

5724

12 July 1972

MEMORANDUM FOR: Chief, Machinery and Communications Branch
ATTENTION :
SUBJECT : Labor Force and Ore Hauling Capacity at the Muruntau
Gold Mine, USSR

1. 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 providing the basis for the estimates are in the files of

Attachment:
As stated above.

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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.
5. Estimates of the labor force follow:

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<u>Area</u>	<u>1968</u>	<u>1968</u>	<u>1972</u>
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>u.c.</u>	<u>1,275</u>	<u>4,225</u>
Total Labor Force	2,225	3,500	6,450

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

In
ABOUT 85.

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 16 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.