

Chrome Ore Mine and Beneficiation Plant in Turkey



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Mine Location



Mersin Port

Kayseri

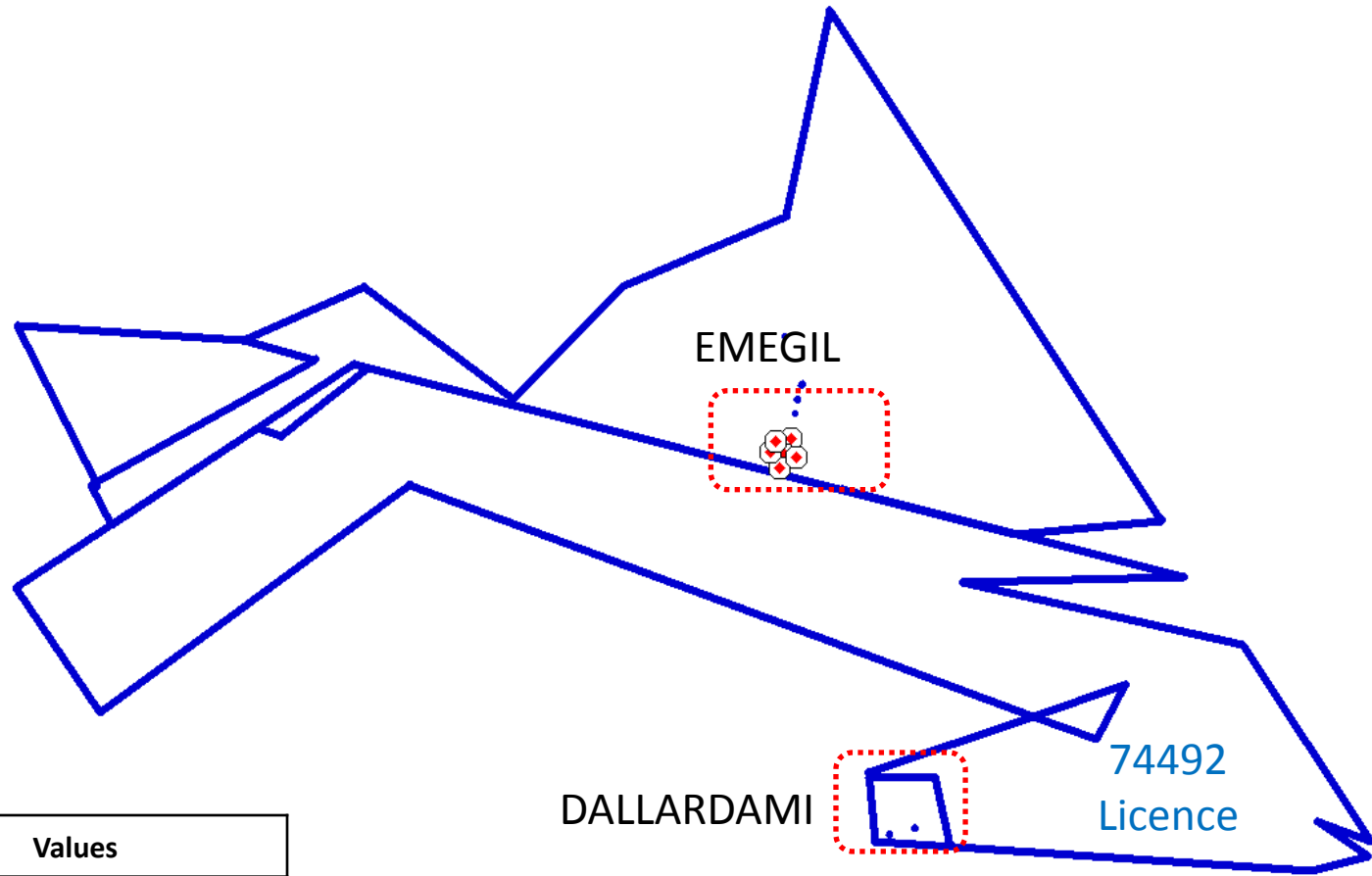
Road Distance of Mersin Port from based concession Kayseri area is 400 Kms

License No: 74492

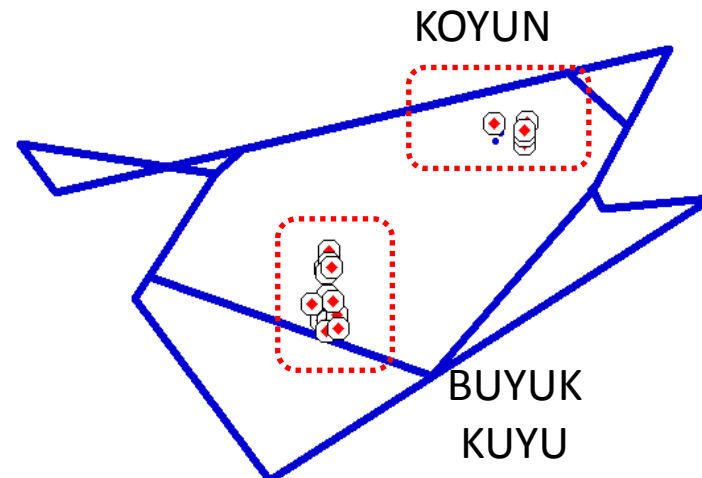
Pinarbasi District.

Kayseri Province

TURKEY



SN	Description	Values
1	Concession Total Area	572.00 Ha.
2	Operational License Area	118.57 Ha
4	Resource as per IMC	Around 6 Million Tons (initial estimate).



Resource Estimation carried out by IMC

❑ Resource Estimation for main ore bodies:

❖ After the final site visit by the Geologists and Mining Engineers by IMC, the Consulting Company, IMC estimated the following resources.

Resource estimation for Main Ore Body or the lumpy ore, estimated to be 0.73 MT with Cr_2O_3 between 36% to 48%. Out of it IMC estimated around 0.2 MT which is Directly Saleable Ore (DSO). And around 5 MT shall be Ore with about 5-10% Cr_2O_3 . This shall be the feed for concentrator plant and the concentrate grade is expected to be 46-48 Cr_2O_3

At this stage, no underground mine planning is done owing to the fact that the host rock Dunite, contains disseminated Chrome ore and can be treated as low grade ores for beneficiation through Concentrator. After extensive exploration and survey planning for underground mining shall be done for exploitation of high grade ore.

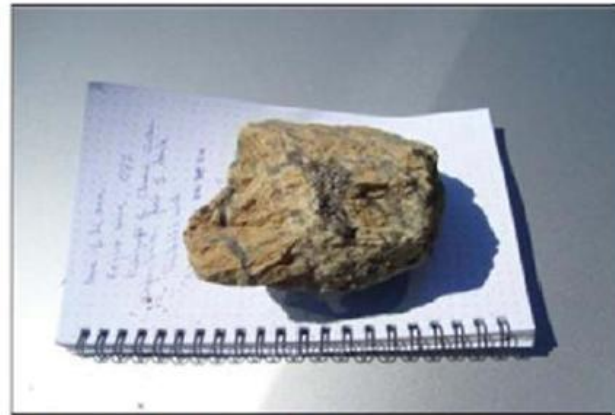
❑ Resource Estimation for Low grade chrome ore resources:

❖ Resources for total Low grade is estimated as 550,000 TPY for 10 years which accounts to be around 6 million ton.

Ore Mineralization



Disseminated Cr ore within Dunite, Kayseri area



Cr ore in Koyum, within dunite



Cr ore associated with magnetite within dunite. Kuchuku Kuo, Kayseri



Changing direction of Cr ore within dunite

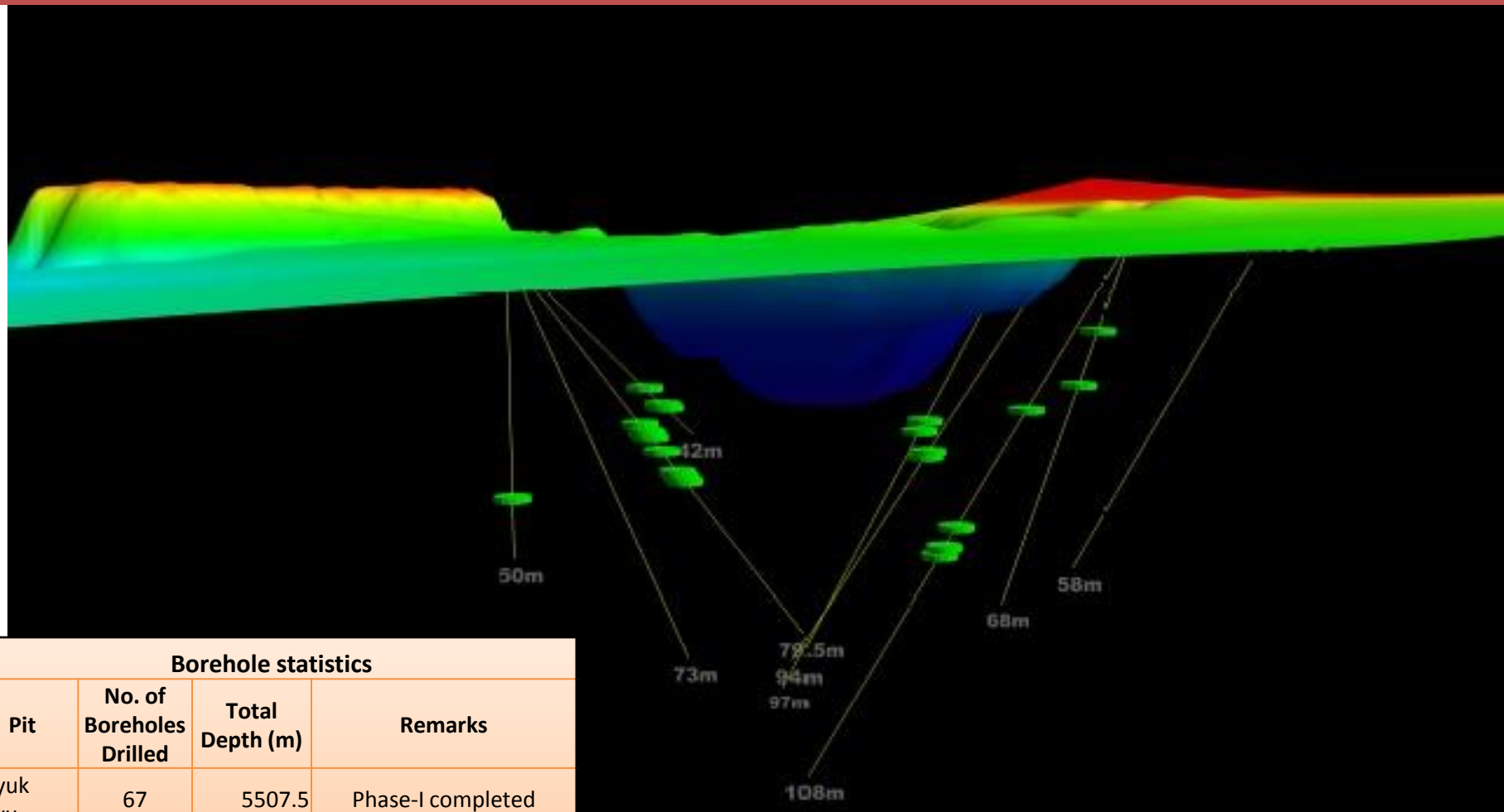
Geology and Drilling program

- ❑ The Pinerbasi Ophiolite belt falls within the Tethyan Ophiolite belt which is one of the longest Ophiolite belts in the world, extending from Spain to the Himalayas. The Geochemistry, Genesis and geological time scale of the Ophiolite belt varies from west to east. It shows its maximum development in Turkey.
- ❑ Tectonites are represented in Pınarbaşı region by Dunite, Harzburgites.
- ❑ We have procured a drilling machine from Sonmak and have undertaken extensive program in 90 pits and over 8000 mtr in the past 18 months in all the concessions of the license.



There are four pits are consider for excavation in the license area. Among all, Koyun pit is taken into consideration for the excavation process.

3D Map of Koyun pit showing Exploration drill holes (looking due North)



Borehole statistics

Pit	No. of Boreholes Drilled	Total Depth (m)	Remarks
Buyuk Kuyu	67	5507.5	Phase-I completed
Emegil	19	1724.0	Phase-I completed
Koyun	9	700.5	In progress
Dallardami	0	0	Proposed
Total		7932.0	

Mine Development

BUYUK KUYU Before & After Operations



KOYUN MINE Before & After Operations



Koyun Mines Excavation: Looking towards North

Koyun mines: Ore body- looking towards west

The Beneficiation plant and chrome conc



Crusher Section

Rod Mill



Shaking Tables



Chrome Conc



COB Plant and office



Thank You