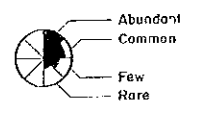
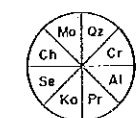
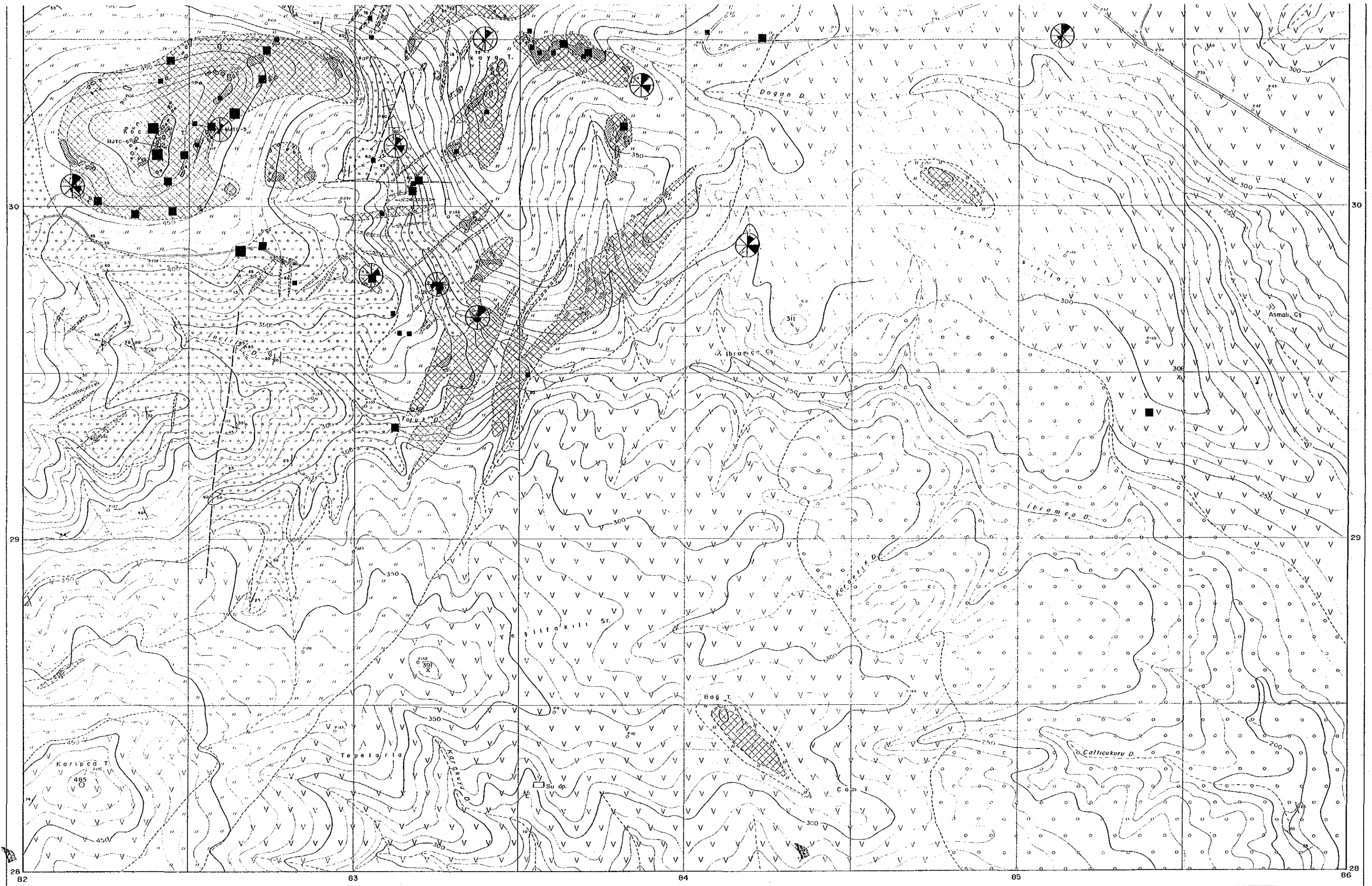
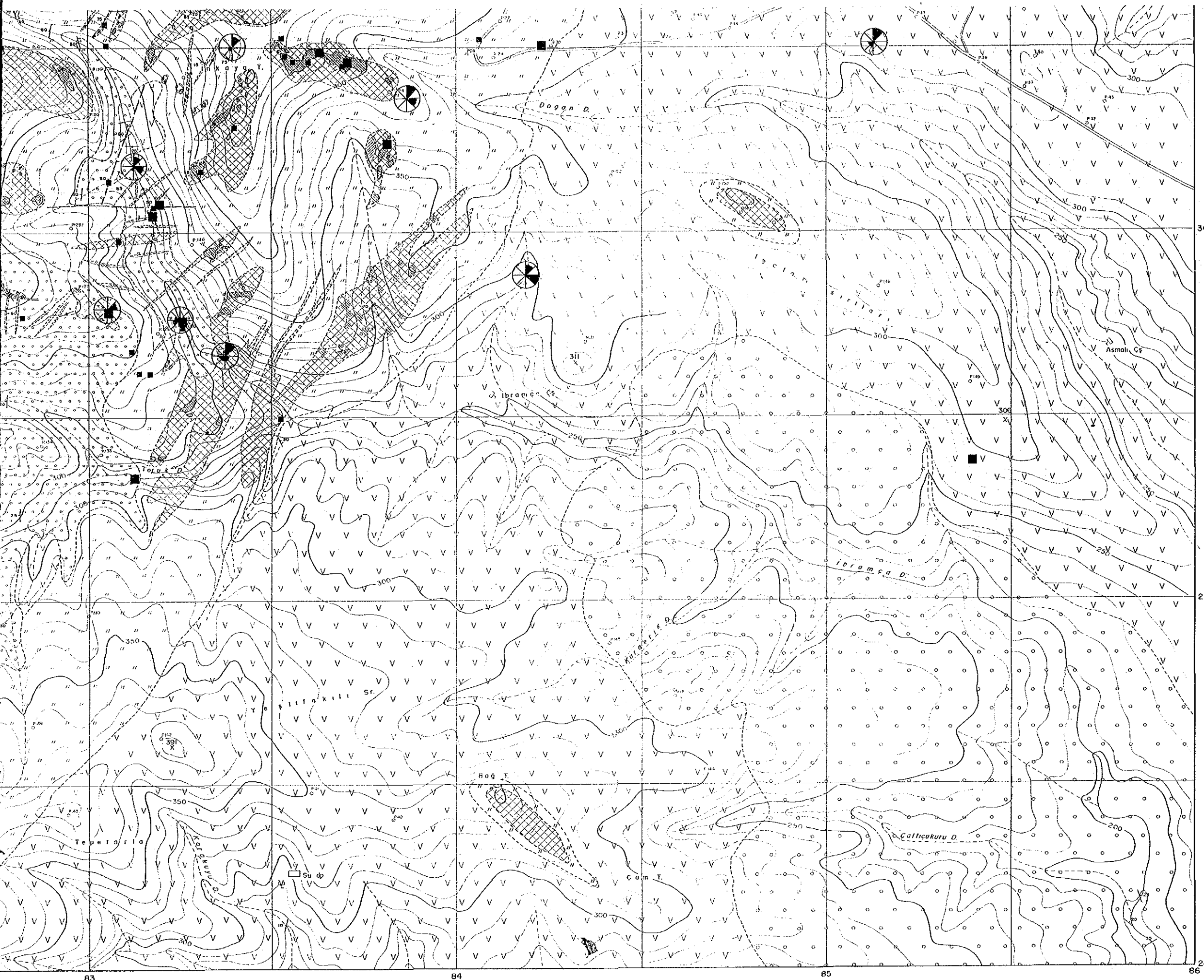


- L E G E N D
- |            |                      |                               |  |
|------------|----------------------|-------------------------------|--|
| Holocene   | Kocaçakıl Basalt     | [A A A]                       | Basalt lava  |
|            | Karaköy F.           | [O O O]                       | Conglomerate, sandstone and mudstone               |
| Miocene    | Şapçı Vol.           | [V V V]                       | Andesite lava with its pyroclastics                |
| Jurassic   | Kirazlı Conglomerate | [O O O]                       | Conglomerate, mudstone with sandstone              |
| Triassic   | Taşdibek F.          | [Wavy]                        | Meta-volcanics                                     |
| Alteration |                      | [Cross-hatch]                 | Strongly silicified body                           |
|            |                      | [Diagonal-hatch]              | Medium silicified, and argillized zone and/or body |
|            |                      | [Grid]                        | Silicified and argillized zone                     |
|            |                      | [Wavy]                        | Argillized zone                                    |
|            | [Dashed line]        | Probable fault                |  |
|            | [Line with arrow]    | Strike and dip of fault       |  |
|            | [Line with arrow]    | Strike and dip of bedding     |  |
|            | [Line with arrow]    | Strike and dip of schistosity |  |
|            | [Line with arrow]    | Strike and dip of joint       |  |
|            | [Circle]             | Fossil                        |  |
|            | [Triangle]           | Trench                        |  |
|            | [Star]               | Drilling site                 |  |
- 
- |                      |          |
|----------------------|----------|
| Qz : Quartz          | Abundant |
| Cr : Cristobalite    | Common   |
| Al : Alunite         | Few      |
| Pr : Pyrophyllite    | Rare     |
| Ka : Kaoline         |          |
| Se : Sericite        |          |
| Ch : Chlorite        |          |
| Mo : Montmorillonite |          |

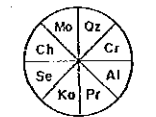




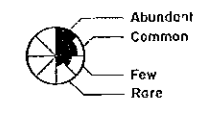


**LEGEND**

- |            |                      |  |  |
|------------|----------------------|--|--|
| Holocene   | Kocaçaklı Basalt     |  | Basalt lava  |
|            | Karaköy F.           |  | Conglomerate, sandstone and mudstone               |
| Miocene    | Şapçı Vol.           |  | Andesite lava with its pyroclastics                |
| Jurassic   | Kirazlı Conglomerate |  | Conglomerate, mudstone with sandstone              |
| Triassic   | Tagdıbek F.          |  | Meta-volcanics                                     |
| Alteration |                      |  | Strongly silicified body                           |
|            |                      |  | Medium silicified, and argillized zone and/or body |
|            |                      |  | Silicified and argillized zone                     |
|            |                      |  | Argillized zone                                    |
|            |                      |  | Probable fault                                     |
|            |                      |  | Strike and dip of fault                            |
|            |                      |  | Strike and dip of bedding                          |
|            |                      |  | Strike and dip of schistosity                      |
|            |                      |  | Strike and dip of joint                            |
|            |                      |  | Fossil   |
|            |                      |  | Trench   |
|            |                      |  | Drilling site                                      |

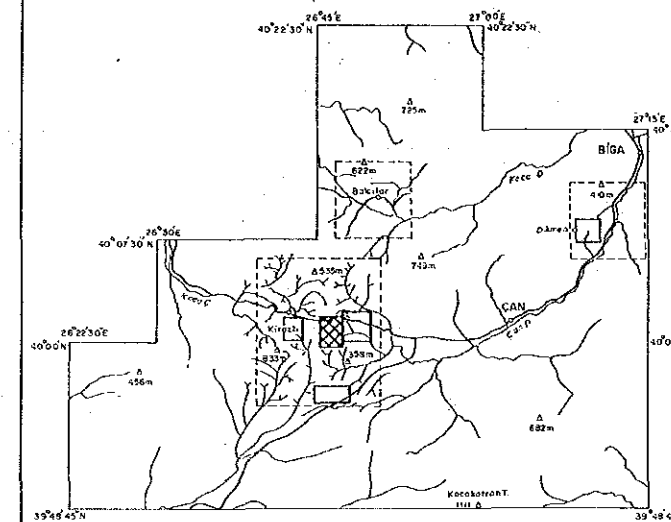


Qz : Quartz  
 Cr : Cristobalite  
 Al : Alunite  
 Pr : Pyrophyllite  
 Ka : Kaolinite  
 Se : Sericite  
 Ch : Chlorite  
 Mo : Montmorillonite



- 100 ppb Au 50 ppb Ag
- 500 ppb Au 100 ppb Ag
- 500 ppb Au

REPORT ON THE MINERAL EXPLORATION  
IN THE ÇANAKKALE AREA, THE REPUBLIC OF TURKEY  
GOLD OCCURRENCE MAP  
OF  
THE KARABRAHİMLER AREA



FEBRUARY 1990

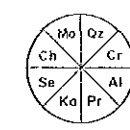
JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN

Scale 1 : 5,000

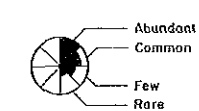


LEGEND

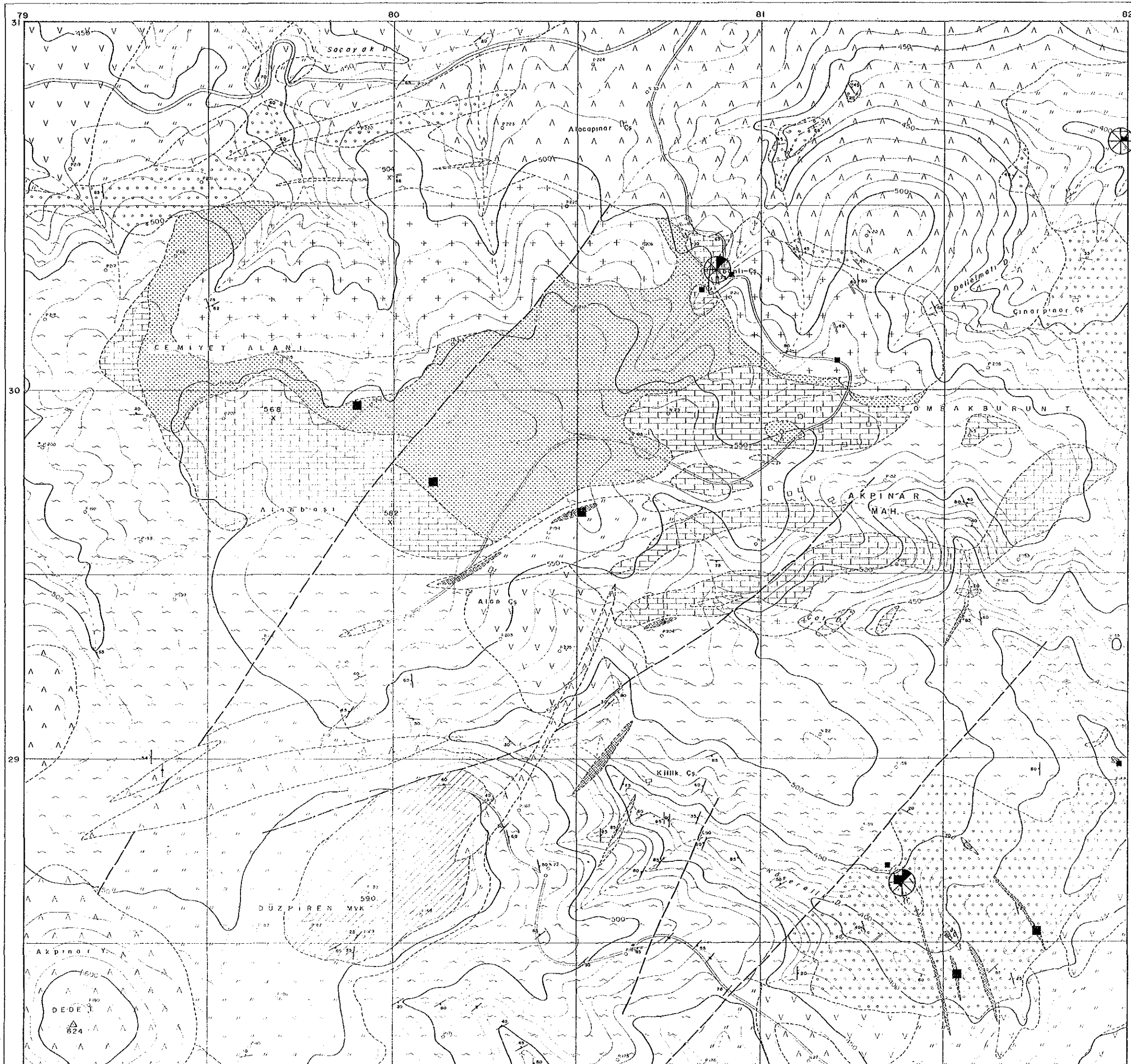
- Holocene Kocaçakal Basalt Basalt lava and dyke
- Miocene Şapçı Vol. Andesite lava with its pyroclastics
- Jurassic Kirazlı Conglomerate Conglomerate, mudstone and sandstone
- Triassic Taşlıbek F. Akpınar granite
- Meta-volcanics with meta-sediments
- Crystalline limestone
- Strongly silicified body
- Alteration Medium silicified, and argillized zone and/or body
- Argillized zone
- Mineralization Skarn zone (garnet, hematite)
- Probable fault
- Strike and dip of fault
- Strike and dip of bedding
- Strike and dip of schistosity
- Strike and dip of joint
- Strike and dip of quartz-py vein
- Trench

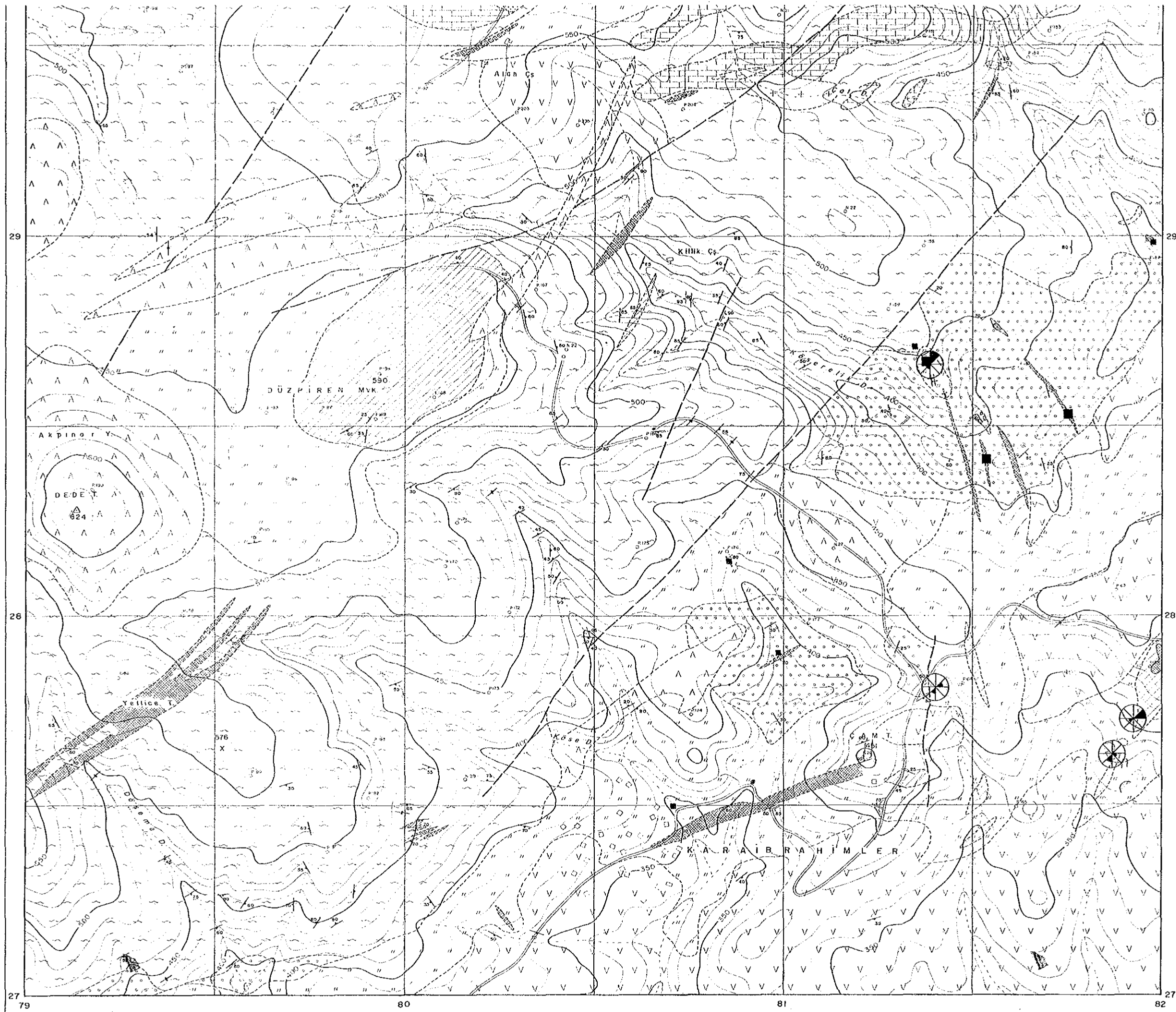


Qz : Quartz  
Cr : Cristobalite  
Al : Alunite  
Pr : Pyrophyllite  
Ka : Kaoline  
Se : Sericite  
Ch : Chlorite  
Mo : Montmorillonite



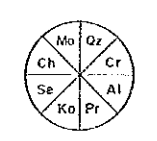
■ 100 ppb > Au ≥ 50 ppb



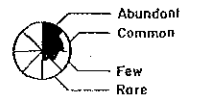


LEGEND

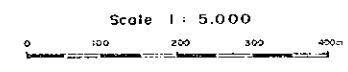
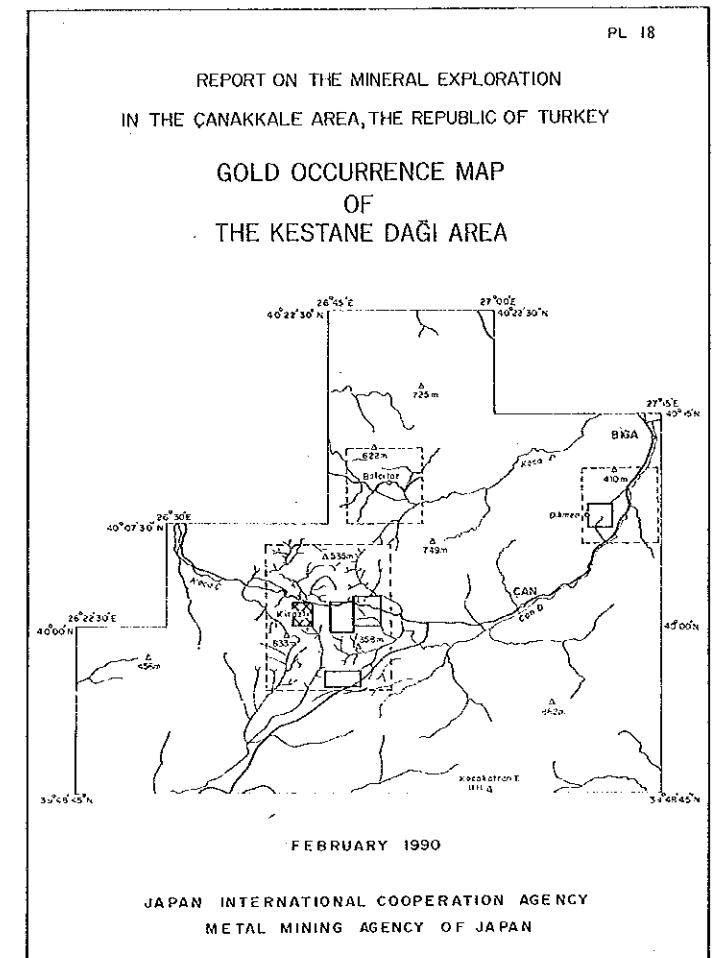
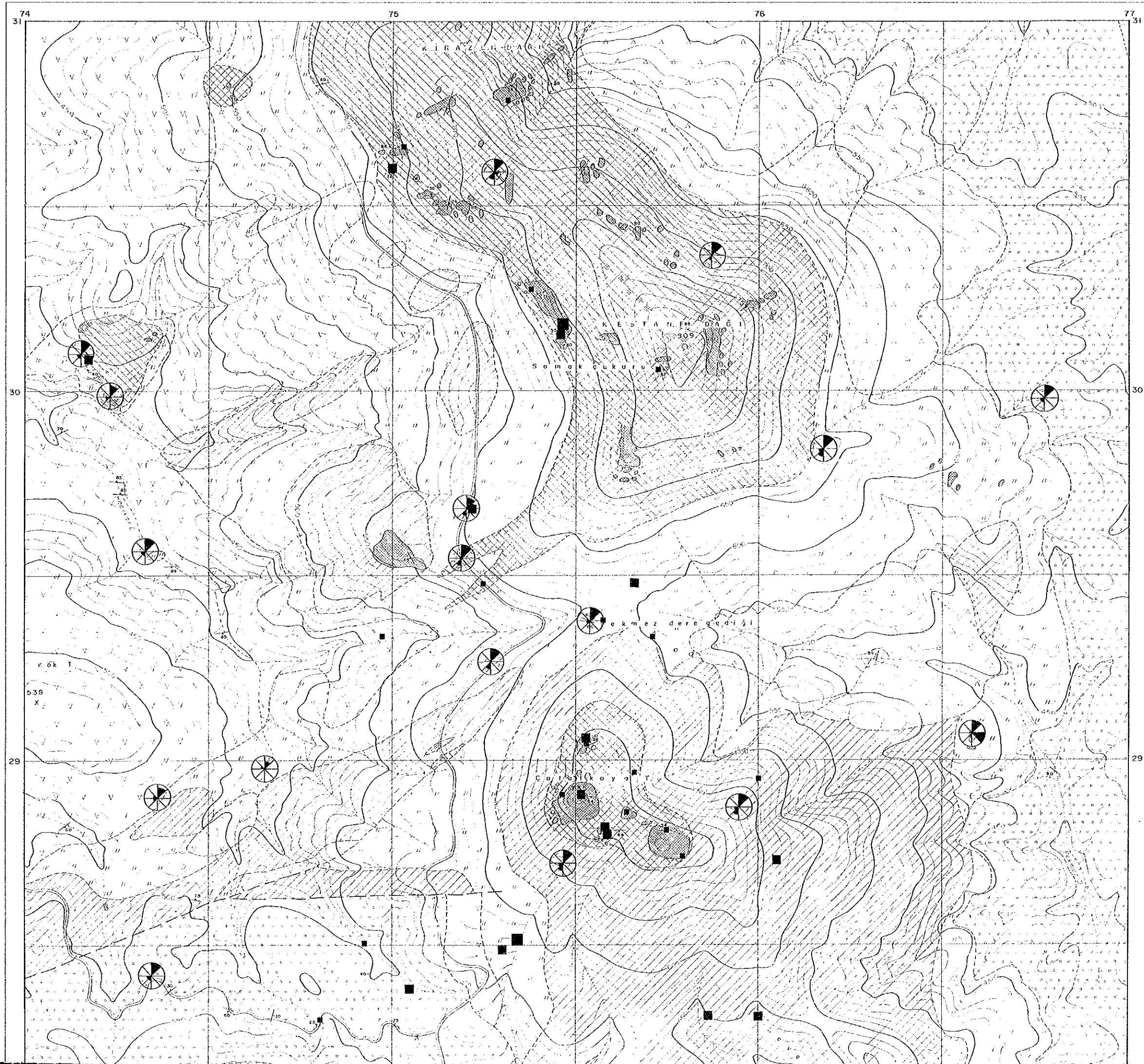
- Holocene Kocaçakıt Basalt Basalt lava and dyke
- Miocene Şapçı Vol. Andesite lava with its pyroclastics
- Jurassic Kirazlı Conglomerate Conglomerate, mudstone and sandstone
- Triassic Taşdıbek F. Akşinar granite
- Meta-volcanics with meta-sediments
- Crystalline limestone
- Strongly silicified body
- Alteration: Medium silicified, and argillized zone and/or body
- Argillized zone
- Mineralization Skarn zone (garnet, hematite)
- Probable fault
- Strike and dip of fault
- Strike and dip of bedding
- Strike and dip of schistosity
- Strike and dip of joint
- Strike and dip of quartz-py vein
- Trench



Qz : Quartz  
 Cr : Cristobalite  
 Al : Alunite  
 Pr : Pyrophyllite  
 Ka : Kaoline  
 Se : Sericite  
 Ch : Chlorite  
 Mo : Montmorillonite

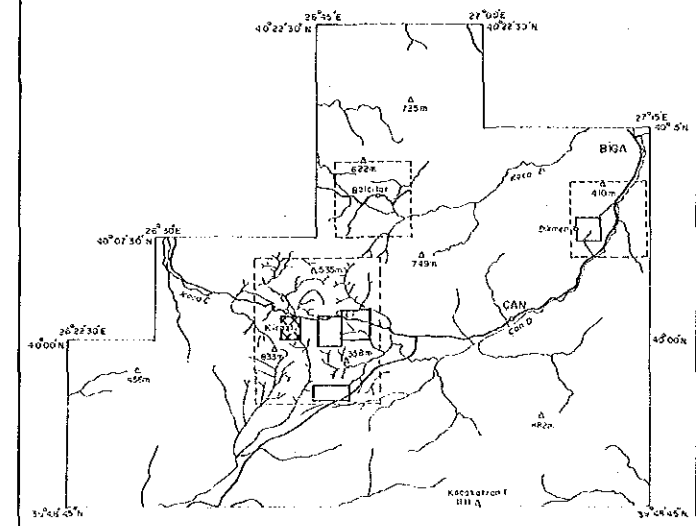


- 100 ppb > Au ≥ 50 ppb
- 500 ppb > Au ≥ 100 ppb
- 500 ppb ≥ Au



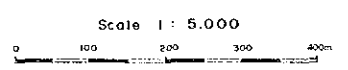
- LEGEND**
- |            |                      |                               |                                      |
|------------|----------------------|-------------------------------|--------------------------------------|
| Holocene   | Talus breccia        |                               | Ereccia and sand                     |
| Miocene    | Şapçı Vol.           |                               | Andesite lava with its pyroclastics  |
| Jurassic   | Kirazlı Conglomerate |                               | Conglomerate, sandstone and mudstone |
| Triassic   | Taşdibek F.          |                               | Meta-volcanics                       |
| Alteration |                      |                               | Strongly silicified body             |
|            |                      |                               | Medium silicified body               |
|            |                      |                               | Silicified and argillized zone       |
|            |                      |                               | Argillized zone                      |
|            |                      | Probable fault                |                                      |
|            |                      | Strike and dip of fault       |                                      |
|            |                      | Strike and dip of bedding     |                                      |
|            |                      | Strike and dip of joint       |                                      |
|            |                      | Strike and dip of quartz vein |                                      |
|            |                      | Fossil                        |                                      |
- 
- |  |                      |          |
|--|----------------------|----------|
|  | Qz : Quartz          | Abundant |
|  | Cr : Cristobalite    | Common   |
|  | Al : Alunite         |          |
|  | Pr : Pyrophyllite    |          |
|  | Ka : Kaoline         |          |
|  | Se : Sericite        | Few      |
|  | Ch : Chlorite        | Rare     |
|  | Mo : Montmorillonite |          |
- 
- |  |                         |  |                    |
|--|-------------------------|--|--------------------|
|  | 100 <sup>ppb</sup> > Au |  | 50 <sup>ppb</sup>  |
|  | 500 <sup>ppb</sup> > Au |  | 100 <sup>ppb</sup> |
|  | 500 <sup>ppb</sup> > Au |  |                    |

THE KESTANE DAĞI AREA



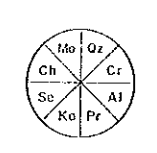
FEBRUARY 1990

JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN

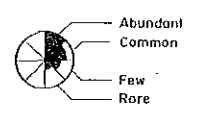


LEGEND

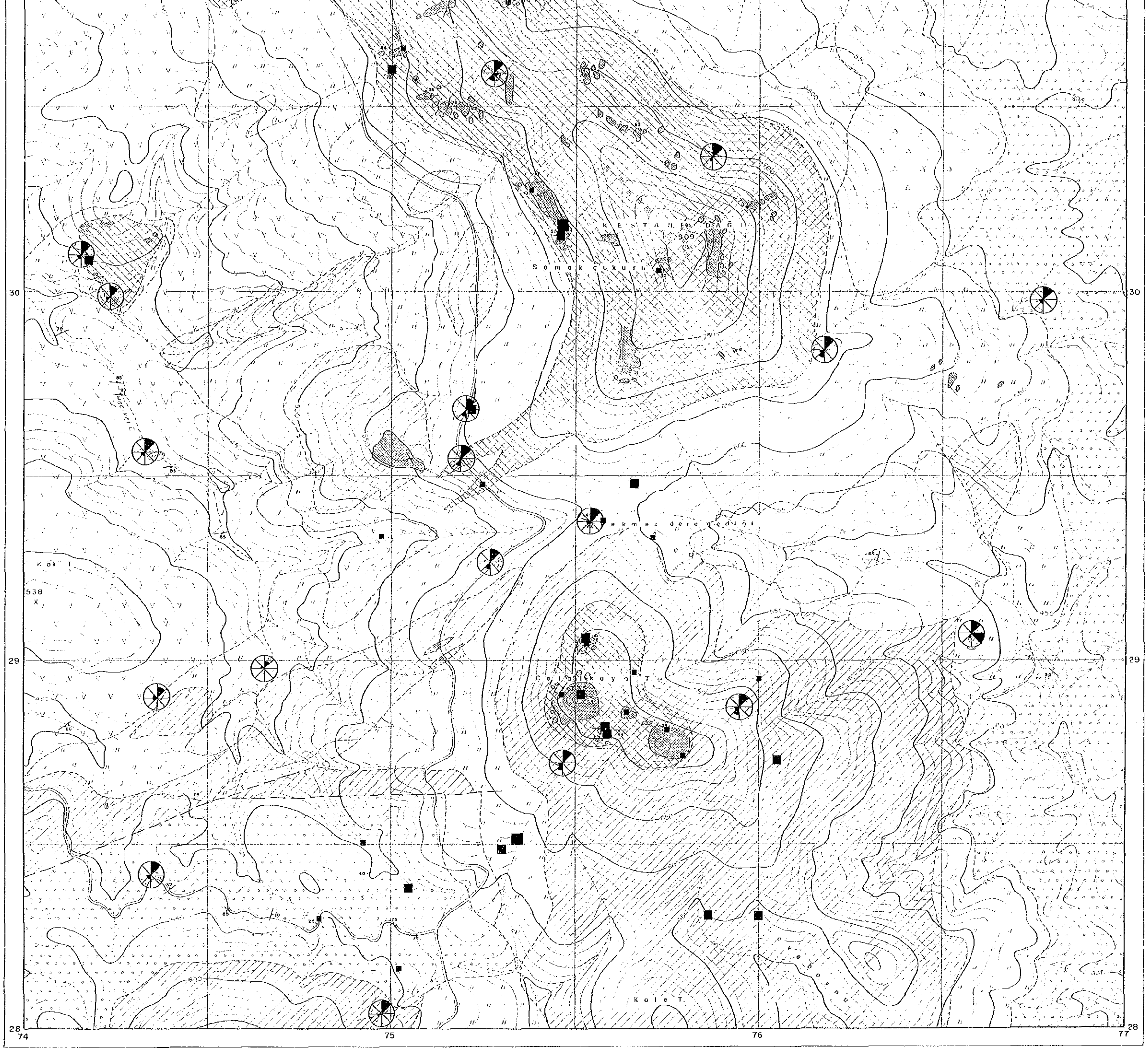
- Holocene Tatus breccia [Symbol]
- Miocene Şapçı Vol. [Symbol]
- Jurassic Kirazlı Conglomerate [Symbol]
- Triassic Taşdibek F. [Symbol]
- Alteration:
  - Strongly silicified body [Symbol]
  - Medium silicified body [Symbol]
  - Silicified and argillized zone [Symbol]
  - Argillized zone [Symbol]
- Probable fault [Symbol]
- Strike and dip of fault [Symbol]
- Strike and dip of bedding [Symbol]
- Strike and dip of joint [Symbol]
- Strike and dip of quartz vein [Symbol]
- Fossil [Symbol]



Oz : Quartz  
Cr : Cristobalite  
Al : Alunite  
Pr : Pyrophyllite  
Ka : Kaolinite  
Se : Sericite  
Ch : Chlorite  
Mo : Montmorillonite

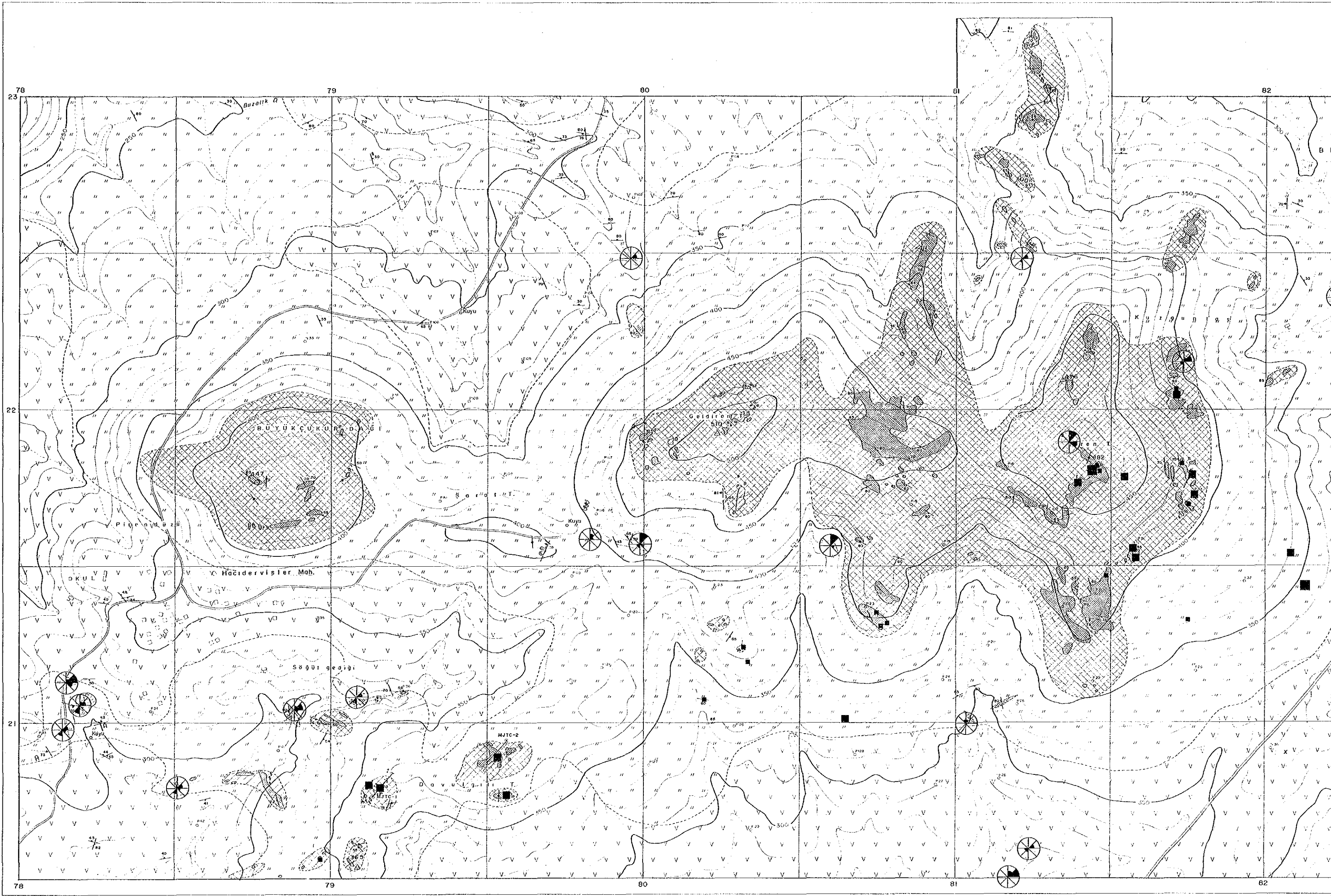


- 100 ppb > Au BY 50 ppb
- 500 ppb > Au BY 100 ppb
- 500 ppb > Au



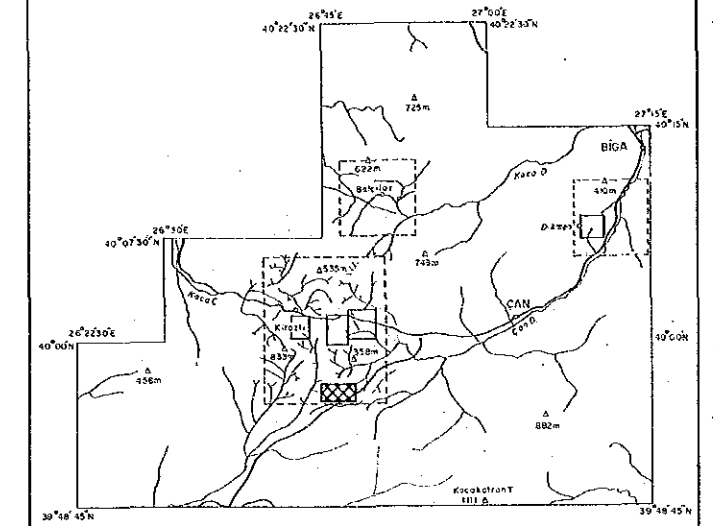
74 75 76 77





REPORT ON THE MINERAL EXPLORATION  
IN THE ÇANAKKALE AREA, THE REPUBLIC OF TURKEY

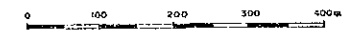
GOLD OCCURRENCE MAP  
OF  
THE PİREN TEPE AREA



FEBRUARY 1990

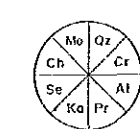
JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN

Scale 1 : 5,000

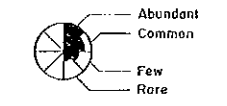


LEGEND

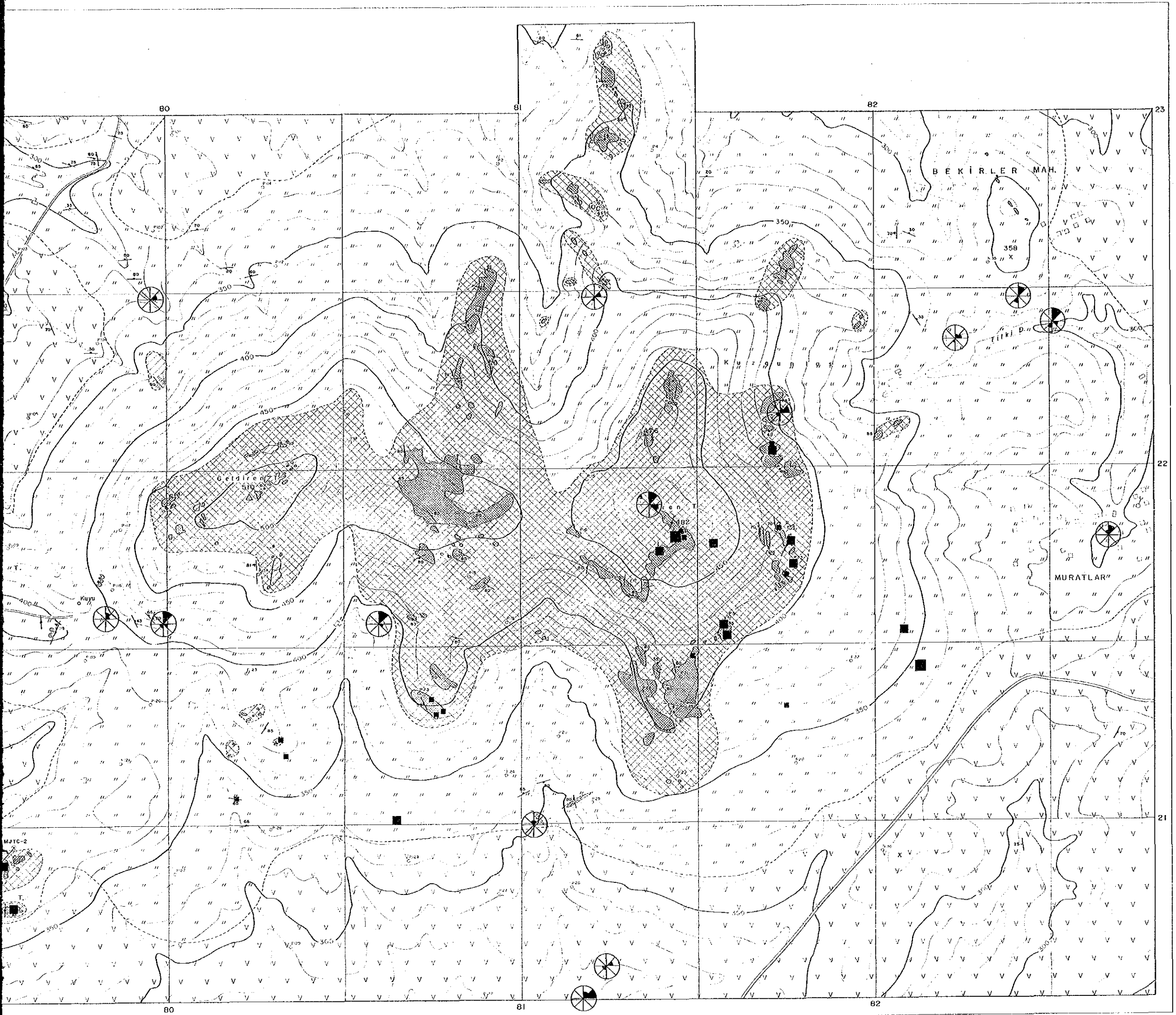
- Miocene Şapçı Vol. Andesite lava
- Strongly silicified body
- Medium silicified body
- Silicified and argillized zone
- Argillized zone
- Strike and dip of fault
- Strike and dip of flow banding
- Strike and dip of joint
- Underground
- Trench
- Drilling site

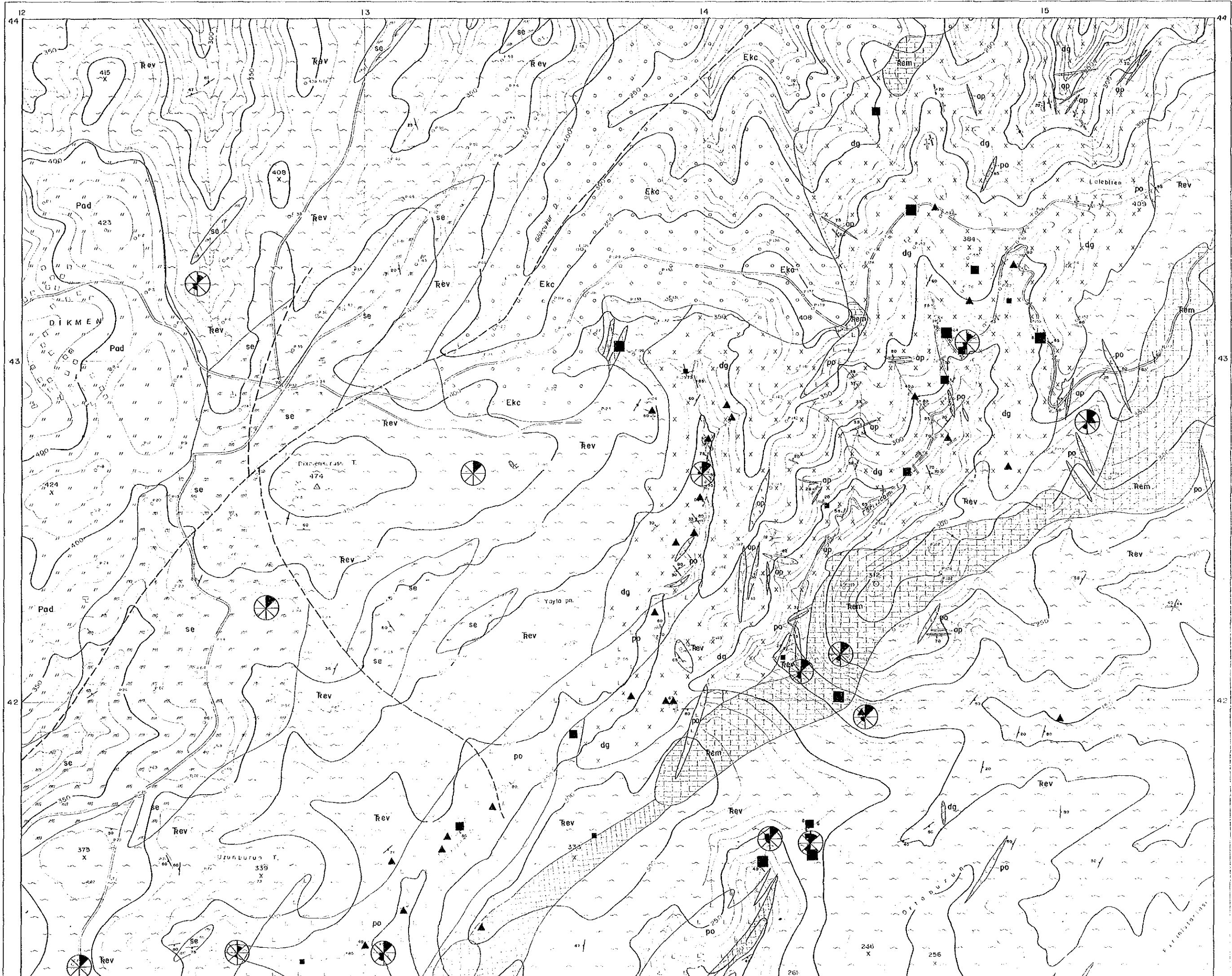


Qz : Quartz  
 Cr : Cristobalite  
 Al : Alunite  
 Pr : Pyrophyllite  
 Ka : Kaoline  
 Se : Sericite  
 Ch : Chlorite  
 Mo : Montmorillonite

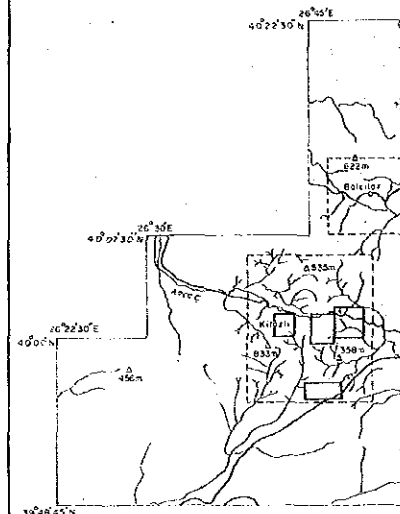


- 100 ppb > Au or 50 ppb
- 500 ppb > Au or 100 ppb
- 500 ppb > Au





REPORT ON THE MINERAL  
IN THE ÇANAKKALE AREA, THE RE  
GOLD OCCURENC  
OF  
THE DİKMEN A



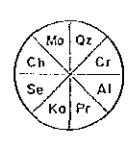
FEBRUARY 19

JAPAN INTERNATIONAL COOP  
METAL MINING AGENCY

Scale 1 : 50,000

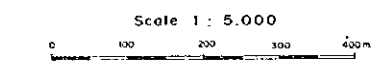
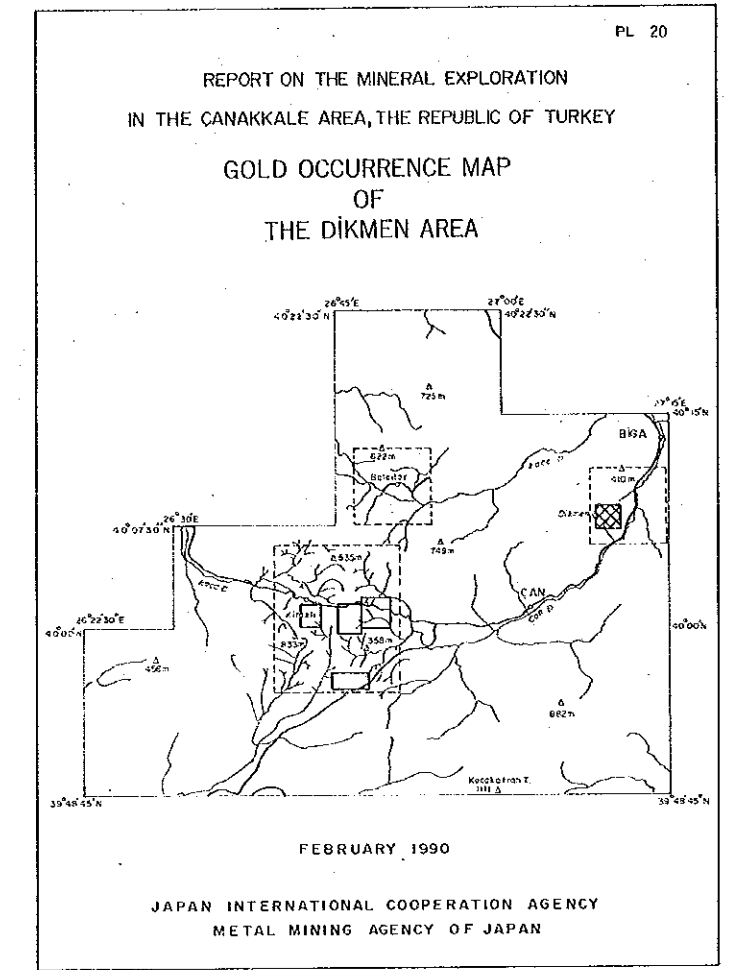
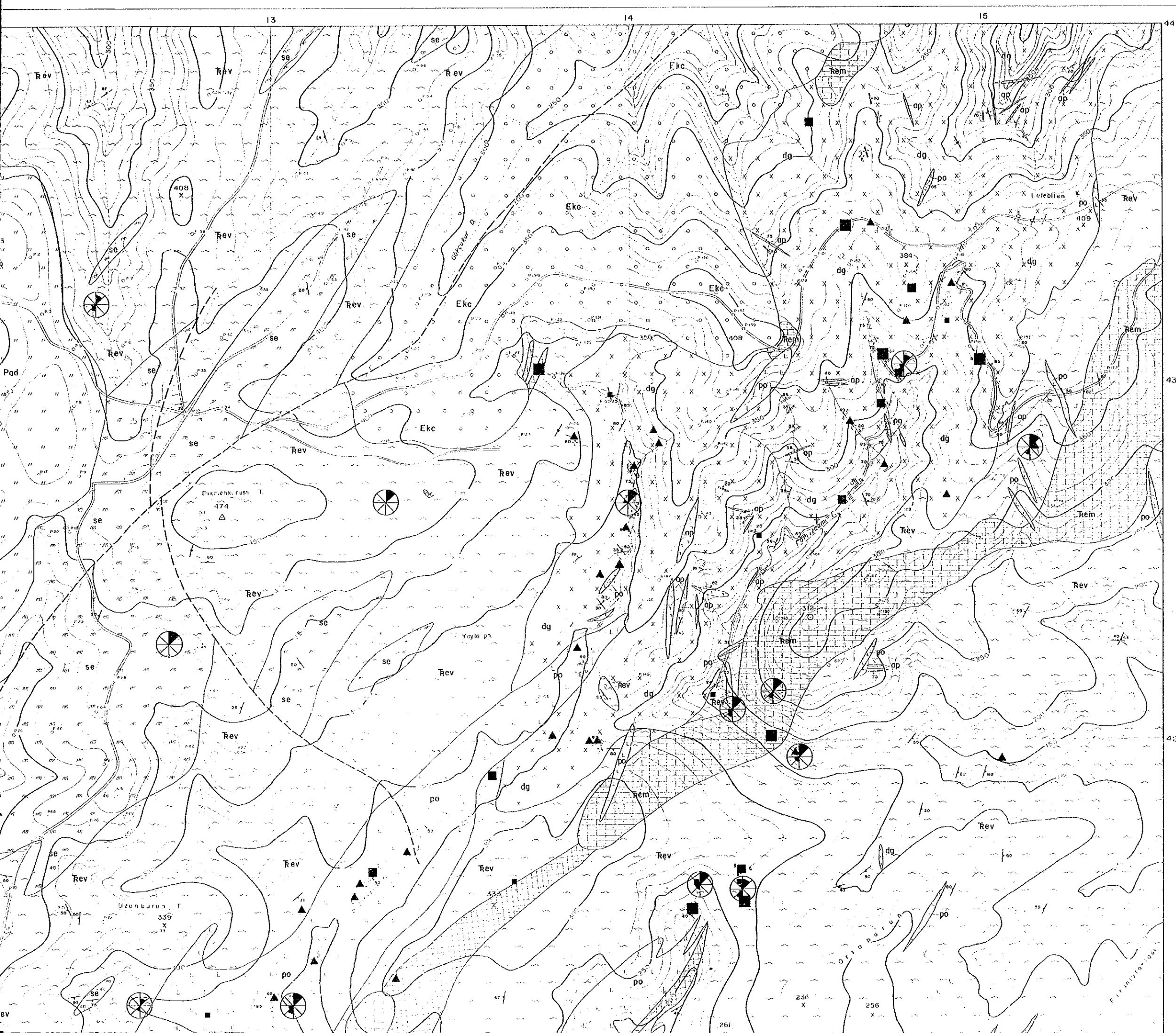
LEGEND

- |                 |                              |           |           |
|-----------------|------------------------------|-----------|-----------|
| Pliocene        | Akkayrak Vol.                | Pad       | Dacite an |
| Eocene          | Karanlık F.<br>(Kızılcık M.) | Ekc       | Conglomer |
| Triassic        | Emeşe F.                     | Rem       | Marble    |
|                 |                              | Rev       | Meta-voic |
| Intrusive rocks |                              | ap        | Aplite    |
|                 |                              | po        | Porphyry  |
|                 |                              | dg        | Dikmen g  |
|                 |                              | se        | Serpenti  |
| Mineralization  |                              | Skern zo  |           |
|                 |                              | Probable  |           |
|                 |                              | Strike or |           |
|                 |                              | Strike of |           |
|                 |                              | Strike or |           |
|                 |                              | Quartz v  |           |
|                 |                              | Trench    |           |

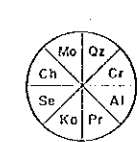


Oz : Quartz  
Cr : Cristobalite  
Al : Alunite  
Pr : Pyrophyllite  
Ko : Kooline  
Se : Sericite  
Ch : Chlorite  
Mo : Montmorillonite

100 ppb > Au ≥ 50 ppb



- LEGEND**
- |                 |                              |    |                 |                                   |
|-----------------|------------------------------|----|-----------------|-----------------------------------|
| Pliocene        | Akkayrak Vol.                |    | Pad             | Dacite and dacitic tuff           |
| Eocene          | Karalık F.<br>(Kızılıçık M.) |    | Ekc             | Conglomerate                      |
| Triassic        | Emeş F.                      |    | Rem             | Marble                            |
|                 |                              |    | Rev             | Meta-volcanics and meta-sediments |
|                 |                              |    | ap              | Aplite                            |
| Intrusive rocks |                              | po | Porphyry        |                                   |
|                 |                              | dg | Dikmen granite  |                                   |
|                 |                              | se | Serpentinite    |                                   |
| Mineralization  |                              |    | Skarn zone (Fe) |                                   |
- 
- |  |                               |
|--|-------------------------------|
|  | Probable fault                |
|  | Strike and dip of bedding     |
|  | Strike and dip of schistosity |
|  | Strike and dip of joint       |
|  | Quartz vein                   |
|  | Trench                        |
- 
- |  |                      |  |          |
|--|----------------------|--|----------|
|  | Oz : Quartz          |  | Abundant |
|  | Cr : Cristobalite    |  | Common   |
|  | Al : Alunite         |  | Few      |
|  | Pr : Pyrophyllite    |  | Rare     |
|  | Ka : Kaoline         |  |          |
|  | Se : Sericite        |  |          |
|  | Ch : Chlorite        |  |          |
|  | Mo : Montmorillonite |  |          |



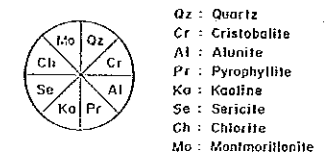
■ 100 Ppb > Au ≥ 50 Ppb

Scale 1 : 50,000

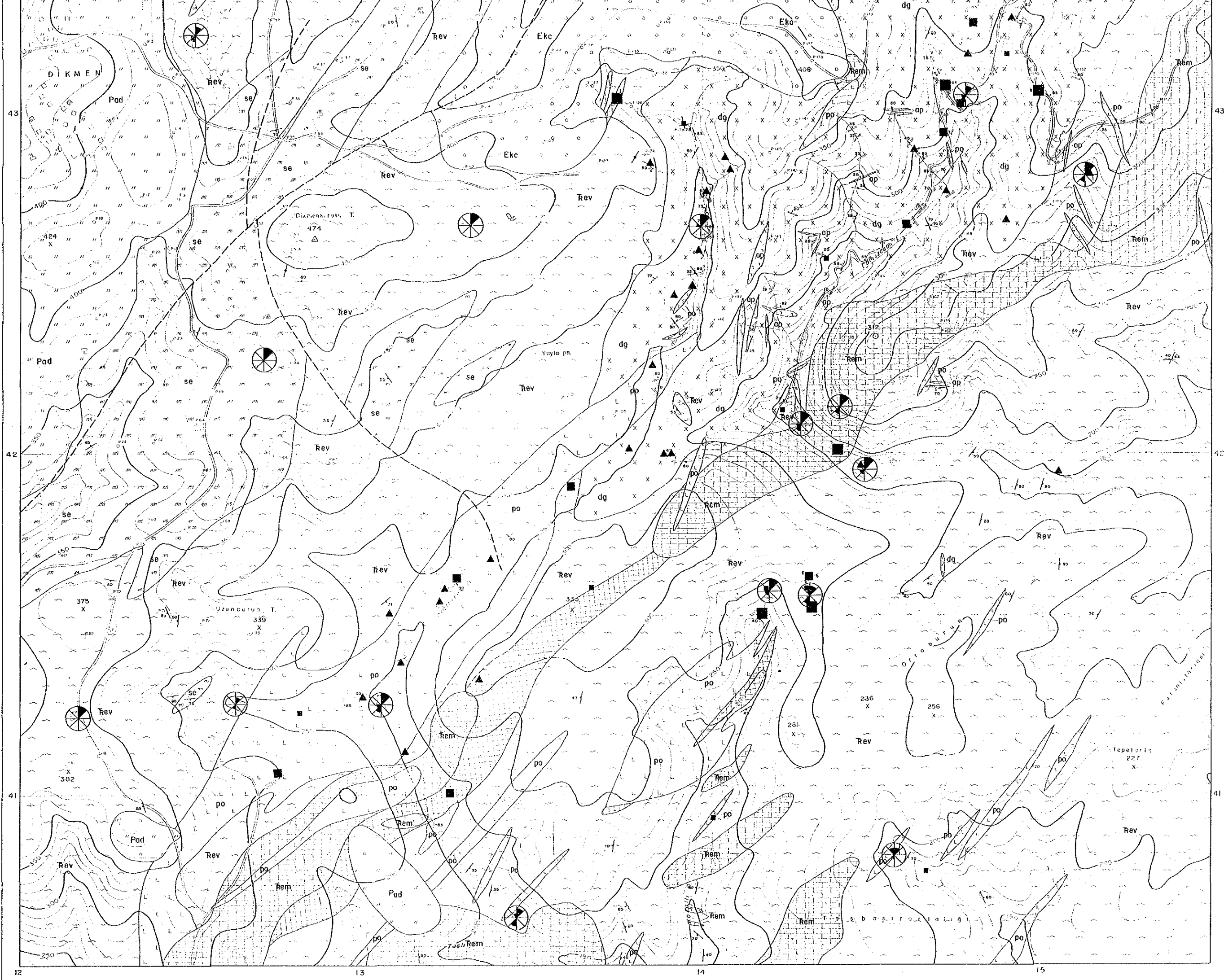
LEGEND

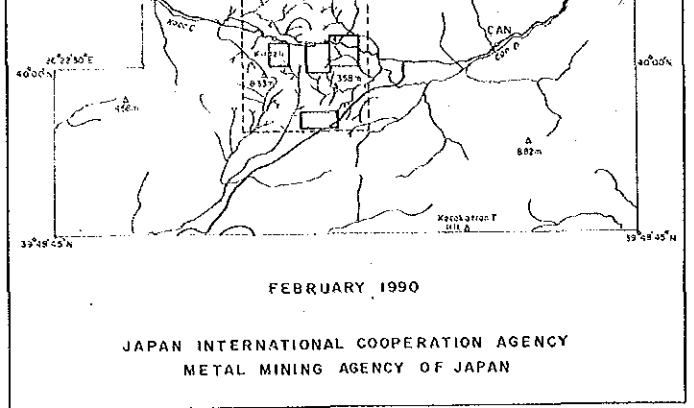
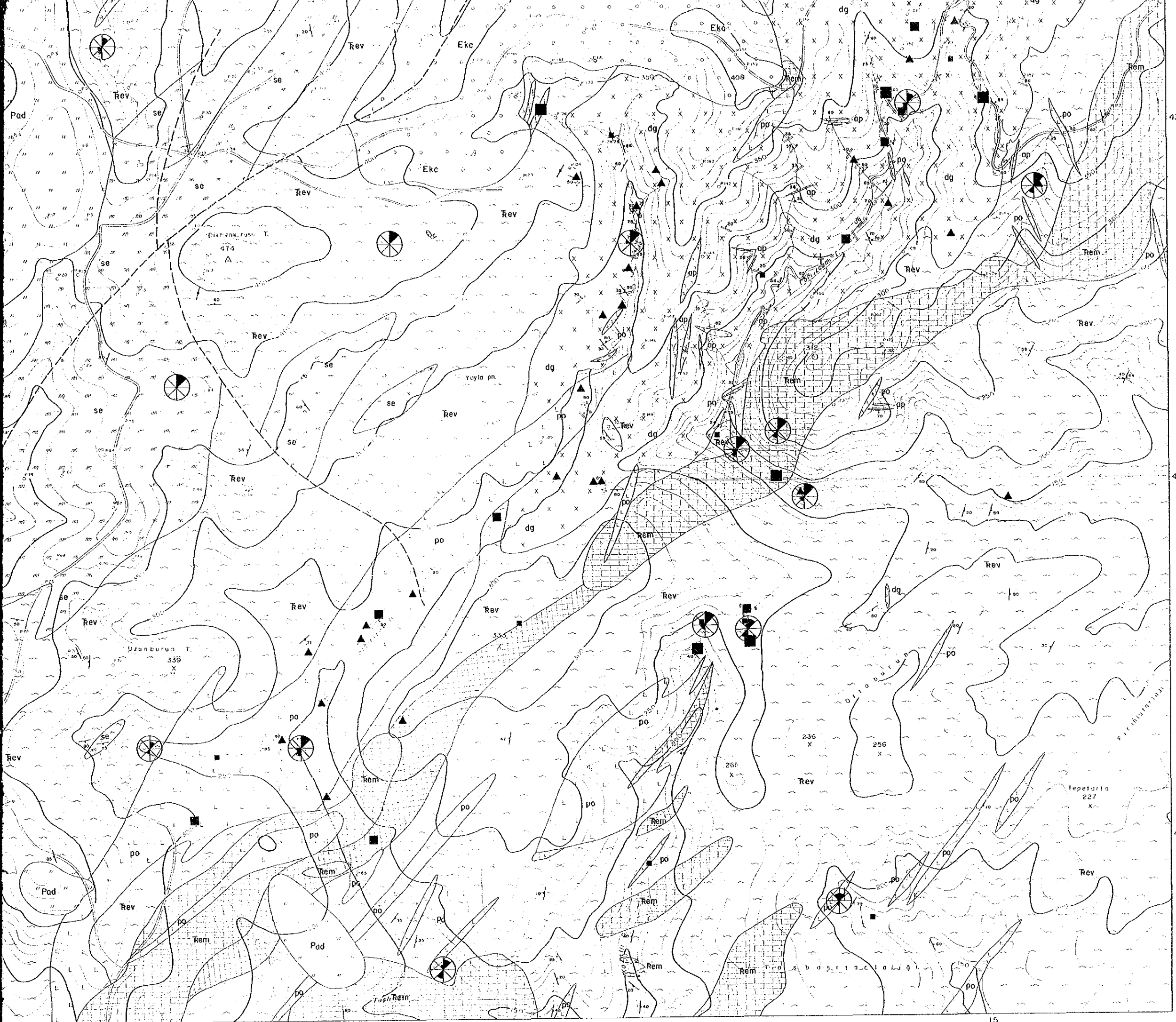
Pliocene	Akkyrak Vol.	Pad	Dacite
Eocene	Karanlik F. (Kizilcik M.)	Ekc	Conglor.
Triassic	Emese F.	Rem	Morble
		Rev	Meta-v.
Intrusive rocks		ap	Aplite
		po	Porhyr.
		dg	Dikmen
		se	Serpen
Mineralization		Skorn	Skorn

---	Probabl
↖	Strike
↗	Strike
↘	Strike
↙	Strike
○	Quartz
○	Trench



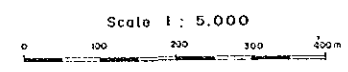
■	100 <sup>ppb</sup> Au	50 <sup>ppb</sup>
■	500 <sup>ppb</sup> Au	100 <sup>ppb</sup>
■	500 <sup>ppb</sup> Au	
▲	100 <sup>ppm</sup> Mo	





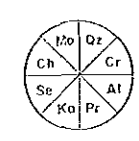
FEBRUARY 1990

JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN

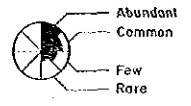


LEGEND

- |                 |                           |                 |                                   |
|-----------------|---------------------------|-----------------|-----------------------------------|
| Pliocene        | Akkoyrak Vol.             | Pad             | Dacite and dacitic tuff           |
| Eocene          | Karanlık F. (Kızılcık M.) | Ekc             | Conglomerate                      |
| Triassic        | Emeşe F.                  | Rem             | Marble                            |
|                 |                           | Rev             | Meta-volcanics and meta-sediments |
| Intrusive rocks |                           | ap              | Aplite                            |
|                 |                           | po              | Porphyry                          |
|                 |                           | dg              | Dikmen granite                    |
|                 |                           | se              | Serpentinite                      |
| Mineralization  |                           | Skarn zone (Fe) |                                   |
|                 |                           |                 | Probable fault                    |
|                 |                           |                 | Strike and dip of bedding         |
|                 |                           |                 | Strike and dip of schistosity     |
|                 |                           |                 | Strike and dip of joint           |
|                 |                           |                 | Quartz vein                       |
|                 |                           |                 | Trench                            |



Oz : Quartz  
Cr : Cristobalite  
Al : Alunite  
Pr : Pyrophyllite  
Ko : Kaoline  
Se : Sericite  
Ch : Chlorite  
Mo : Montmorillonite



- 100<sup>ppb</sup> > Au IV 50<sup>ppb</sup>
- 500<sup>ppb</sup> > Au IV 100<sup>ppb</sup>
- 500<sup>ppb</sup> > Au
- ▲ 100<sup>ppm</sup> > Mo

13

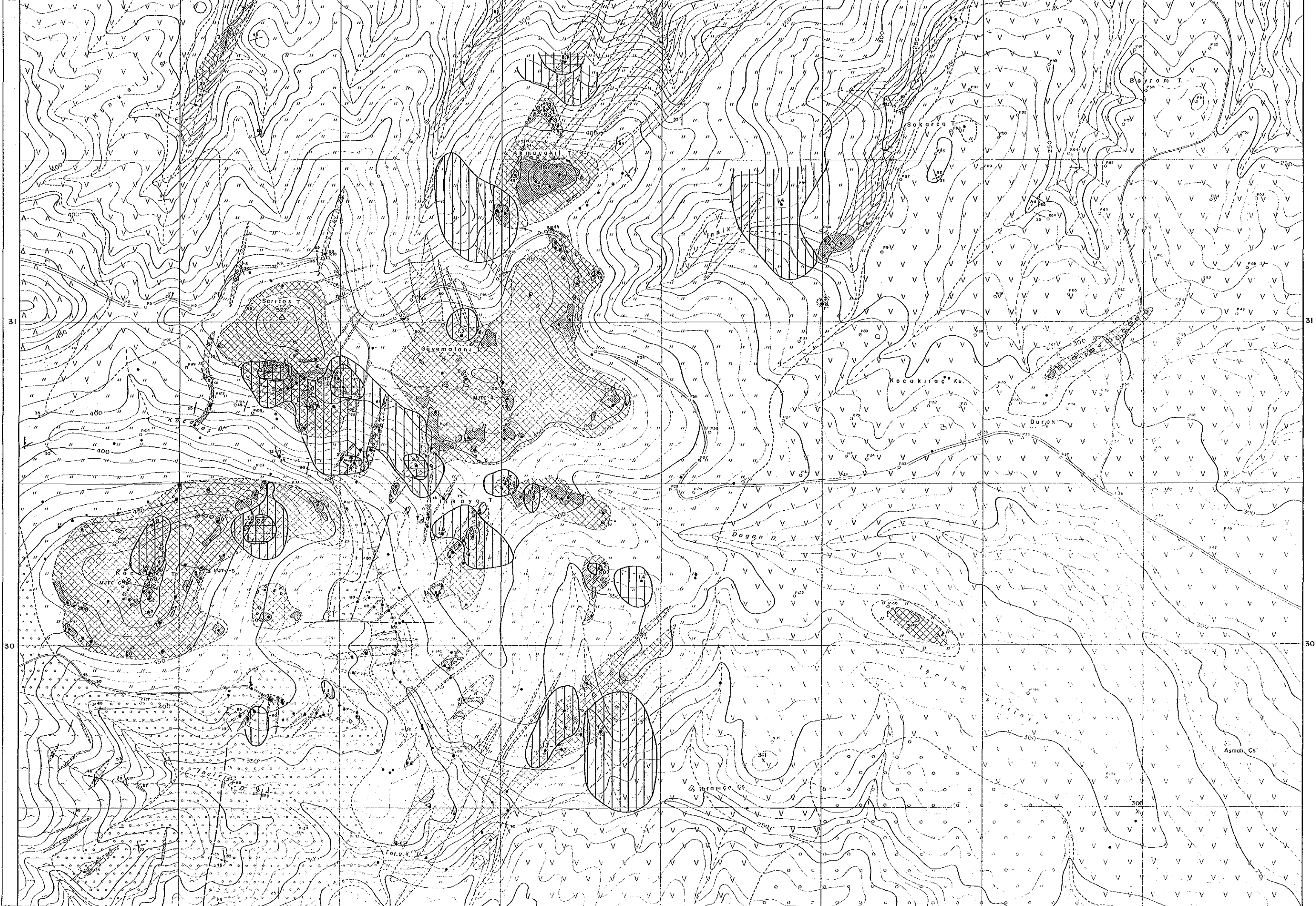
14

15

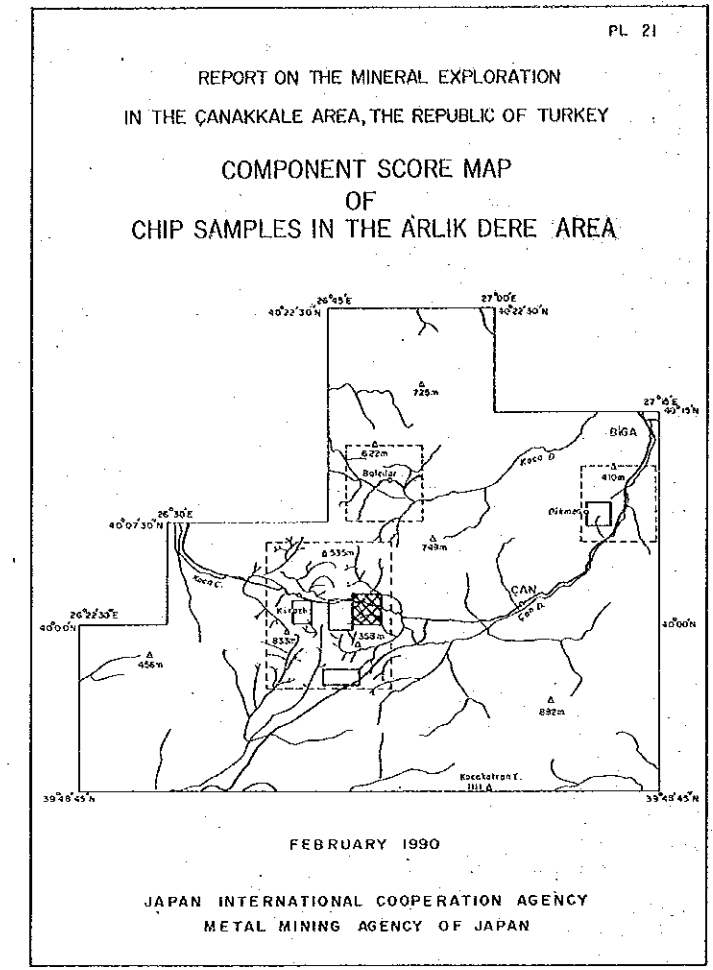
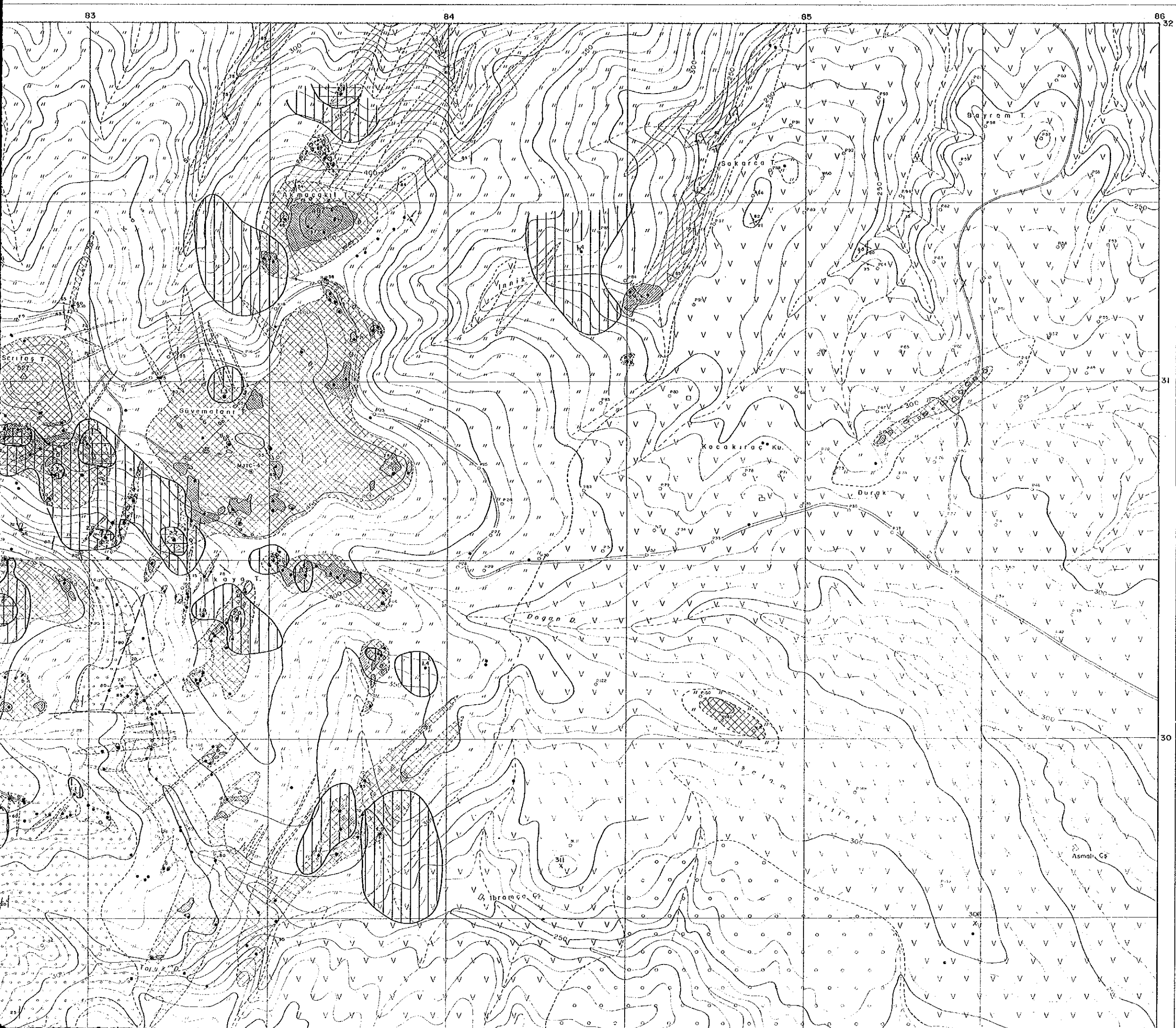
41

43

42



H  
M  
M  
T

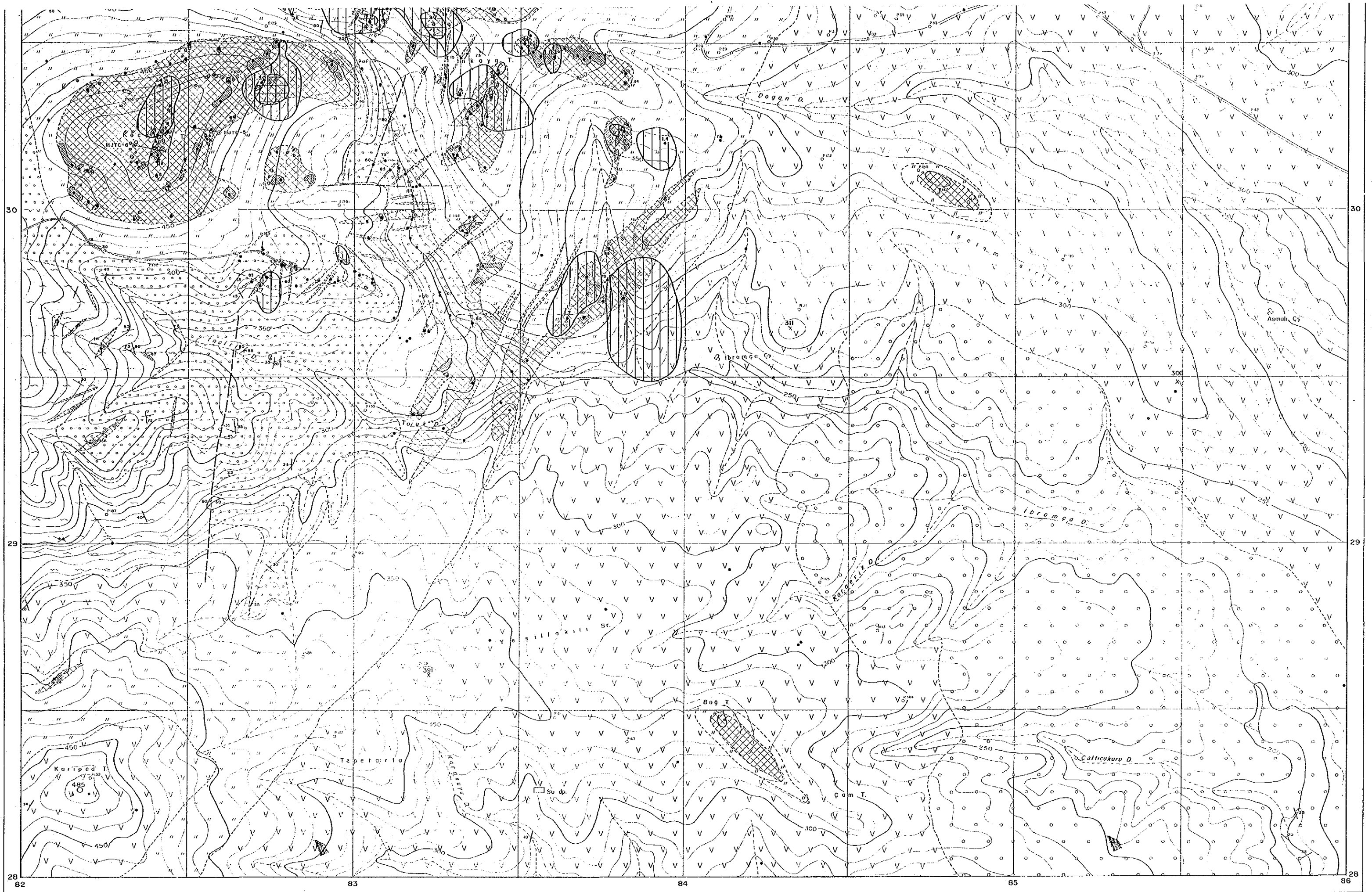


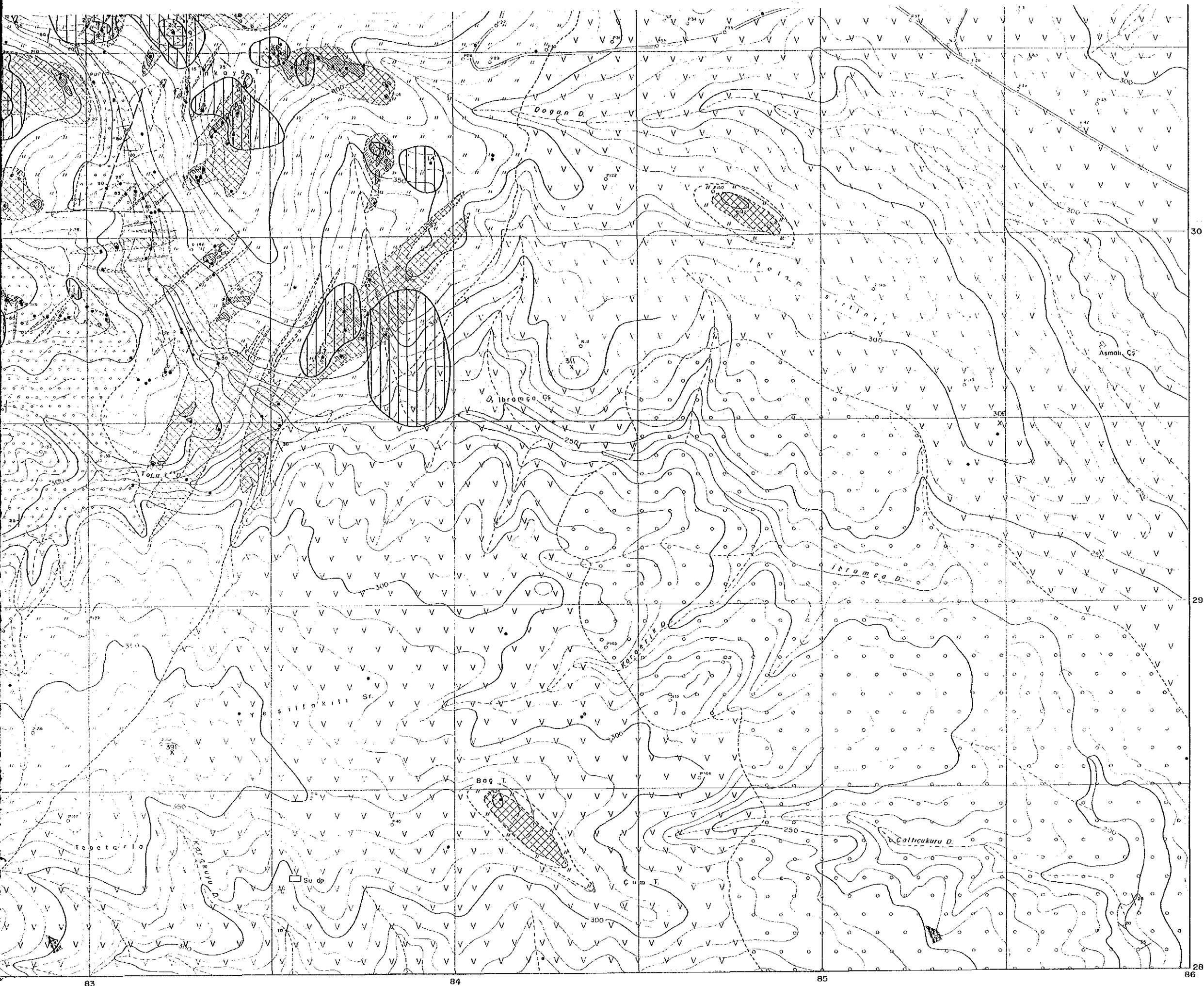
Scale 1 : 5,000

LEGEND

- |            |                      |  |  |
|------------|----------------------|--|--|
| Holocene   | Kocacaklı Basalt     |  | Basalt lava  |
|            | Karaklıy F.          |  | Conglomerate, sandstone and mudstone               |
| Miocene    | Şöprü Vol.           |  | Andesite lava with its pyroclastics                |
| Jurassic   | Kirazlı Conglomerate |  | Conglomerate, mudstone with sandstone              |
| Triassic   | Taşdöbek F.          |  | Meta-volcanics                                     |
| Alteration |                      |  | Strongly silicified body                           |
|            |                      |  | Medium silicified, and argillized zone and/or body |
|            |                      |  | Silicified and argillized zone                     |
|            |                      |  | Argillized zone                                    |
|            |                      |  | Probable fault                                     |
|            |                      |  | Strike and dip of fault                            |
|            |                      |  | Strike and dip of bedding                          |
|            |                      |  | Strike and dip of schistosity                      |
|            |                      |  | Strike and dip of joint                            |
|            |                      |  | Fossil   |
|            |                      |  | Trench   |
|            |                      |  | Drilling site                                      |
|            |                      |  | Component Score of Chip Sample                     |
|            |                      |  | Anomalous Area (more than 1)                       |
|            |                      |  | Anomalous Area (more than 2)                       |







L E G E N D

- |            |                      |  |  |
|------------|----------------------|--|--|
| Holocene   | Kocacakil Basalt     |  | Basalt lava  |
|            | Karaköy F.           |  | Conglomerate, sandstone and mudstone               |
| Miocene    | Şapçı Vol.           |  | Andesite lava with its pyroclastics                |
| Jurassic   | Kirazlı Conglomerate |  | Conglomerate, mudstone with sandstone              |
| Triassic   | Toşdibek F.          |  | Meta-volcanics                                     |
| Alteration |                      |  | Strongly silicified body                           |
|            |                      |  | Medium silicified, and argillized zone and/or body |
|            |                      |  | Silicified and argillized zone                     |
|            |                      |  | Argillized zone                                    |
|            |                      |  | Probable fault                                     |
|            |                      |  | Strike and dip of fault                            |
|            |                      |  | Strike and dip of bedding                          |
|            |                      |  | Strike and dip of schistosity                      |
|            |                      |  | Strike and dip of joint                            |
|            |                      |  | Fossil   |
|            |                      |  | Trench   |
|            |                      |  | Drilling site                                      |
|            |                      |  | Component Score of Chip Sample                     |
|            |                      |  | Anomalous Area (more than 1)                       |
|            |                      |  | Anomalous Area (more than 2)                       |

83

84

85

86

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