATION, ARE OBSERVED IN THE AREA.

**ESTIMATED CAPACITY:** NOT APPLICABLE

MAP REFERENCES: AMS SERIES L7014, SHEET 6152 II, 1ST ED, 1964 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-II, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D



D43

25X1

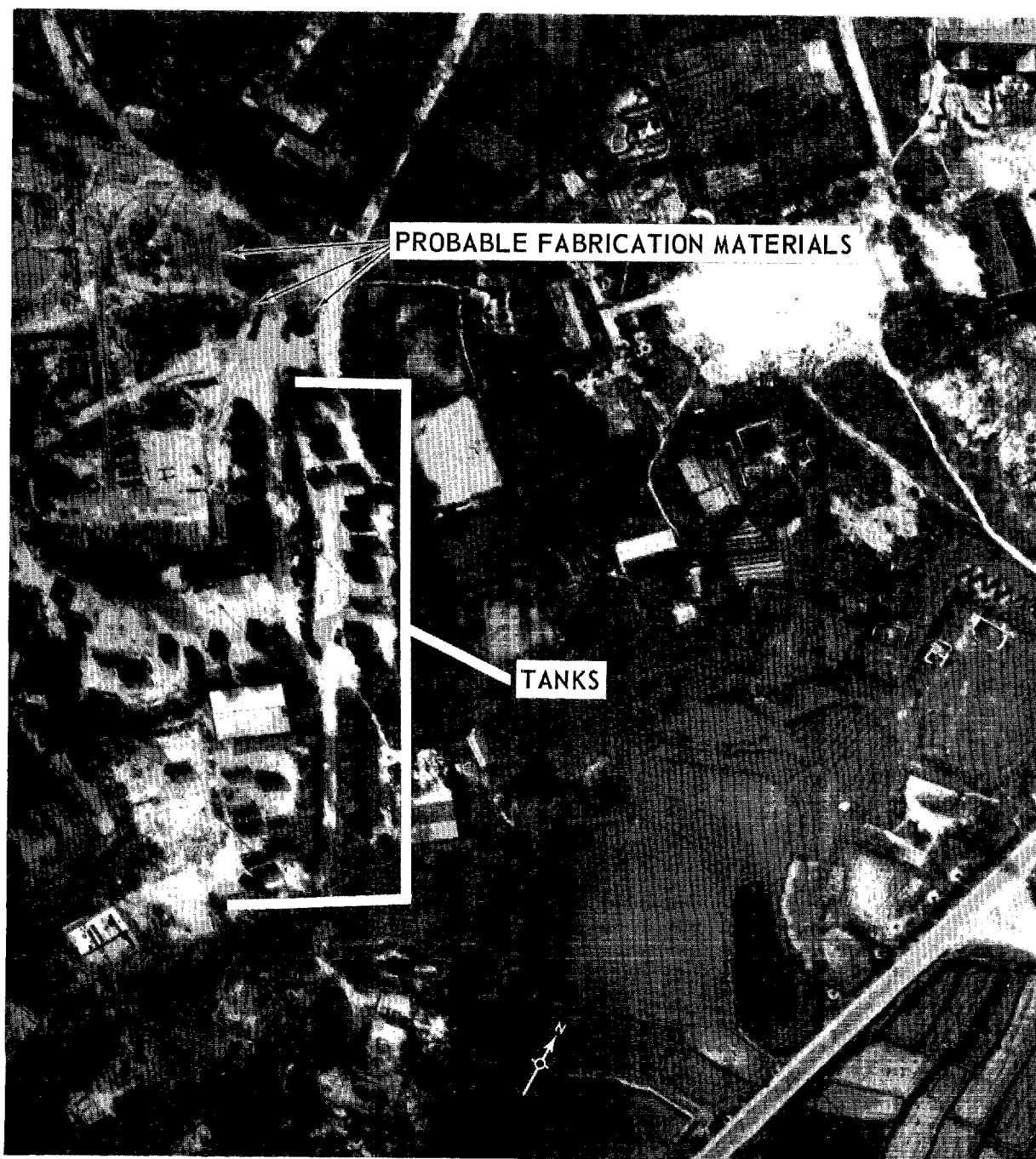
25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4 R-218/66  
CONFIDENTIAL  
16 November 1966

THON NIEU TANK FABRICATION AREA (THAI NGUYEN COMPLEX)

WJ903818  
UTM COORDINATES

2132N 10552E  
GEOGRAPHIC COORDINATES



D44

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
CONFIDENTIAL

25X1

0617-  
BE NUMBER

WG514220  
UTM COORDINATES

1911N 10529E  
GEOGRAPHIC COORDINATES

NAME: POL TANKS LANG CAN

LOCATION: 1.2 NM NW OF LANG CAN

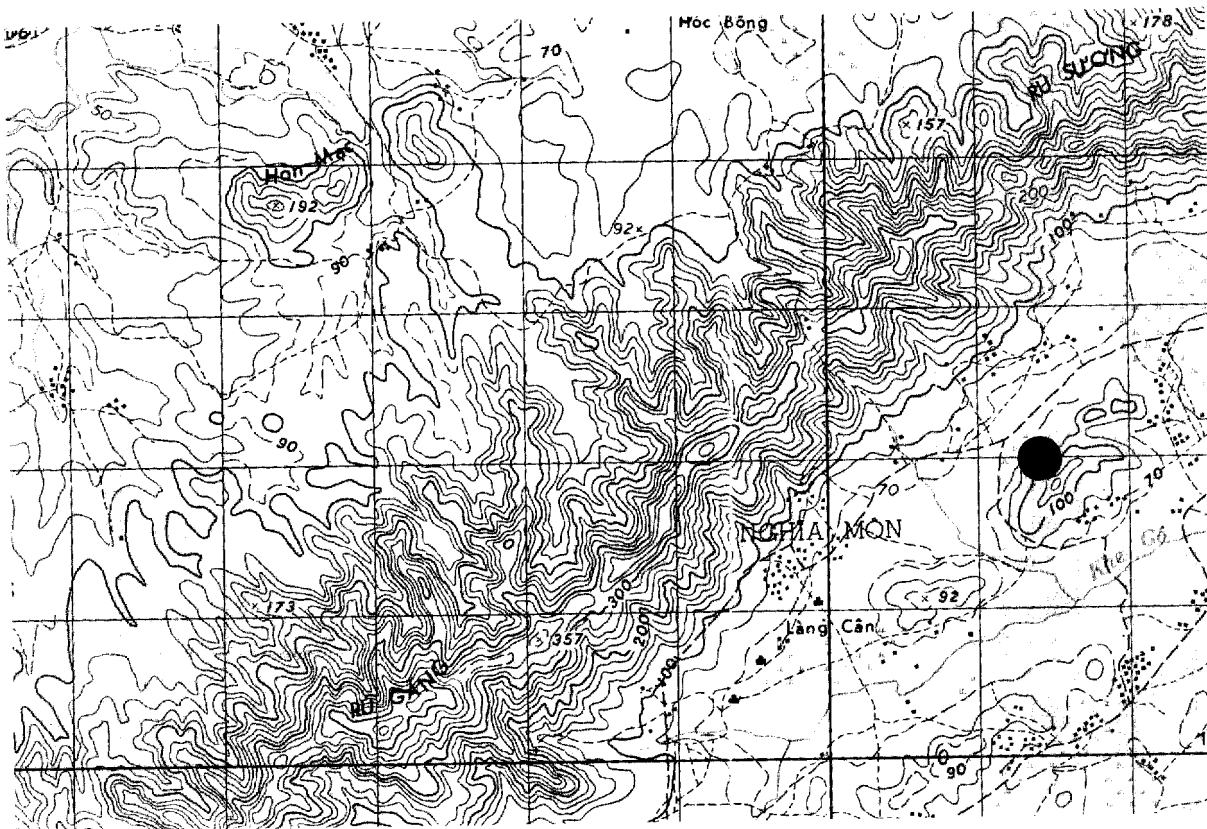
DESCRIPTION: AREA CONSISTS OF 3 TANKS SITUATED IN AN OPEN EXCAVATION.  
THE DISRUPTIVE PAINTING DESIGN IS TYPICAL OF OTHERS SEEN IN NORTH VIETNAM.  
THE TANK SIZE, APPROXIMATELY [REDACTED] IS DIFFERENT THAN STANDARD  
SIZES NOTED IN THE PREFACE.

ESTIMATED CAPACITY: TANK 24 MT

MAP REFERENCES: AMS SERIES L7010, SHEET 6068-I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-3, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

[REDACTED] 25X1D



25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

16 November 1966

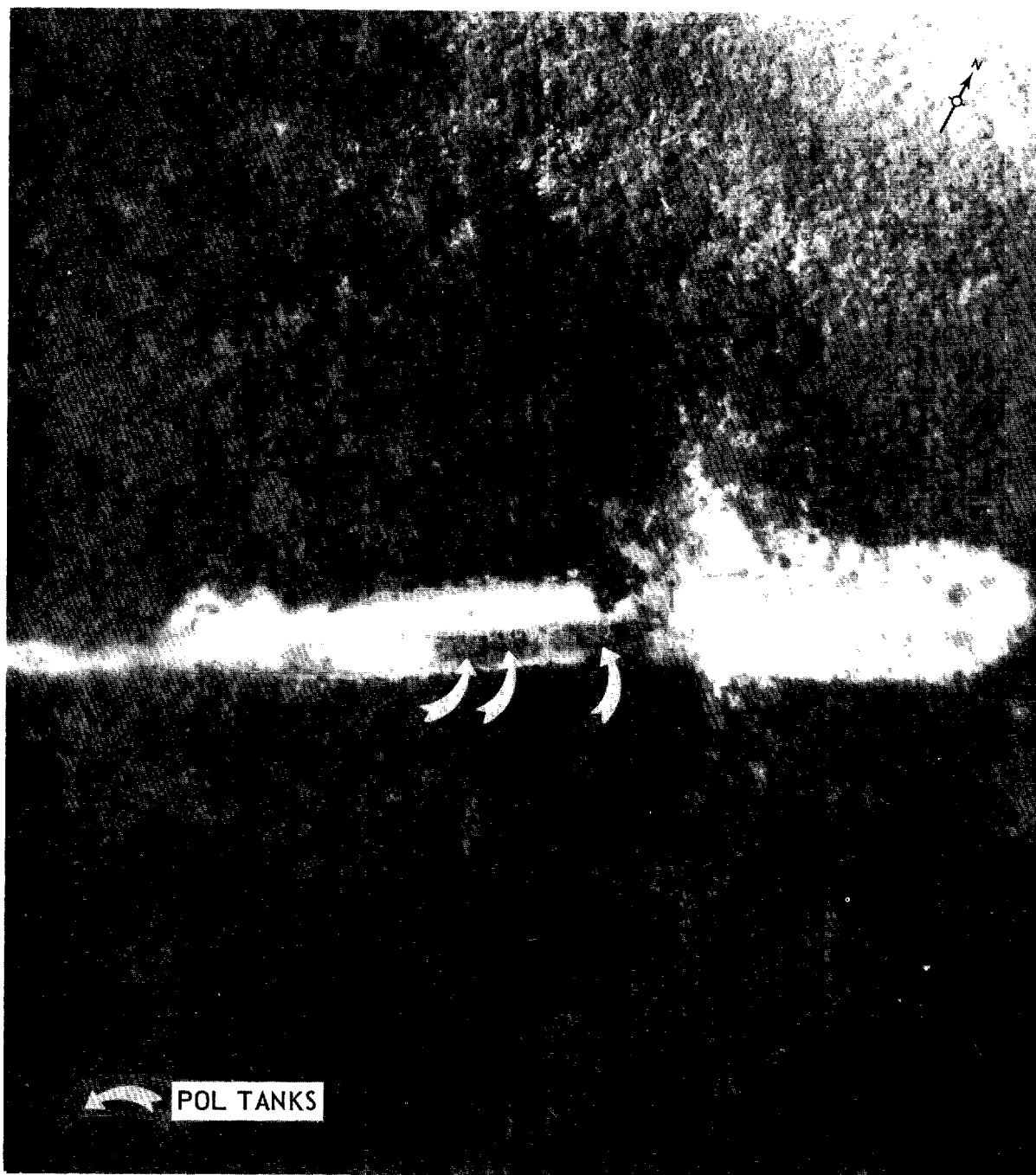
CONFIDENTIAL



POL TANKS LANG CAN

WG514220  
UTM COORDINATES

1911N 10529E  
GEOGRAPHIC COORDINATES



25X1C

D46

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

CONFIDENTIAL





0616-  
BE NUMBER

WJ879244  
UTM COORDINATES

2101N 10550E  
GEOGRAPHIC COORDINATES

NAME: HA NOI POL TANKS

LOCATION: 0.1 NM EAST OF HA NOI RAILROAD STATION CLASSIFICATION YARDS AND SHOPS

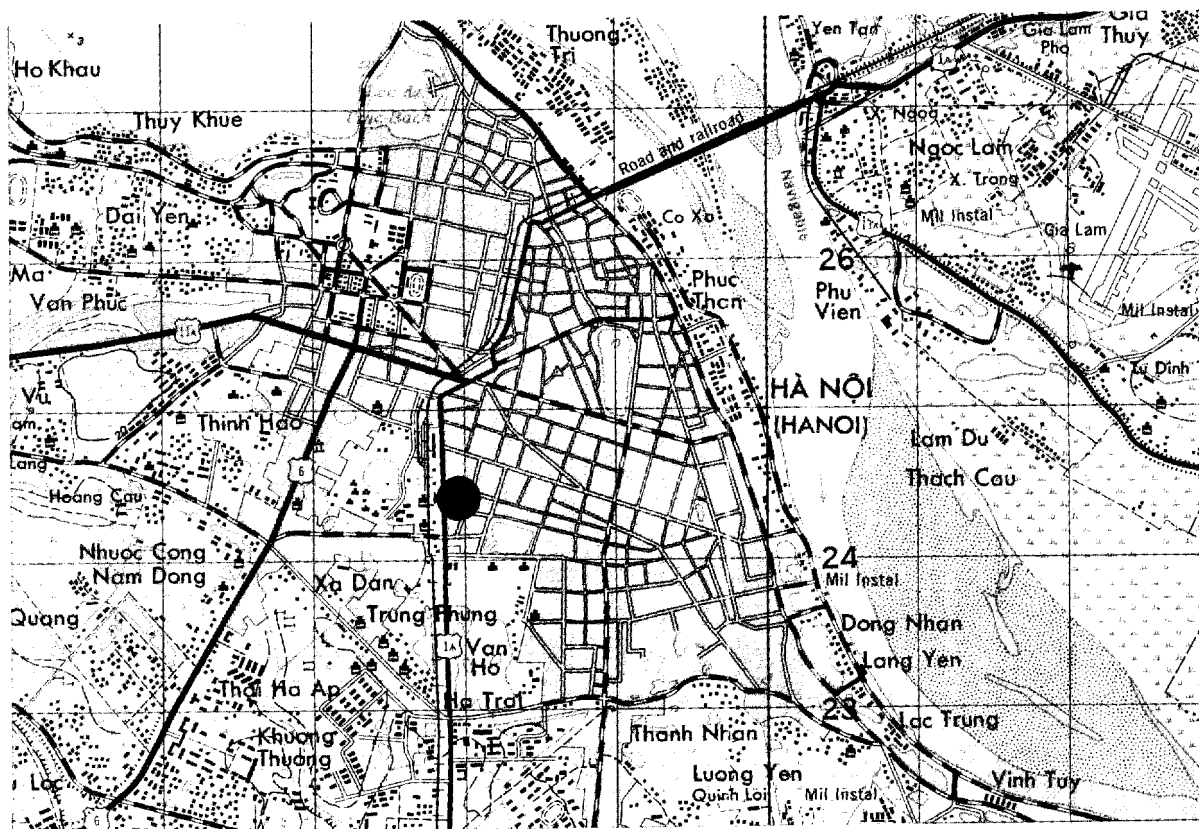
DESCRIPTION: AREA CONTAINS 43 POL TANKS OF 5 DIFFERENT SIZES IN OPEN STORAGE.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1964 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



CONFIDENTIAL

16 November 1966

25X1

HA NOI POL TANKS

WJ879244  
UTM COORDINATES

2101N 10550E  
GEOGRAPHIC COORDINATES



D48

CONFIDENTIAL

25X1

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

CONFIDENTIAL

R 218/66

16 November 1966

25X1

25X1A

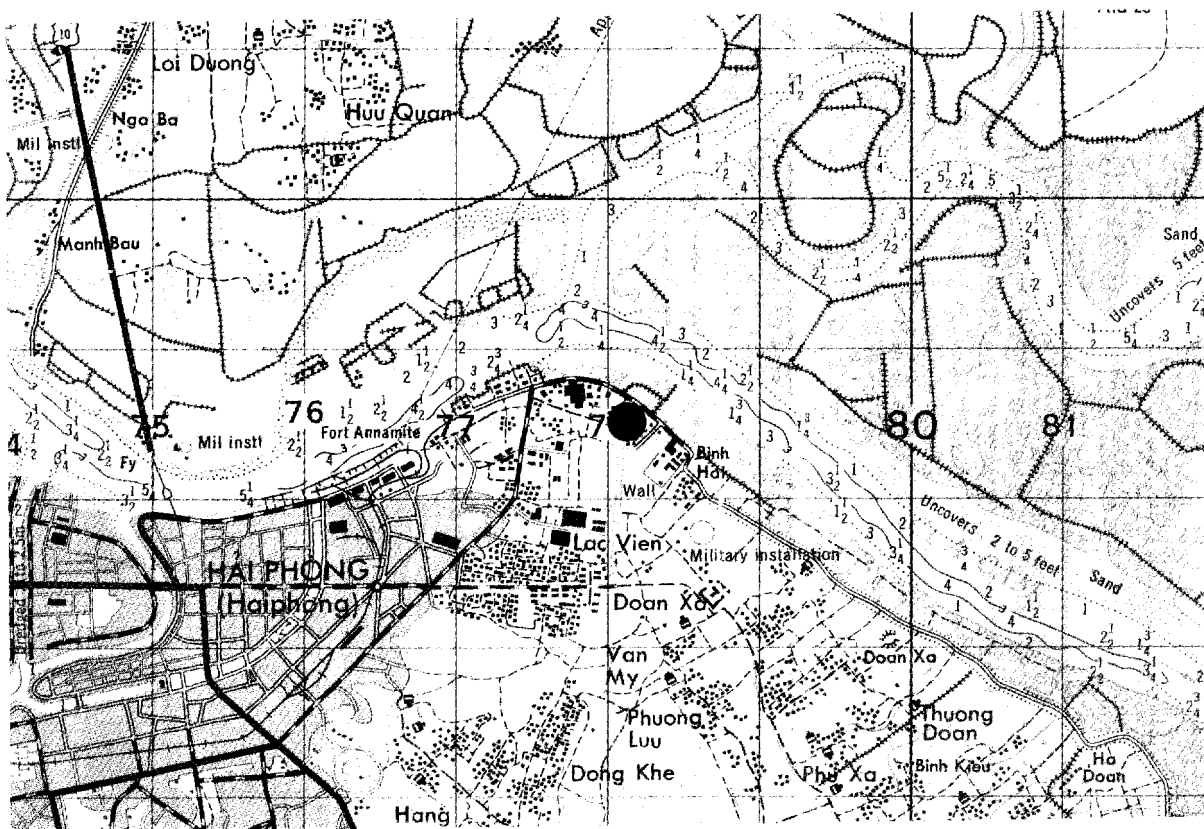
[REDACTED]  
BE NUMBERXJ782085  
UTM COORDINATES2052N 10642E  
GEOGRAPHIC COORDINATES**NAME:** POL TANKS AT HAI PHONG THERMAL POWERPLANT**LOCATION:** NE EDGE OF HAI PHONG, ADJACENT TO HAI PHONG THERMAL POWERPLANT  
EAST**DESCRIPTION:** POL STORAGE FOR PLANT CONSISTS OF 3 VERTICAL CYCLINDRICAL  
TANKS, ONE [REDACTED] IN DIAMETER AND [REDACTED] IN DIAMETER.

25X1

25X1

**ESTIMATED CAPACITY:** TANK 2,500 MT**MAP REFERENCES:** AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)**PHOTO REFERENCE:** [REDACTED]

25X1D



D49

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

CONFIDENTIAL

25X1

25X1

XJ782085  
UTM COORDINATES

POL TANKS AT HAI PHONG THERMAL POWERPLANT  
2052N 10642E  
GEOGRAPHIC COORDINATES



25X1

0616-  
BE NUMBER

XJ736058  
UTM COORDINATES

2050N 10640E  
GEOGRAPHIC COORDINATES

**NAME:** POL STORAGE TANKS HAI PHONG

**LOCATION:** SW SECTION OF HAI PHONG

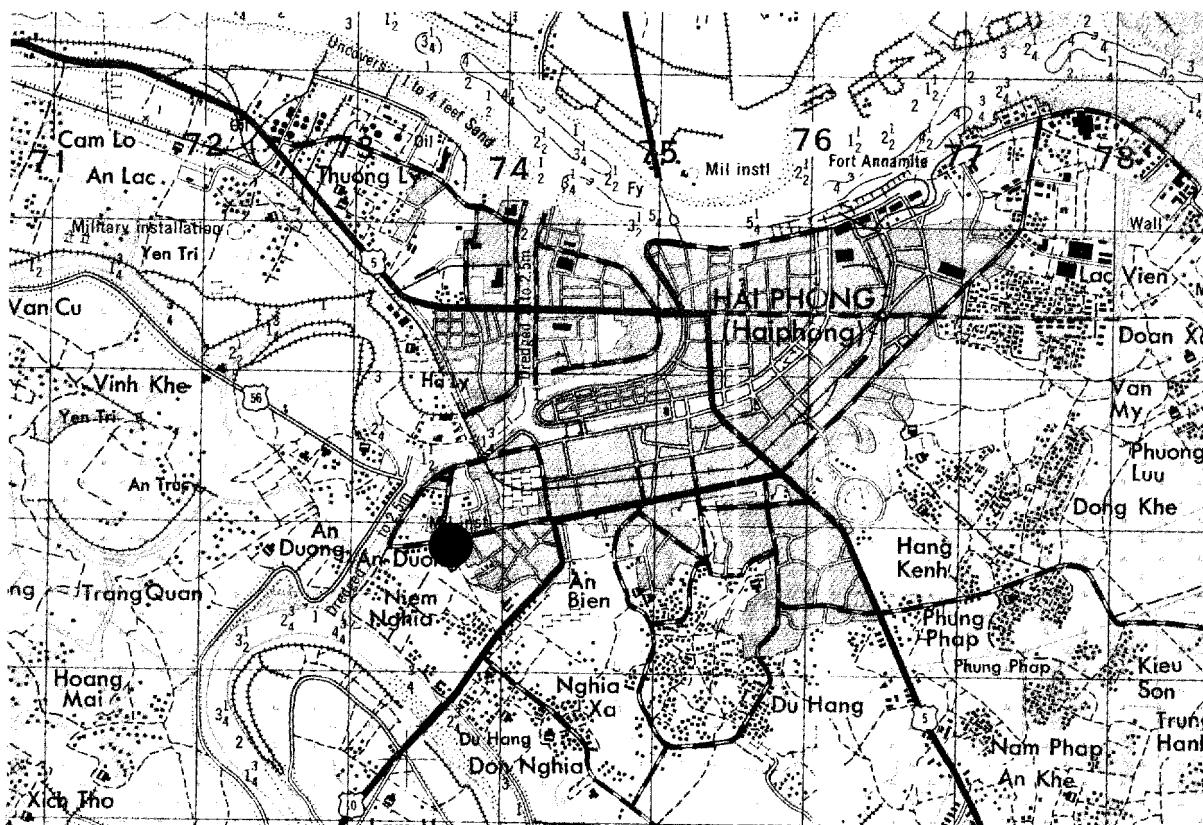
**DESCRIPTION:** AREA CONTAINS 25 LARGE STORAGE TANKS OPENLY STORED ON ROAD JUST NORTH OF WATERWORKS.

**ESTIMATED CAPACITY:** NOT APPLICABLE

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

25X1D





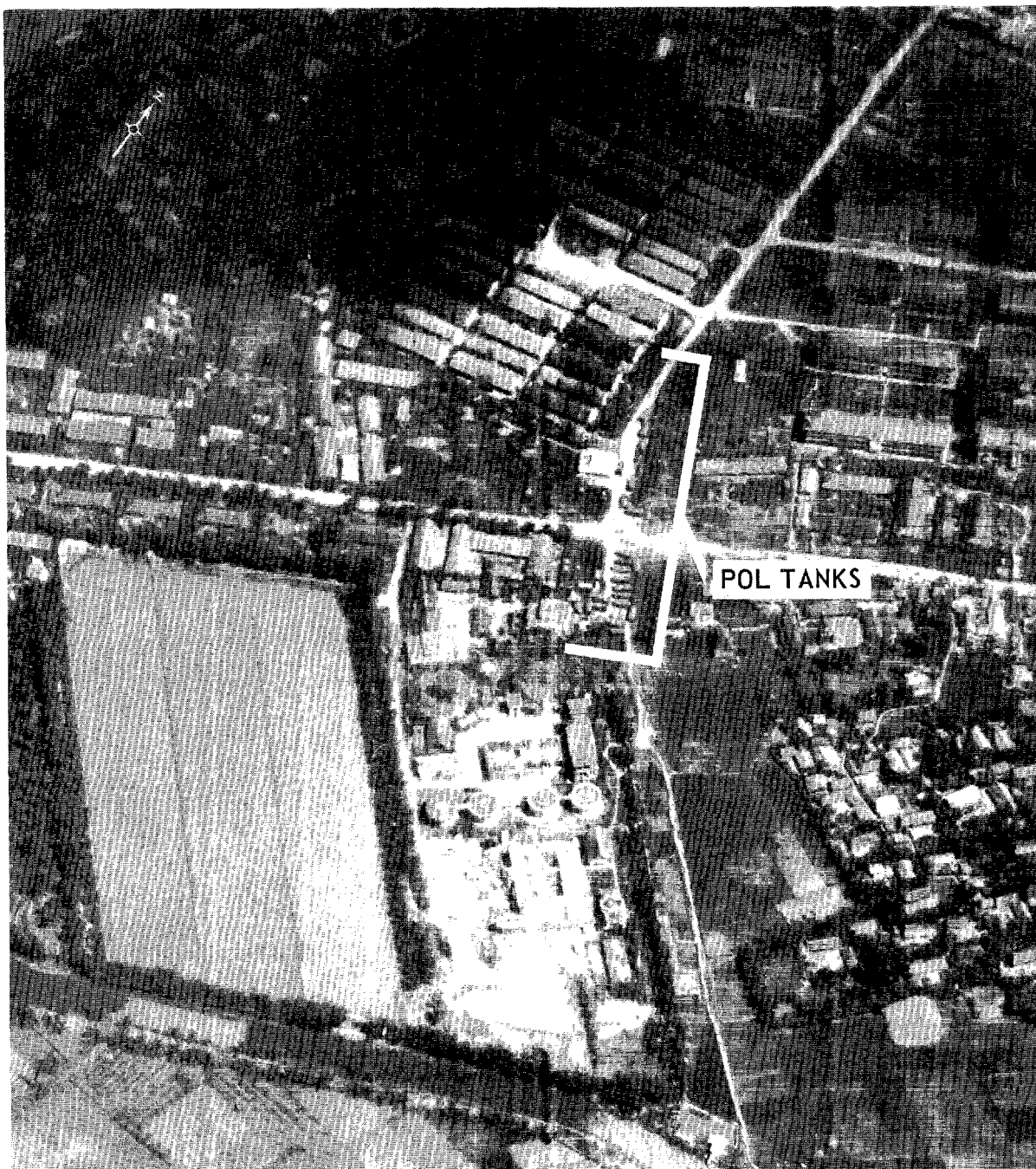
25X1

CONFIDENTIAL  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
R-218/66  
10 November 1966

POL STOPAGE TANKS HAI PHONG

XJ736058  
UTM COORDINATES

2050N 10640E  
GEOGRAPHIC COORDINATES



25X1

25X1C  
CONFIDENTIAL  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
P52



NGUYEN KHE PETROLEUM PRODUCTS STORAGE  
JCS-51.0

WJ892408  
UTM COORDINATES

25X1A

2110N 10551E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS ROAD- AND RAIL-SERVED STORAGE SITE IS 0.4 NM SE OF NGUYEN KHE AND 8.3 NM NORTH OF HA NOI. PHOTOGRAPHY OF [REDACTED] REVEALED THE SITE TO CONTAIN 4 ABOVEGROUND VERTICAL TANKS, 9 PARTIALLY BURIED VERTICAL TANKS, 3 SERVICE TANKS, 3,000 DRUMS, 3 POL TRUCKS, A RAIL TANKER LOADING FACILITY, AND SEVERAL STORAGE AND BARRACKS-TYPE BUILDINGS. SIXTEEN UNDERGROUND PROTECTIVE STORAGE BUNKERS WERE REMOVED PRIOR TO STRIKE. THE DEPOT HAD AN ORIGINAL STORAGE CAPACITY OF 8,925 MT AND WAS ONE OF THE LARGEST POL STORAGE FACILITIES IN THE COUNTRY. IT IS BELIEVED TO SERVE THE MILITARY FORCES IN THE NORTHERN PROVINCES.

TWENTY-ONE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 35 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 5 ACTIVE SITES CONSISTING OF 13 OCCUPIED 57MM/85MM REVETMENTS AND 12 OCCUPIED 37MM REVETMENTS. THERE ARE 71 ACTIVE SITES IN THE ENTIRE HA NOI COMPLEX. IN ADDITION, 8 INACTIVE SITES ARE IN THE IMMEDIATE AREA. MODERATE TO INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT THROUGHOUT THE HA NOI COMPLEX.

DAMAGE OBJECTIVE IS DESTRUCTION OF STORED POL. DAMAGE CRITERION IS RUPTURE OF STORAGE TANKS AND DISTORTION OF EXPOSED PIPING AND EQUIPMENT. FIRING OF SPILLED CONTENTS WILL ENHANCE DISABILITY. LOSS OF STORAGE CAPABILITY AND STOCKS ON HAND AT THIS FACILITY WOULD INDUCE SHORTAGES OF FUELS IN THE NORTHERN PROVINCES, NECESSITATING REROUTING OF MATERIALS NEEDED ELSEWHERE. ADDITIONAL BURDENS WOULD BE PLACED ON OTHER FACILITIES IN THE HA NOI AREA.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE SEVERAL MONTHS. NORTH VIETNAM IS NOT KNOWN TO BE MANUFACTURING TANK COMPONENTS, APPROPRIATE STEEL TUBING, PIPING, PUMPS, OR OTHER ITEMS BASIC TO THE CONSTRUCTION OR MAINTENANCE OF POL STORAGE FACILITIES. THE EXISTING RELIANCE ON IMPORTED MATERIALS AND SKILLS IS EXPECTED TO CONTINUE INDEFINITELY. ALTHOUGH PREFABRICATED TANKS OF SOVIET DESIGN CAN BE INSTALLED AT A PREPARED SITE IN ABOUT A WEEK, IT APPEARS UNLIKELY THAT EITHER THE SOVIETS OR THE COMMUNIST CHINESE COULD PLACE ALL THE NECESSARY ELEMENTS TOGETHER IN LESS THAN 4 WEEKS, EVEN UNDER EMERGENCY CONDITIONS.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-A9

25X1

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK ONCE ON 3 SEPTEMBER AND 5 TIMES ON 4 SEPTEMBER 1966 BY 18 USAF AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 46/750#GP, 56/500#GP, AND 6/CBU-24 BOMBS.

PHOTOGRAPHY FROM THIS STRIKE REVEALS 51 NEW CRATERS IN AND AROUND THE TARGET AREA, 1 VERTICAL TANK DESTROYED, 2 ABOVEGROUND VERTICAL TANKS DAMAGED, AND 2 SERVICE TANKS DAMAGED. THE REMAINING TANKS APPEAR UNDAAGED. NO DRUMS OR POL TRUCKS WERE OBSERVED IN THE AREA. PRESENT ESTIMATED CAPACITY IS 5,925 MT.

25X1C X-A10

25X1

25X1C

SECRET

R-218/66

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

16 November 1966

25X1

[REDACTED]  
DUONG NHAM PETROLEUM PRODUCTS STORAGE  
JCS-51.17

XJ572260  
UTM COORDINATES

25X1A

2101N 10630E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS FACILITY IS 0.4 NM NORTH OF DUONG NHAM AND 14.5 NM NW OF HAI PHONG. IT IS SERVED BY ROAD AND IS PROBABLY CAPABLE OF RECEIPT AND/OR DELIVERY AT THE NEARBY RIVER. PRE-STRIKE PHOTOGRAPHY REVEALED 4 VERTICAL ABOVE-GROUND TANKS AND 3 PROBABLE TANK BASES AT THE FOOT OF A HILL. IT HAD AN ESTIMATED CAPACITY OF 4,920 MT.

THE LOCATION OF THE TARGET AND THE HARDNESS AND CONFIGURATION OF THE SITE INDICATE THAT IT WAS ORIGINALLY IMPORTANT TO ACTIVITIES IN THE AREA AND THAT IT WAS INTENDED TO SERVE AS A RESERVE FOR THE FACILITIES AT HAI PHONG.

TWENTY-ONE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 24 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET IS NOT EXPECTED IN THE FORESEEABLE FUTURE.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK FOR THE SEVENTH TIME ON 12 SEPTEMBER 1966 BY 5 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 4/1000#GP, 20/500#GP, AND 29/250#GP BOMBS.

25X1

PHOTOGRAPHY OF [REDACTED] REVEALS THAT THE 4 VERTICAL TANKS HAVE BEEN DESTROYED. APPROXIMATELY 80 STORAGE DRUMS ARE APPARENT AT THE SITE.

25X1C

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-A17

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

SECRET

25X1

VINH PETROLEUM PRODUCTS STORAGE  
JCS-50

WF762644  
UTM COORDINATES

25X1A

1840N 10543E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS TARGET AREA IS ON THE NW BANK OF THE SONG CA (RIVER) AND 2.8 NM EAST OF VINH. [REDACTED] REVEALED 3 LARGE, 5 MEDIUM, AND 6 SMALL VERTICAL ABOVEGROUND TANKS; 5 HORIZONTAL TANKS; AND 2 UNDERGROUND TANKS. [REDACTED] REVEALED 8 PREVIOUSLY UNOBSERVED BUNKERED HORIZONTAL TANKS; 2 UNDERGROUND VERTICAL TANKS UNDAMAGED; 1 LARGE AND 1 MEDIUM TANK DAMAGED; AND 2 LARGE, 4 MEDIUM, 6 SMALL VERTICAL, AND 5 SERVICE TANKS DESTROYED.

PRIOR TO [REDACTED] THE TARGET WAS THE THIRD LARGEST POL STORAGE DEPOT IN THE COUNTRY WITH A CAPACITY OF 14,325 MT EXCLUSIVE OF 8 BUNKERED HORIZONTAL TANKS. THIS DEPOT PLAYED A KEY ROLE IN THE STAGING OF TRANSPORT/SUPPLY OPERATIONS INTO SOUTH VIETNAM OR LAOS. IF OPERATIONAL, THE BERTHING FACILITIES AT THIS DEPOT CAN ACCOMMODATE SMALL OCEAN-GOING OR COASTAL TANKERS IF FACILITIES AT HAI PHONG ARE LOST. THE DEPOT IS STRATEGICALLY LOCATED FOR STAGING OPERATIONS INTO SOUTH VIETNAM OR LAOS.

TWO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 3 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM INCLUDES 22 ACTIVE SITES CONSISTING OF 39 OCCUPIED 37MM/57MM REVETMENTS AND 100 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 80 INACTIVE REVETMENTS IN THE AREA. INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

DAMAGE OBJECTIVE IS DESTRUCTION OF STORED POL. DAMAGE CRITERION IS RUPTURE OF STORAGE TANKS AND DISTORTION OF EXPOSED PIPING AND EQUIPMENT. FIRING OF SPILLED CONTENTS WILL ENHANCE DISABILITY.

THIS STORAGE SITE WILL PROBABLY NOT BE RESTORED IN THE FORESEEABLE FUTURE.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK FOR THE EIGHTH TIME ON 9 JUNE 1966 BY 8 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 20/1000#GP BOMBS.

RESULTS OF THIS STRIKE WERE 5 SMALL TANKS DESTROYED AND 2 DAMAGED (1 SEVERE, 1 MODERATE), 5 SUPPORT BUILDINGS DESTROYED AND 5 DAMAGED (1 SEVERE, 2 MODERATE, 2 SUPERFICIAL), AND THE PIER WAS SUPERFICIALLY DAMAGED. OUTSIDE THE TARGET COMPLEX, 12 BUILDINGS WERE DESTROYED.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-A23

25X1C

25X1C

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SECRET

R-218/66

to November 1966

25X1

CUMULATIVE RESULTS INCLUDE 2 LARGE ABOVEGROUND TANKS AND 5 SMALL HORIZONTAL ABOVEGROUND TANKS DESTROYED; 1 LARGE ABOVEGROUND TANK (SEVERE); 1 LARGE UNDERGROUND TANK (SUPERFICIAL); AND 2 SMALL HORIZONTAL ABOVEGROUND TANKS (1 SEVERE, 1 MODERATE). TWO LARGE UNDERGROUND TANKS AND 3 SMALL HORIZONTAL ABOVEGROUND TANKS REMAIN UNDAMAGED.

PRESENT ESTIMATED CAPACITY OF THIS SITE IS 1,600 MT.

X-A24

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

SECRET

25X1

SECRET

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

R-218/66

27 September 1966

25X1A

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25X1A

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

SECRET



SECRET

R-218/66

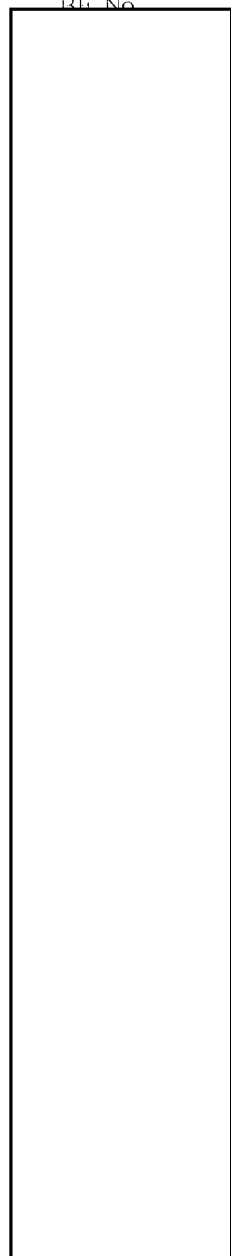
10031-4

25X1

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25X1A

REF No



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25X1C

SECRET

25X1

25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
SECRET  
R-218/66  
10 November 1966

BAI THUONG PETROLEUM PRODUCTS STORAGE UNDERGROUND SOUTHEAST

WG436952  
UTM COORDINATES

25X1A

1951N 10525E  
GEOGRAPHIC COORDINATES

#### PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED STORAGE AREA IS 4.2 NM SW OF BAI THUONG AIRFIELD AND 3.2 NM SE OF BAI THUONG. PRIOR TO STRIKE, IT CONTAINED APPROXIMATELY 110 BURIED TANKS, 60 UNBURIED TANKS, AND 7 OPEN EXCAVATIONS. IT HAD A PRE-STRIKE ESTIMATED CAPACITY OF 2,040 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THREE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 8 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 11 ACTIVE SITES CONSISTING OF 41 OCCUPIED 37MM/57MM REVETMENTS AND 21 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 3 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

#### BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK ON 19, 24, 27, AND 28 AUGUST 1966 AND AGAIN ON 8 AND 10 SEPTEMBER BY 16 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 26/1000#GP, 15/500#GP, AND 8/250#GP BOMBS, AND 57/2.75" ROCKETS.

POST-STRIKE PHOTOGRAPHY REVEALS EXTENSIVE CRATERES IN THE AREA, AND APPARENT ATTEMPTS TO RECLAIM POL AND/OR TANKS. THE SITE NOW CONTAINS 58 UNDAMAGED PLUS 6 DESTROYED/DAMAGED ABOVEGROUND TANKS, 35 APPARENTLY UNDAMAGED BUNKERED TANKS, AND 22 TANKS IN EXCAVATIONS. POST-STRIKE ESTIMATED CAPACITY IS 1,380 MT.

25X1C

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B11

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4  
SECRET

25X1

25X1

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4 R-218/66  
16 November 1966  
YEN HAU PETROLEUM PRODUCTS STORAGE PARTLY UNDERGROUND

WG593166  
UTM COORDINATES

25X1A

1908N 10534E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED STORAGE SITE IS 0.5 NM NNW OF YEN HAU, 0.3 NM EAST OF ROUTE 116, AND 4 NM EAST OF ROUTE 1A. PHOTOGRAPHY [REDACTED] REVEALED 50 BUNKERED TANKS WITH A CAPACITY OF 600 MT, APPROXIMATELY 2,000 POL DRUMS WITH A CAPACITY OF 400 MT, AND 20 OPEN EXCAVATIONS.

25X1

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SIX SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 1 ADDITIONAL SITE HAS BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE YEN HAU AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK ON 15, 24, 25, 27, 29, AND 30 AUGUST 1966 BY 14 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 5/2000#GP, 21/1000#GP, 15/500#GP, AND 6/250#GP BOMBS.

25X1

PHOTOGRAPHY [REDACTED] REVEALS THAT THE AREA HAS 26 UNDAMAGED BUNKERED TANKS, 7 ABOVEGROUND TANKS, 2 EMPTY EXCAVATIONS, AND AT LEAST 45 NEW IMPACT AREAS. NO DRUM STORAGE IS OBSERVED. ESTIMATED POST-STRIKE CAPACITY IS 396 MT.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B21

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

25X1

SECRET

R-218/66

10 November 1966

PHUC YEN AIRFIELD TOE STORAGE AREA

WJ847519  
UTM COORDINATES

25X1A

2116N 10549E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED STORAGE AREA IS 2.9 NM NORTH OF PHUC YEN AIRFIELD. IT WAS UNDER CONSTRUCTION ON 20 JULY 1965. AT WHICH TIME IT CONTAINED 12 OPEN EXCAVATIONS AND 10 LARGE TANKS. [REDACTED] REVEALED 12 TANKS IN 3 BUNKERS AND, 0.2 NM SE OF THE SITE, WERE 5 ADDITIONAL TANKS BEING BURIED. [REDACTED] REVEALS THAT THE 5 TANKS IN THE PROCESS OF BEING BURIED HAVE NOW BEEN REMOVED. ESTIMATED CAPACITY OF THE SITE IS 300 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-FIVE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 31 ADDITIONAL SITES ARE WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY IN THE AREA INCLUDES 15 ACTIVE SITES CONSISTING OF 16 OCCUPIED 100MM REVETMENTS, 47 OCCUPIED 57MM/85MM REVETMENTS, AND 25 OCCUPIED 37MM REVETMENTS. IN ADDITION, THERE ARE 12 INACTIVE SITES IN THE AREA. MODERATE TO INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B55

SECRET

SECRET

THUAN LE POL STORAGE AREA

XF143133  
UTM COORDINATES

1812N 10604E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED STORAGE SITE, 0.3 NM SSE OF THUAN LE AND 0.6 NM SOUTH OF ROUTE 1A, FORMERLY CONSISTED OF 3 AREAS WITH A TOTAL OF 44 SMALL BURIED TANKS. PRIOR TO STRIKE THE SOUTHERNMOST AREA CONTAINED 4 ROWS OF 5 BURIED TANKS EACH AND THE NORTHERN AREA CONTAINED 24 BURIED TANKS IN A SINGLE ROW. IT HAD A PRE-STRIKE ESTIMATED CAPACITY OF 308 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

NO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET; HOWEVER, 3 SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 1 ACTIVE SITE CONSISTING OF 1 OCCUPIED 37MM/57MM REVETMENT. IN ADDITION, THERE ARE 23 INACTIVE SITES IN THE AREA. SPARSE TO MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK 14 TIMES DURING SEPTEMBER 1966 BY 42 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 20/1000#GP, 68/500#GP, AND 90/250#GP BOMBS AND 5 ZUNI ROCKETS.

PHOTOGRAPHY [REDACTED] REVEALS THAT THE NORTH AREA CONTAINS 19 SMALL BUNKERED TANKS, 1 SMALL EXPOSED TANK, AND 4 DESTROYED TANKS. THE SOUTH AREA CONTAINS 19 SMALL BUNKERED TANKS AND 1 DESTROYED TANK. IN THE EAST AREA ARE 20 EMPTY EXCAVATIONS. NO DRUMS ARE APPARENT. THE SITE NOW HAS AN ESTIMATED CAPACITY OF 273 MT.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B69

SECRET

SECRET

R-218/66

16 November 1966

25X1

TRI BINH PETROLEUM PRODUCTS STORAGE

WG573873  
UTM COORDINATES

25X1A

1946N 10532E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.6 NM EAST OF TRI BINH AND 15 NM WSW OF THANH HOA. PRIOR TO STRIKE IT CONSISTED OF 5 UNDERGROUND POL TANKS WITH AN ESTIMATED CAPACITY OF 60 MT.

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SIX SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 5 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE TRI BINH AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK ON 10 AND 24 AUGUST AND ON 3 AND 4 SEPTEMBER 1966 BY 18 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 15/1000#GP, 8/500#GP, AND 77/250#GP BOMBS.

25X1

PHOTOGRAPHY [REDACTED] REVEALS 1 TANK DESTROYED, 2 TANKS DAMAGED, AND 2 BUNKERED TANKS UNDAMAGED. THE ESTIMATED POST-STRIKE CAPACITY OF THE SITE IS 48 MT.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B117

25X1C

SECRET

25X1



SECRET

R-218/66

10 November 1966

THUONG LAM PETROLEUM PRODUCTS STORAGE

WJ701005  
UTM COORDINATES

2048N 10540E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE FACILITY IS 0.3 NM NW OF THUONG LAM, IMMEDIATELY SOUTH OF ROUTE 212, AND 2 NM WEST OF THE SONG DAY (RIVER). IT CONTAINS 8 TANKS IN OPEN EXCAVATIONS, OF WHICH 4 ARE ON EACH SIDE OF A SECONDARY ROAD. ESTIMATED CAPACITY IS 96 MT.

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

NINE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 25 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 10 ACTIVE SITES CONSISTING OF 55 OCCUPIED 57MM/85MM REVETMENTS AND 6 OCCUPIED 37MM REVETMENTS. THERE ARE 6 INACTIVE SITES IN THE IMMEDIATE AREA, AND A TOTAL OF 27 ACTIVE SITES IN THE ENTIRE HAI PHONG COMPLEX. MODERATE TO INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT THROUGHOUT THE HAI PHONG AREA.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B119

SECRET

25X1

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

~~SECRET~~

R-218/66

10 November 1966

CAU CONG PETROLEUM PRODUCTS STORAGE

XH225839  
UTM COORDINATES

2039N 10610E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.5 NM NORTH OF CAU CONG, ON THE SOUTH BANK OF THE CANAL DES BAMBOUS. THE ROAD-SERVED FACILITY CONTAINS 30 BUNKERED TANKS AND 2 ABOVEGROUND TANKS WITH AN ESTIMATED CAPACITY OF 384 MT.

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

NINE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 20 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE TARGET AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B121

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

~~SECRET~~

25X1

25X1

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4 R-218/66  
 25X1C 16 November 1966

TUNG TU PETROLEUM PRODUCTS STORAGE UNDERGROUND

WJ908773  
 UTM COORDINATES

25X1A

2129N 10552E  
 GEOGRAPHIC COORDINATES

# PRE-STRIKE TARGET DESCRIPTION

THIS TARGET AREA IS 0.2 NM NNE OF TUNG TU, IMMEDIATELY WEST OF ROUTE 3, AND 5.8 NM SSE OF THAI NGUYEN. THE ROAD-SERVED FACILITY WAS UNDER CONSTRUCTION IN AUGUST 1965 AND CONSISTED OF AT LEAST 14 BUNKERED TANKS, 1 LARGE TANK IN AN OPEN EXCAVATION, 1 EMPTY EXCAVATION, AND AN UNIDENTIFIED OBJECT IN AN OPEN EXCAVATION. ESTIMATED CAPACITY IS 375 MT.

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

FIFTEEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 24 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY IN THE AREA INCLUDES 2 ACTIVE SITES CONSISTING OF 16 OCCUPIED 57MM/85MM REVETMENTS. IN ADDITION, THERE IS 1 DUMMY 57MM/85MM SITE IN THE AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

25X1C

X-B123

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

25X1

SECRET

R-218/66

16 November 1966

DON SON PETROLEUM PRODUCTS STORAGE

XJ674266  
UTM COORDINATES

2102N 10636E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.6 NM NW OF DON SON, ON THE NORTH BANK OF THE SONG DA BACH (RIVER). THE ROAD- AND WATER-SERVED FACILITY CONTAINS 62 BUNKERED TANKS IN 7 SEPARATE GROUPS. IT HAS AN ESTIMATED CAPACITY OF 744 MT.

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-TWO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 17 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE TARGET AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B125

SECRET

25X1

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

SECRET

R-218/66

16 November 1966

QUY KHE PETROLEUM PRODUCTS STORAGE

XJ697237  
UTM COORDINATES

2100N 10638E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.9 NM WEST OF QUY KHE, ON THE SOUTH BANK OF THE SONG DA BACH (RIVER). THE FACILITY IS SERVED BY ROAD AND PROBABLY BY WATER, AND CONTAINS APPROXIMATELY 112 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 1,344 MT.

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 18 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE TARGET AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B127

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

SECRET

25X1

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

SECRET

R-218/66

16 November 1966

TRAN XA PETROLEUM PRODUCTS STORAGE

XJ374286  
UTM COORDINATES

2103N 10619E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.5 NM SW OF TRAN XA, ON THE SOUTH BANK OF THE SONG KINH THAY (RIVER), AND JUST WEST OF ROUTE 181. THE FENCED AREA CONTAINS 50 TANKS IN 25 BUNKERS (2 TANKS PER BUNKER). THE ROAD- AND PROBABLY WATER-SERVED FACILITY HAS AN ESTIMATED CAPACITY OF 1,250 MT.

THIS SITE IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

EIGHTEEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 26 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE TARGET AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B129

25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010031-4

SECRET

SECRET

R-218/66

16 November 1966

25X1

THANH HOA PETROLEUM PRODUCTS STORAGE

25X1C

WG811916  
UTM COORDINATES

25X1A

1949N 10546E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.8 NM NORTH OF THANH HOA, ADJACENT TO THE THANH HOA - HA NOI RAIL LINE. IT IS FENCED AND CONTAINS 12 SMALL BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 84 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SIX SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 8 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 16 ACTIVE SITES CONSISTING OF 37 OCCUPIED 37MM/57MM REVETMENTS AND 44 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 18 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B131

25X1C

SECRET

25X1



25X1  
[REDACTED]  
TRAM DU PETROLEUM PRODUCTS STORAGE

XJ339202  
UTM COORDINATES

2058N 10617E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

SITUATED ON THE SOUTH BANK OF THE SONG THAI BINH (RIVER), 0.3 NM EAST OF TRAM DU, AND 3.5 NM NW OF HAI DUONG, THIS STORAGE SITE CONSISTS OF 4 BUNKERS CONTAINING 42 LARGE TANKS WITH AN ESTIMATED CAPACITY OF 1,050 MT. TWO CAMOUFLAGED POL BARGES ARE OBSERVED APPROXIMATELY 0.4 NM WNW OF THE FACILITY.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

SEVENTEEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 38 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM INCLUDES 1 ACTIVE SITE CONSISTING OF 3 OCCUPIED 37MM/57MM REVETMENTS. IN ADDITION, THERE ARE 17 INACTIVE SITES IN THE AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

25X1C

X-B133

SECRET

R-218/66

10 November 1966

LUC NONG PETROLEUM PRODUCTS STORAGE

XJ635156  
UTM COORDINATES

2055N 10634E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS ON THE SOUTH BANK OF THE SONG VAN DUONG (RIVER), 0.2 NM SOUTH OF LUC NONG, AND 8 NM NW OF HAI PHONG. IT CONSISTS OF 6 BUNKERS CONTAINING AT LEAST 60 TANKS. ESTIMATED CAPACITY IS 720 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-SEVEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 13 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 5 ACTIVE SITES CONSISTING OF 11 OCCUPIED 37MM/57MM REVETMENTS AND 13 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 11 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B135

SECRET

THAI NGUYEN PETROL/COM PRODUCTS STORAGE

WJ836890  
UTM COORDINATES

25X1A

2136N 10548E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS FENCED STORAGE SITE IS ADJACENT TO QUAY VINH AND 2.2 NM WNW OF THAI NGUYEN. ROUTE 3 AND A RAIL LINE SERVE THE AREA, WHICH CONSISTS OF 6 BUNKERED TANKS, 1 UNBURIED TANK, AND APPROXIMATELY 75 DRUMS. IT HAS AN ESTIMATED CAPACITY OF 84 MT IN TANKS AND 15 MT IN DRUMS.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

NINE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 23 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM INCLUDES 21 ACTIVE SITES CONSISTING OF 79 OCCUPIED 37MM/57MM REVETMENTS AND 47 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 11 INACTIVE SITES IN THE AREA. INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK ON 8 JULY 1966 BY 4 USAF AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 24/750#GP BOMBS.

AS A RESULT OF THIS STRIKE, THE AREA IS HEAVILY CRATERED; PIPELINES LEADING FROM THE RAILWAY TO THE STORAGE TANKS ARE DESTROYED. THE STORAGE TANKS, A SMALL PUMPHOUSE, AND A SMALL SHED APPEAR UNDAMAGED. NINE BUILDINGS ABOUT 100 YARDS NORTH OF THE POL STORAGE AREA ARE DESTROYED AND 1 IS MODERATELY DAMAGED. THE STORAGE CAPACITY OF THE SITE HAS NOT CHANGED.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B137

TIEN NONG PETROLEUM PRODUCTS STORAGE

XJ625149  
UTM COORDINATES

2055N 10633E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS ON THE SOUTH BANK OF THE SONG VAN DUONG (RIVER), 0.5 NM NNW OF TIEN NONG, AND 8 NM NW OF HAI PHONG. IT CONSISTS OF 35 TANKS IN 14 BUNKERS. ESTIMATED CAPACITY IS 420 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-SEVEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 13 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 5 ACTIVE SITES CONSISTING OF 11 OCCUPIED 37MM/57MM REVETMENTS AND 13 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 11 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B139

VINH PETROLEUM PRODUCTS STORAGE PARTLY UNDERGROUND BEN THUY

WF738621  
UTM COORDINATES

25X1A

1839N 10542E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS RAIL- AND ROAD-SERVED STORAGE SITE IS 1.8 NM SE OF VINH AND 0.6 NM NW OF BEN THUY PORT AND THE SONG CA (RIVER). IT CONTAINS 8 BUNKERED TANKS (IN PAIRS) ADJACENT TO A RAIL LINE, AND 6 TANKS IN A SINGLE BUNKER ADJACENT TO A RAIL SPUR. ESTIMATED CAPACITY IS 168 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 3 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 24 ACTIVE SITES CONSISTING OF 51 OCCUPIED 37MM/57MM REVETMENTS AND 89 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 62 INACTIVE SITES IN THE AREA. INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK ON 24 JULY 1966 BY 4 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 8/1000#GP AND 8/500#GP BOMBS. NO DAMAGE WAS APPARENT IN THE AREA.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B141

25X1C

CHI LINH PETROLEUM PRODUCTS STORAGE

XJ377304  
UTM COORDINATES

2104N 10619E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS ON THE WEST BANK OF THE SONG KINH THAY (RIVER), 0.6 NM ENE OF CHI LINH, AND 24 NM NW OF HAI PHONG. IT CONSISTS OF 13 BUNKERS CONTAINING APPROXIMATELY 144 TANKS WITH AN ESTIMATED CAPACITY OF 1,728 MT. THE FACILITY IS SERVED BY ROAD AND PROBABLY BY WATER.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

EIGHTEEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 38 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET; HOWEVER, THERE ARE 2 INACTIVE SITES IN THE AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B143

25X1C

VINH PETROLEUM PRODUCTS STORAGE PARTLY UNDERGROUND YEN DAI

WF708686  
UTM COORDINATES

25X1A  
[REDACTED]

1842N 10540E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED STORAGE FACILITY IS 0.3 NM WEST OF YEN DAI AND 2.5 NM NORTH OF VINH, BETWEEN ROUTE 1A AND THE VINH - THANH HOA RAIL LINE. IT CONSISTS OF 6 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 72 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 6 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 20 ACTIVE SITES CONSISTING OF 47 OCCUPIED 37MM/57MM REVETMENTS AND 67 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 78 INACTIVE SITES IN THE AREA. MODERATE TO INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B145

25X1C

SECRET  
[REDACTED] [REDACTED]



HOANG PHA PETROLEUM PRODUCTS STORAGE

XJ695125  
UTM COORDINATES

2054N 10637E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED SITE IS NEAR THE EAST BANK OF THE CUA CAM (RIVER), 0.4 NM NNW OF HOANG PHA, AND 4.3 NM NW OF HAI PHONG. IT CONTAINS 10 BUNKERS, EACH WITH 2 TANKS. ESTIMATED CAPACITY IS 240 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-TWO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 15 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 14 ACTIVE SITES CONSISTING OF 13 OCCUPIED 37MM/57MM REVETMENTS AND 76 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 26 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B147

KIEN AN POL STORAGE

25X1C

XJ688001  
UTM COORDINATES

2047N 10637E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

25X1A

SITUATED 0.8 NM SE OF THE HAI PHONG/KIEN AN AIRFIELD 1.2  
NM SOUTH OF THE LACH TRAY (RIVER), AND 5 NM SW OF HAI PHONG, THIS ROAD-  
SERVED SITE CONSISTS OF AT LEAST 24 TANKS BURIED IN PAIRS IN ABANDONED  
VEHICLE REVETMENTS. ESTIMATED CAPACITY IS 288 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC  
RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5  
NM) OF THE TARGET, AND 12 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN  
AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET  
INCLUDES 4 ACTIVE SITES CONSISTING OF 6 OCCUPIED 37MM/57MM REVETMENTS AND  
18 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 13 INACTIVE  
SITES IN THE AREA. SPARSE TO MODERATE HMG AND SMALL ARMS FIRE IS ANTIC-  
IPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE  
APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS  
PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS  
COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE  
INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B149

25X1C

25X1

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R-218/66

16 November 1966

PHU THI PETROLEUM PRODUCTS STORAGE

25X1C

XJ006243  
UTM COORDINATES

2101N 10558E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS IMMEDIATELY NORTH OF PHU THI, 1.3 NM SOUTH OF THE CANAL DES RAPIDES, AND 7 NM EAST OF HA NOI. THE FENCED FACILITY IS SERVED BY ROAD AND CONTAINS AT LEAST 30 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 360 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-ONE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 34 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM INCLUDES 14 ACTIVE SITES CONSISTING OF 18 OCCUPIED 37MM/57MM REVETMENTS AND 78 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 10 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B151

25X1C

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~~SECRET~~

25X1

25X1

PHUC YEN PETROLEUM PRODUCTS STORAGE

25X1C

WJ733457  
UTM COORDINATES

2112N 10542E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS ROAD SERVED AND IS SITUATED 1.4 NM SOUTH OF PHUC YEN AND 3.5 NM NORTH OF THE RED RIVER. IT CONSISTS OF 4 REVETTED TANKS AND 2 BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 72 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 32 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET; HOWEVER, THERE ARE 2 INACTIVE SITES IN THE AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B153

25X1C

SECRET

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18 November 1966

## ANNEX II

### 25X1A

Installation Name	Capacity	
	MT Water	MT POL
Viet Tri Petroleum Products Storage	1,730	1,453
Phuc Yen Airfield POL Storage Area	4,200	3,530
Phuc Yen Petroleum Products Storage NNE UG	11,800	9,910
Ila Noi Petroleum Products Storage Thanh Am	600	504
Nguyen Khe Petroleum Products Storage	5,925	4,977
Bac Giang Petroleum Products Storage	1,900	1,596
Nam Dinh Petroleum Products Storage	13,120	11,021
Hai Phong Petroleum Products Storage	48,348	40,612
Duong Nham Petroleum Products Storage	--	--
Do Son Petroleum Storage	1,700	1,428
Phu Van POL Storage	1,000	840
Vinh Petroleum Products Storage	1,600	1,344
Phu Qui Petroleum Products Storage	9,000	7,560
Ila Noi/Gia Lam Airfield POL Storage Area	850	714
La Danh Petroleum Products Storage PUG	2,359	1,982
Van Lung Petroleum Products Storage UG	352	295
Van Lung Petroleum Products Storage West UG	84	71
Hoang Mai POL Storage Area	300	252
Ha Noi Petroleum Products Thi Cam	468	393
Bai Thuong Petroleum Products Storage UG Southeast	756	635
Son La Petroleum Products Storage	384	323
Thuong Thon Petroleum Products Storage UG	456	383
Ngoc Son Petroleum Products Storage PUG	348	292
Thai Lai Petroleum Products Storage	120	101
Yen Hau Petroleum Products Storage PUG	396	333
Thanh Lang Petroleum Products Storage PUG	1,044	877
Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)	516	433
Ha Noi Petroleum Products Storage UG Thanh Liet (Area 2)	120	101
Bang So Petroleum Products Storage PUG	234	197
Son Chau Petroleum Products Storage PUG	336	282
Kep Petroleum Products Storage	2,140	1,797
Ila Noi Petroleum Products Storage Duc Noi (Area 1)	1,108	931
Ha Noi Petroleum Products Storage Duc Noi (Area 2)	451	379
Ila Noi Petroleum Products Storage Duc Noi (Area 3)	300	252
Ha Noi Petroleum Products Storage Duc Noi (Area 4)	72	60

25X1C

SECRET

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25X1

25X1C

## ANNEX II (Continued)

25X1A

BE No.

## Installation Name

## Capacity

MT Water MT POL

Cu Van Petroleum Products Storage	1,128	948
Cu Van Petroleum Products Storage East UG	540	454
Dao Quan Petroleum Products Storage East	444	373
Dao Quan Petroleum Products Storage West	360	302
Nam Dinh Petroleum Products Storage PUG	264	222
Thai Nguyen Petroleum Products Storage PUG South	1,320	1,109
Phuc Yen Airfield POL Storage Area 1	300	252
Phuc Yen Airfield POL Storage Area 2	240	202
Xom Duong Quan Petroleum Products Storage UG East	72	60
Xom Duong Quan Petroleum Products Storage UG	43	36
Nui Tap Tinh POL Storage Area	26.6	22.3
Sac Le POL Storage Area	168	141
Phu Dong POL Storage Area	420	352
Thuan Le POL Storage Area	273	229
Phuc Loc Petroleum Products Storage	156	131
Thanh Hoa POL Storage Area	118	99
Ba Don POL Storage Area	472	396
Phuc Loi Petroleum Products Storage Navy	Unknown	Unknown
Tho Trang Petroleum Products Storage	298	250
Ninh Giang Petroleum Products Storage	324	272
Viet Yen Petroleum Products Storage	1,440	1,210
Kep Ha Petroleum Products Storage	96	81
Tien Hoi Petroleum Products Storage	468	393
Dong Mai Petroleum Products Storage	276	232
Xom Lang POL Storage	312	262
Van Hoa POL Storage	144	121
Phu Lo Petroleum Products Storage NNE UG	228	192
Jaune Island POL Storage	48	40
Co Nhue Hoang POL Storage	180	151
Quang Suoi Petroleum Products Storage	148	124
Trung Phu Petroleum Products Storage	184	155
Gia Hoa Petroleum Products Storage PUG	132	111
Bai Chay Petroleum Products Storage	53	45
Vinh Petroleum Products Storage Yen Thinh	132	111
Ba Don Petroleum Products Storage UG West	99	83
Bac Ninh Petroleum Products Storage	204	169
Vinh Petroleum Products Storage PUG Xuan Yen	70	59

25X1

SECRET

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R-218/66

16 November 1966

ANNEX II (Continued)

25X1A

RE No

Installation Name

Capacity  
MT Water MT POL

Tri Binh Petroleum Products Storage	48	40
Thuong Lam Petroleum Products Storage	96	81
Cau Cong Petroleum Products Storage	384	323
Tung Tu Petroleum Products Storage UG	375	315
Don Son Petroleum Products Storage	744	625
Quy Khe Petroleum Products Storage	1,344	1,129
Tran Xa Petroleum Products Storage	1,250	1,050
Than Hoa Petroleum Products Storage	84	71
Tram Du Petroleum Products Storage	1,050	882
Luc Nong Petroleum Products Storage	720	605
Thai Nguyen Petroleum Products Storage	99	83
Tien Nong Petroleum Products Storage	420	353
Vinh Petroleum Products Storage PUG Ben Thuy	168	141
Chi Linh Petroleum Products Storage	1,728	1,452
Vinh Petroleum Products Storage PUG Yen Dai	72	60
Hoang Pha Petroleum Products Storage	240	202
Kien An POL Storage	288	242
Phu Thi Petroleum Products Storage	360	302
Phuc Yen Petroleum Products Storage	72	60

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25X1C

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25X1

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Phu Loc Petroleum Products Storage	1714N 10639E	B71, B72, X-B71
Xom Lang POL Storage	1737N 10626E	B91, B92, X-B91
Ba Don Petroleum Products Storage UG West	1745N 10625E	B111, B112, X-B111
Ba Don POL Storage Area	1745N 10626E	B75, B76, X-B75
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Dien Xa POL Storage	1822N 10544E	C13, C14
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Ben Thuy Thermal Powerplant (POL Storage Area)	1838N 10542E	D31, D32
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Vinh Petroleum Products Storage	1840N 10543E	A23, A24, X-A23
Vinh Petroleum Products Storage PUG Xuan Yen	1841N 10540E	B115, B116, X-B115
Vinh Petroleum Products Storage PUG Yen Dai	1842N 10540E	B145, B146, X-B145
Phuc Loi Petroleum Products Storage Navy	1843N 10544E	B77, B78, X-B77
Ky Tran POL Storage Area	1847N 10540E	C1, C2
Phu Van POL Storage Area	1851N 10519E	A21, A22, X-A21
Nho Lam POL Drum Transshipment Area	1856N 10535E	D13, D14
Thuan Le POL Storage Area	1812N 10604E	B69, B70, X-B69
Ky Anh POL Drum Storage	1840N 10618E	C3, C4
Yen Hau Petroleum Products Storage PUG	1908N 10534E	B21, B22, X-B21
Tho Trang Petroleum Products Storage	1909N 10537E	B79, B80, X-B79
POL Tanks Lang Can	1911N 10529E	D45, D46
Phu Qui Petroleum Products Storage	1913N 10521E	A25, A26, X-A25
Son Chau Petroleum Products Storage PUG	1918N 10543E	B31, B32, X-B31
Tri Binh Petroleum Products Storage	1946N 10532E	B117, B118, X-B117
Tri Binh POL Drum Storage Area	1947N 10532E	C11, C12
Thanh Hoa POL Storage Area	1947N 10547E	B73, B74, X-B73
Thanh Hoa Petroleum Products Storage	1949N 10546E	B131, B132, X-B131
Thanh Hoa POL Distribution Area	1950N 10546E	C7, C8
Bai Thuong Petroleum Products Storage UG Southeast	1951N 10525E	B11, B12, X-B11
Quang Suoi Petroleum Products Storage	2007N 10552E	B101, B102, X-B101
Thuong Thon Petroleum Products Storage UG	2047N 10540E	B15, B16, X-B15
Thuong Lam Petroleum Products Storage	2048N 10540E	B119, B120, X-B119
Bang So Petroleum Products Storage PUG	2053N 10553E	B29, B30, X-B29
Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)	2057N 10548E	B25, B26, X-B25
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25X1C

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25X1

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Luc Nong Petroleum Products Storage	2055N 10634E	B135, B136, X-B135
Thai Lai Petroleum Products Storage	2055N 10637E	B19, B20, X-B19
Tram Du Petroleum Products Storage	2058N 10617E	B133, B134, X-B133
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Phu Thi Petroleum Products Storage	2101N 10558E	B151, B152, X-B151
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SECRET

25X1

### INDEX (Continued)

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