

ILLEGIB

Approved For Release 2001/03/03 : CIA-RDP78T05439A000400160076-1

Approved For Release 2001/03/03 : CIA-RDP78T05439A000400160076-1

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

~~TOP SECRET RUMF~~

TCS No. 8961/64
IB No. 395/64
29 October 1964
Copy No. 1

DECLASSIFICATION REVIEW by NIMA/DOD 4/13/00

MEMORANDUM FOR: Chief, Resources Division, ORR

ATTENTION : [REDACTED] 25X1A

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Novo Gorkiy Petroleum Refinery, USSR

REFERENCE : (1) ORR Requirement No. C-RR4-81,223
(2) CIA/PID Project No. C 582/64

1. This memorandum is forwarded in answer to the above mentioned requirement which requested an analysis and a comparative study of the petroleum refinery located near Gorkiy, USSR.

2. Information concerning this refinery as requested is as follows:

a. Location - The refinery is located approximately 8 nm SSE of Gorkiy and 2.5 nm SW of Kstovo at geographic coordinates 56° 07'N - 44° 09'E. Pipelines probably move crude and finished products to and from the refinery.

b. Areal Extent - The refinery area is rectangular in shape, measuring approximately 2.3 nm by 1 nm and it is oriented west northwest by east southeast. The main production and refining area measures approximately 1 nm x 1 nm.

25X1D

25X1D

c. Construction Status - From the overall appearance of the refinery, and judging from the rate of change that has taken place between [REDACTED] it appears to have reached final stages of construction. Although the refinery appears to be active and operating, construction on additional units was active throughout the [REDACTED] period. There is still sufficient room for expansion and it appears as if additional units and related industries will be located in close proximity to the refinery.

d. Level of Activity - The refinery, and associated activity, appeared to be in operation on all photography used in this study. The power plant, cooling towers, flare tower, and several refining and processing units showed evidence of some level of operation.



~~TOP SECRET RUMF~~

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

TOP SECRET RUFF

SUBJECT: Novo Gorkiy Petroleum Refinery, USSR

25X1D
25X1D
e. Photography Used - All available photography covering this plant area was utilized in this study. From this material, four satellite missions were selected on the basis of having good quality photography. [REDACTED]

respectively (See Figures 3-8). The attached graphics have been arranged in a chronological order. Figure 4, contains all of the pertinent data including the overlay with annotations. Detail concerning the changes, additions and identification of changes that have occurred are given in chronological order in the following paragraphs.

25X1D
3. The refinery appeared to be in final stage of construction in (See Figure 8).

a. Overlay I - Analysis of the refinery and associated facilities are as follows, (See Figure 4, Overlay I, for corresponding annotation numbers):

- (1) Water treatment area and forced draft cooling towers
- (2) Warehousing (rail served)
- (3) Construction areas with aggregate storage - The construction activity in the northeast corner of the refinery possibly will be a gas recovery area which now contains approximately 13 blimp tanks.
- (4) Lubricating oil refining, packaging and shipping area consisting of approximately 153 horizontal tanks of varying sizes and 5 blimp tanks.
- (5) Probable fractionating units with associated facilities
- (6) Probable gasoline recovery area with polymerization and alkylation units.
- (7) Probable cracking units with associated facilities
- (8) Probable distillation units - six units and associated support equipment.
- (9) Probable acid recovery unit
- (10) Administration area
- (11) Heat and power plant - (rail served)
- (12) Rail tank car loading and unloading facilities - consisting of 22 vertical tanks
- (13) Tank farm - consisting of 15 semi-buried tanks and 4 vertical tanks
- (14) Unidentified mechanical industry
- (15) Workers housing area
- (16) Flare tower
- (17) Petroleum storage tanks
- (18) New unidentified construction area
- (19) Unidentified processing buildings

TOP SECRET RUFF

HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

HANDLE VIA
TALINT
CONTINUED

TOP SECRET RUFF

25X1D

SUBJECT: Novo Gorkiy Petroleum Refinery, USSR

25X1D

25X1D

4. Photo coverage over the refinery on KEYHOLE [REDACTED] was utilized for the major visible changes that have occurred during the [REDACTED] period (See Figure 4 and 8).

25X1D

(1) Small area south of the flare tower under construction in [REDACTED] (Overlay I, No. 18) now appears to have warehouse type structures and 12 small vertical tanks.

25X1D

- (2) An additional distillation unit has been completed just east of the six observed in the photography of [REDACTED].
- (3) A new unit in gasoline recovery area appears to be completed.
- (4) There has been additional structures added in the heat and power plant area.
- (5) Two small vertical tanks have been constructed in the railcar loading and unloading area and additional construction is evident.
- (6) There is still new construction taking place at the refinery with room for further expansion.

5. All measurements have been made by the CIA/PID/IB project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

25X1A

6. The photo analyst assigned to this requirement was [REDACTED] who may be contacted on extension 2705, should any question arise concerning this memorandum. This memorandum and attachments complete this requirement.

25X1A

25X1A

ENCLOSURES:

- 2 Annotated Maps (CIA/PID/IB-P-1260/64 and P-1261/64)
- 6 Annotated Photos (CIA/PID/IB-P-1262, 1264, 1265, 1266, 1267 and P-1384/64 w/overlay)

TOP SECRET RUFF

HANDLE VIA
TALINT
CONTROL

25X5

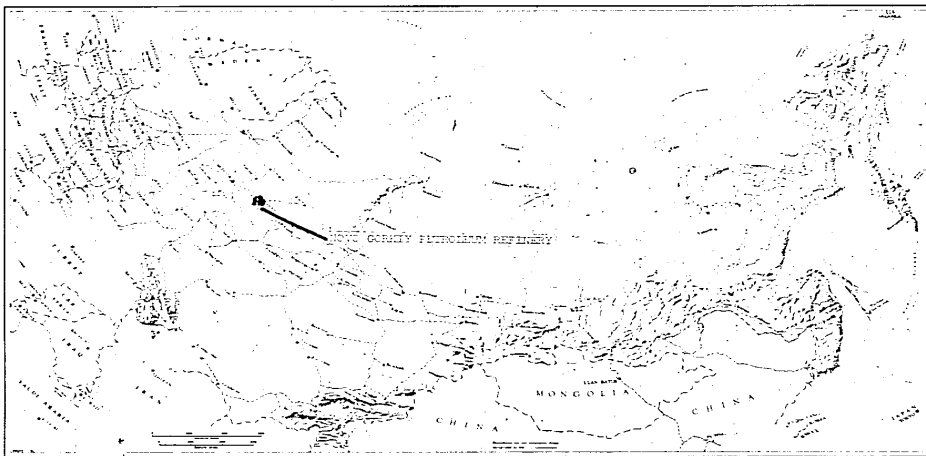
Approved For Release 2001/03/03 : CIA-RDP78T05439A000400160076-1

Approved For Release 2001/03/03 : CIA-RDP78T05439A000400160076-1

TOP SECRET RUFF

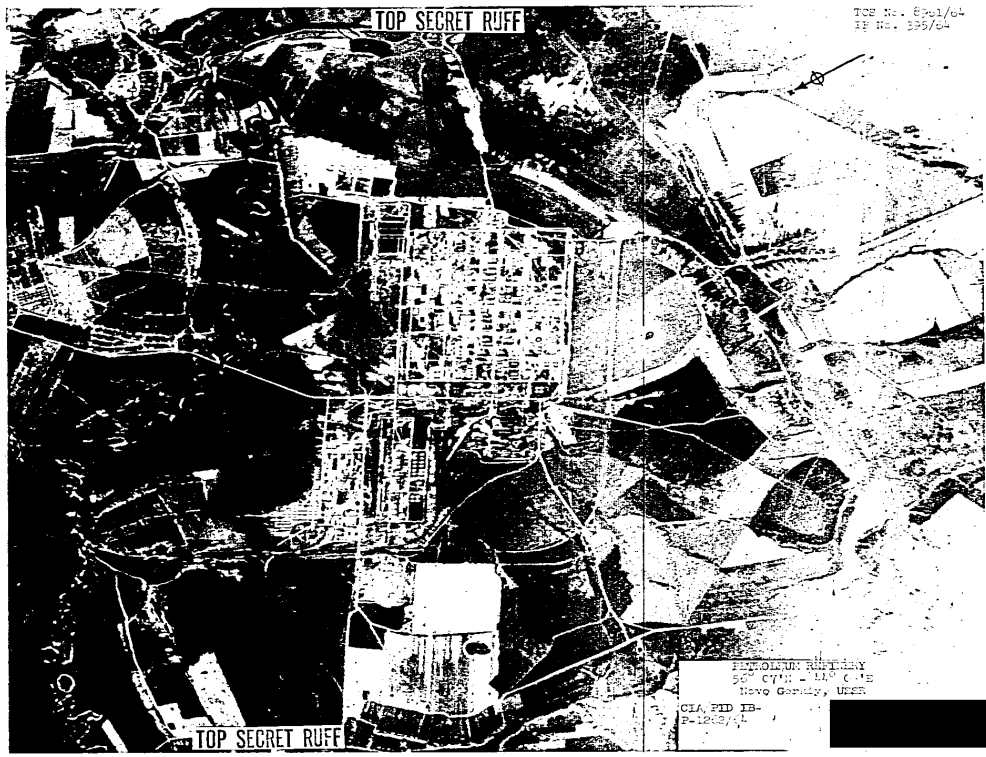
TCS No. 8951/64
IB No. 335/64

①



TOP SECRET RUFF

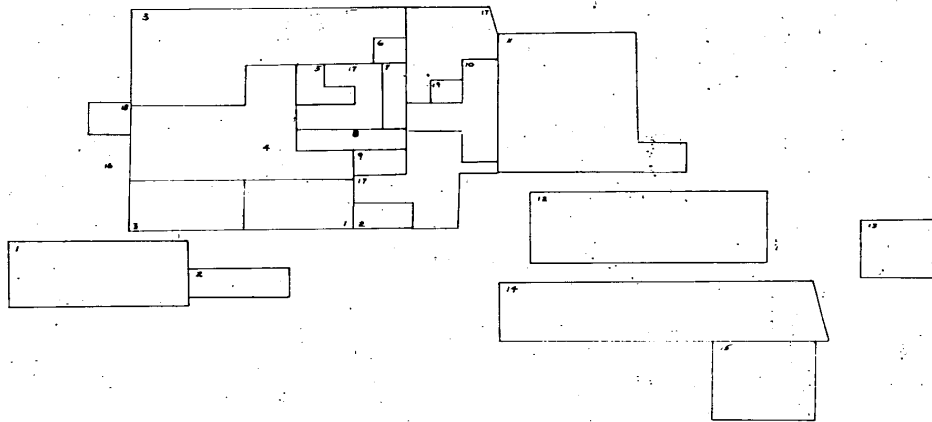
CIA, FID, IB-P-1266/64



25X1D

TOP SECRET RUFF

TCS No. 8961/64
IB No. 399/64



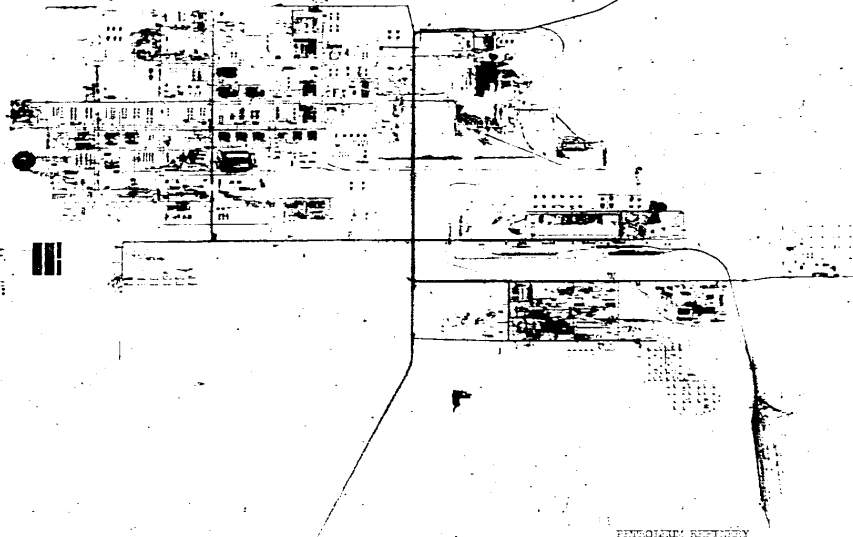
CIA FILE ID-P-1207 64

TOP SECRET RUFF
OVERLAY I

TOP SECRET RUFF

TOS No. SP01/0-
IB No. SP05/0-

④



PETROBRAS REFINERY
50° 0' N - 41° 0' W
New Germany, USSR

CLASSIFIED BY-
1-10-00

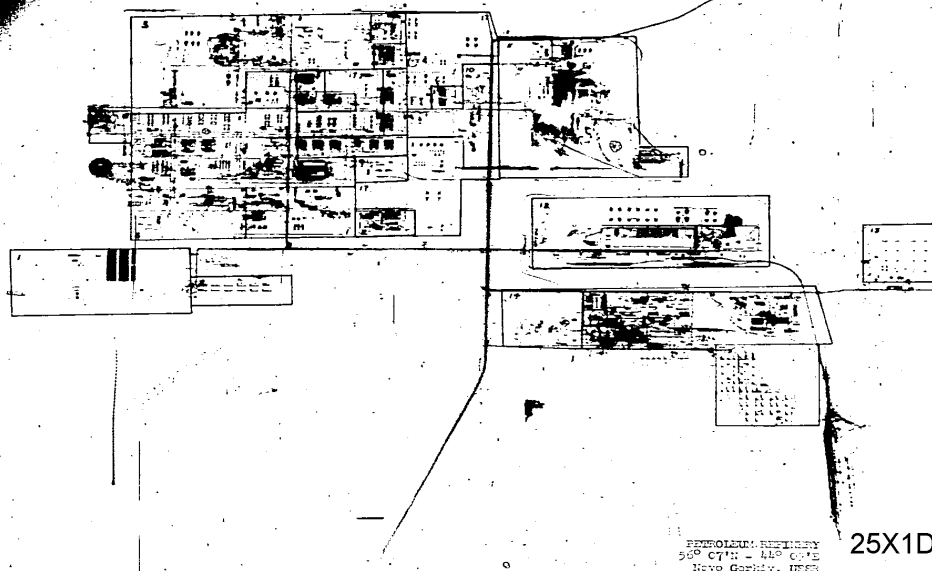
TOP SECRET RUFF

25X1D

TOP SECRET RUFF
TOP SECRET RUFF

TOP SECRET RUFF
TOP SECRET RUFF

4



TOP SECRET RUFF TOP SECRET RUFF

OVERLAY I

CIA ID/IB-
P-100/01

PERIODIC REVIEW
900 CTH - 100 COW
New York, USA

25X1D

TOP SECRET RUFF

5

TOS H. 801/00
IS No. 325/00



25X1D

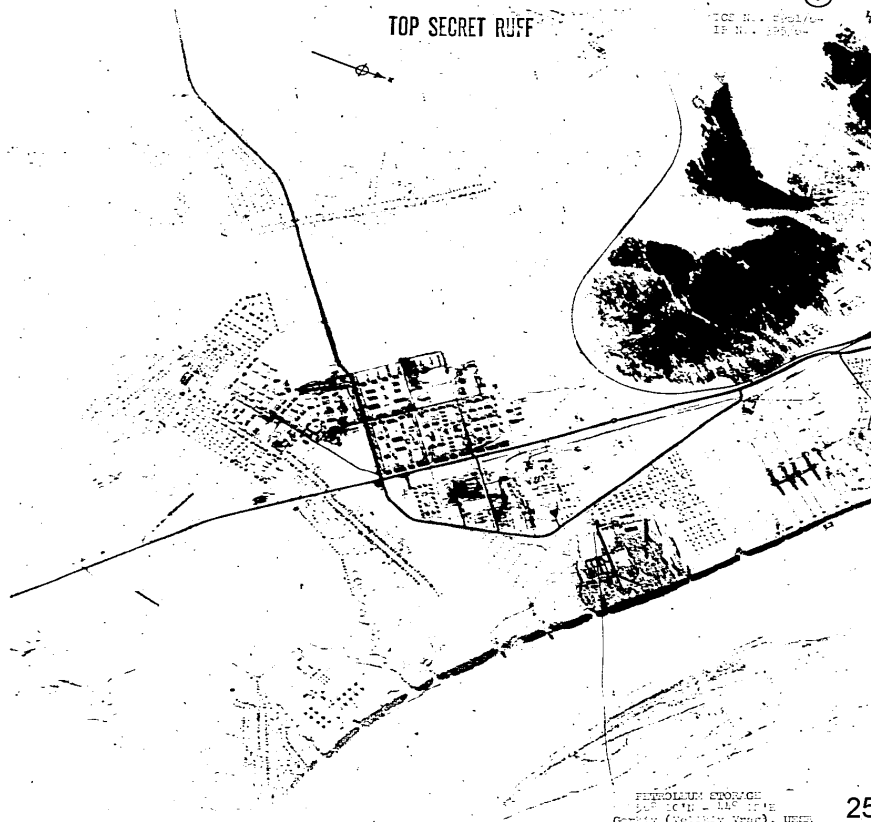
CLM 11D 1B-
1-111111

TOP SECRET RUFF

TOP SECRET RUFF

6

TOP SECRET RUFF
IP No. 10000



TOP SECRET RUFF

CLASSIFIED
EXCLUDED

REMOVAL STORAGE
SUN 1000 - 1100 1000
Gentry (Relay Year). UNIT

25X1D



TOP SECRET RUFF

735 Ruff Station
12 Ruff Station

7



TOP SECRET RUFF

CLASSIFIED BY
1-107-10 25X1D



TOP SECRET RUFF

8

TCE No. 5901/04
IS No. 195/04

PETROLEUM REFINERY
50° 07' N - 44° 02' E
N. V. G. R. K. I. Y., USSR

CIA/PID/IE
P-135-00-

25X1D

TOP SECRET RUFF