MEMORANDUM FOR: Chief, Machinery and Communications Branch

ATTENTION

SUBJECT

: Labor Force and Ore Hauling Capacity at the Muruntau

In accordance with your request we have prepared an estimate of the labor force and ore hauling capacity at the Muruntau Gold Mine, both present and ultimate. Copies of our estimates are attached.

2. Worksheets are in the files of

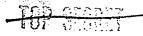
providing the basis for the estimates

Attachment: As stated above.

Distribution: (S-4455)

CIA HISTORICAL REVIEW PROGRAM RELEASE AS SANITIZED 1999

TCS-4067/72



Labor Force and Ore Hauling Capacity at the Muruntau Gold Mine, USSR

- 4. Labor force estimates are made as follows:
 - a. Family housing -- the number of apartments was estimated both by building size and configuration of windows, balconies, doors and roof vents. A minimum of one worker per apartment is assumed.
 - b. Forced labor -- barracks floorspace was divided by 65 feet per man; the Soviet standard for forced labor.
 - c. Military construction barracks -- barracks floorspace was divided by 100 square feet per man; the estimated floorspace allocation for Soviet troops in barracks.

Estimates of the labor force follow:

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<u>Area</u>	1968	1968	1972
Family housing at Muruntau Mine	450	450	450
Forced Labor Camp	800	800	800
Military Labor Camp	975	975	• 975
Housing Area at Zarafshan	u.c.	1,275	4,225
Total Labor Force	2,225	3,500	6,450

Note: It is assumed that all housing units are occupied upon completion.

In 1971 the number of trucks in service appeared to be

With 80 trucks in operation, each hauling 27 M.T./load, at two round trips per hour, the fleet would move 69,000 M.T. of rock in a life hour day. Assuming a ratio of overburden to ore of from 3:1 to 2:1, the amount of ore transported would range from 17,000 to 23,000 tons/day with the present fleet.

^{8.} Assuming full utilization of the motor pool area (250 trucks with 25 to 30% deadlined) and all other assumptions unchanged, the amount of ore transported in a 16 hour day would be in the range of 38,000 to 54,000 M.T./day.