TÜRKİYE CUMHURİYETİ ENERJİ VE TABIİ KAYNAKLAR BAKANLIĞI

REPUBLIC OF TURKEY MINISTRY OF ENERGY AND NATURAL RESOURCES

ELAZIĞ-KUZOVA

HIDROJEOLOJÍK ETÜT RAPORU

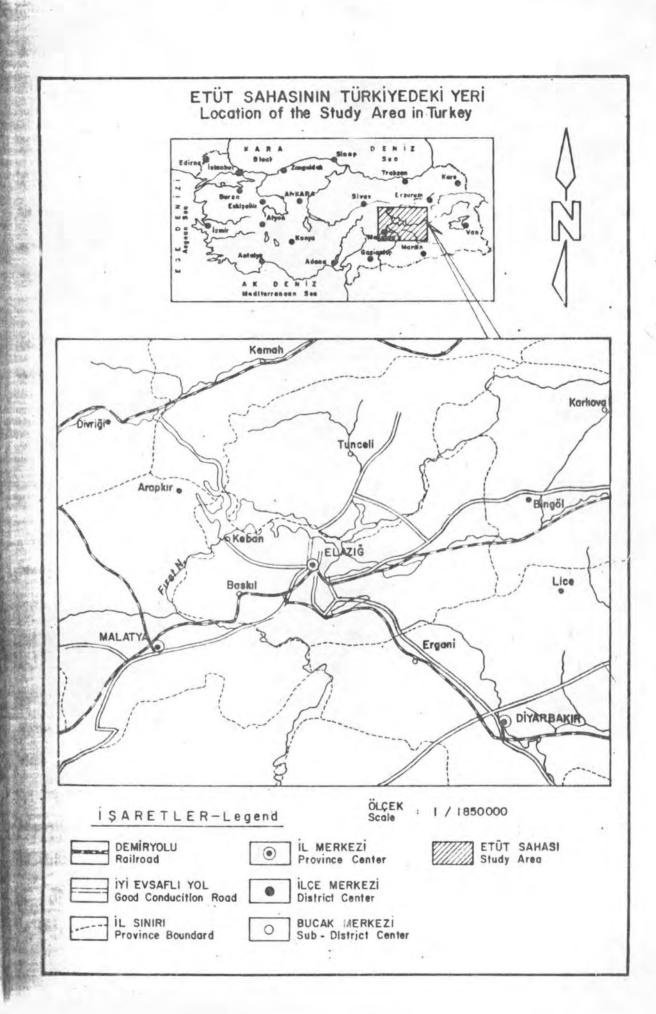
ELAZIĞ - KUZOVA

HYDROGEOLOGICAL INVESTIGATION REPORT

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DSİ BASIM VE FOTO - FİLM İŞLETME MÜDÜRLÜĞÜ MATBAASI A N K A R A — 1 9 7 8



Dummary :

Elazig-Kuzova plain is situated in the west of Elazig, between 30' - 39° 00' north latitudes and 39° 00' 39° 30' east longitudes. It is 10 kms far from Elazig. It lies in the north-south direction. The is surrounded by Murat river in the north and mountains and hills in the other parts. The investigation area covers 1090 sq kms. The is separated into three parts by the subordinate water divides. Important part is Hankendi and it covers 80 sq kms.

The climate of the area is continental. It is not and dry in summer, cold and snowy in winter. According to Elazig Meteorology Station, average man precipitation is 431.0 mm and average annual temperature is 12.9°C.

The area is underdeveloped in the economic progress. The agriculture primitive. Elazig Malatya Highway and rail-road pass through the area.

The base rocks are Jura- Cretaceous limestones at the bottom and Upper Cretaceous limestones at the top. The Eccene limestone, marl and alay; the Necgene formations and Alluvial material are placed over the lase. The Cenozoic basalts andesites and the Mesosoic serpentine are lasen in the area in some places.

The most important stream is Sarım (Cip) stream. There is a pond this stream in Cip Village. The other important streams are Seli stream, with stream. Murat river which is in the north of the area is the impolegical boundary of this area and Keban Dam's lake is spread over the part. Beşikçay is the important stream too. Ören (Hinsör) spring the most important stream of the area and it rises from Hankendi important. Besides that there are many other springs the discharges thich change according to the precipitation.

There were 24 bore-holes drilled in Kuzova and 16 of them are drilled by 181, 4 of them are drilled by YSE and 4 of them are drilled by iller

makes. The depths of the wells are between 25-250 m.

The water bearing formations of Hankendi plain are alluvium, Neogene material and reefold limestones of Upper Cretaceous. Alluvium and limestones are the water bearing formations of Dambüyük plain and especially the wells which are drilled in the Upper Cretaceous limestones contain abundant water.

The investigation area is separated into three sections by the suborlinate surface water divides. In this area only Hankendi and Dambüyük have the groundwater exploitation. For this reason the recharge and discharge calculations are only made for these areas and the groundwater badget is given below:

Groundwater Budget

A- Hankendi Section

Recharge X106 cu m/year	Discharge X106	cu m/year
Piltration from precipitation 11 Piltration from surface	.0 - To the streams - By the springs	2.5
run off 1.0	.0 - By evapotranspi	rati- 0.5
	- By artificial discharge	5.5
12.0	TOTAL	12.0

B- Beşikdüzü Section

(The groundwater budget is not available)

C- Dambiyük Section

Recharge X10 ⁶ cu m/year	Discharge X106 cu m/year	
Piltration from precipitation 1.5	- Inflow to the Keban Dam's Lake 1.5	
- Piltration from surface run off 1.0	- By the springs 1.0	
10TAL 2.5	TOTAL 2.5	

The annual safety yield of Hankendi plain is 8.5×10^6 cu m and Dambüyük plain 1.5×10^6 cu m.

The groundwater quality of the wells is usually good. Their category is C2S1 irrigation class.

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Translated by Ayşegül KEÇİK