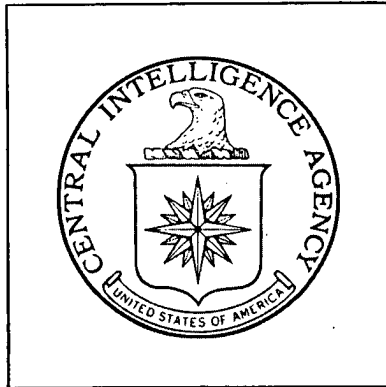


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**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Yen-chih Oil Refinery

Yen-chih, China

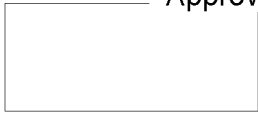


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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

INSTALLATION OR ACTIVITY NAME		COUNTRY
Yen-chih Oil Refinery		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
NA	37-48-10N 106-48-00E	
MAP REFERENCE		
U.S. Army Topographic Command, Series 1501, Sheet NJ 48-12, 1st ed, May 70, Scale 1:250,000 (UNCLASSIFIED)		
LATEST IMAGERY USED		NEGATION DATE (If required)
[Redacted]		[Redacted]

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ABSTRACT

Yen-chih Oil Refinery processes crude oil produced at two nearby oil fields. The only processing unit present at the refinery is a crude oil distillation unit. The refinery is capable of producing straight-run gasoline, kerosene, diesel and fuel oils, and gaseous hydrocarbons.

This report includes an annotated photograph of the refinery, dimensions of the storage tanks, and a discussion of the status of the facilities.

Comments and queries regarding this publication are welcomed. They may be directed to [Redacted] of the Imagery Analysis Service, Code [Redacted]

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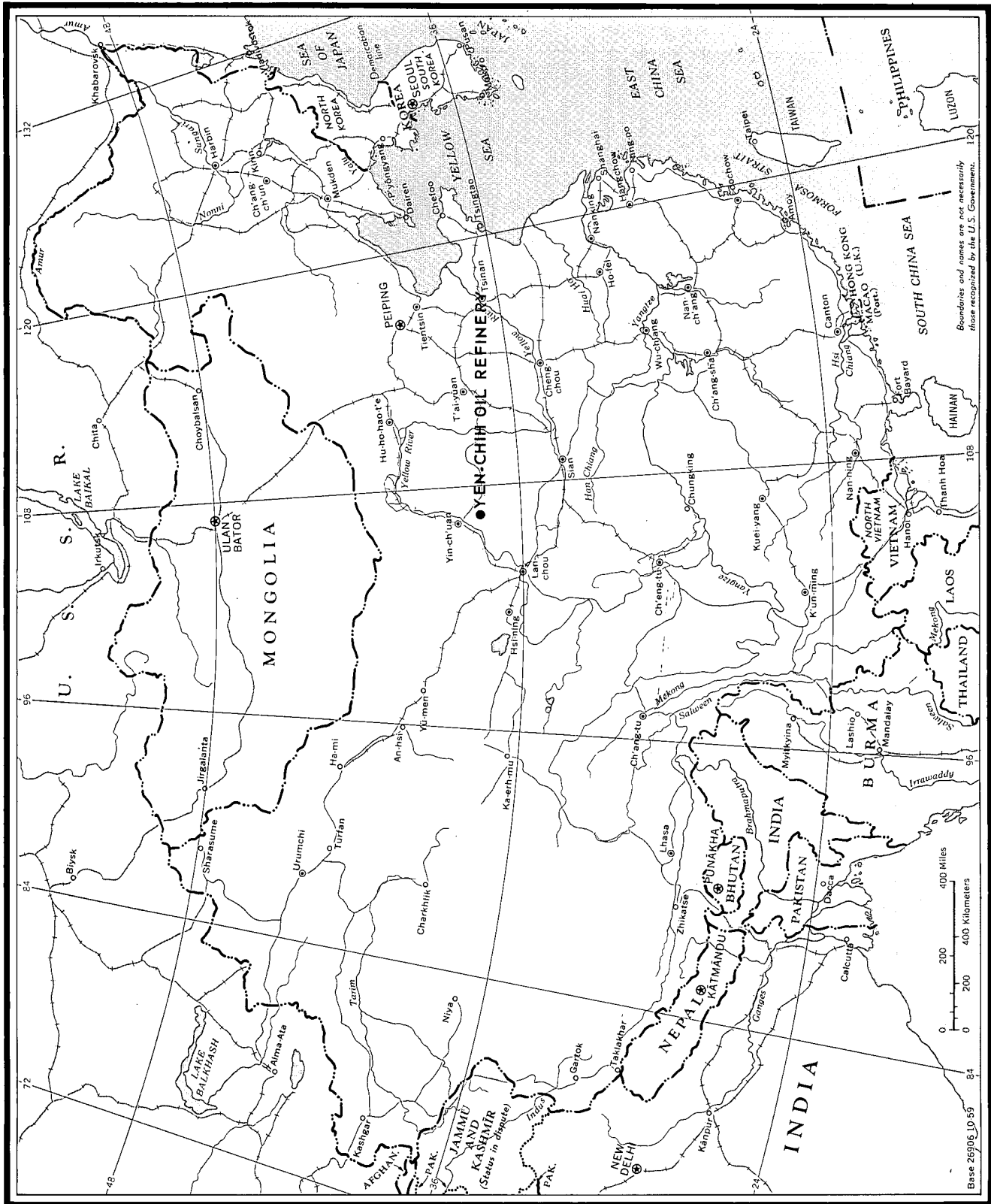


FIGURE 1. LOCATION MAP.

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INTRODUCTION

Yen-chih Oil Refinery is located 30 nautical miles (nm) west of Yen-chih, in Ningsia Hui Autonomous Region (see Figure 1).

Crude oil is supplied to the refinery by pipeline from two small oil fields in the area. One field is adjacent to the refinery and the other is 3-4 nm north of the refinery. Exploration and a small field gathering system for oil were observed 20 nm south-southwest of the refinery.

A pipeline connects the refinery to a possible products transfer area 20 nm to the north.

Steam for the refinery is provided by a collocated steam plant.

BASIC DESCRIPTION

The refinery and main storage area measures 975 by 550 feet and occupies about 12 acres. The area is secured by a wall (see Figure 2).

Operational Functions

The only processing unit at the refinery is a crude oil distillation unit. The unit has not been seen operating but its general appearance suggests that it has been in operation. The steam plant associated with the unit has been seen operating several times. The refinery is capable of producing straight-run gasoline, kerosene, diesel and fuel oils, and gaseous hydrocarbons. Some of the products from the refinery are probably intended for local use while others will probably be sent for further processing to a refinery which has secondary processing units. The steam plant uses some hydrocarbons as fuel.

Construction and Operational Status

The steam plant adjacent to the refinery was built between January and December 1967. The distillation unit and storage tanks were first seen under construction in December 1970. At that time the distillation unit was in a mid-to-late stage of construction indicating that it was probably begun in early 1970. On the next available photography of February 1972 the unit appeared complete but there was no evidence of operation. In July and October 1972, no emissions were seen around the unit but its darkened appearance suggests that it was, or had been, operating.

The oil fields near the refinery have been present since at least 1966. The fields have been slowly expanded during the period of this study.

Facilities and Equipment

The crude oil distillation unit has only an atmospheric distillation section. Associated with the unit are 21 cylindrical storage tanks--nine 35-foot-diameter, seven 30-foot-diameter, three 20-foot-diameter, and two 10-foot-diameter.

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REFERENCES

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Map

U.S. Army Topographic Command, Series 1501, Sheet NJ 48-12, 1st edition,
May 1970, Scale 1:250,000 (UNCLASSIFIED)

Requirement

COMIREX N06
Support Number 423867

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