Military Geologists and the German Afrika Korps 1940-43

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Outline

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- German Military Engineers
- Afrika Korps
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German Military Engineer School



The building was a German military engineers' school in the late 30s.

Then, the site of the Armistice signing in May 1945.

Soviet General Marshall Zhukov also used it as his headquarters after World War II.

Military Engineer School







German Afrika Korps

- Commanded by Field Marshal Erwin Rommel
- Operated in Africa from 1941 –
 1943
- Operation Torch, Nov 1942, opened up a second front on the Afrika Korps
- Germans, surrounded at Tunis and Bizeret by land and sea, begin surrendering in May 1943
- FM Rommel was withdrawn to Greece in Mar 1943 to organize defenses there





Northern Africa Geography

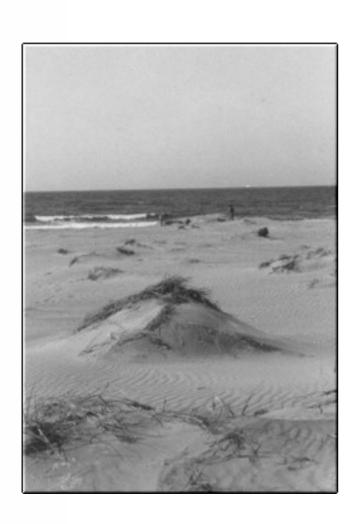


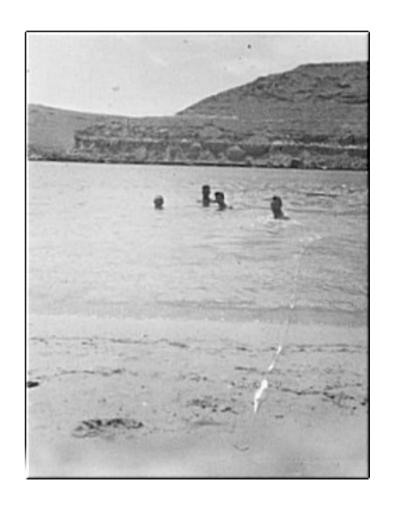






North African Geography





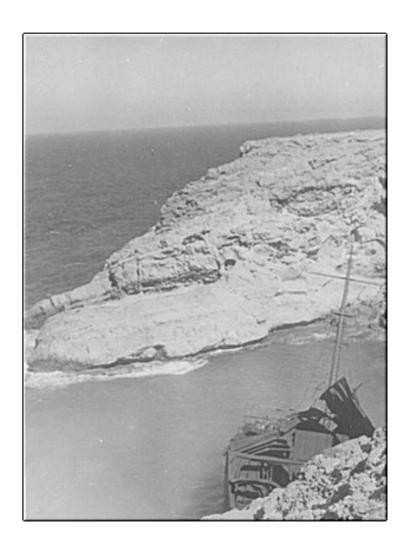


Terrain Feature Challenges

On land or at sea, the terrain challenged operations continuously.



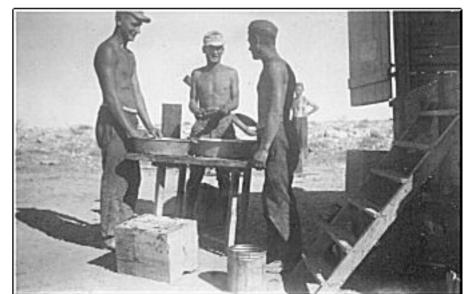
First widespread use of half tracks



Water Requirements



One person requires 1 gal/day of water in the desert.





Adapting to Environment



- Tents with flaps rolled up.
- R&R in Mediterranean



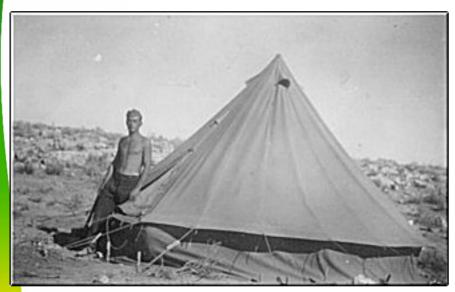
Adapt and Overcome



Germans used camels for logistics when possible.



Other Adaptions

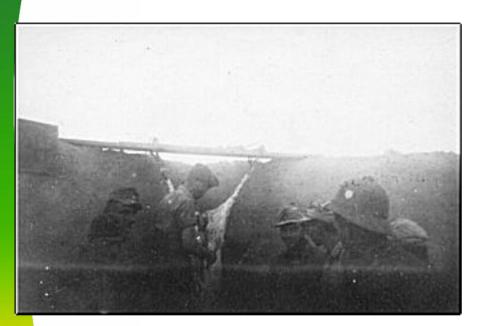


Dig, man, dig!





In the Trenches



Casualties in the African Campaign for the Germans totaled 18,594 killed and 3,400 missing.



Blitzkreig Engineers

- German military engineers, road builders, and demolition squads created paths for the German Army to move quickly.
- They blazed roads and paved highways to enable force mobility, using their armor effectively in a series of flanking maneuvers.



Assessing Trafficability



Tracked vehicles allowed far greater mobility through rough terrain and bomb damaged urban areas



Other Transportation Difficulties



Mud? In the desert?

The BMO at work.





The 5 gallon "Jerry Can" was developed by the Germans for their Afrika Korps





Finding Water



German geologists interviewed natives to find water sources.

Mixing materials





Rommel on inspection tour





SUMMARY

- Germans recognized importance of geological information during time of war by compiling comprehensive manual on War Geology in 1938.
- German geologists integral part of Army engineering activities in all theaters of World War II.
- Geologists also utilized in logistical support and design and construction of defensive works.
- Afrika Korps operations turned on logistical support, navigation and deception. Geologist's knowledge was incorporated into maneuver planning and positioning of defenses.



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