

DIRECTORATE OF

Industrial Facilities (Non-Military)

Basic Imagery Interpretation Report

Nan Chung Petroleum Refinery

Nan Chung, China

25X1

Top Secret

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DATE JUNE 1969
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ABSTRACT

This report provides a detailed imagery-derived analysis of the Nan Chung Petroleum Refinery, China, from January 1963 to June 1969.

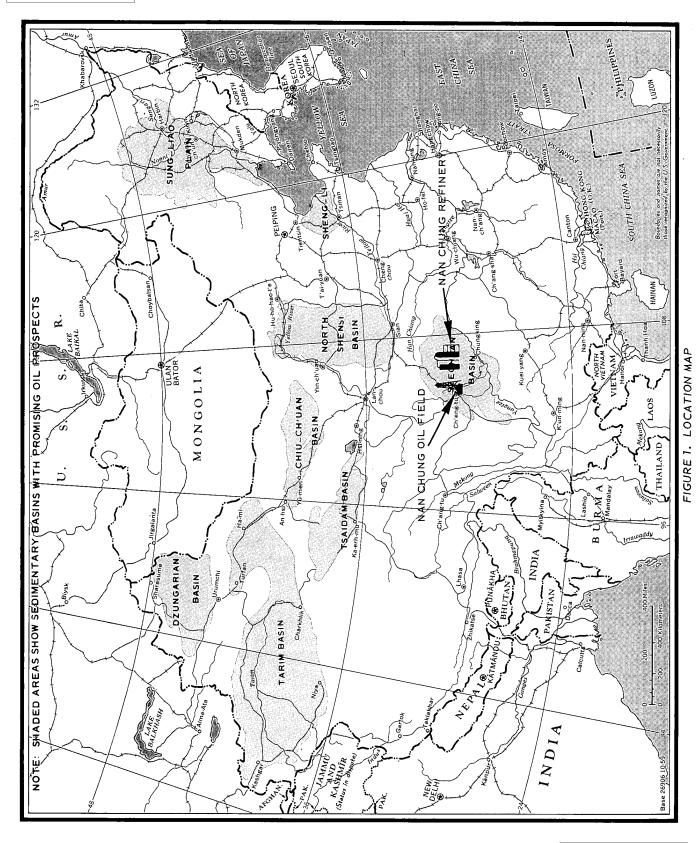
The refinery appeared to be operating when first seen in June 1963 and on all subsequent photography. Products include gasoline, kerosene, diesel and fuel oils, and residuum.

The report includes a detailed line drawing, a photograph of the refinery, mensuration of the storage facilities, a discussion of physical features and operational functions, a construction chronology, and reference data.

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TOP SECRET RUFF INTRODUCTION The Nan Chung Petroleum Refinery is located in the Szechwan Basin, echwan Province, 2 nautical miles (nm) north-northeast of Nan Chung diapproximately 105 nm east of Cheng-tu. The refinery is in an agrilitural area on the flood plain of the Chia-ling River. Crude oil for charging the refinery is probably brought in from the echwan Basin oil fields by truck. Products and crude oil in excess of at used locally are probably transported by barge from the Nan Chung ea. A small transshipment facility is located on the river I nm southers the refinery. No pipeline or rail line has been constructed to the nanothing area. The nearest points of access to rail facilities are at lang-ching 80 nm to the south, and at Cheng-tu about 105 nm to the west. The Nan Chung Thermal Power Plant Refinery BASIC DESCRIPTION Visical Features The refinery area measures approximately 1,800 by 1,500 feet, is
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ysical Features
The refinery area measures approximately 1,800 by 1,500 feet, is
regularly shaped, and occupies approximately 65 acres. It is secured by wall.
eration Functions
The major products are refined petroleum products, primarily gasoline, rosene, diesel and fuel oils, and residuum. The residuum is probably ed for fuel in the pipe furnaces, as reserve fuel at the thermal power ant, and for road surface treatment.

January 1963 -- The basic refinery components including the crude distillation unit, the secondary processing units, the thermal power plant, and several products storage tanks were present. The refinery appeared to be in production and the power plant spray pond was in operation.

June 1963 -- One covered crude oil storage reservoir and an open water pond had been added. The spray pond at the thermal power plant appeared to be in use.

May 1966 -- The following significant expansion was apparent: the addition of two open water ponds in the crude oil storage area; 30 cylindrical tanks, one piece of U/I processing equipment, and one pumphouse in

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two horize the maint storage a spray pon Augu tenance a open stora area. The	ontal tanks in the packag enance and support area; rea. The plant appeared d was in operation. st 1968 Two additional nd support area, and a la age next to the larger st e refinery appeared to be ary 1969 A heavy haze	S buildings, eight cylindrical tanks and ging and shipping area; 12 buildings in and four cylindrical tanks in the products to be in production and the power plant warehouses had been built in the mainarge area of unidentified material was in torage building in the products storage active. prohibited a detailed analysis, but the	
tenance a open storarea. The Janus spray pone	nd support area, and a la age next to the larger st e refinery appeared to be ary 1969 A heavy haze	arge area of unidentified material was in corage building in the products storage active.	
spray pon		prohibited a detailed analysis, but the	
	· -	that the refinery was probably in opera-	
June in the cr	1969 Two cylindrical ude oil storage area. Th	crude oil storage tanks had been built ne refinery appeared to be in operation.	
Faci <u>litie</u>	s and Equipment		
	following table lists the ery. All items are keyed	e functional areas and equipment within I to Figure 3.	
E(QUIPMENT AND FACILITIES A	IT THE NAN CHUNG PETROLEUM REFINERY	
Area	Description	<u>Equipment</u>	
A	Crude Oil Storage	<pre>3 irregularly shaped water ponds 2 rectangular water treatment ponds 3 pumphouses 7 covered crude oil reservoirs each measure 4 cylindrical tanks</pre>	25X1 25X

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<u>Area</u>	Description	<u>Equipment</u>	
В	Crude Oil Distillation	l atmospheric fractionating column l redistillation column l compressor building l pipe furnace l control building 2 banks heat exchanges/cooling coils 2 horizontal tanks 4 cylindrical tanks 4 - 10 feet diameter l U/l building with at least 4 column/tank foundations l possible stack foundation 2 miscellaneous buildings	25X1
C	Intermediates Storage	39 cylindrical tanks	25 X 1
		I piece U/I process equipment I pumphouse 3 miscellaneous buildings	
D .	Packaging and Shipping	2 packaging buildings II storage buildings I possible office building 2 possible pumphouses 8 cylindrical tanks 8 - I5 feet diameter 2 horizontal tanks 2 -	25X1
E	Maintenance and Support	2 maintenance buildings 9 warehouses 1 possible forge foundry 8 small miscellaneous buildings 2 stockpiles of maintenance/	20/(1
		engineering material -5- CRET RUFF	25X1



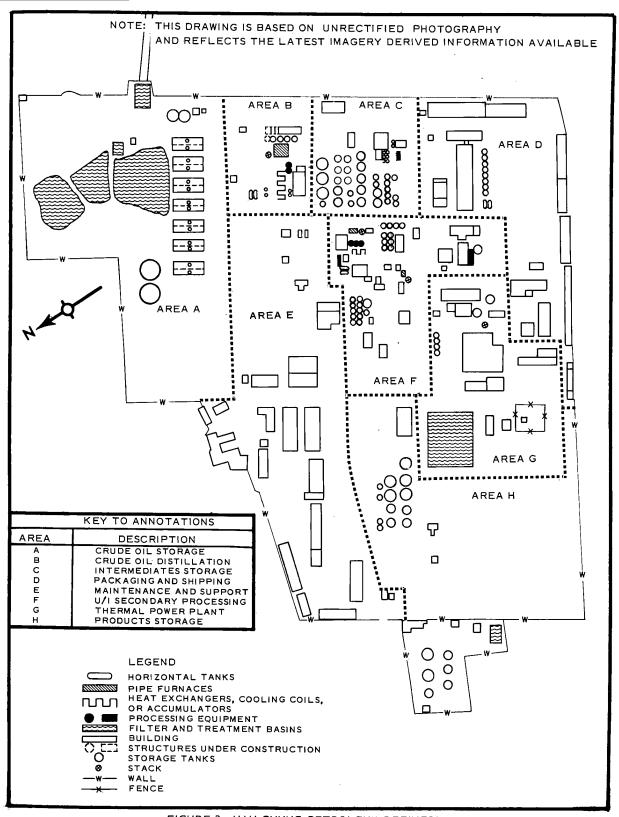


FIGURE 3. NAN-CHUNG PETROLEUM REFINERY

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FIGURE 2. NAN-CHUNG PETROLEUM REFINERY

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<u>Area</u>	Description	Equip	ment	
F	U/I Secondary Processing	probable equipme 2 banks U/I proces	ling with 6 rows of ent on the roof sing equipment aging cooling coils,	•
		·		2
		2 horizontal stora 2 - 20 feet long	age tanks g by 8 feet diameter	
G	Thermal Power Plant	I boilerhouse I generator hall I control building substation 2 coal preparation I water tower 25 f I large spray pond 5 cylindrical tank	n buildings Feet diameter	
				2
Н	Products Storage	2 storage building 5 possible pumphou 19 cylindrical tank	ıses	2
		l water pond		
NOTE:	Diameter measurements of the	storage tanks are appr	roximate.	
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	REFERENCES		
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