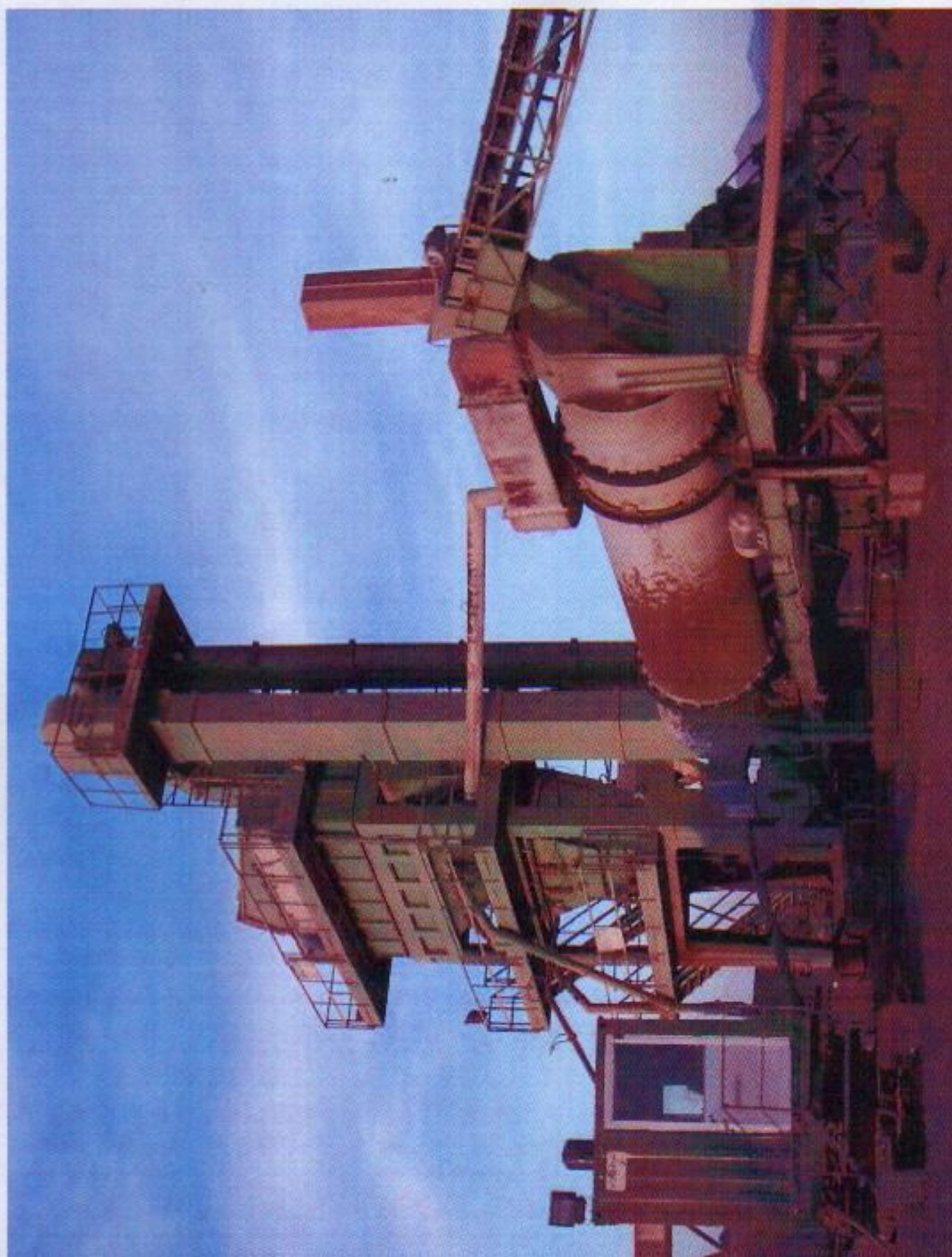






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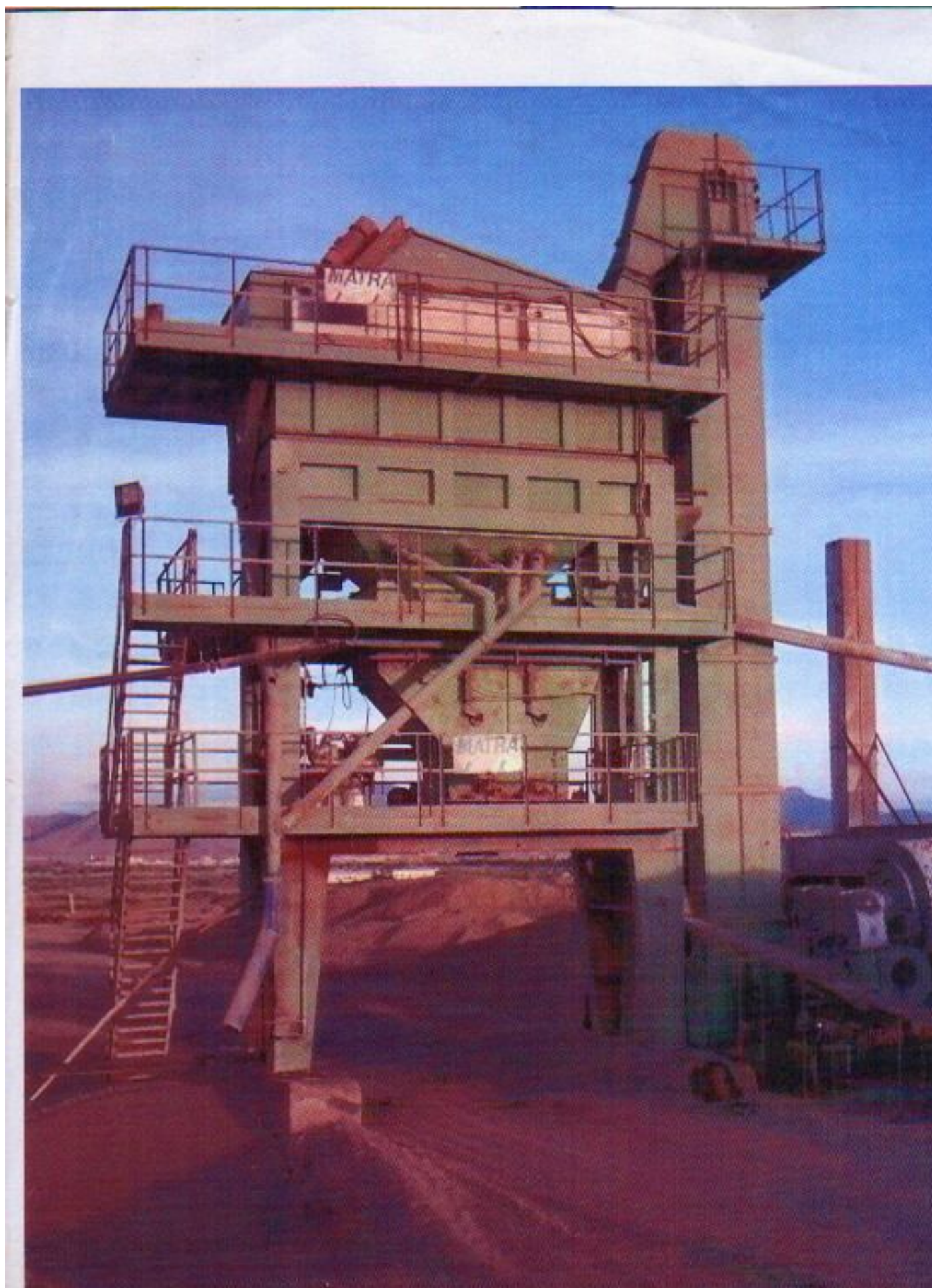


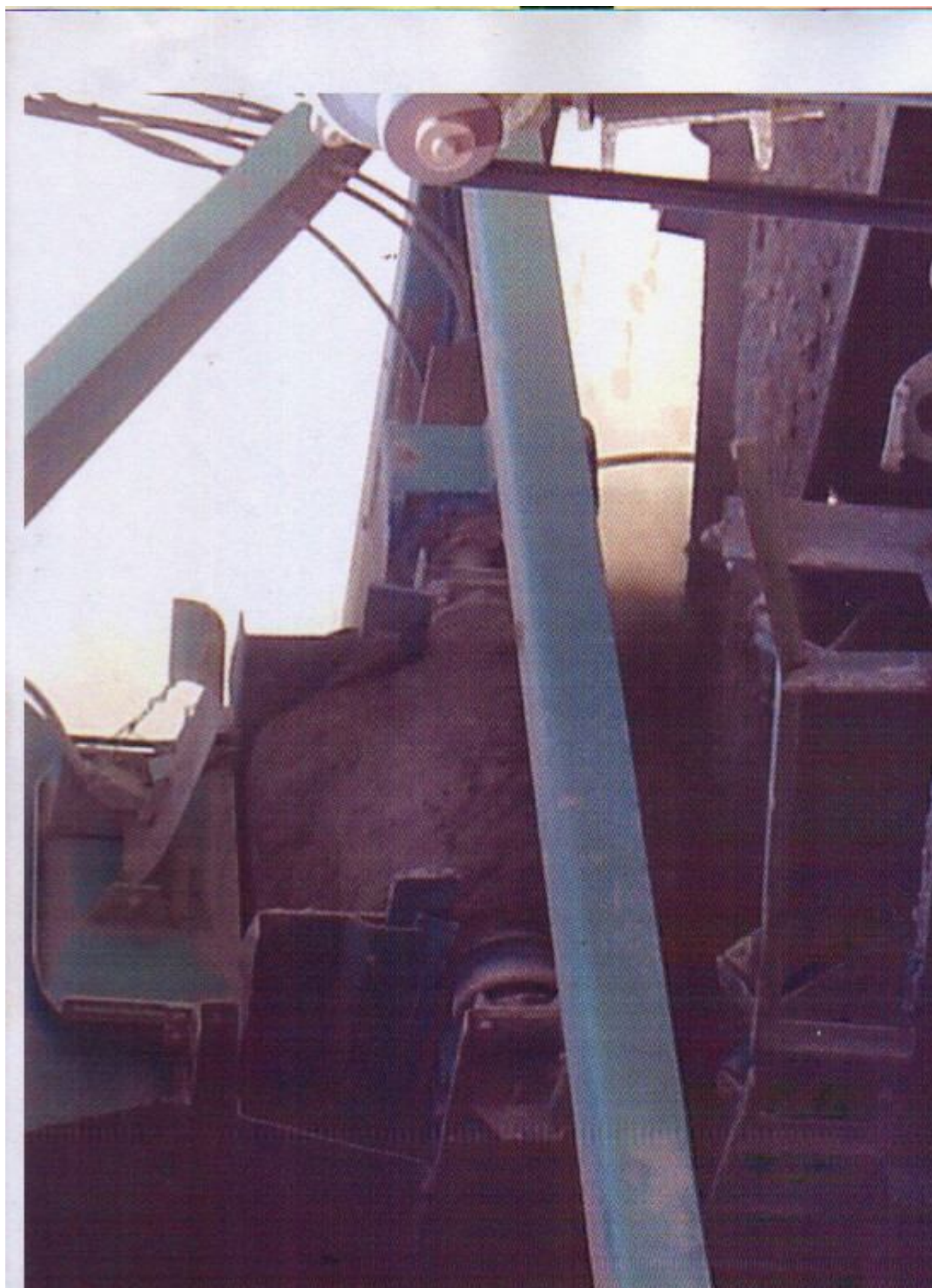


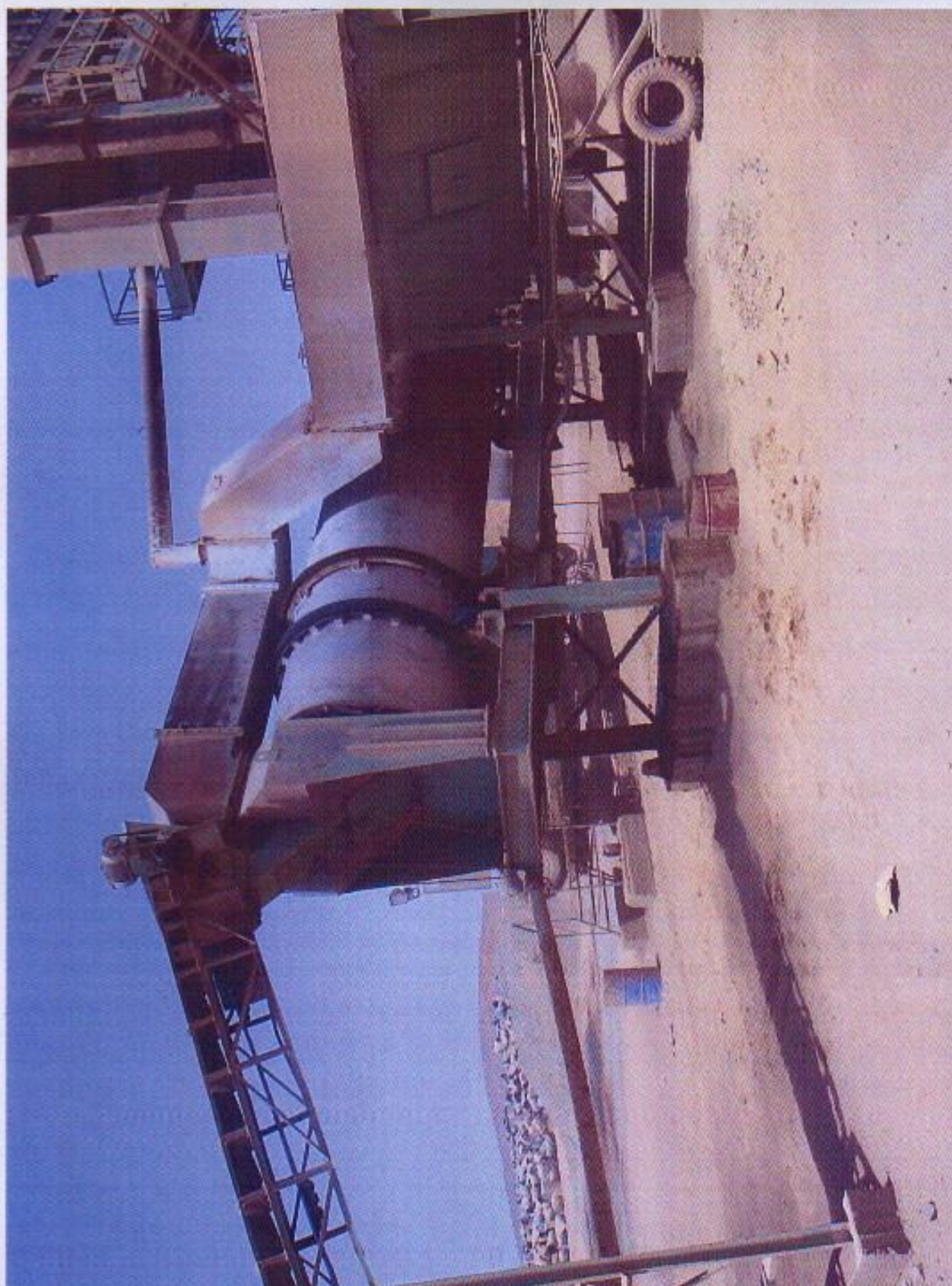
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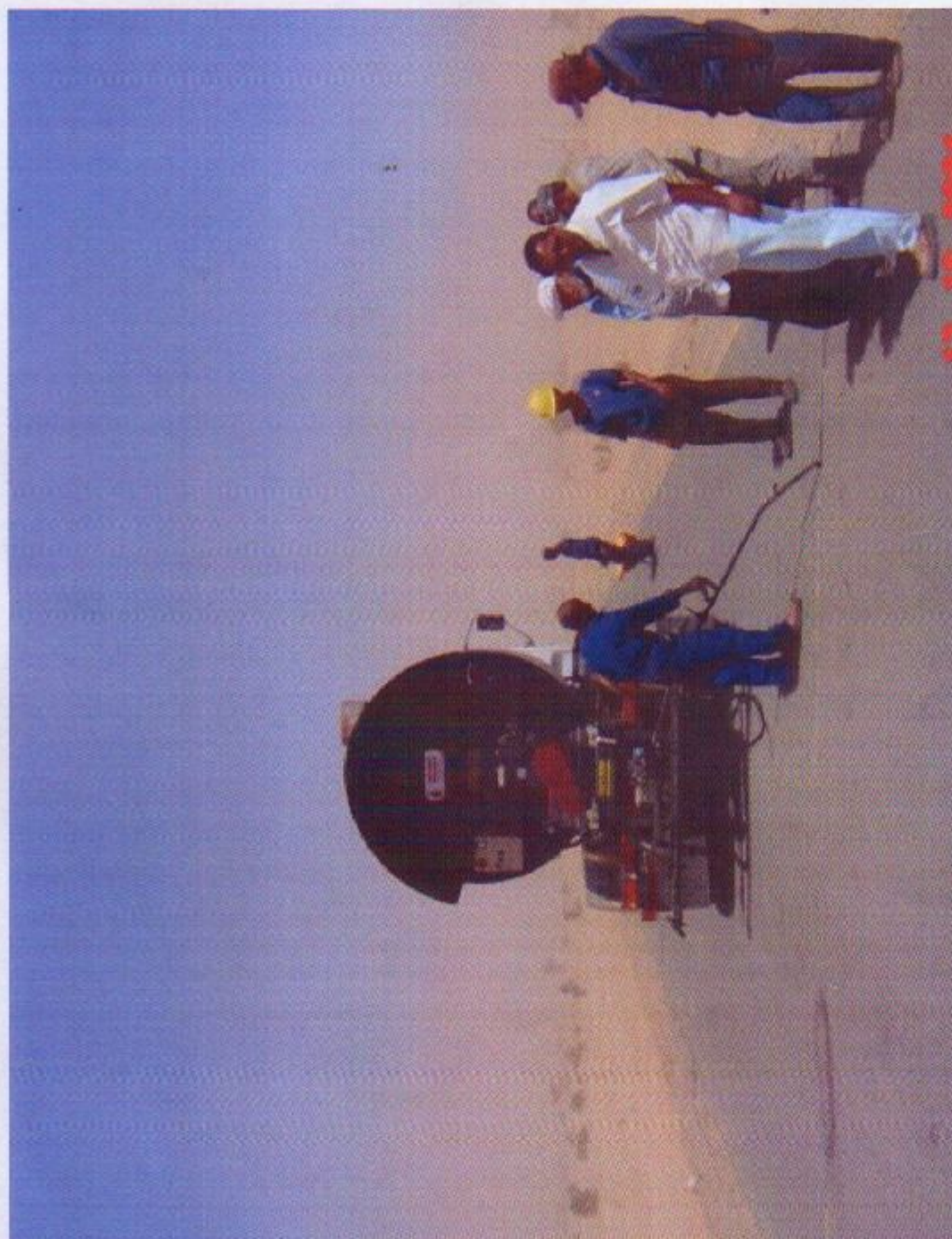






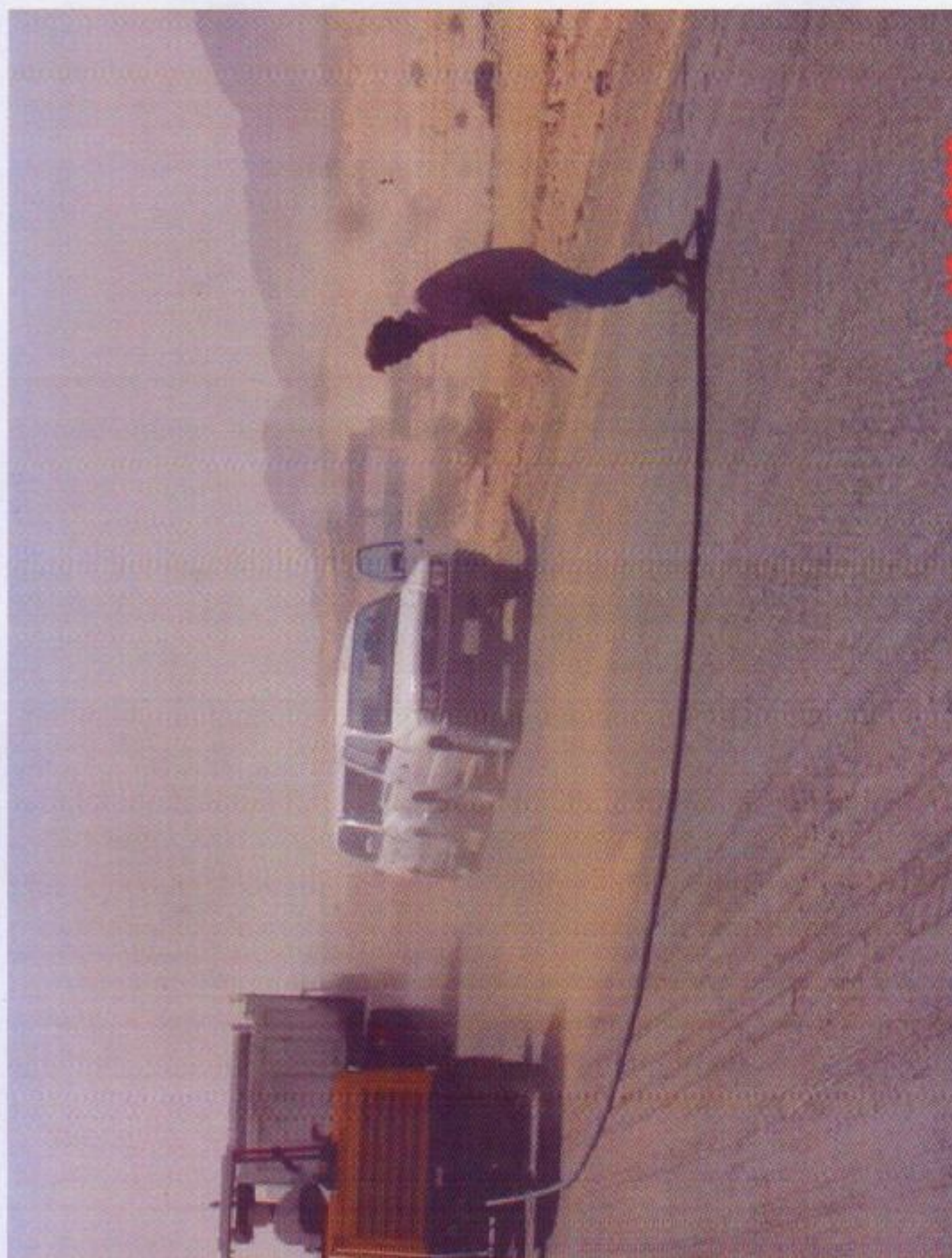


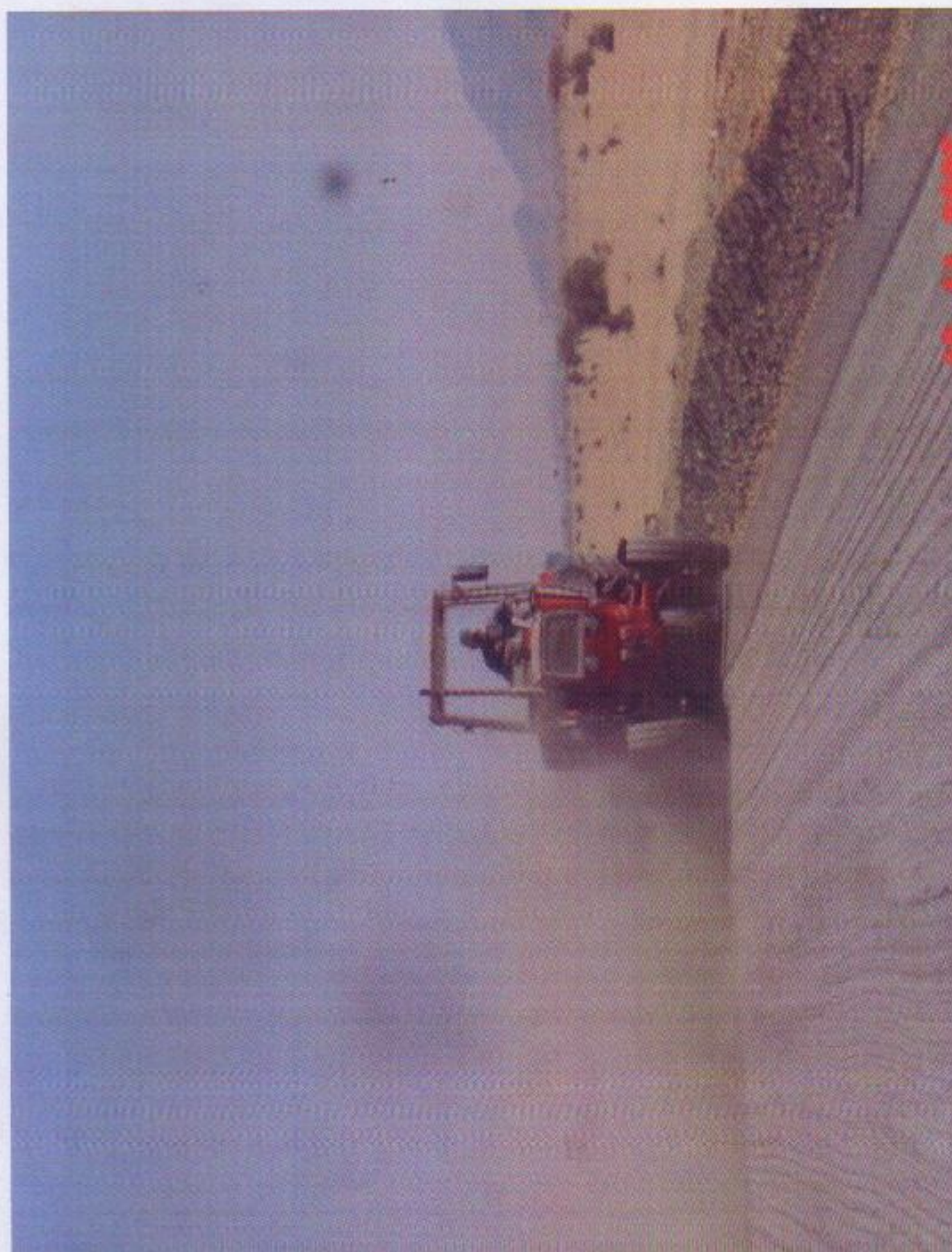




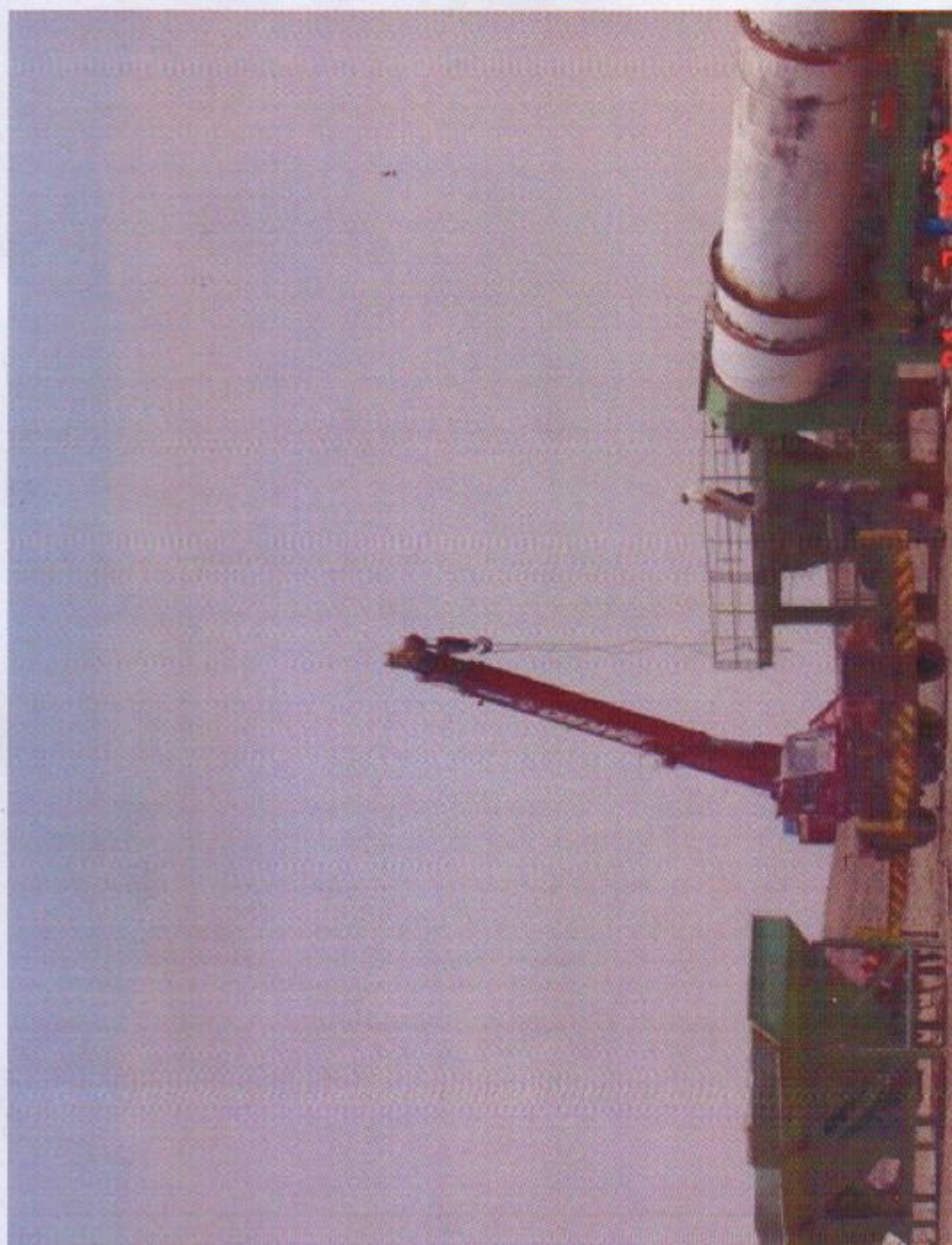


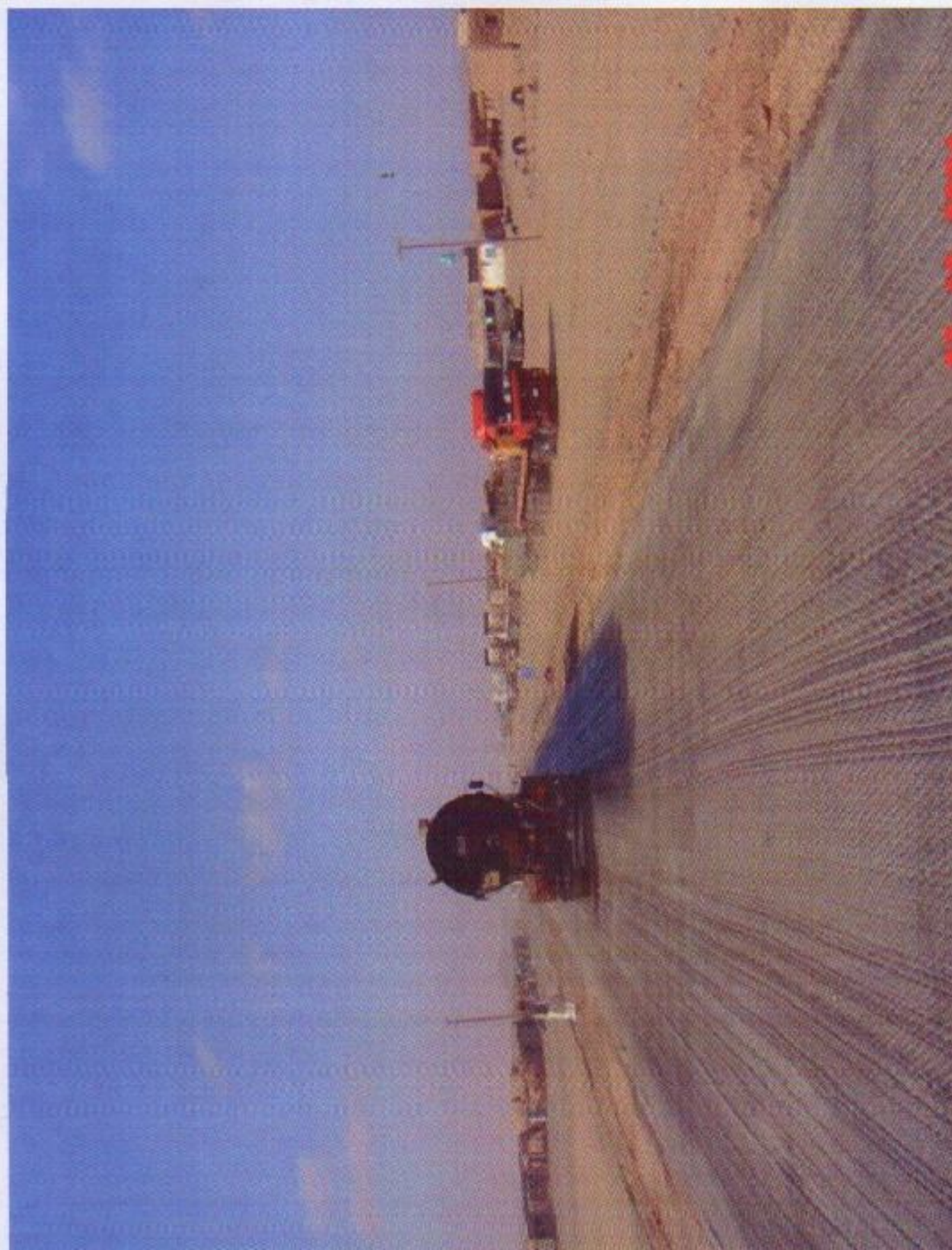








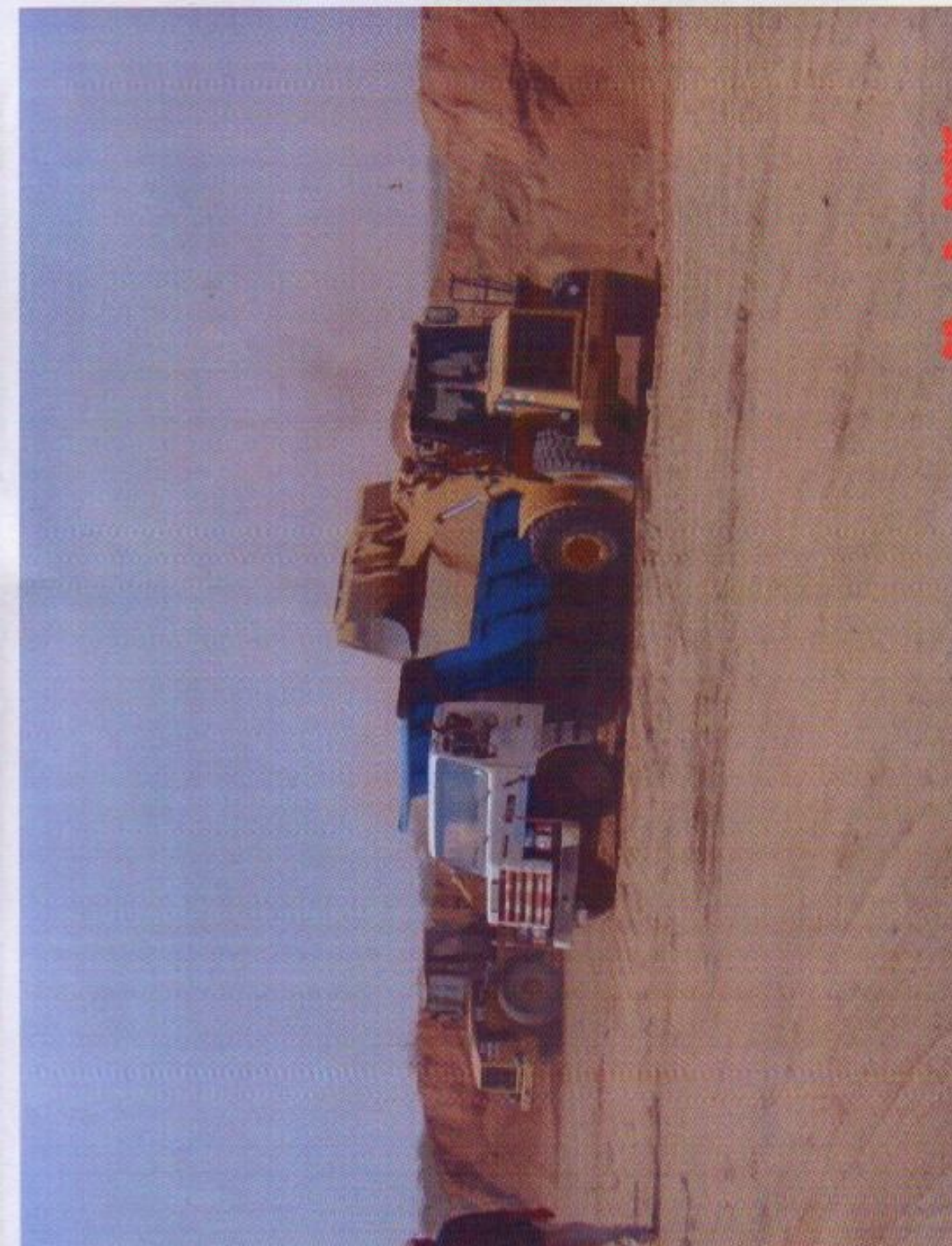


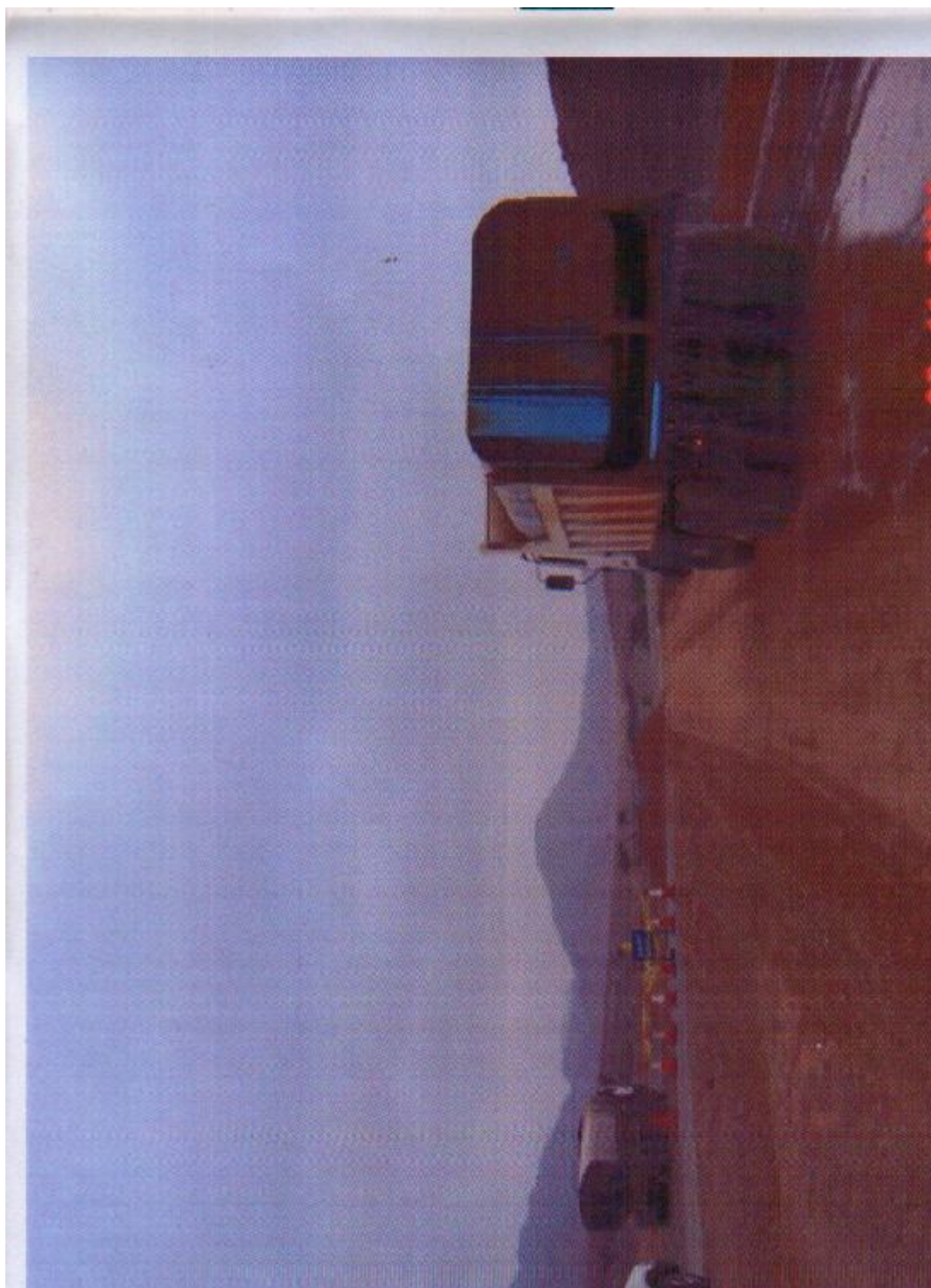




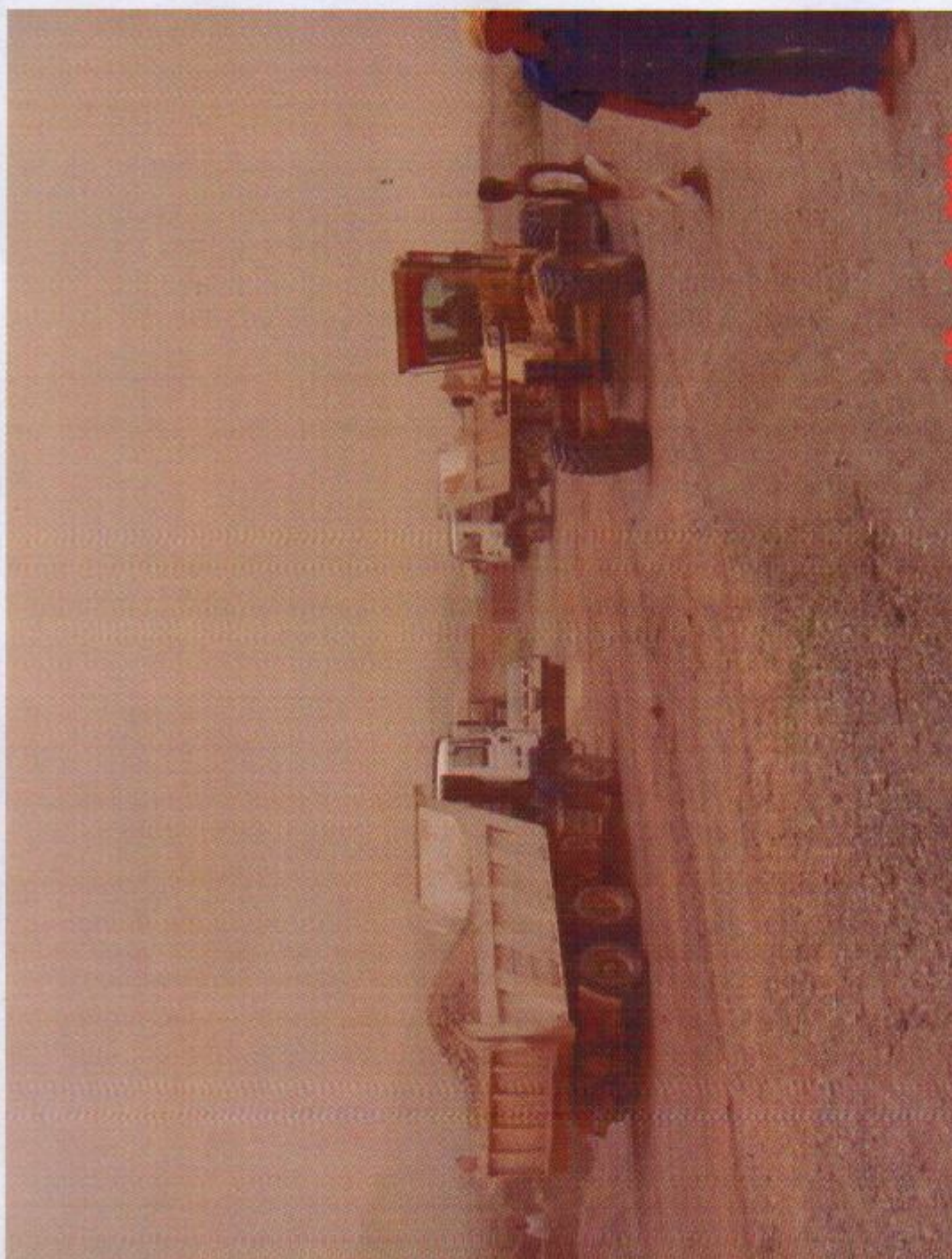


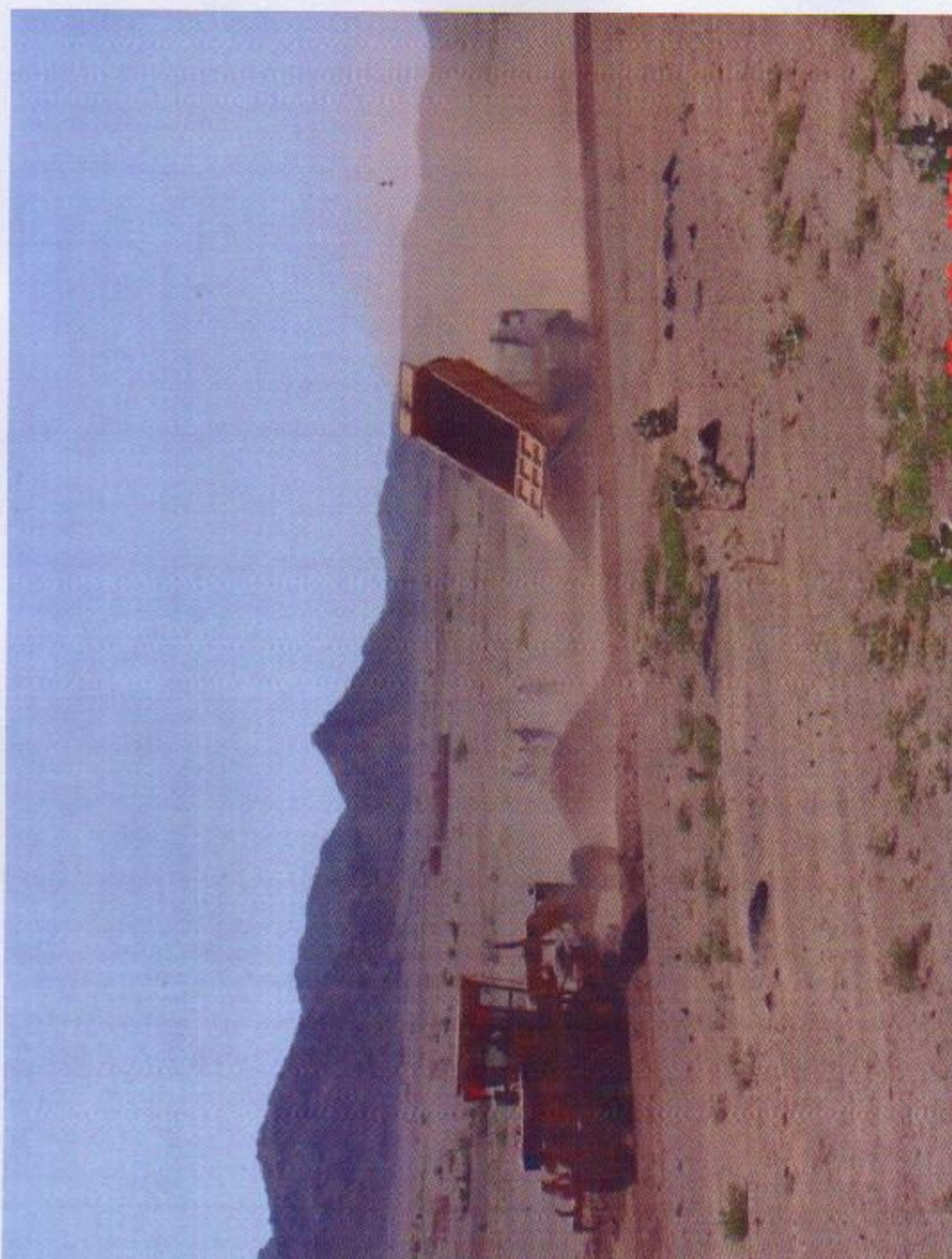










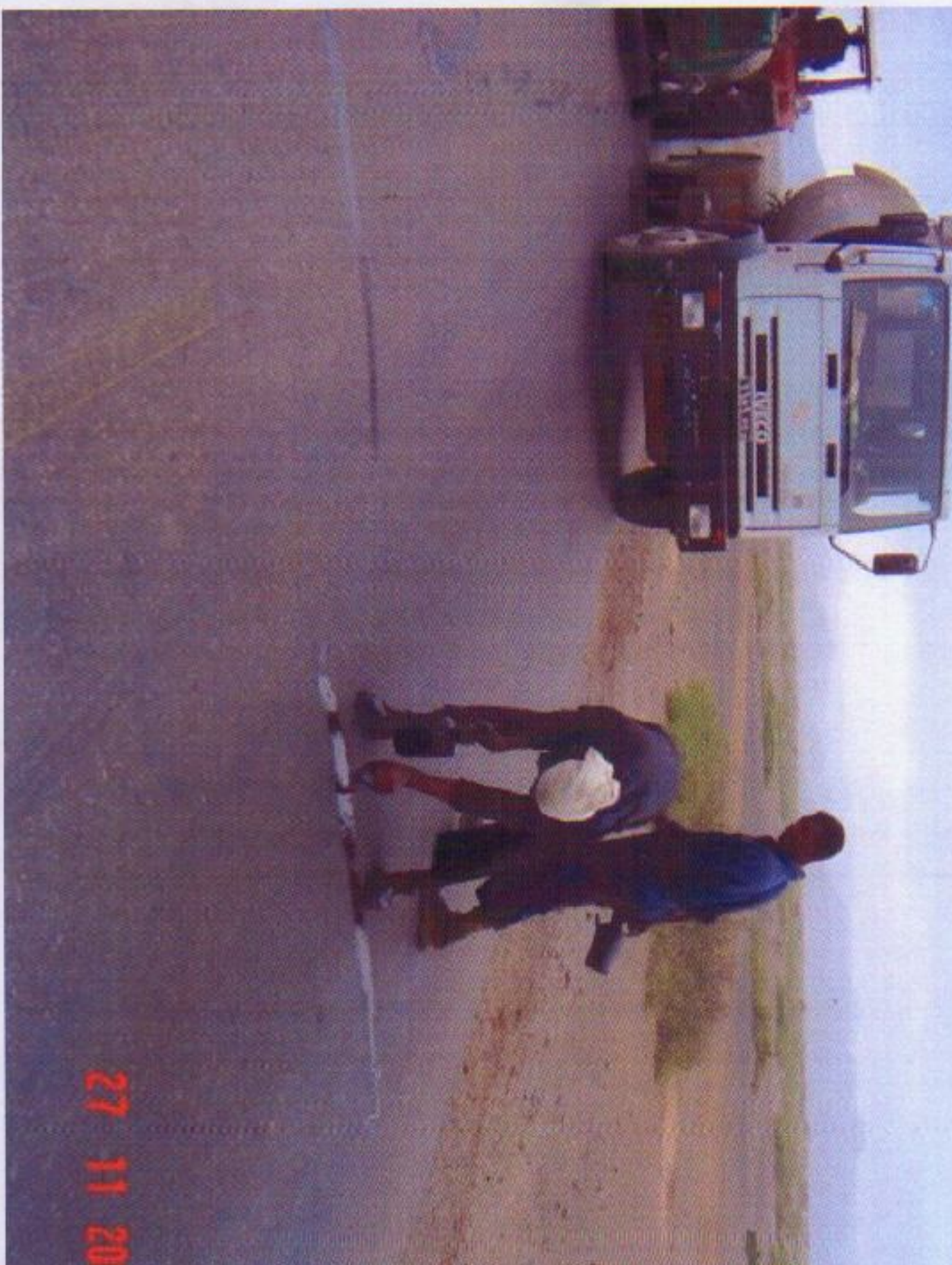




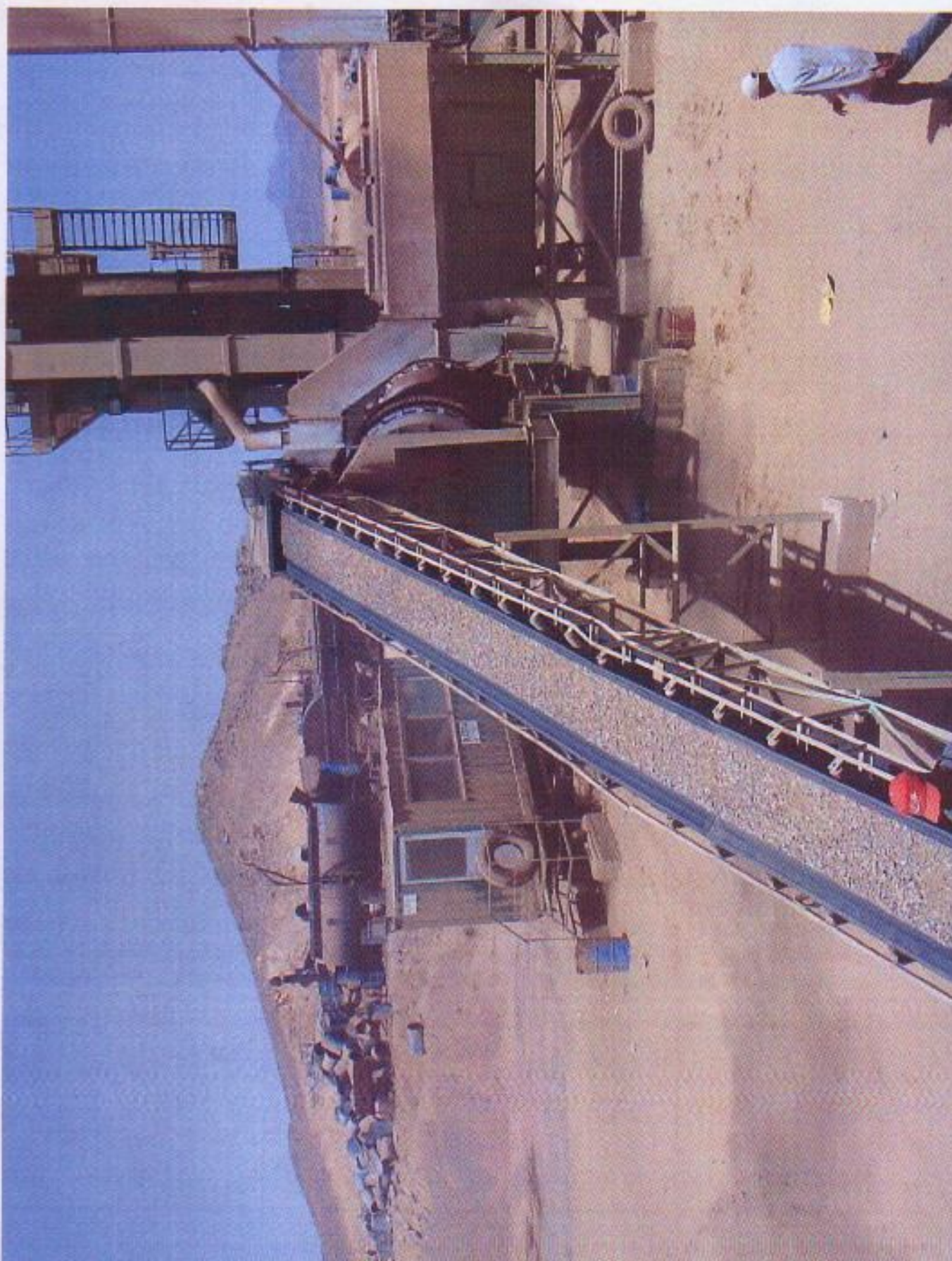






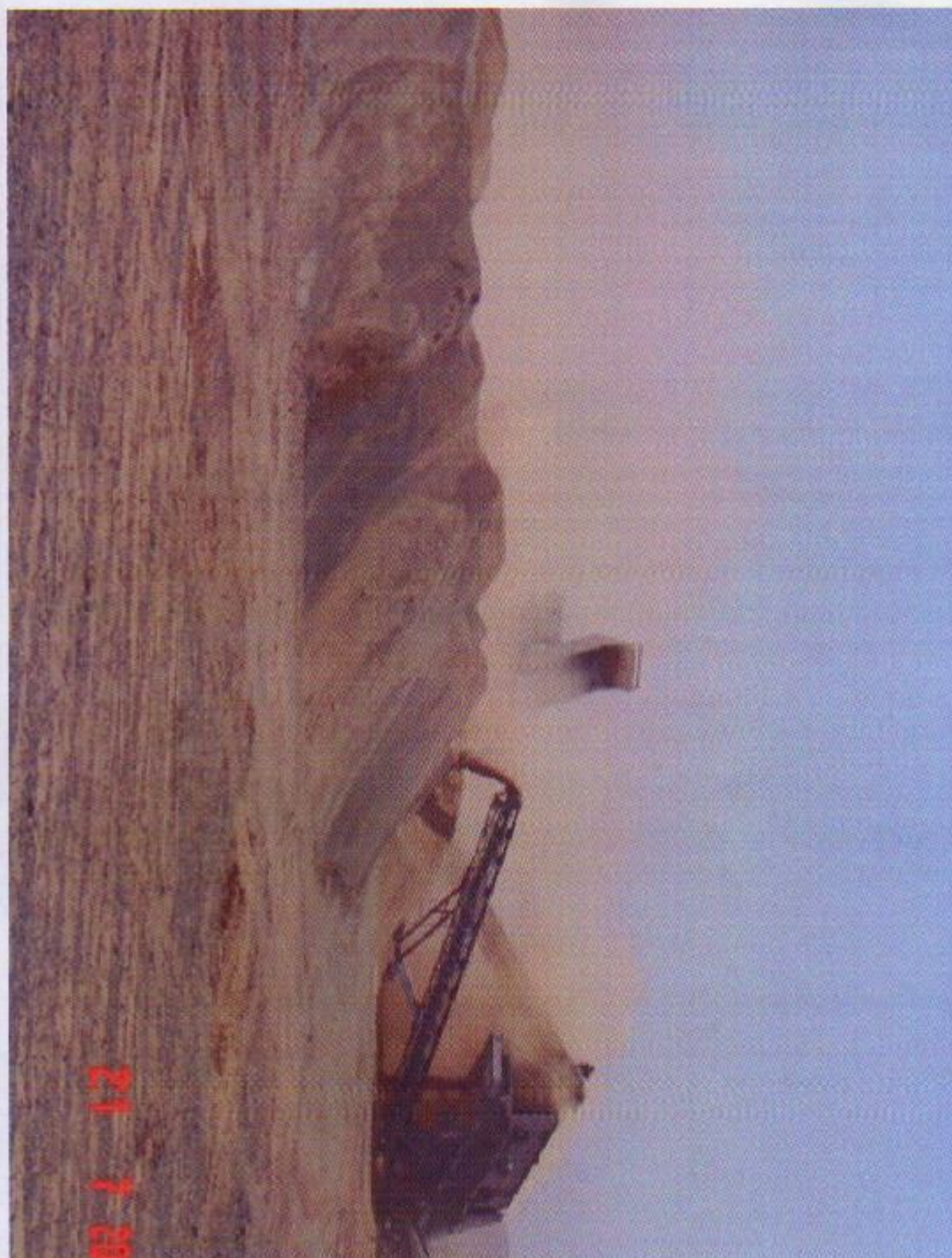


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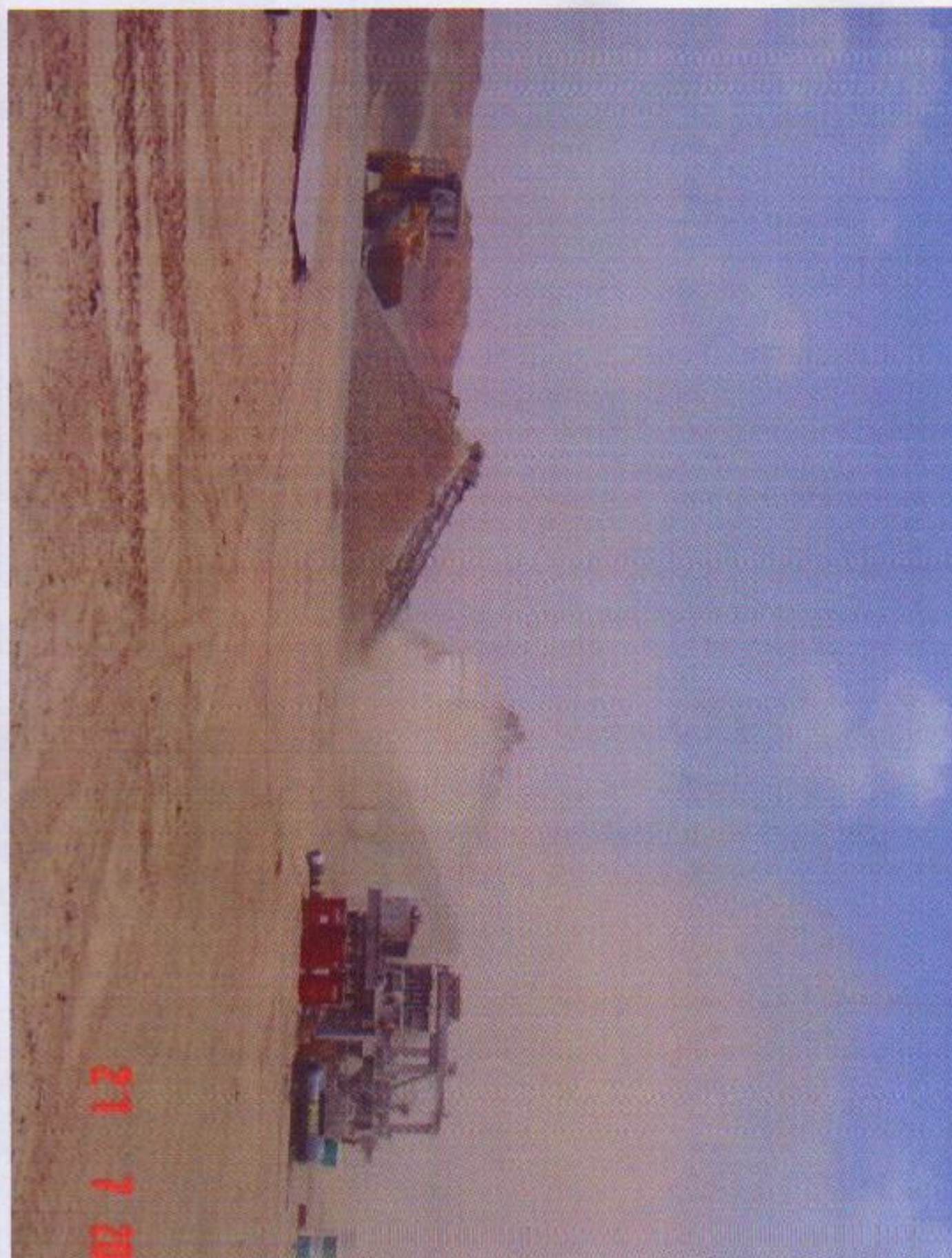




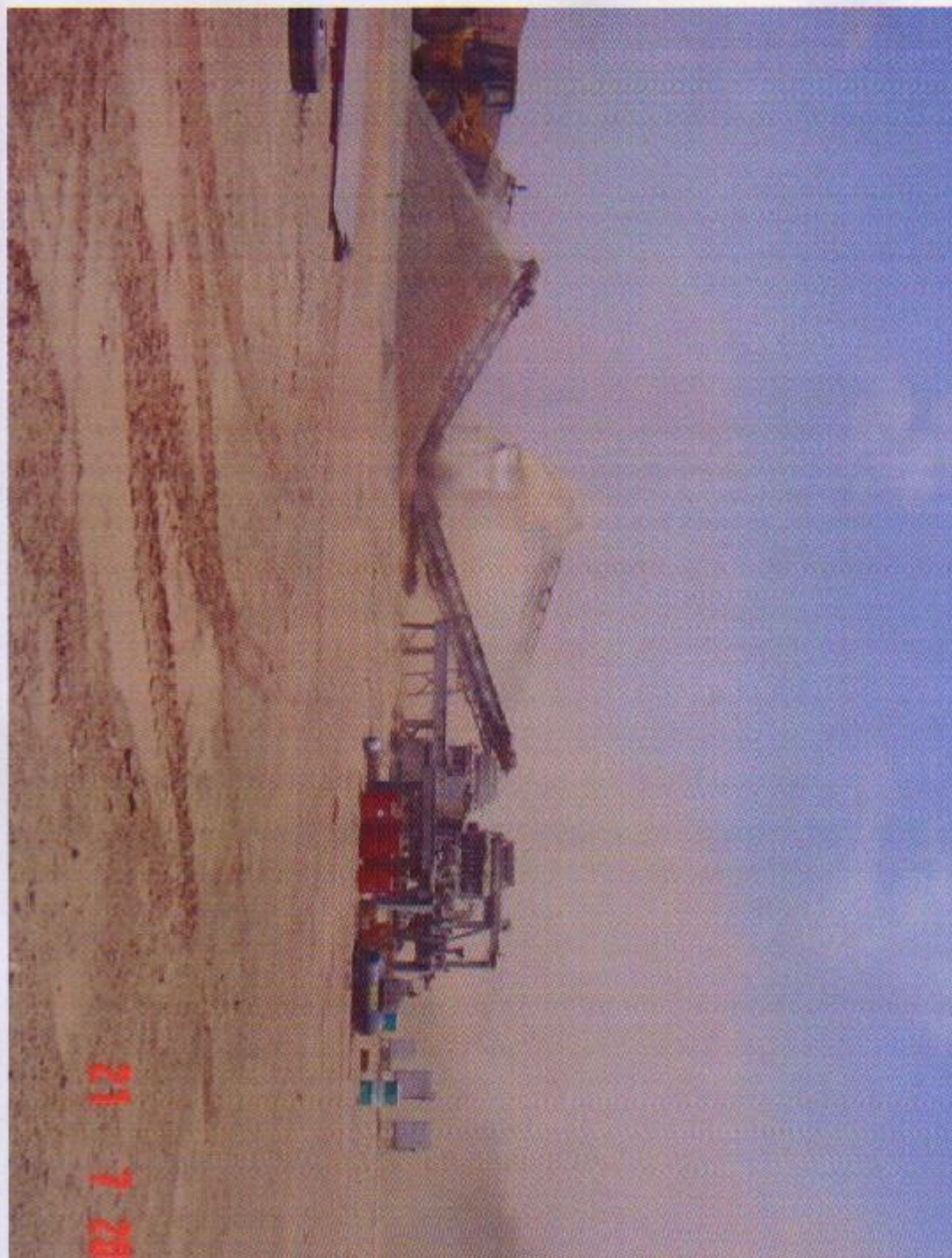
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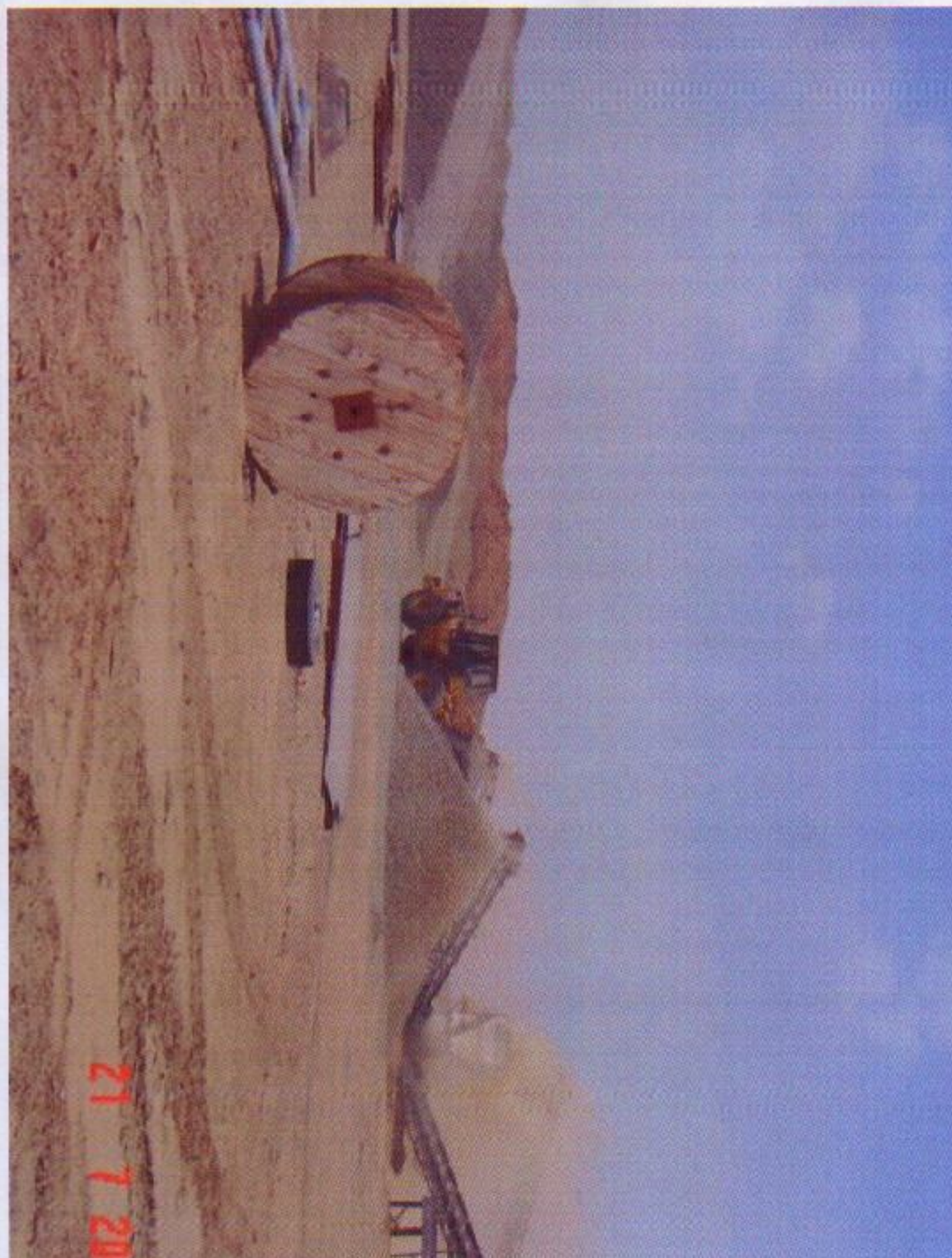
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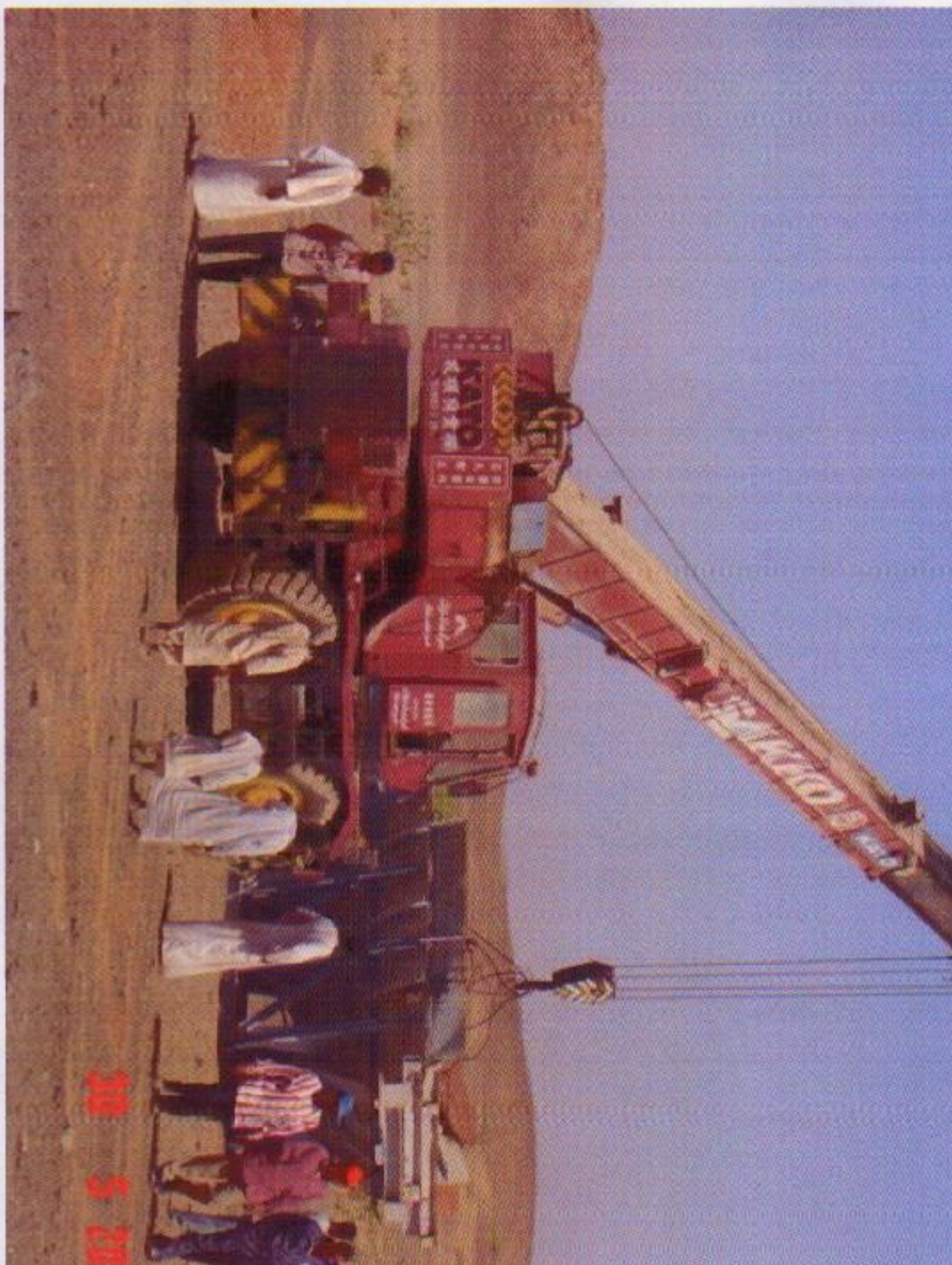


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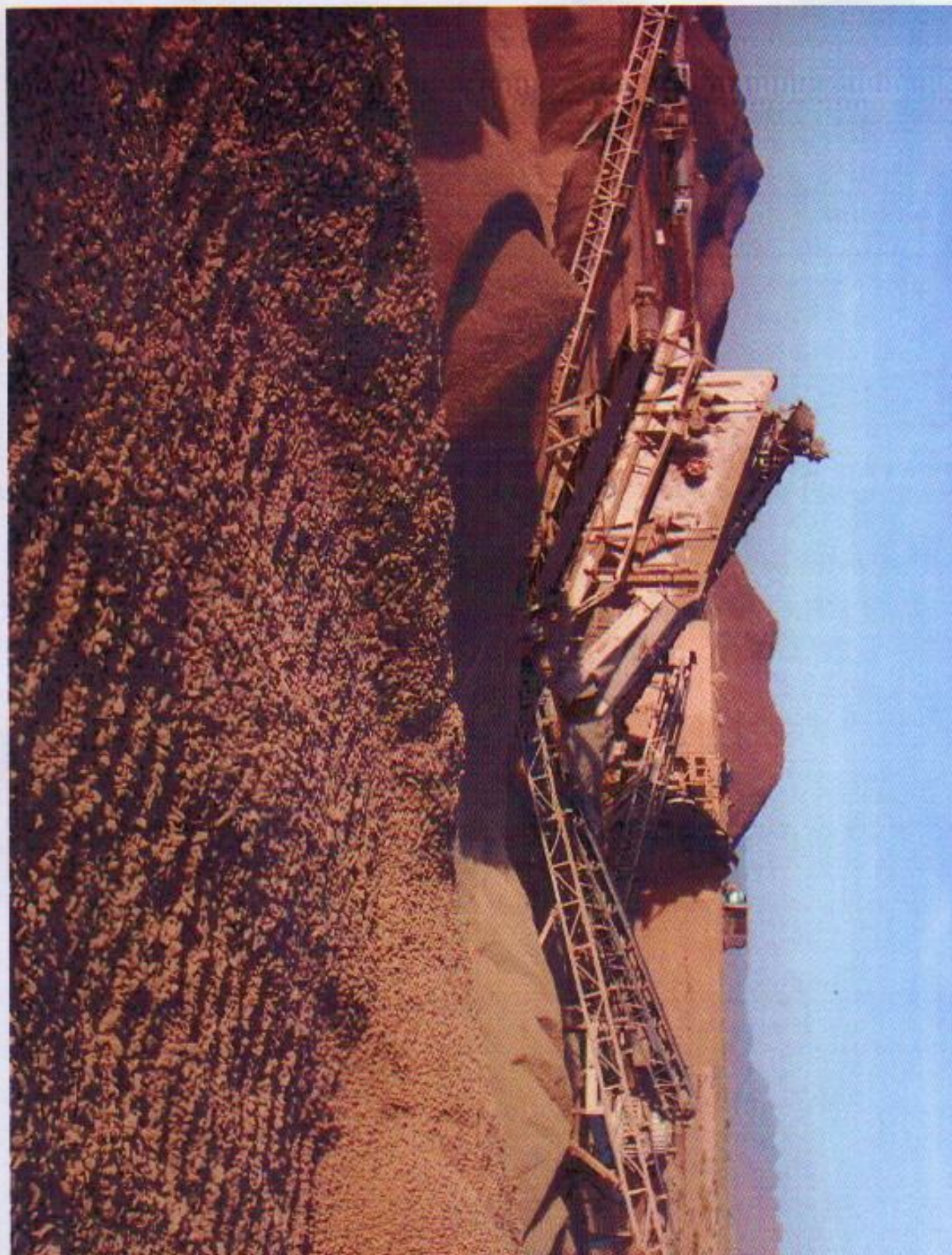


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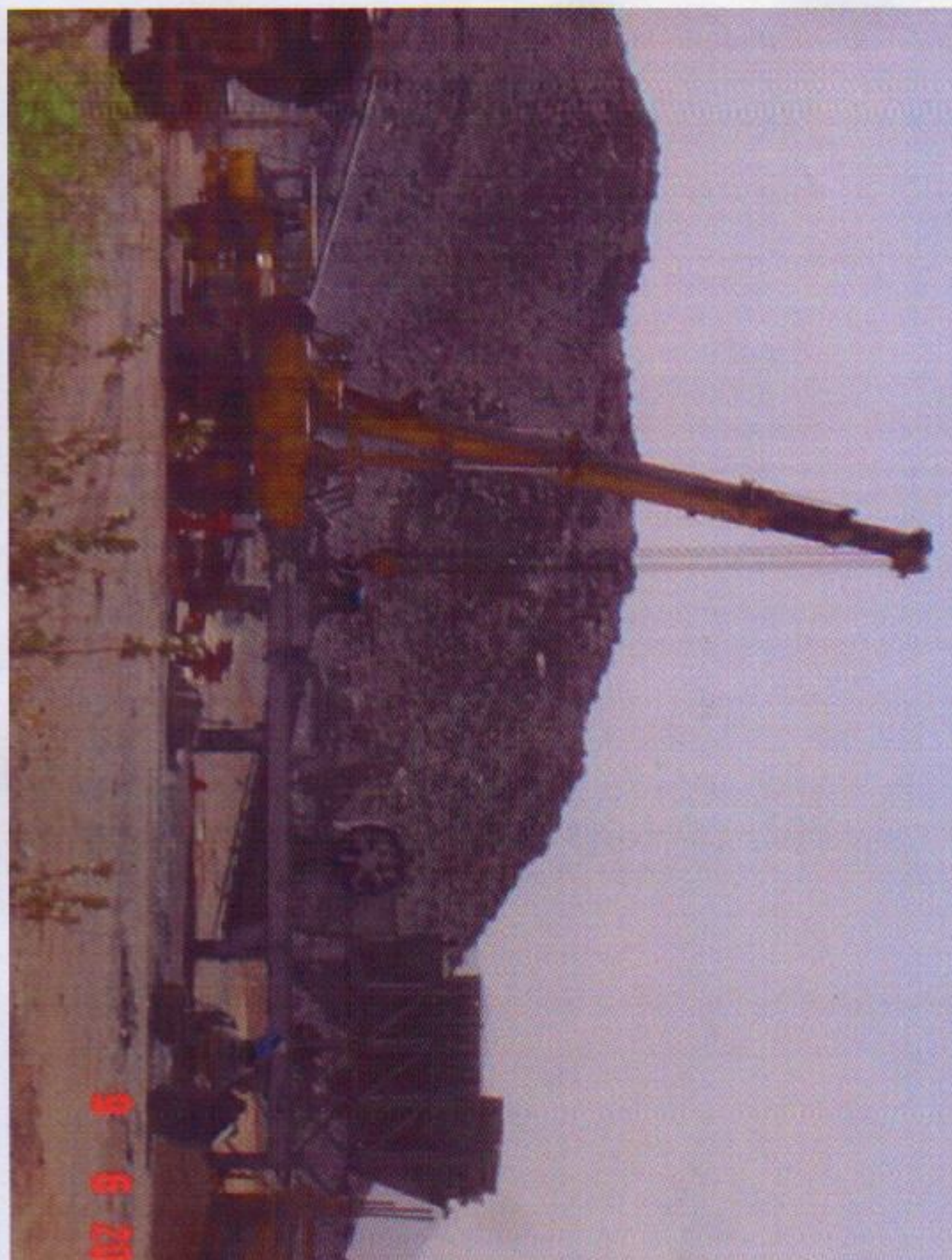




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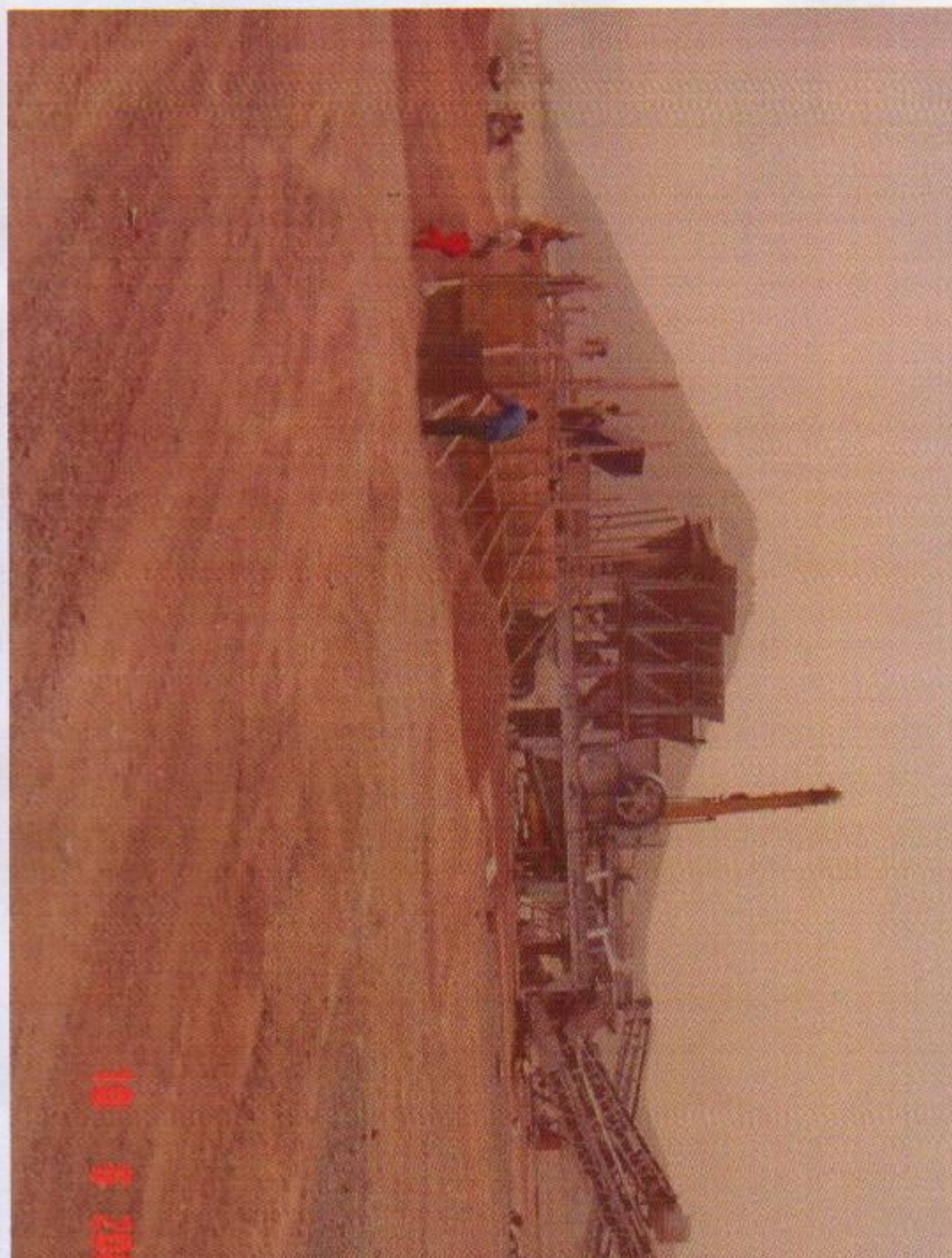




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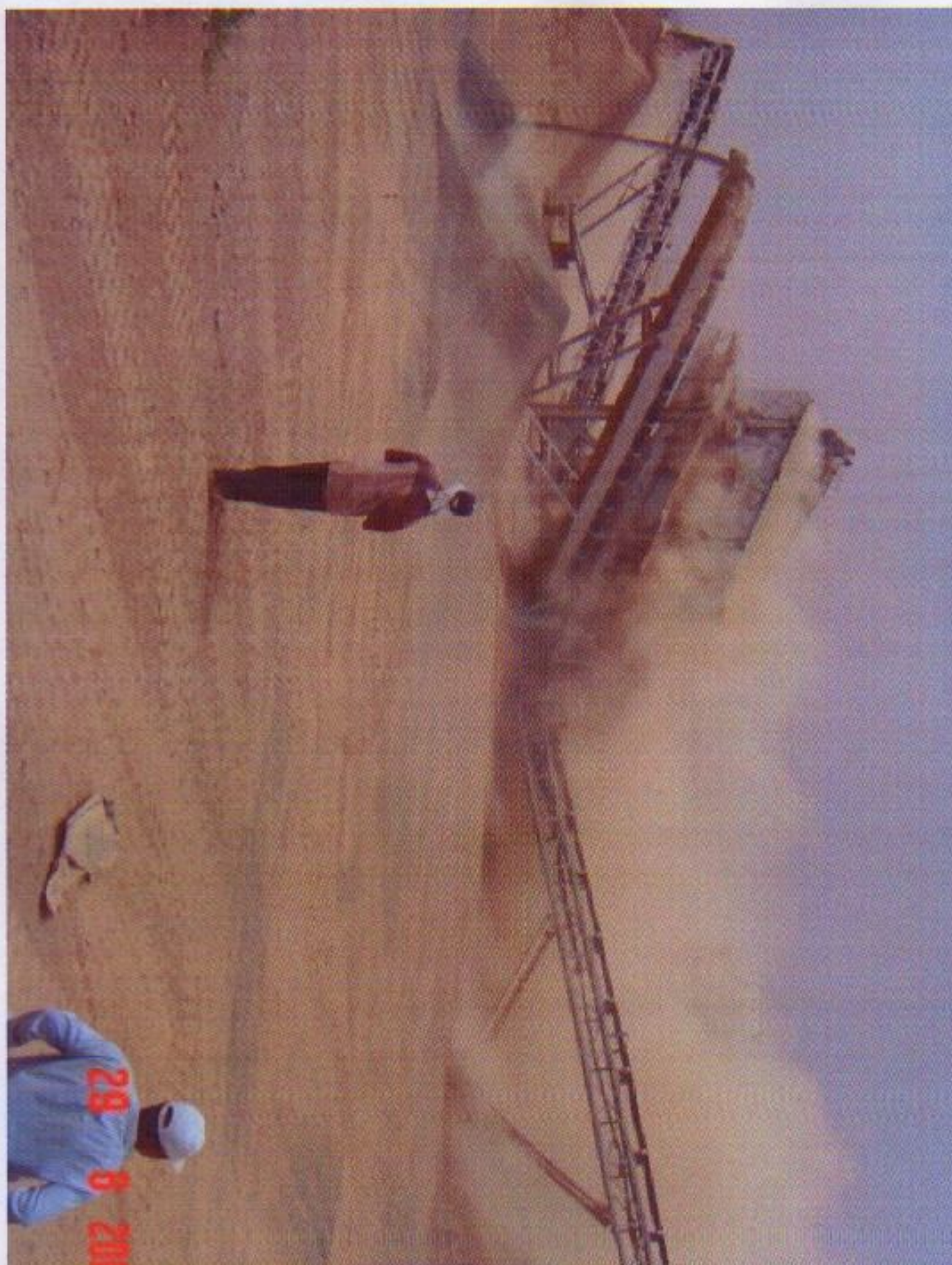


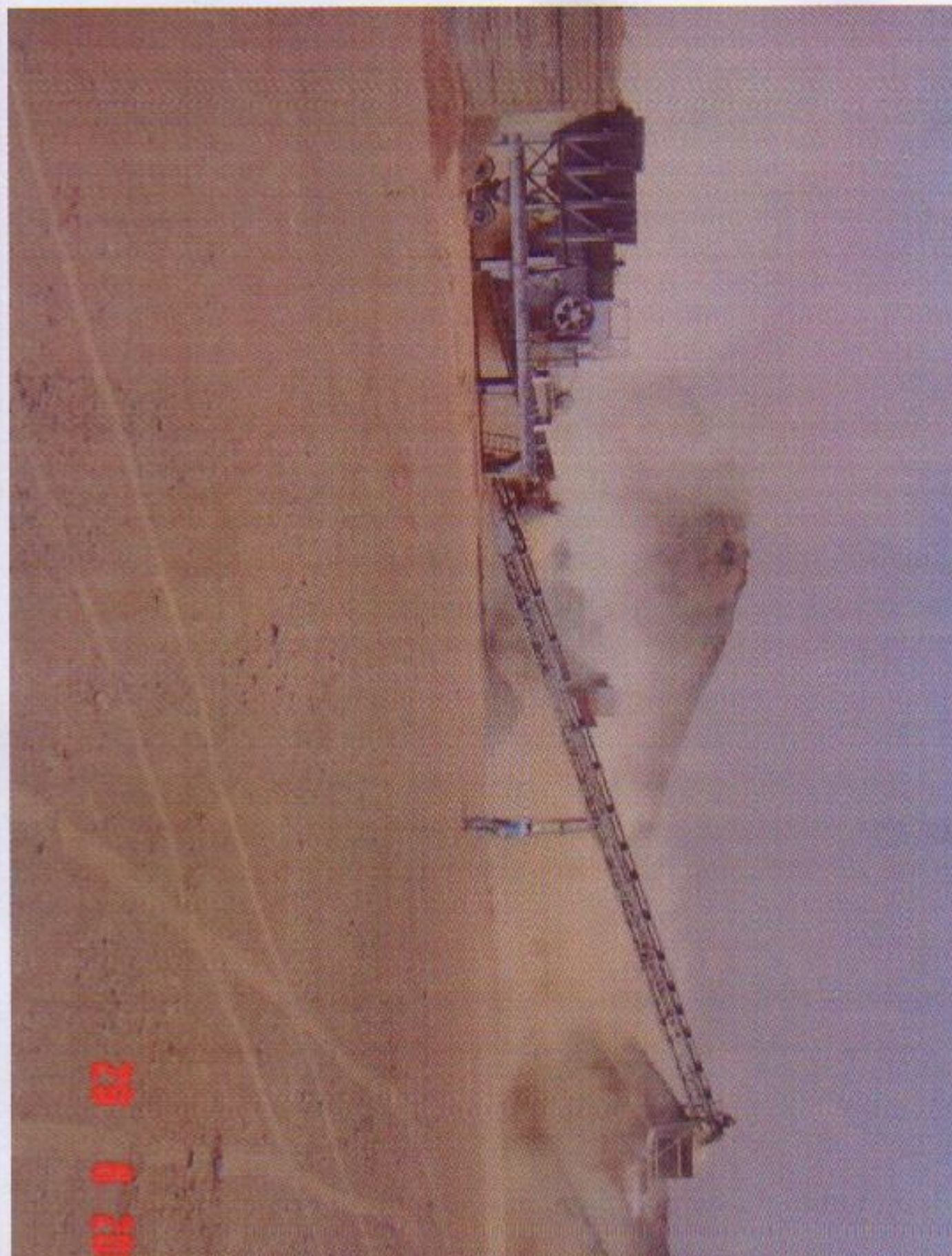
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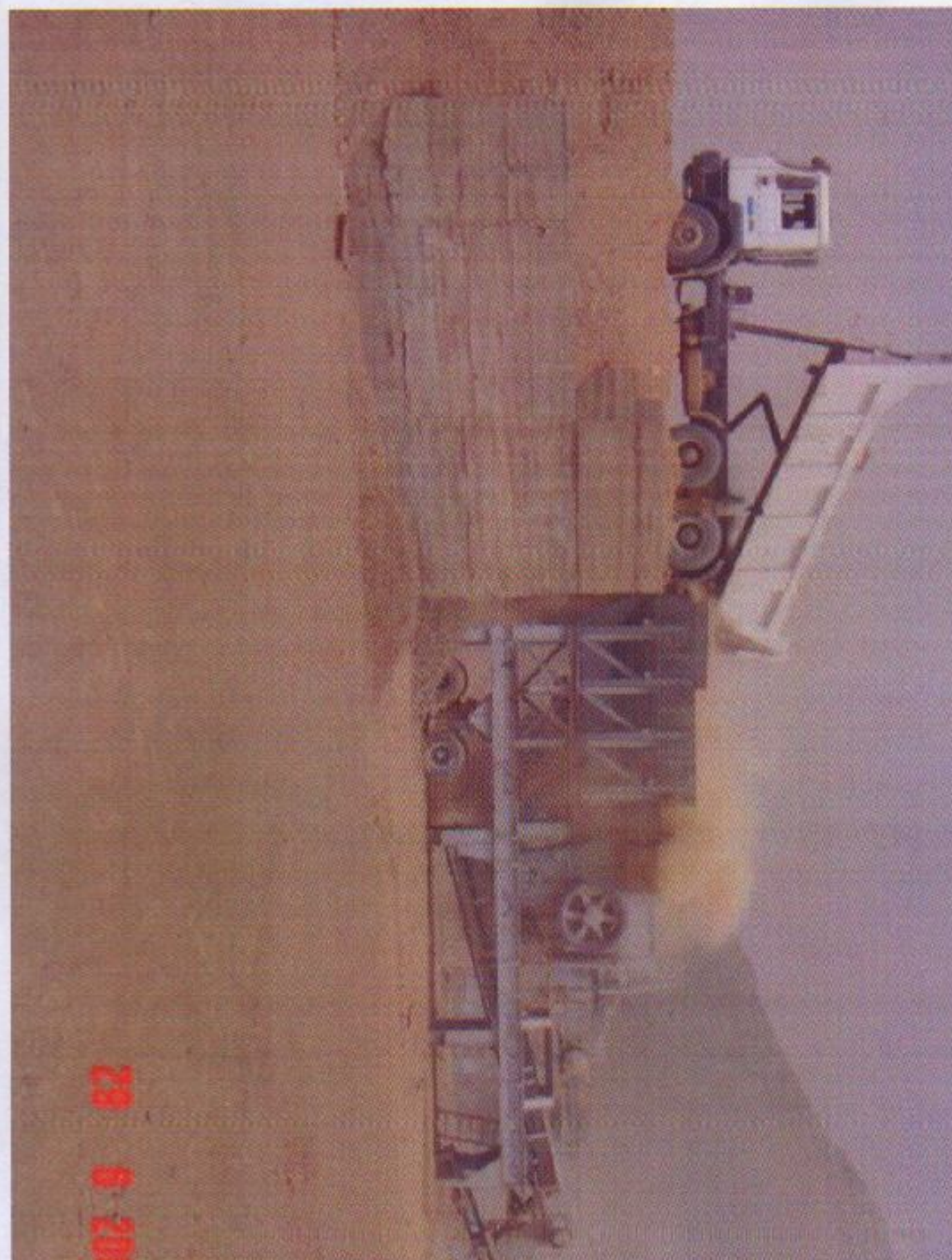




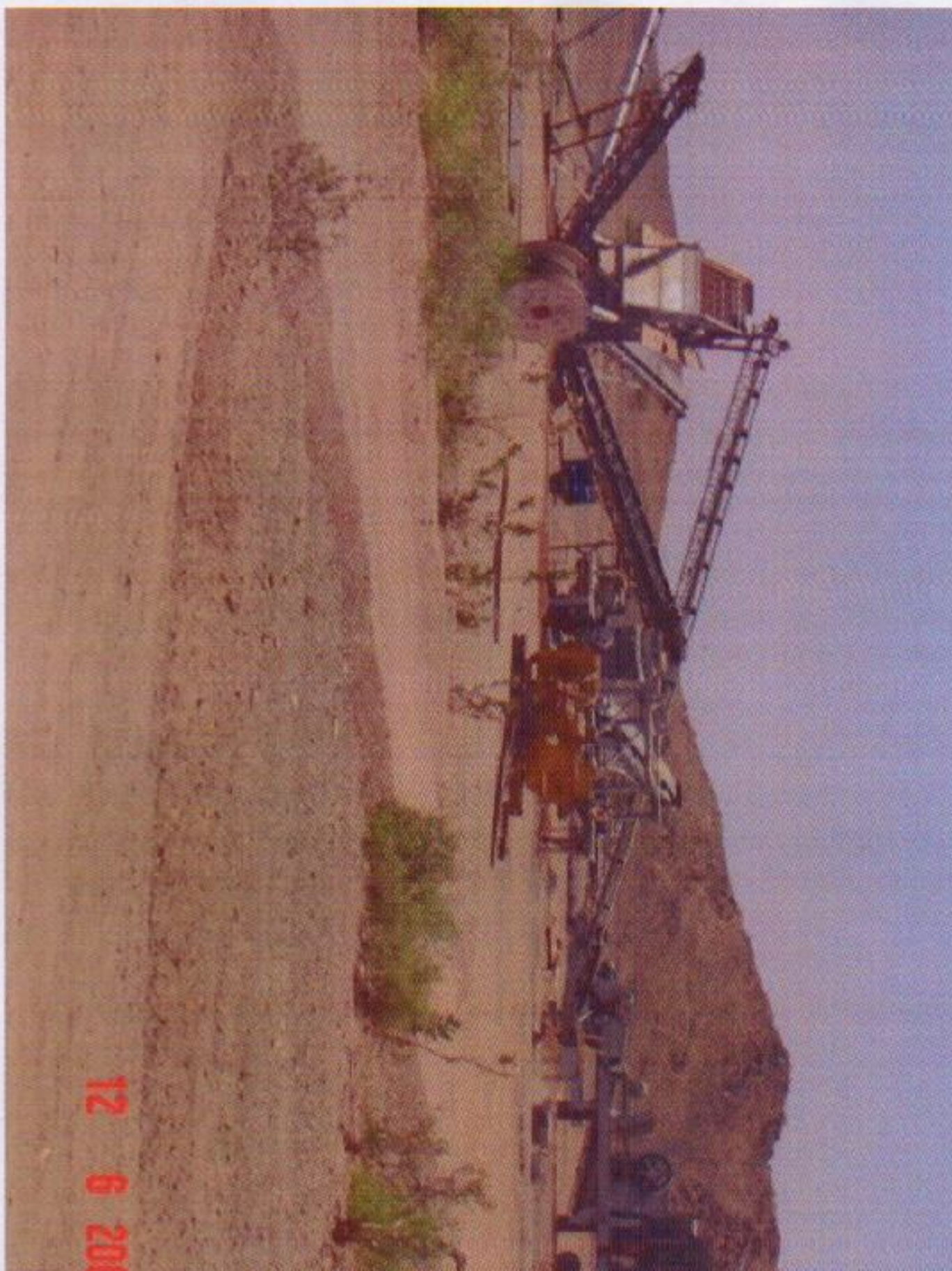
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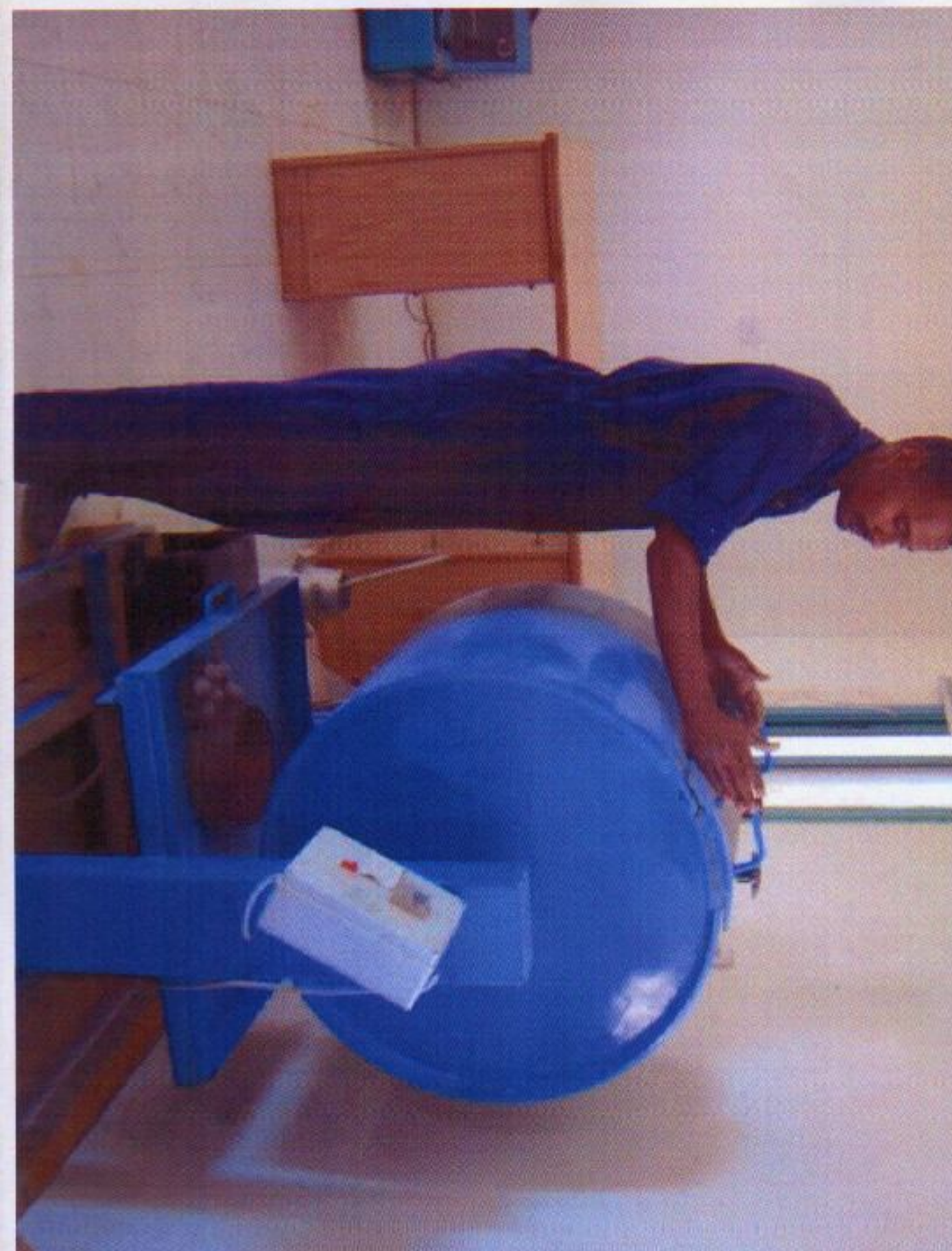
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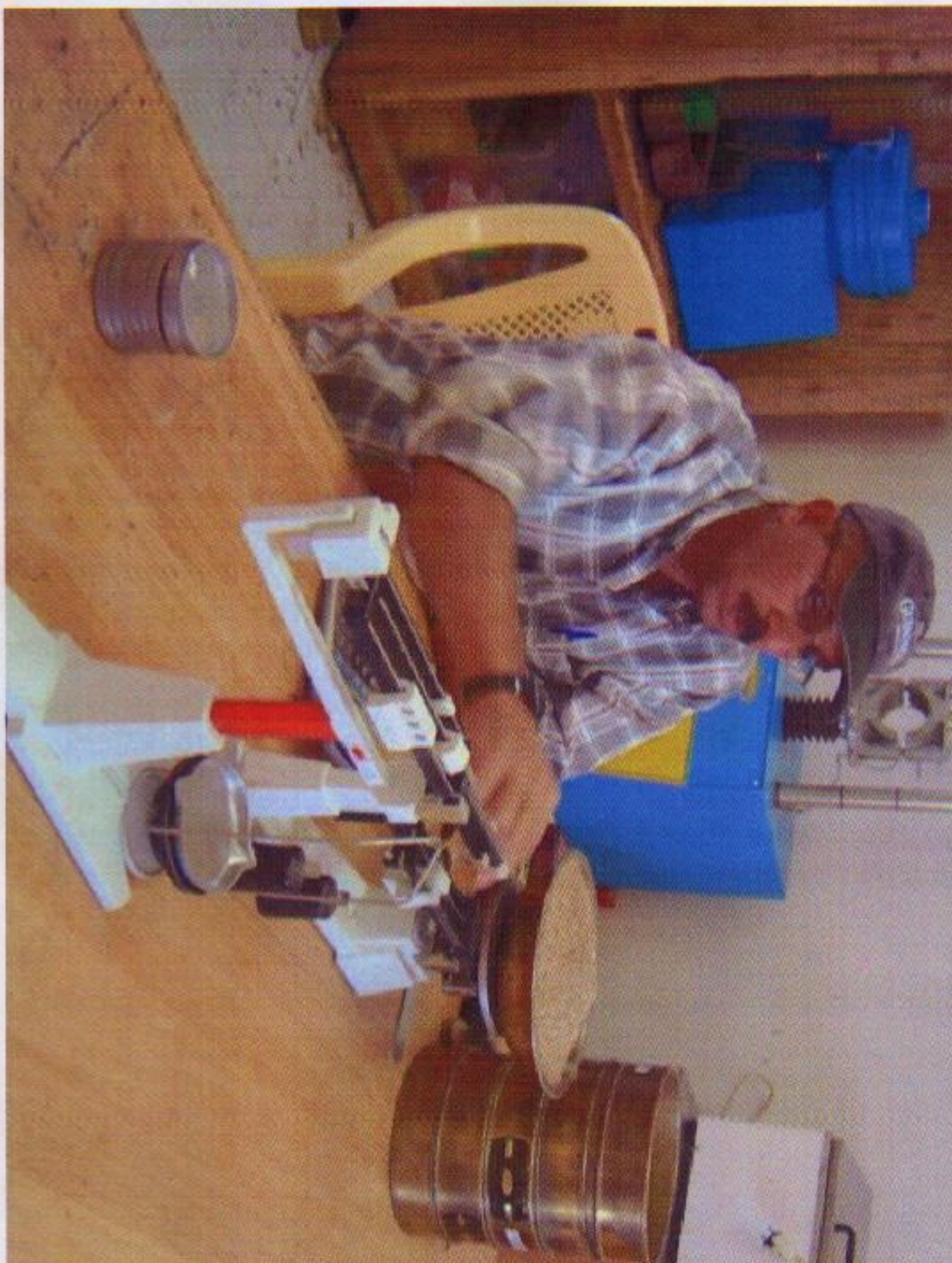




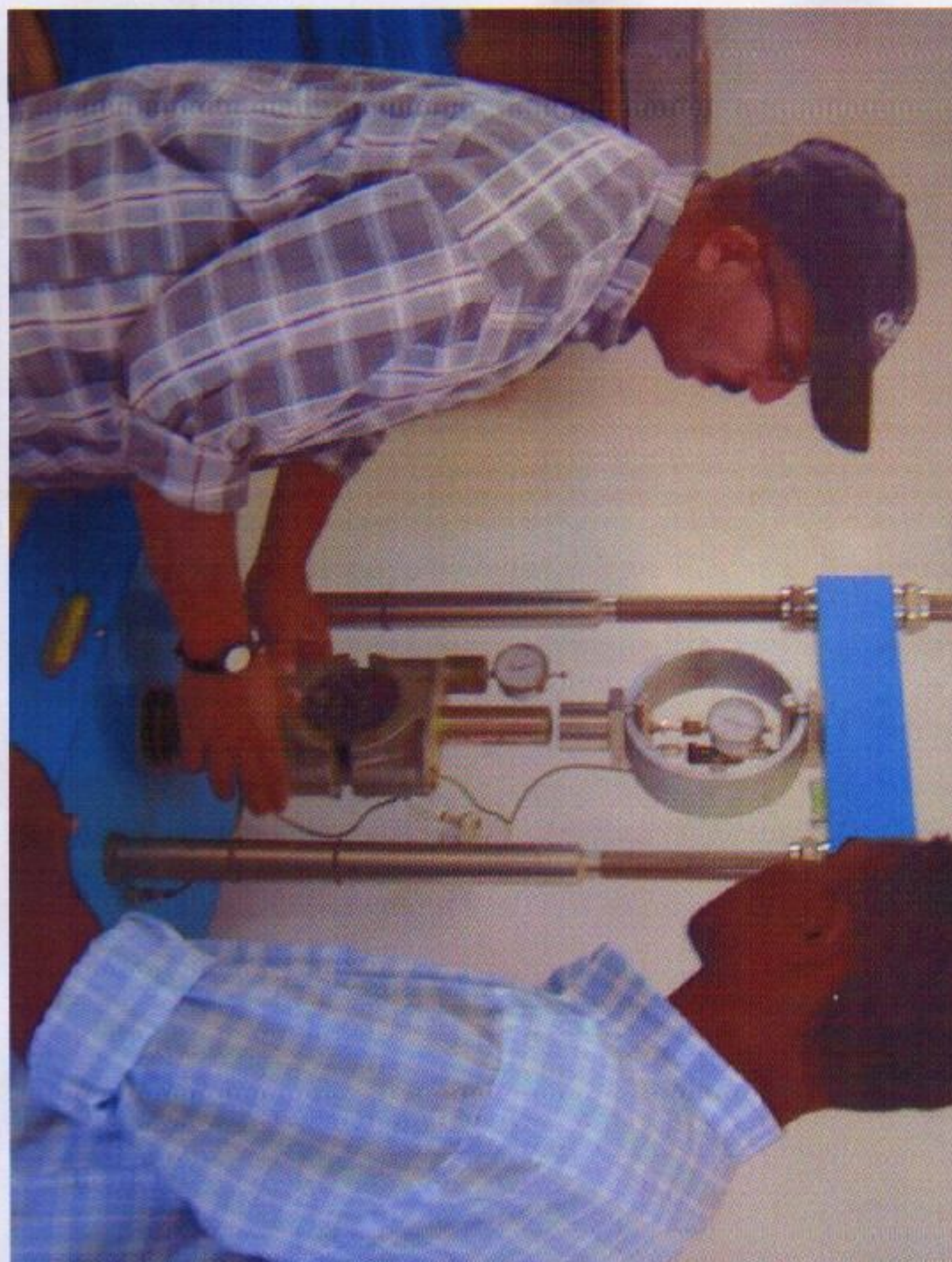


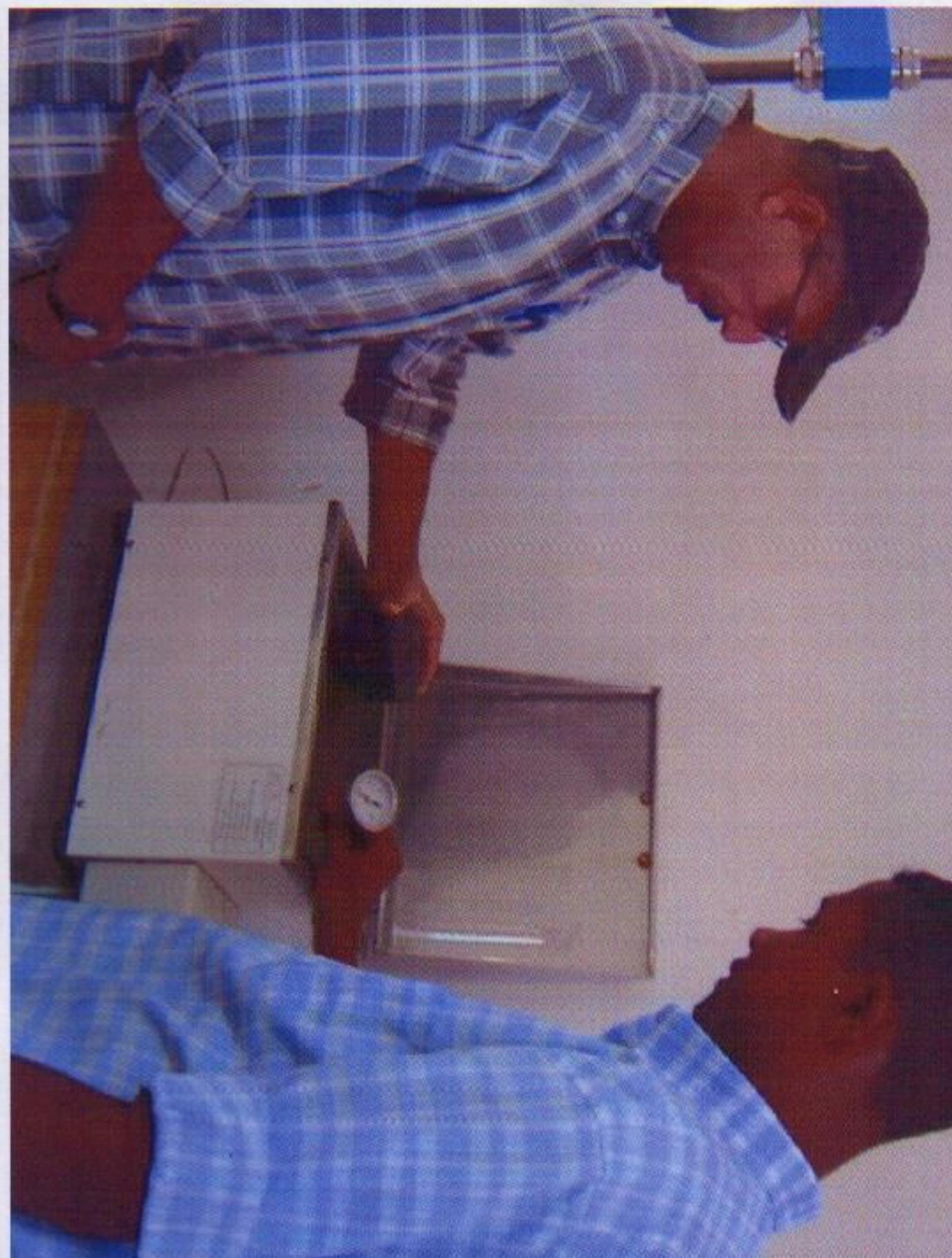


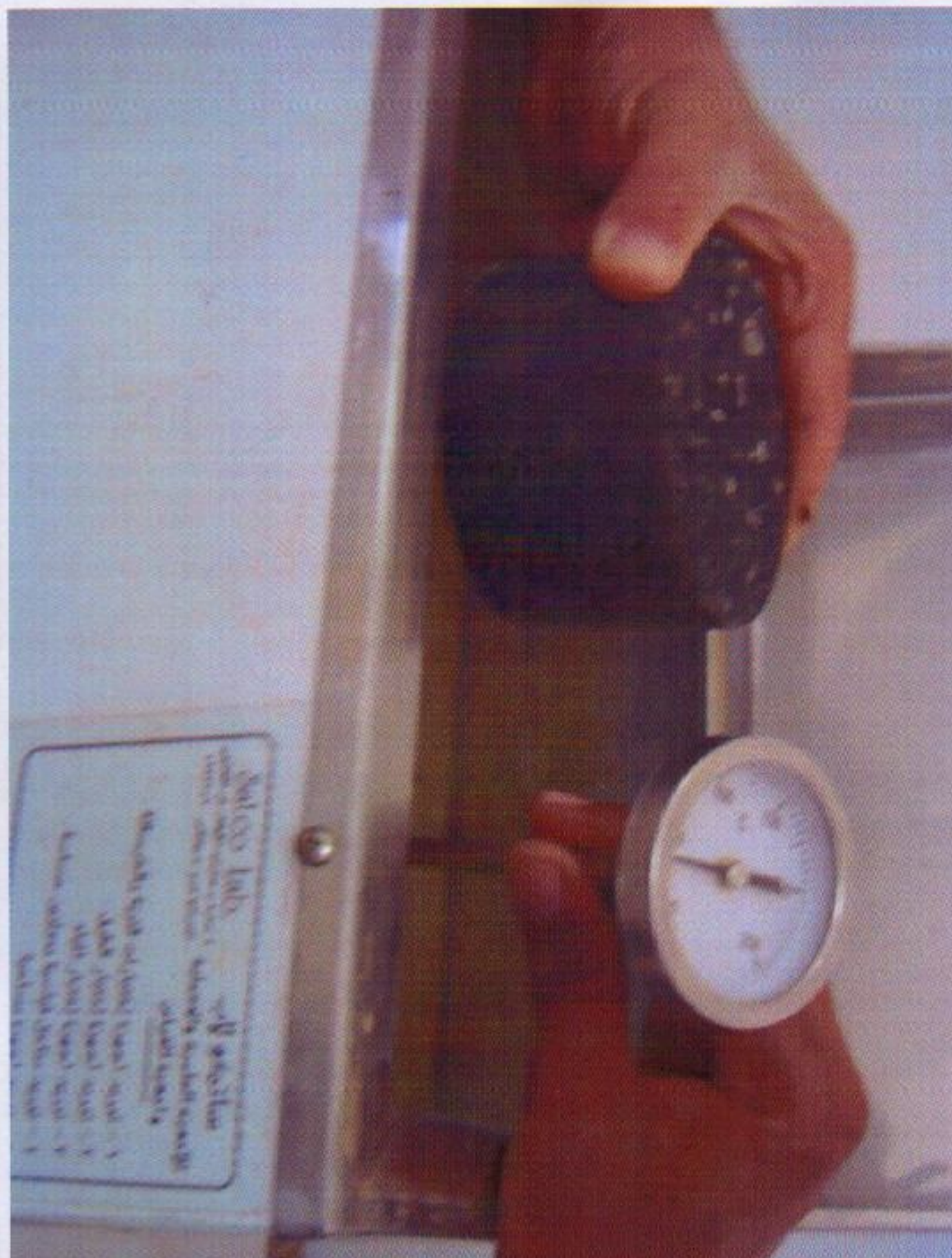
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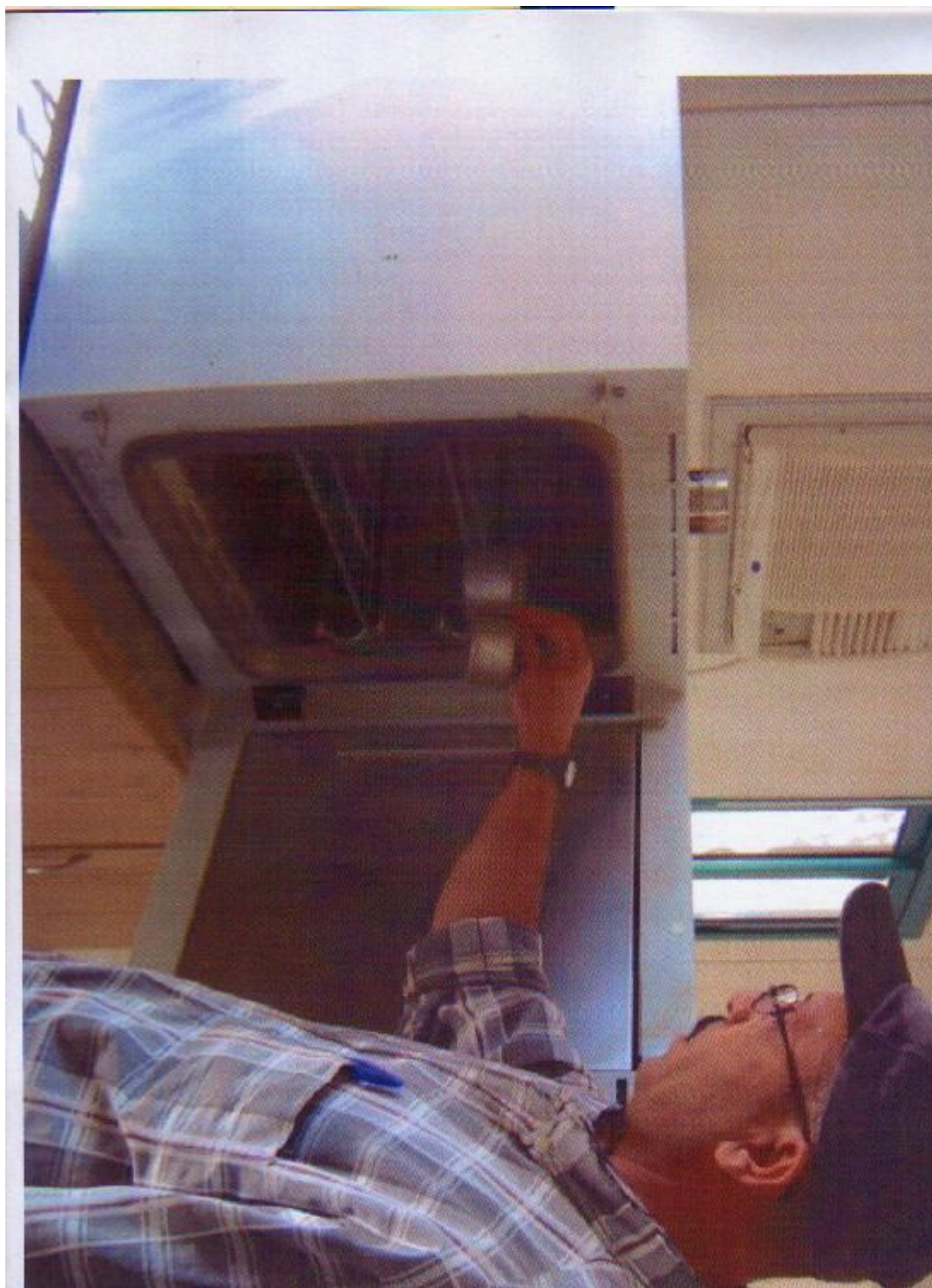


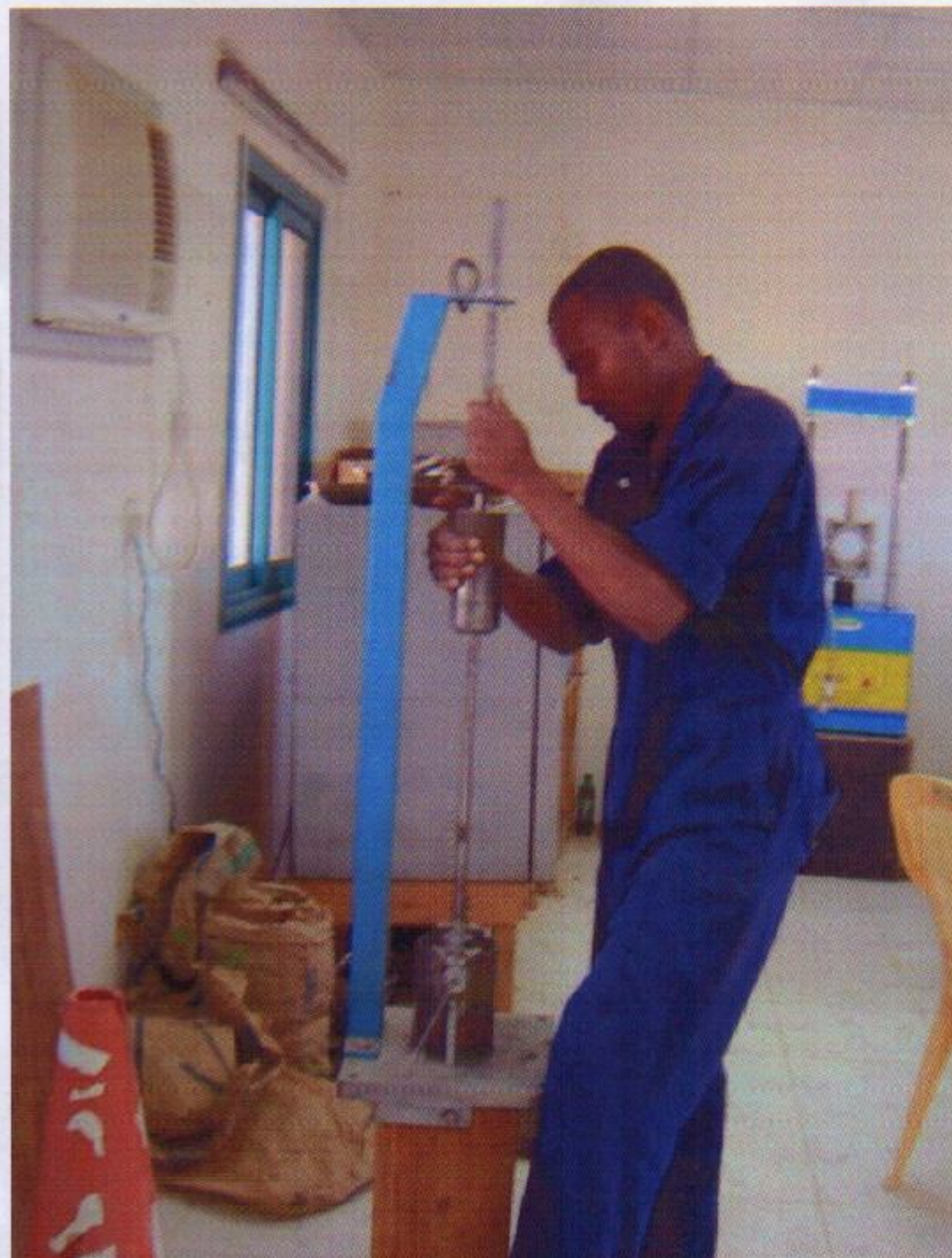
Physics Lab
Experiment 1: Measurement of the acceleration due to gravity
Objective: To determine the acceleration due to gravity using a pendulum.
Theory: A simple pendulum consists of a small mass (bob) suspended by a string from a fixed point. When displaced from its equilibrium position, it oscillates with simple harmonic motion. The period of oscillation (T) is related to the length of the pendulum (L) and the acceleration due to gravity (g) by the equation:
$$T = 2\pi \sqrt{\frac{L}{g}}$$

Rearranging the equation, we can find g:
$$g = \frac{4\pi^2 L}{T^2}$$

Procedure: 1. Set up a simple pendulum with a string of length L and a bob of mass m. 2. Displace the bob from its equilibrium position and release it. 3. Measure the time (t) for a certain number of oscillations (n). 4. Calculate the period T = t/n. 5. Repeat the experiment for different lengths L and calculate g for each case. 6. Find the average value of g.



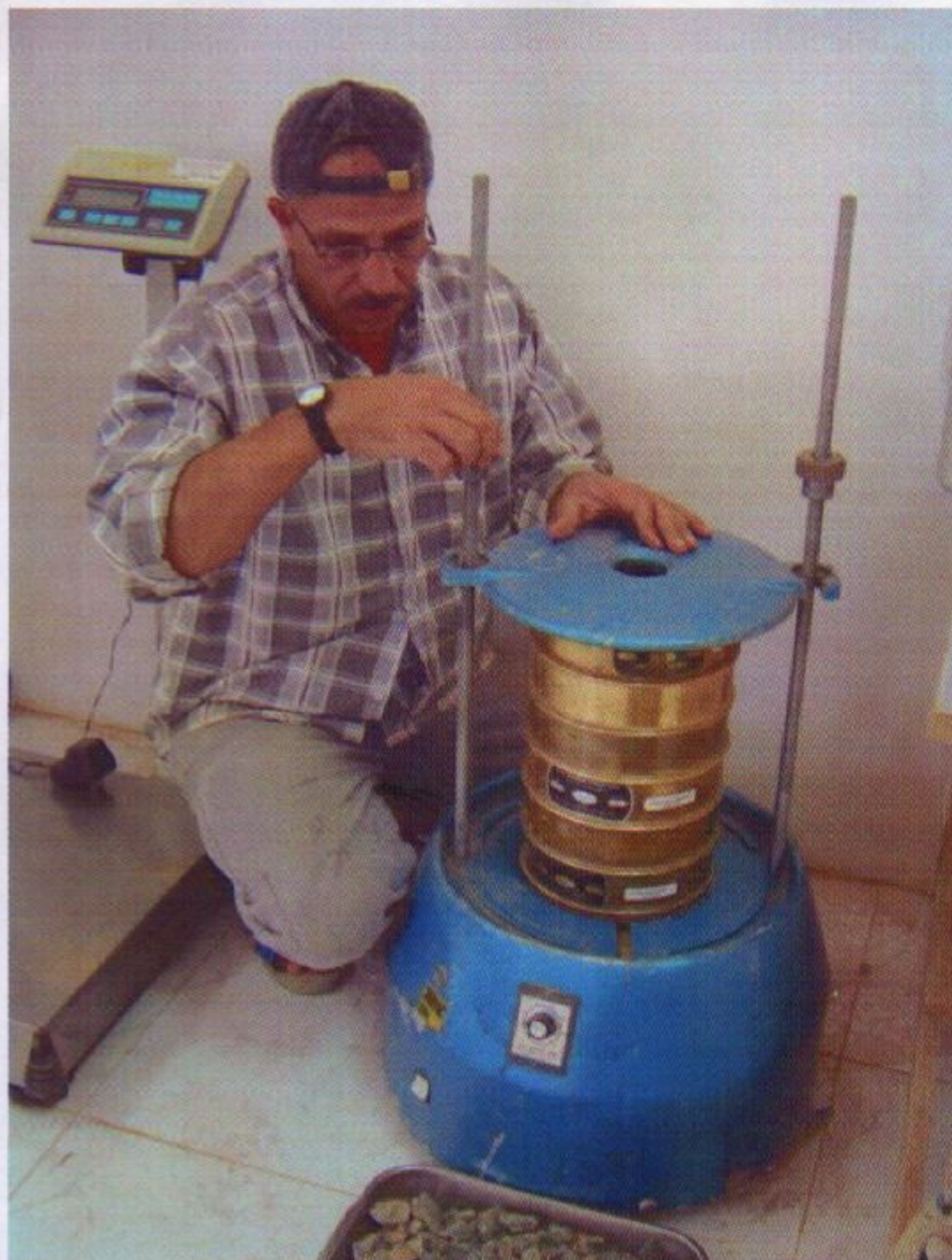


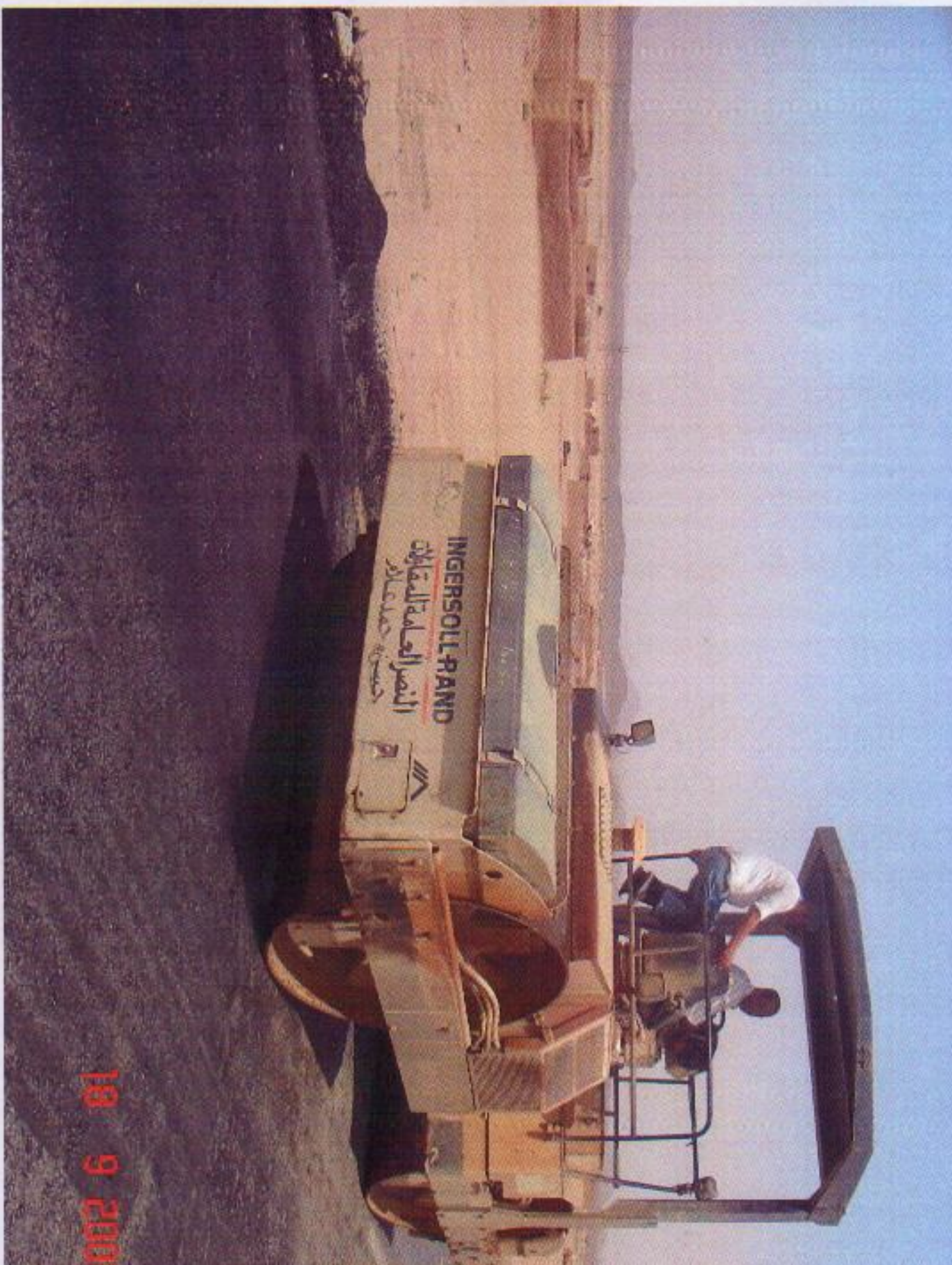




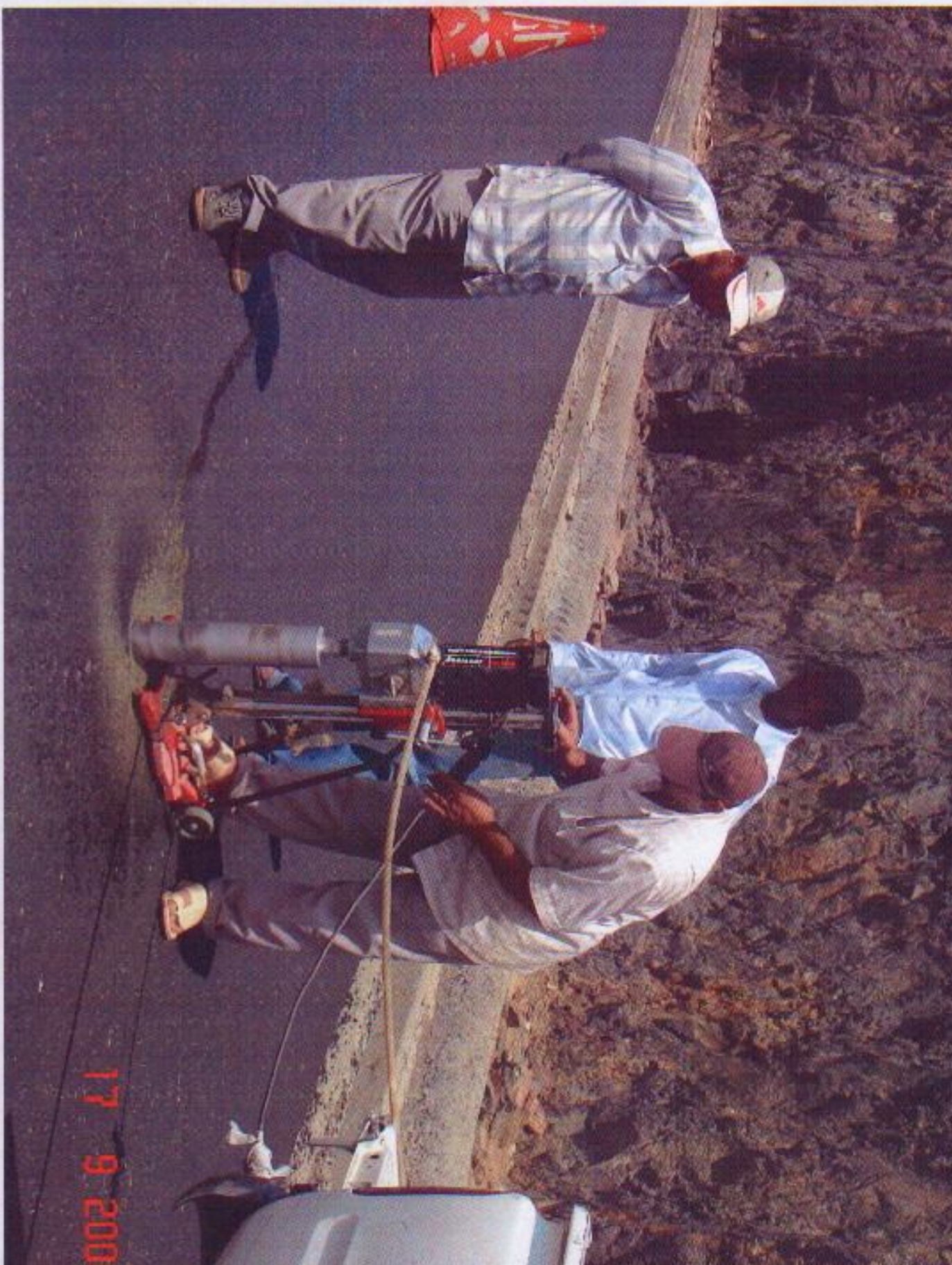






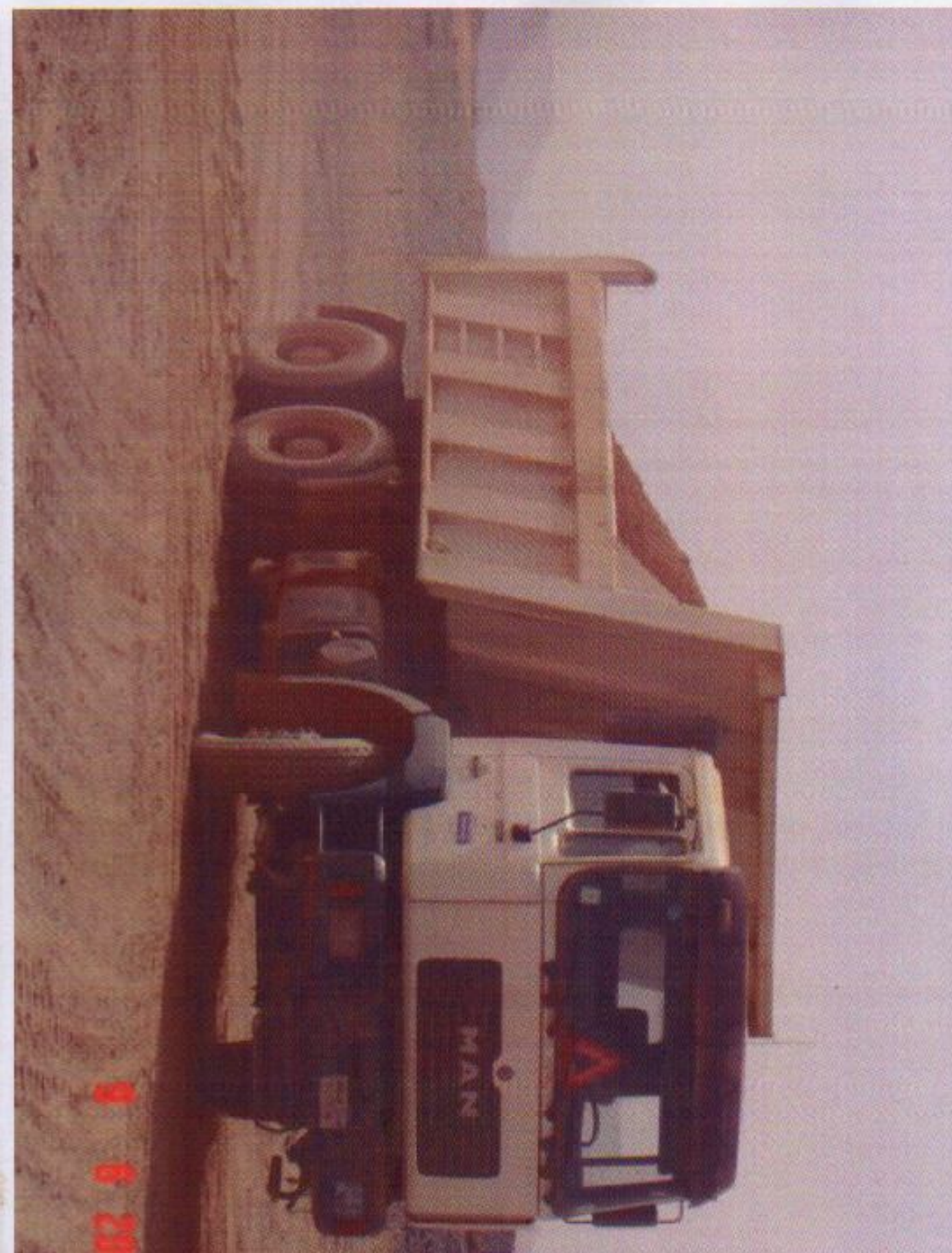


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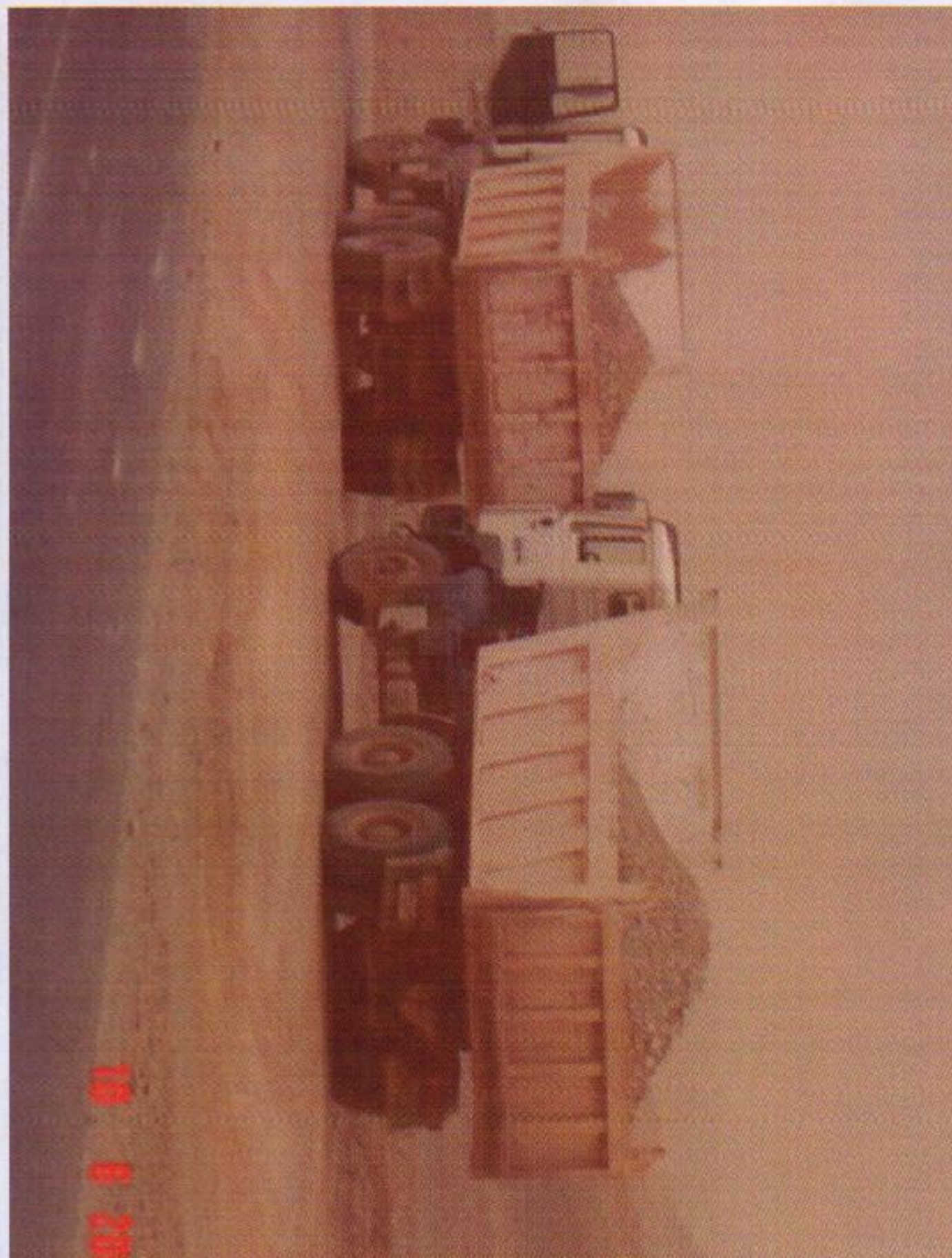


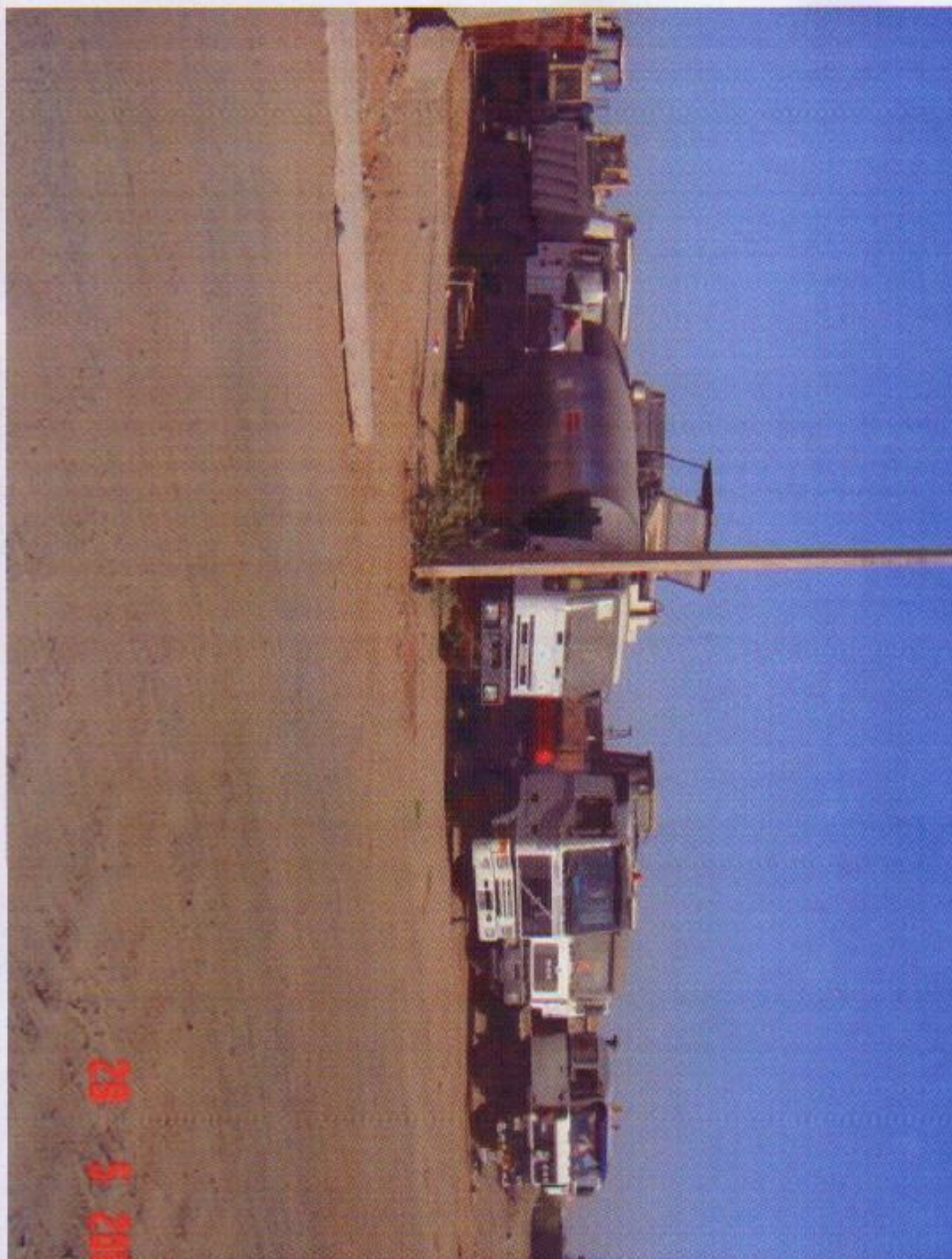


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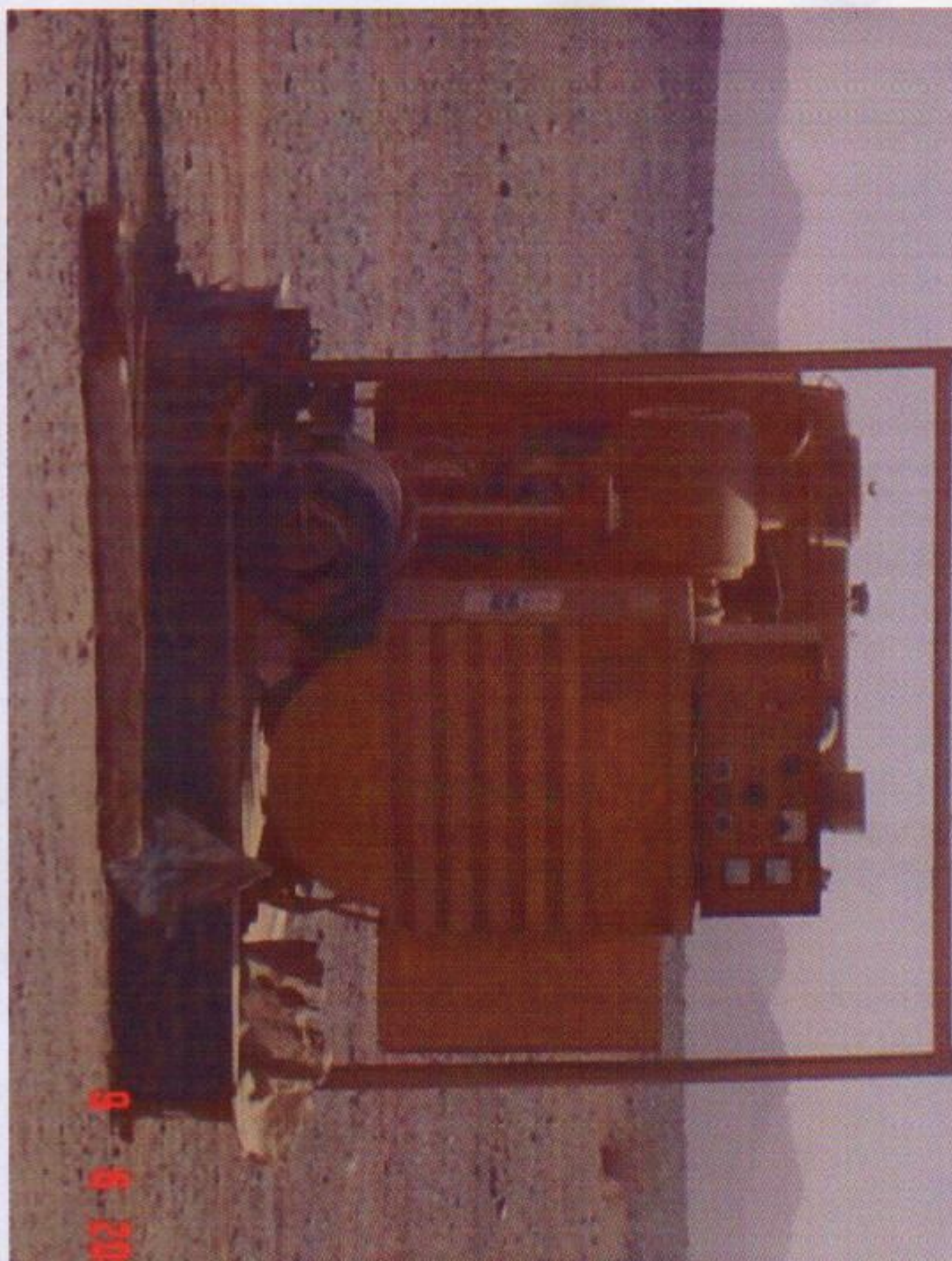




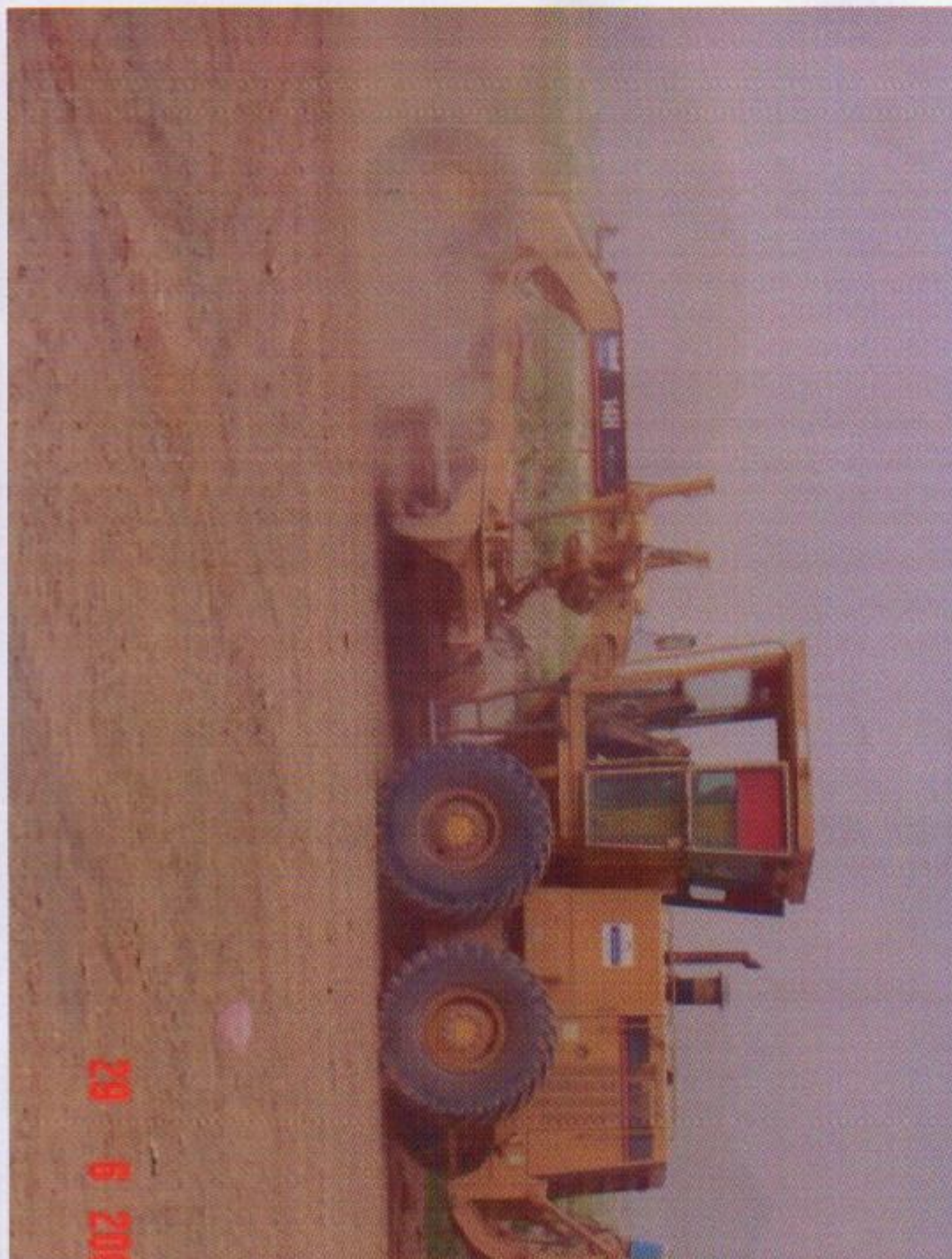
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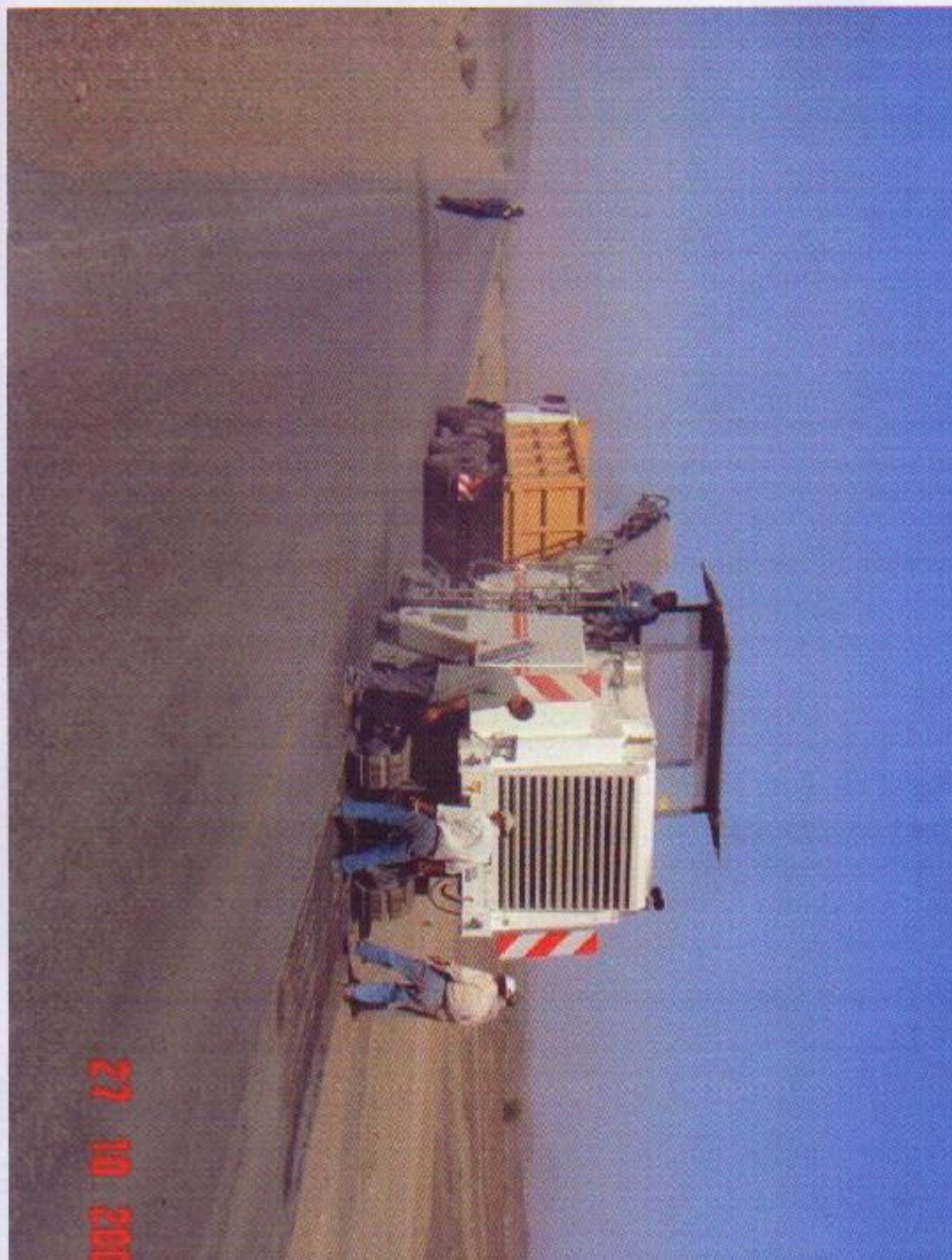


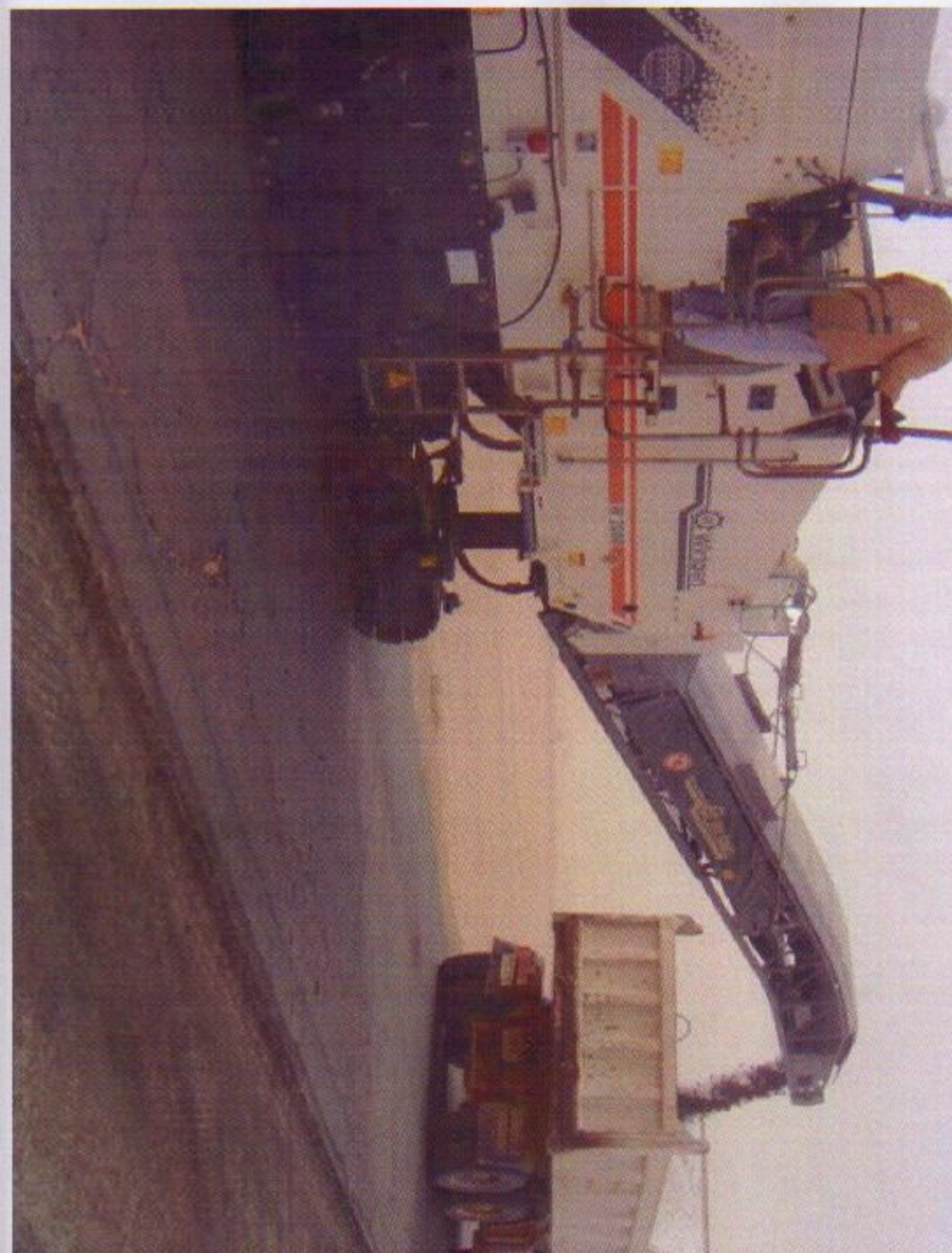
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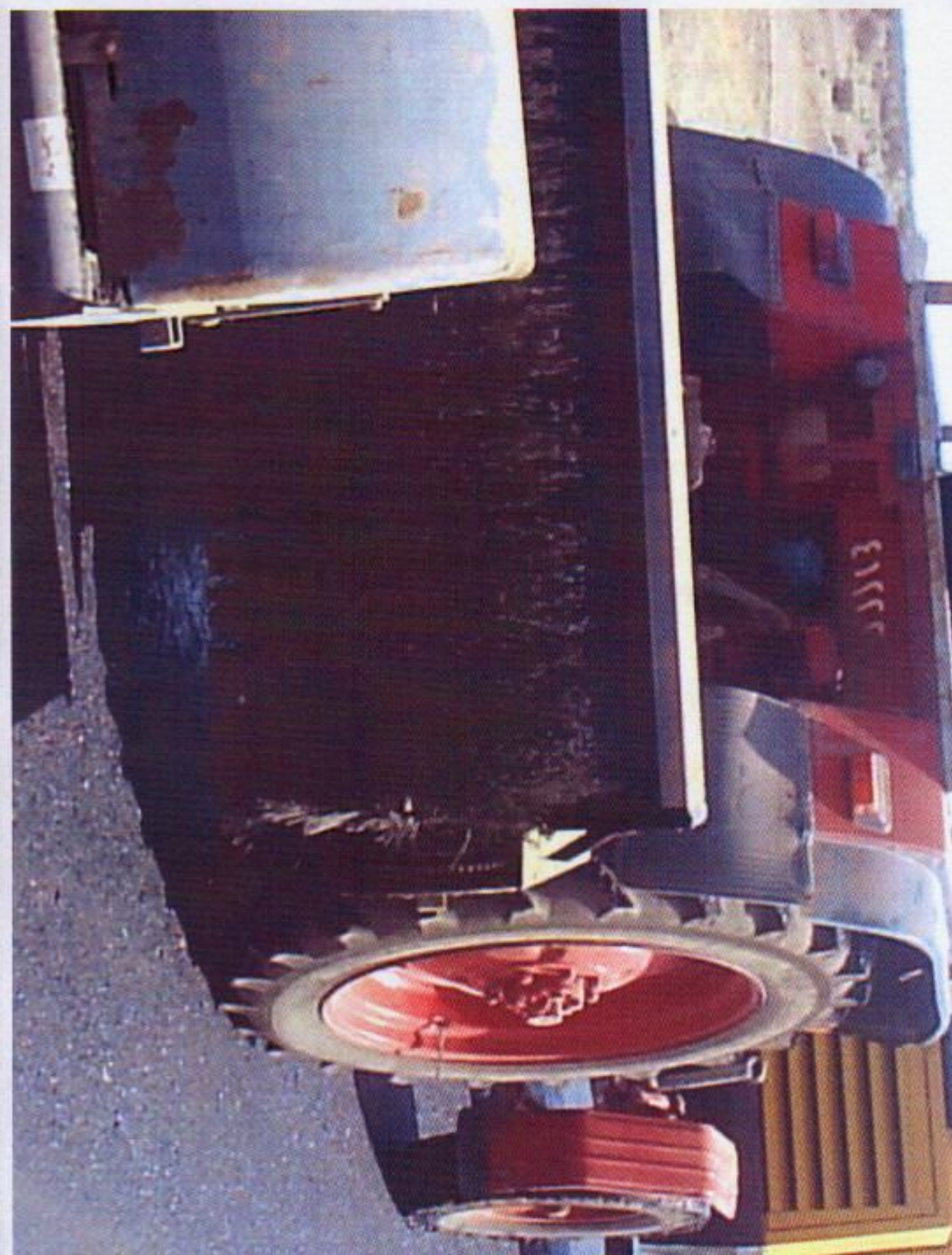


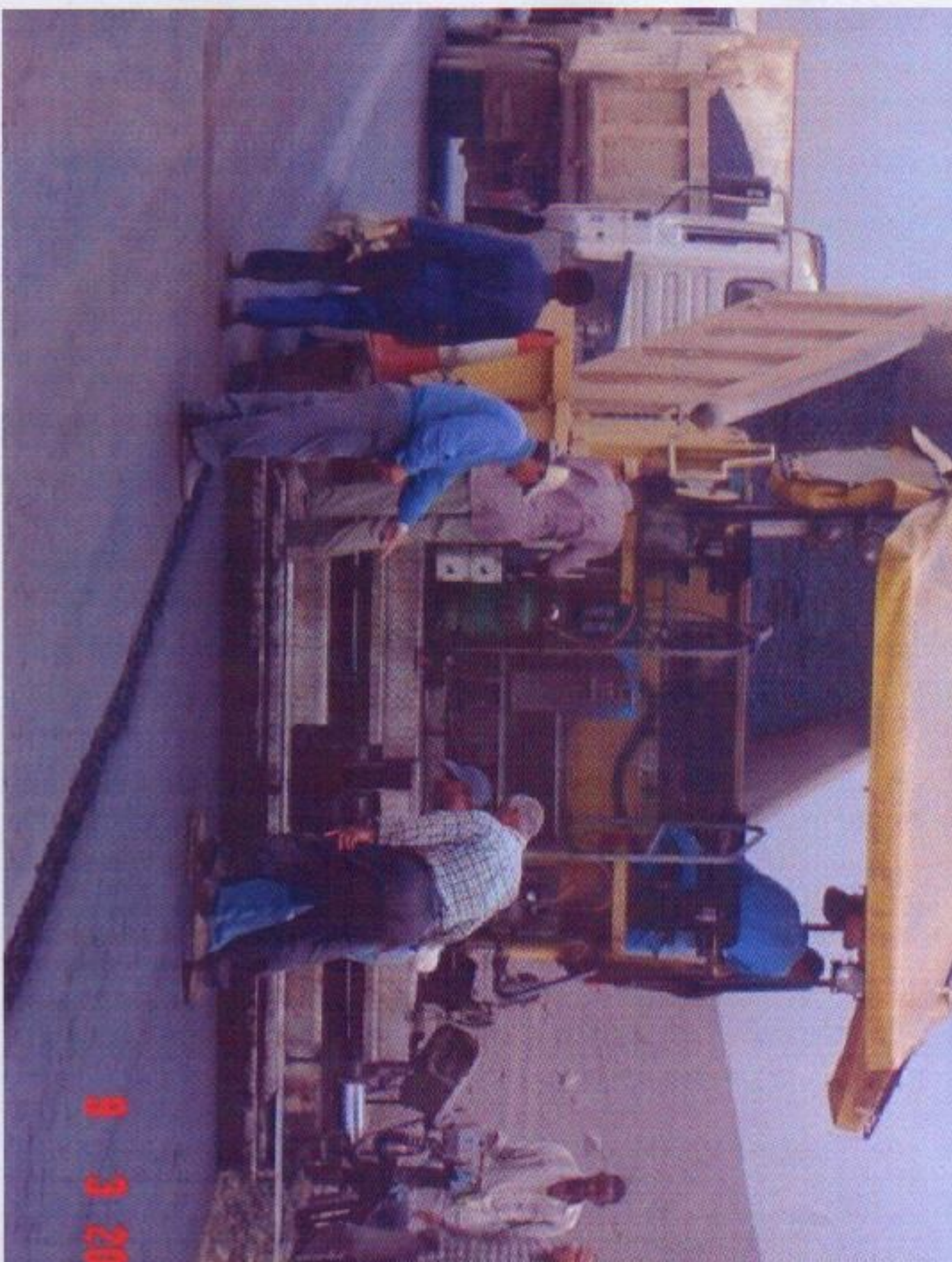




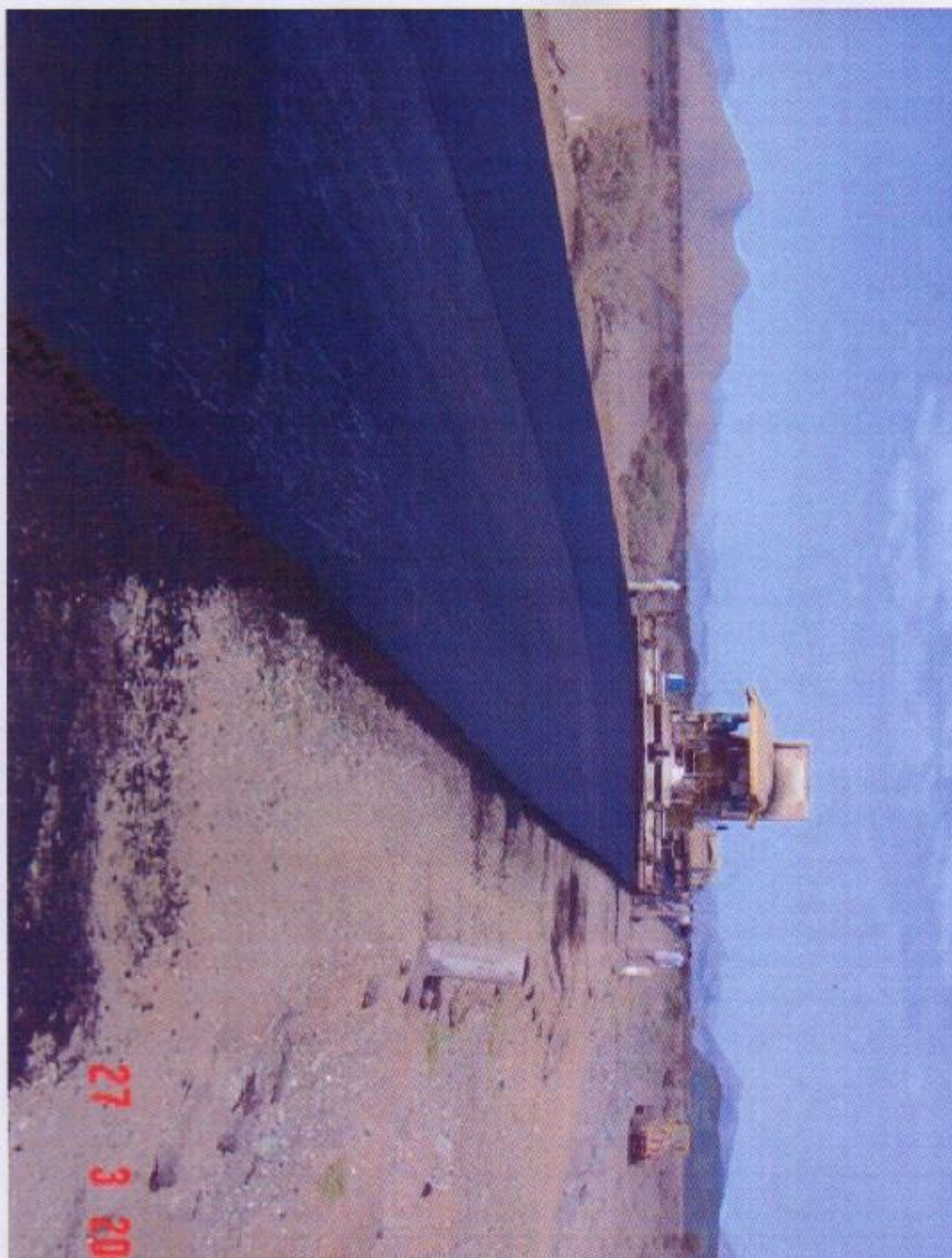








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28 2 20



28 2 20

