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 S E C R E T CITE NPIC 4759
 MISSION GL G-044

07 OCT 68

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF
 AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-044, 1 OCTOBER 1968.

((TEXT AS FOLLOWS IDENTICAL TO ABOVE MISSION))

S E C R E T

END OF MESSAGE

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PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-044, 1 OCTOBER 1968.

THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE COMIREX TARGET NUMBER.

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS -- C @CLEAR, SC @SCATTERED CLOUD COVER, HC @HEAVY CLOUD COVER, H @HAZE, CS @CLOUD SHADOW, SD @SEMIDARKNESS, GC @GROUND COVER, CF @CAMOUFLAGE, O @OBLIQUITY, AND GR @GROUND RESOLUTION.

OUT66093

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G @GOOD, F @FAIR, OR P @POOR. THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T @TOTAL OR PT @PARTIAL. THE MODE OF COVERAGE IS SIGNIFIED BY ST @STEREO, NS @NONSTEREO, OR PS @PARTIAL STEREO.

NEGATIVE RESPONSES TO SPECIFIC REQUIREMENTS WILL BE ANSWERED FOR THE MOST PART BY NAC @NO APPARENT CHANGE AND/OR NOOB @NO ORDER OF BATTLE DISCERNIBLE AT THE END OF THE REFERENCE LINE.

SUMMARY

THREE EMPLACED LAUNCHERS @TWO WITH MISSILES AND ONE EMPLACED POSSIBLE LAUNCHER WERE NOTED AT COJIMAR PROBABLE SAM SITE UNDER CONSTRUCTION. HOLGUIN AIRFIELD SAM SITE NOW HAS FIVE EMPLACED LAUNCHERS, ONE VAN IN THE GUIDANCE AREA, AND FOUR VEHICLES. AIR, NAVAL, AND GROUND ACTIVITY APPEARS TO BE NORMAL THROUGHOUT THE AREA COVERED BY THIS MISSION.

MISSILES

GUANABACOA SAM SITE A14-2 CU 230536N @821557W

86-Y1

25X1

OB -- 3 LAUNCHERS @1 WITH MISSILES, 9 MISSILE TRANSPORTERS @6 WITH EXPOSED MISSILES, A GUIDANCE AREA OCCUPIED BY 2 VANS, AND AN ACQUISITION RADAR REVETMENT OCCUPIED BY 2 VANS.

25X1

GUARA SAM SITE A29-2 CU 224842N @821339W

488

25X1

OB -- 6 LAUNCHERS @AT LEAST 4 WITH MISSILES, AT LEAST 8 MISSILE TRANSPORTERS, AN OCCUPIED RADAR POSITION, AND AT LEAST 25 VEHICLES/PIECES OF EQUIPMENT.

25X1

HOLGUIN AIRFIELD SAM SITE A19-2 CU 204650N @761950W

34-C1

25X1

ONE OF THE LAUNCH REVETMENTS HAS BEEN MODIFIED AND IS NO LONGER DRIVE-THROUGH OR DRIVE-IN.

OB -- 5 LAUNCHERS, 1 VAN IN THE GUIDANCE AREA, AND 4 OTHER VEHICLES.

25X1

HOLGUIN SAM SITE WEST CU 205100N @762745W

34-Z8

25X1

OB -- 2 EMPLACED LAUNCHERS @1 WITH MISSILES, 2 MISSILE TRANSPORTERS, AND 4 OTHER VEHICLES.

25X1

MANAGUA SAM SITE A05-2 CU 225942N @821558W

111-E

25X1

OB -- 6 LAUNCHERS @3 WITH MISSILES, 1 MISSILE ON A TRANSPORTER, 9 CANVAS-COVERED MISSILE TRANSPORTERS, A FAN SONG B/C RADAR WITH 6 ASSOCIATED VANS, AN ACQUISITION RADAR POSITION WITH 1 VAN, 9 PROBABLE CARGO TRUCKS, AND 12 VEHICLES/PIECES OF EQUIPMENT.

25X1

RANCHUELO SAM SITE A33-2 CU 222350N @801002W

154-B

25X1

OB -- 6 LAUNCHERS @2 WITH PROBABLE MISSILES, AN OCCUPIED GUIDANCE AREA, 9 CANVAS-COVERED MISSILE TRANSPORTERS, 1 POSSIBLE MISSILE TRANSPORT

SANTA CLARA SAM SITE A34-2 CU 222945N 080013W
177-01

25X1

OB -- 6 LAUNCHERS @2 WITH MISSILES, 9 MISSILE TRANSPORTERS, 3 POSSIBLE MISSILE TRANSPORTERS, 1 FAN SONG RADAR WITH 4 VANS, 1 PROBABLE SPOON REST RADAR WITH 2 VANS, 2 AT-S TRACKED PRIME MOVERS, 11 ZIL-157V PRIME MOVERS, AND 1 OTHER VEHICLE/PIECE OF EQUIPMENT.

25X1

SANTIAGO DE CUBA SAM SITE A23-2 CU 195941N 0755057W
24-C

25X1

OB -- 6 LAUNCHERS @3 WITH MISSILES, 11 CANVAS-COVERED MISSILE TRANSPORTERS, A FAN SONG RADAR, 10 AT-S PRIME MOVERS, 3 ZIL-157V PRIME MOVERS, AND 12 VEHICLES/PIECES OF EQUIPMENT.

25X1

SANTIAGO DE CUBA SAM ASSEMBLY AREA CU 200414N 0755336W
76-P

25X1

OB -- 3 MISSILE TRANSPORTERS, 3 PROBABLE MISSILE CANISTER TRANSPORTERS, 5 CARGO TRUCKS, AND 3 VEHICLES/PIECES OF EQUIPMENT.

25X1

SANTIAGO DE CUBA SAM SITE 2 CU 195845N 0754922W
0647 24-H

THIS SITE IS IN LATE STAGES OF CONSTRUCTION. ONE SIX-GUN AAA SITE HAS BEEN CONSTRUCTED JUST NE OF THE SITE.

25X1

PALMA SORIANO SAM SITE A02-2 CU 201524N 0755913W
54-H

25X1

OB -- 6 LAUNCHERS @3 WITH MISSILES AND 1 WITH A PROBABLE MISSILE, 4 MISSILES ON TRANSPORTERS, 8 MISSILE TRANSPORTERS, 1 FAN SONG RADAR WITH 1 ASSOCIATED VAN, 1 POSSIBLE SPOON REST RADAR WITH 2 ASSOCIATED VANS, AND 8 VEHICLES/PIECES OF EQUIPMENT.

25X1

LA CATALINA SAM SITE A34-2 CU 225818N 0820011W
172-H

25X1

OB -- AT LEAST 5 LAUNCHERS @AT LEAST 1 WITH MISSILE, AT LEAST 8 PROBABLE TRANSPORTERS, AN OCCUPIED GUIDANCE AREA, AND AT LEAST 15 VEHICLES/PIECES OF EQUIPMENT.

25X1

SANTIAGO DE LAS VEGAS SAM ASSEMBLY AREA CU 225740N 0822130W
425-B

25X1

OB -- 8 POSSIBLE MISSILES AND 9 VEHICLES/PIECES OF EQUIPMENT.

25X1

CONSTANCIA SAM SITE A10-2 CU 221400N 0803030W
56-E

25X1

OB -- 4 LAUNCHERS @1 WITH A PROBABLE MISSILE, 9 MISSILE TRANSPORTERS, AN OCCUPIED GUIDANCE AREA, AN OCCUPIED ACQUISITION RADAR REVETMENT, 9 PROBABLE AT-S TRACKED PRIME MOVERS, AND AT LEAST 30 OTHER VEHICLES/PIECES OF EQUIPMENT.

25X1

LA VEGUITA SAM ASSEMBLY AREA CU 204945N 0761515W
34-27

25X1

OB -- 2 EXPOSED MISSILES, 5 PROBABLE MISSILE TRANSPORTERS, NUMEROUS MISSILE CANISTERS, AND AT LEAST 26 VEHICLES/PIECES OF EQUIPMENT.

25X1

SAN PEDRO DE CACOCUM SAM SITE A06-2 CU 204545N 0761540W
72-C1

25X1

OB -- 6 EMPLACED LAUNCHERS AND AN OCCUPIED GUIDANCE AREA.

25X1

LA MAYA SAM SITE A35-2 CU 201409N 0754046W
63-A

25X1

THE SITE IS OCCUPIED.

25X1

LA ESPERANZA SAM ASSEMBLY AREA CU 222723N 0800840W

25X1

[REDACTED] 25X1
COJIMAR PROBABLE SAM SITE U/C CU 230908N 0821718W
0586 86-F2
OB -- 3 EMPLACED LAUNCHERS 02 WITH MISSILES AND 1 POSSIBLE
EMPLACED LAUNCHER.

[REDACTED] 25X1
BAGUANOS SAM SITE CU 204907N 0760306W
34-H2 25X1
THE SIX REVETTED LAUNCH POSITIONS, THE REVETTED GUIDANCE AREA, SIX
REVVETTED MISSILE-HOLD POSITIONS, AND PROBABLE ACQUISITION RADAR
REVVETMENTS ARE UNDER CONSTRUCTION.

[REDACTED] 25X1
SAN JOSE DE LAS LAJAS SSM SITE 2 CRU CU 225548N 0821035W
172-E1 25X1
OB -- AT LEAST 25 VEHICLES/PIECES OF EQUIPMENT.

[REDACTED] 25X1
SAN JOSE DE LAS LAJAS SSM SITE 1 CRU CU 225440N 0821015W
25X1
OB -- 3 VEHICLES.

[REDACTED] 25X1
SAN JOSE DE LAS LAJAS CRUISE-MSL STORAGE CU 225510N 0821007W
172-E 25X1
OB -- AT LEAST 53 VEHICLES/PIECES OF EQUIPMENT.

[REDACTED] 25X1
SAN JOSE DE LAS LAJAS MISSILE SPT 1 CU 225617N 0820908W
172-E3 25X1
OB -- 4 SALISH TRANSPORTER/LAUNCHERS, 5 RESUPPLY VEHICLES, 2
POSSIBLE RESUPPLY VEHICLES, 7 CARGO TRUCKS, AND 22 VEHICLES/PIECES
OF EQUIPMENT.

[REDACTED] 25X1
SANTIAGO SAM TRAINING AREA CU 195849N 0755100W
24-D 25X1
FIVE RECTANGULAR BUILDINGS ARE UNDER CONSTRUCTION.
OB -- 5 CARGO TRUCKS.

[REDACTED] 25X1
HOLGUIN PROB SAM SITE CU 205025N 0762350W
0585 34-Z9
CONSTRUCTION CONTINUES ON SIX REVETMENTS.

AIR FACILITIES

CAMILO CIENFUEGOS AIRFIELD CU 222931N 0795631W
[REDACTED] 25X1

HOLGUIN AIRFIELD CU 204707N 0761854W
34-C 25X1
OB -- 7 FAGOT/FRESCO, 2 CRATE, AND 1 HOUND.

[REDACTED] 25X1
LOS CANOS AIRFIELD CU 200505N 0750931W
41-A 25X1
CONSTRUCTION ACTIVITY IS OBSERVED AT THE NORTH END OF THE RUNWAY.
OB -- 1 CRATE AND 1 COLT.

[REDACTED] 25X1
ANTONIO MACEO AIRFIELD CU 195009N 0755009W
9 25X1
OB -- 1 CRATE AND 1 HOUND.

[REDACTED] 25X1
JOSE MARTI INTERNATIONAL AIRFIELD CU 225922N 0822427W
86-I 25X1
OB -- 2 FISHBED, 2 CLEAT, 1 BRITANNIA, 3 COOT, 1 C-54, 1 POSSIBLE
C-54, 4 COKE, 8 CRATE, 2 C-47, 2 C-46, AND 1 COLT.

[REDACTED] 25X1
MANAGUA Approved For Release 2007/12/13 : CIA-RDP78B04549A000700010017-6

E/W SERVICEABLE BLACKTOP RUNWAY

145-FOOT CONCRETE OVERRUN AT THE WEST END AND A [REDACTED] EARTH OVERRUN AT THE EAST END.

25X1

FACILITIES INCLUDE FOUR MAINTENANCE BUILDINGS/HANGARS AT THE WEST END OF THE RUNWAY. THE AIRFIELD IS IMMEDIATELY ADJACENT TO THE MANAGUA MILITARY CAMP [REDACTED]

25X1

25X1

JAIME GONZALES AIRFIELD CU 228926N 882444W

51-C

25X1

CONSTRUCTION CONTINUES ON THE RUNWAY EXTENSION.
OB -- 1 COLT.

25X1

NAVAL ACTIVITY/PORTS

CIENFUEGOS PORT A NAVAL FACILITIES CU 228825N 882723W

51-A

25X1

OB -- 2 KRONSHADT PC AND 7 P-6 PT.
VESSELS -- 4 FREIGHTERS.

25X1

SANTIAGO DE CUBA NAVAL BASE AND PORT CU 208120N 0754910W

76

25X1

VESSELS -- 2 LARGE FREIGHTERS.

25X1

MANZANILLO PORT CU 202108N 0770707W

25X1

LA HABANA PORT FACILITIES CU 230750N 8822050W

86

25X1

OB -- 1 PF, 1 PCE, 2 KRONSHADT PC, 5 SO-1 SC, 9 KOMAR PTG, 2 P-4 PT, AND 1 SCESS COSMONAUT VLADIMIR KOMOROV.
OTHER VESSELS -- 22 LARGE FREIGHTERS, 6 COASTAL FREIGHTERS, AND 2 TANKERS.

25X1

LA HABANA NAVAL AMMO DPO CASA BLANCA CU 230834N 8822020W

86-D7

25X1

FACILITY CONSISTS OF TWO BARRACKS-TYPE BUILDINGS, ONE PROBABLE ADMINISTRATION BUILDING, EIGHT STORAGE BUILDINGS, ONE FIVE-BAY DRIVE-IN BUILDING, AND ONE TWO-BAY DRIVE-THROUGH BUILDING.
OB -- 2 KOMAR PTG AT ARSENAL PIER INCLUDED IN OB COUNT OF LA HABANA PORT FACILITIES, [REDACTED]

25X5

25X1

ELECTRONICS/COMMUNICATIONS

SANTA CLARA AW RADAR FACILITY CU 223016N 0795658W

177-E

25X1

OB -- 1 TOKEN-TYPE RADAR AND 2 VANS.

25X1

SANTIAGO DE CUBA AW RADAR FAC CU 195920N 0755100W

24-E

25X1

ONE OCCUPIED SIX-GUN AAA SITE WITH A PROBABLE FIRE CAN RADAR IS AT THE REFERENCED COORDINATES. A SECOND OCCUPIED SIX-GUN AAA SITE WITH A FIRE CAN RADAR IS AT 195942N 0754950W [REDACTED]
NEITHER SITE CONTAINS AW RADAR.

25X1

25X1

SANTIAGO DE CUBA AW RADAR FACILITY 2 CU 200530N 0755130W

0585 76-X3

OB -- 1 PROBABLE TOKEN-TYPE RADAR AND 1 VAN TRUCK.

25X1

PUNTA MATSI LOW SIEVE RADAR FACILITY CU 201417N 0740925W

44-B

25X1

OB -- 1 LOW SIEVE RADAR.

25X1

SANTIAGO LOW SIEVE RADAR FAC LA SOCAPA CU 195800N 0755209W

OB -- 1 LOW SIEVE RADAR.

25X1

25X1

RANCHO BOYEROS MIL TRAINING AREA A CAMP CU 230033N 821840W

86

OB -- 2 PROBABLE SA-2 LAUNCHERS IN TRAVEL MODE, 1 SA-2 MISSILE ON A DOLLY/TRANSPORTER, 4 MISSILE TRANSPORTERS, 2 POSSIBLE MISSILE TRANSPORTERS, 8 PROBABLE FLATBED TRAILERS, 21 FA PIECES, 6 POSSIBLE FA PIECES, 6 POSSIBLE AAA PIECES, 98 CARGO TRUCKS, AND 21 OTHER VEHICLES.

25X1

HOLGUIN MILITARY CAMP EAST CU 205321N 0761341W

25X1

OB -- AT LEAST 25 BTR-60P, 20 CARGO TRUCKS, 2 LOWBED TRAILERS, AND 27 OTHER VEHICLES.

25X1

HOLGUIN MILITARY CAMP NORTH CU 205713N 0761633W

25X1

34-S

OB -- 5 POSSIBLE AAA PIECES AND 8 VEHICLES.

25X1

HOLGUIN MILITARY CAMP PIEDRAS CU 205339N 0761349W

25X1

34-V2

THIS FACILITY CONSISTS OF THREE PROBABLE BARRACKS, A PROBABLE ADMINISTRATION BUILDING, A VEHICLE SHED, AND THREE OTHER SMALL BUILDINGS.

25X1

SANTIAGO DE LAS VEGAS MILITARY CAMP CU 225800N 0822020W

25X1

425-C

OB -- AT LEAST 65 CARGO TRUCKS 034 IN REVETMENTS AND NUMEROUS OTHER VEHICLES/PIECES OF EQUIPMENT.

25X1

SANTIAGO MILITARY CAMP CUABITAS CU 200342N 0754837W

25X1

76-V

OB -- 9 CARGO TRUCKS, 2 LOWBED TRAILERS, AND 4 VEHICLES/PIECES OF EQUIPMENT.

25X1

SANTIAGO MILITARY CAMP LA QUINTA CU 200242N 0755136W

25X1

76-N1

OB -- 12 FA PIECES, 6 PROBABLE AAA PIECES, 12 PROBABLE MORTARS, AND 10 CARGO TRUCKS.

25X1

MANAGUA TANK PARK LOMAS DE TETAS CU 225005N 0821910W

25X1

425-D

OB -- 23 TANKS/ASSAULT GUNS AND 3 CARGO TRUCKS.

25X1

MANAGUA MILITARY CAMP CU 225005N 0821710W

25X1

111

OB -- 8 PROBABLE SALISH RESUPPLY VEHICLES, 6 PROBABLE MISSILE CANISTER TRANSPORTERS, 35 TANKS/ASSAULT GUNS, 5 LOWBED TRAILERS WITH TRACTORS, 3 TRUCK-MOUNTED CRANES, AT LEAST 48 CARGO TRUCKS, AND NUMEROUS VEHICLES/PIECES OF EQUIPMENT.

25X1

MANICARAGUA STORAGE AREA CU 220624N 0795848W

25X1

25X1

MINAS MILITARY CAMP JESUS MARIA FINCA CU 230635N 0821151W

25X1

NAZARENO MILITARY CAMP CU 225750N 0821355W

25X1

431

OB -- 15 TANKS/ASSAULT GUNS, 18 BTR-60P APC, AND 15 OTHER VEHICLES.

25X1

OFFELIA MILITARY CAMP CU 200620N 0753040W

25X1

347

OB -- 8

25X1

PUERTO PADRE TANK TRAINING AREA CU 211115N 0763752W

61-C

25X1

OB -- 7 VEHICLES.

SAN JOSE DE LAS LAJAS VEHICLE PARK NW CU 225842N 0821227W

172-L

25X1

EXCAVATIONS ARE IN PROGRESS FOR SEVEN STORAGE BUNKERS IN ADDITION TO THE 14 PREVIOUSLY REPORTED. EIGHTEEN STORAGE BUILDINGS AND 15 OTHER BUILDINGS HAVE BEEN CONSTRUCTED THROUGHOUT THE LOMAS DE CAMOA.

25X1

SANTA CLARA ARTILLERY TRAINING AREA CU 222202N 0800011W

25X1

SANTA CLARA MILITARY CAMP SOUTH CU 222210N 0795759W

25X1

SANTA CLARA MILITARY CAMP SANTA EULOGIA CU 222303N 0795720W

177-X3

25X1

OB -- AT LEAST 3 PROBABLE CARGO TRUCKS.

25X1

SANTIAGO DE CUBA MILITARY BKS NW CU 200325N 0755400W

25X1

76-X1

OB -- 12 FA PIECES, 12 PROBABLE AAA PIECES, AND 9 CARGO TRUCKS.

25X1

SANTIAGO DE CUBA MILITARY CAMP NW CU 200310N 0755320W

25X1

76-P3

OB -- 14 FA PIECES, 25 CARGO TRUCKS, AND 3 UTILITY TRUCKS.

25X1

SANTIAGO DE CUBA MIL CAMP SAN JUAN HILL CU 200130N 0754743W

25X1

0585

76-X4

OB -- 11 CARGO TRUCKS, 9 UTILITY TRUCKS, AND 8 POSSIBLE LOWBED TRAILERS.

25X1

CHORRERA DE MANAGUA MILITARY CAMP W CU 230216N 0821951W

0586

316-D

OB -- 20 TANKS/ASSAULT GUNS, 1 POSSIBLE BTR-60P APC, AND 7 CARGO TRUCKS.

25X1

LAS MERCEDES VEHICLE PARK CU 222428N 0800108W

25X1

177-K1

OB -- AT LEAST 40 VEHICLES/PIECES OF EQUIPMENT.

25X1

OBOURKE MILITARY CAMP CU 220948N 0802722W

25X1

51-V

OB -- 14 FA PIECES AND 14 CARGO TRUCKS.

25X1

FONTANAR UNDERGROUND STORAGE AREA CU 230154N 0822442W

25X1

LA HABANA ARMY BARRACKS FORT DE LA CABANA CU 230851N 0822049W

25X1

HOLGUIN MILITARY INSTITUTE CU 245277N 0762077W

25X1

0585

34-Y

OB -- 8 FA PIECES, AT LEAST 20 FA PIECES/MORTARS, 92 CARGO TRUCKS, AND AT LEAST 20 VEHICLES/PIECES OF EQUIPMENT.

REMEDIOS MILITARY CAMP CU 222719N 0795455W

25X1

157

OB -- 19 BTR-60P, 42 CARGO TRUCKS, AND AT LEAST 100 VEHICLES/PIECES OF EQU

25X1

SAN JOSE DE LAS LAJAS STOR AREA CU 225435N 0820916W

172-E4

25X1

FIVE ADDITIONAL STORAGE BUNKERS HAVE BEEN CONSTRUCTED BUT ARE NOT YET EARTH COVERED.

SIBONEY LANDING BEACH CU 195731N 0754215W

25X1

25X1

PLAYA YATERITAS LANDING BEACH CU 1958//N 07457//W

25X1

CIENFUEGOS LANDING BEACH CU 2202//N 08036//W

25X1

MAR VERDE LANDING BEACH CU 1957//N 07556//W

25X1

ENSENADA COLORADO LANDING BEACH CU 2202//N 08025//W

25X1

IMIAS LANDING BEACH CU 2005//N 07440//W
0585 368

25X1

AL CALA MILITARY STORAGE AREA CU 2050//N 07606//W

0585 371

FACILITIES NOW INCLUDE NINE SUPPORT BUILDINGS AND NINE EARTH-COVERED DRIVE-THROUGH BUNKERS. ONE ADDITIONAL BUNKER IS UNDER CONSTRUCTION, WITH NUMEROUS PREFABRICATED CONCRETE ARCHES IN THE AREA.

25X1

OTHER ACTIVITY

SANTIAGO MIL CAMP SW EARTH-COVERED BUNKER CU 195955N 0755040W

25X1

NO CHANGE OR ACTIVITY IS OBSERVED.

25X1