Sample No.: D-60
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Erzincan, i-44, b1, No.2

5. Coordinates: 27.69N, 14.15E

6. Location: Catinardının D., Sıçankale Y., Aşkale, Erzurum

7. Lithostratigraphic unit: ultrabasic rocks
8. Rock name: serpentinized dunite

9. Occurrence: massive

10. Description of specimen:

This specimen is taken from the footwall side of the orebody in trench (TD-13) at Siçankale.

It is pale green colored, fragile, and abundant in carbonate minerals.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted serpentine moderate

serpentine moderate
magnesiochromite very strong
aragonite weak

12. Remarks: refer Appendix 7-132 (TD-13), Appendix 5-9

Plate 7-2 (TD-13)

Sample No.: D-61
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Erzinean, i-44, b1, No.2

5. Coordinates: 27.27 N, 12.78 E

6. Location: Akdağın Sr., Sıçankale Y., Aşkale, Erzurum

7. Lithostratigraphic unit: ultrabasic rocks
8. Rock name: harzburgite
9. Occurrence: massive

10. Description of specimen:

This specimen is taken from the hangingwall-side of the orebody where pyroxenite dyke contacts to, in trench (TD-16) at Siçankale. It is pale green colored and fragile.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted serpentine very strong

12. Remarks: refer Appendix 7-135 (TD-16)

Plate 7-2 (TD-16)

Sample No.: D-62
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Erzincan, i-44, b1, No.2

5. Coordinates: 28.04 N, 16.55 E

6. Location: Batı Coşan, Bendindere, Sıçankale Y., Aşkale,

Erzurum

7. Lithostratigraphic unit: ultrabasic rocks
8. Rock name: serpentinized dunite

9. Occurrence: massive

10. Description of specimen:

This specimen is taken from host rock at the footwall side of the orebody in trench (TD-18) at Batı Coşan.

It is pale green colored, composed of serpentinized dunite and network of carbonate minerals.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted serpentine very strong hydromagnesite strong

12. Remarks: refer Appendix 7-137 (TD-18)
Plate 7-1 (TD-18)

Sample No.: D-63
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Trabzon, H-44, c3, No.4

5. Coordinates: 30.20 N, 18.79 E

6. Location: Cosan, Iskilingindere, Kop, Bayburt,

Gümüshane

7. Lithostratigraphic unit : ultrabasic rocks8. Rock name : serpentinized dunite

9. Occurrence: massive

10. Description of specimen:

This specimen is taken from the hangingwall-side of the orebody in trench (TD-32) at Cosan.

It is green colored and more or loss serpentinized.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted serpentine very strong artinite very strong brucite very strong

12. Remarks: refer Appendix 7-151 (TD-32)
Plate 7-1 (TD-32)

Sample No.: X-12
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Erzincan, i-44, bl, No.2

5. Coordinates: 25.02 N, 13.03 E

6. Location: Taşlıdere, Dingik, Aşkale, Erzurum

Lithostratigraphic unit : ultrabasic rocks
 Rock name : harzburgite
 Occurrence : massive

10. Description of specimen:

This specimen is of typical harzburgite.

It has greenish grey color, medium size grain size and much amount of orthopyroxene crystals and veinlets.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted forsterite strong enstatite moderate

serpentine weak

12. Remarks: refer Appendix 3-46

Sample No.: X-14
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Erzincan, i-44, b1, No.2

5. Coordinates: 27.75 N, 17.02 E

6. Location: Batı Coşan, Bendindere, Sıçankale Y., Aşkale,

Erzurum

7. Lithostratigraphic unit: ultrabasic rocks

8. Rock name: brucite-bearing serpentinite from dunite

9. Occurrence: massive

10. Description of specimen:

This specimen is the host rock of chromite deposit and taken from chromite banding zone, east of Batı Coşan.

It is dark gray colored and fine grained.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted serpentine very strong

magnesiochromite strong

12. Remarks: refer Appendix 3-47

Sample No.: X-15
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Erzincan, i-44, b1, No.2

5. Coordinates: 27.68 N, 17.07 E

6. Location: Batı Coşan, Kücüksivri Sr., Sıçankale Y.,

Askale, Erzurum

7. Lithostratigraphic unit: ultrabasic rocks
8. Rock name: clinopyroxenite
9. Occurrence: dyke in dunite

10. Description of specimen:

This specimen is pale yellowsh green colored and granular with medium grain size.

It is affected by serpentinization.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted

augite strong serpentine strong moderate

12. Remarks: refer Appendix 3-48

Sample No.: X-18
 Project No.: 78/26
 Area: Kopdağ

4. Map No.: Erzincan, i-44, b1, No.2

5. Coordinates: 27.01N, 12.15E

6. Location: Kırmıztaş Sr., Sıçankale Y., Aşkale, Erzurum

7. Lithostratigraphic unit: ultrabasic rocks

8. Rock name: serpentinite from harzburgite

9. Occurrence: massive

10. Description of specimen:

This specimen has dark grayish green color and very fine grains. Fine networks of serpentine including asbestos are commonly observable.

11. Minerals identified:

name of the mineral intensity of X-ray diffracted

serpentine very strong brucite moderate magnesiochromite very strong moderate

12. Remarks: refer Appendix 3-49

1. Sample No.: X-21 2. Project No. : 78/26t 3. Area: Kopdağ 4. Map No.: Erzurum, i-45, al 5. Coordinates: 16.40 N, 33.60 E 6. Location: Karaçayırdere, Çırmıt köyü, Aşkale, Erzurum 7. Lithostratigraphic unit: ultrabasic rocks 8. Rock name: altered serpentinite 9. Occurrence: dyke-like appearance in harzburgite 10. Description of specimen: This specimen is affected strongly by carbonatization and silicification It is reddish brown colored, and very fine grained. Coarse, round fragments of serpentine and veinlets of carbonate mineral are observed. Minerals identified: 11. name of the mineral intensity of X-ray diffracted quartz very strong calcite strong dolomite strong magnesite moderate 12. Remarks: refer Appendix 3-50 1. Sample No.: Z-14 2. Project No.: 78/26 3. Area: Kopdağ 4. Map No.: Erzincan, i-44, bl, No.1 5. Coordinates: 22.14N, 07.20E 6. Location: Çerçiilyaş T., Ağcahisar, Aşkale, Erzurum 7. Lithostratigraphic unit: terrace deposit 8. Rock name: dolomite 9. Occurrence: lenticular intercalated in conglomerate. 10. Description of specimen: This specimen is creamy white colored, very fine grained, and drusy. Tabular crystals (0.2 - 1 cm size) are present. 11. Minerals identified:

name of the mineral intensity of X-ray diffracted dolomite very strong

12. Remarks: refer Appendix 3-54

APPENDIX 7

```
name of the area:
                   (2,000, 10,000, 25,000) shows the geological map
                    where the trench is located.
specific gravity of
                   serpentinite :
                   dunite
                                     3.0
                   low-grade ore : 3.0
                   stock of ore : 3.0
                   high-grade ore : 3.5
                   magnesite
                                     3.0
          T2-1 *: operated in 1978
           TA-1: not operated in 1978
                 : none
                : uncertain
                 : not recorded
               ): small in amount
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. . • : . •

_		
1.	Number of trench:	TA-1 (not surveyed in detail)
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzurum i-45, al, No.1
5.	Coordinates:	27.83 N, 30.20 E
6.	Altitude:	1,920 - 1,950 m
7.	Name of the area:	Hasbeykomu (magnesite) (25,000) (east Kop
8.	Location and communication:	1
		8 9 1
		Aşkale, Erzurum, 10 minutes from Hasbey- komu on foot
9.	Type etc.:	
	1,000000	trench for exploration
10.	Host rock:	compating a day to
11.	Orebody:	serpentinized dunite
	Stratigraphic horizon in	
	ultrabasic rocks :	middle horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 15°E dip *
	Soolo of the aught 1	(Direction of the ore zone; N 30°E)
	Scale of the orebody observed;	extension to strike-side 140 m
		extension to dip-side 30 m
	01.	width 120 m
	Shape of the orebody;	lenticular 9 trenches are observed
-1-0		in magnesite (with dolomite) orebody.
12.	Chromite banding around the	not observed
	orebody:	
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	massive
	Ore minerals;	magnesite
	Gangue minerals ;	serpentine, dolomite
	Grade of the ore:	managamia Li Li
	• •	macroscopic estimation, *
15.	The largest scale of the	extension to strike-side * m
	orebody estimated:	onton of 4- 31> 1
	-	
16.	Volume of the trench estimated:	* m 160 m ³
17.	The largest amount of the ore	100 Mo
	estimated which is taken	
	from the trench:	E00 4
18.	Amount of stock of the ore:	500 ton
19.	Relation to the other trenches	*
	and galleries:	-
20.	Laboratorical tests:	thin goaling (A. Ot)
21.	Remarks:	thin section (A-91)
	Hometra ;	refer Plate 7-6

		T10
1.	Number of trench:	TA-2
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.2
5.	Coordinates:	23.20 N, 03.03 E
6.	Altitude:	1,925 m
7.	Name of the mine:	Karaguney Tepe (2,000)
8.	Location and communication:	Karagüney Tepe, Kelvezikomu Çayırlı Erzincan, 20 minutes from Kelvezikomu on foot
9.	Type etc.:	pit for exploration
10.	Host rock:	strongly serpentinized harzburgite
11.	Orebody:	
	Stratigraphic horizon in ultrabasic rocks;	upper horizon (lower part)
	Amount of the orebody;	1
	Direction of the orebody;	strike N 65° w dip 34° N
	-	(Direction of the ore zone; N 80°E)
	Scale of the orebody observed;	extension to strike-side * m
	•	extension to dip-side * m
		width 0.15 m
	Shape of the orebody;	layered
12.	Chromite banding around the orebody:	not observed
13.	Fault around the orebody:	not ovserved
14.	Ore:	
	Type of the ore;	massive
	Ore minerals;	chromite (uvarovite)
	Grade of the ore;	macroscopic estimation, * (high-grade)
15.	The largest scale of the	extension to strike-side 2.4 m
	orebody estimated:	extension to dip-side 0.7 m
	•	width 0.2 m
16.	Volume of the trench estimated:	. 2.5 m ³
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	1 ton
18.	Amount of stock of the ore:	0.7 ton (45 % Cr ₂ O ₃ is estimated)
19.	Relation to the other trenches	
	and galleries:	TA-3,4
20.	Laboratorical tests:	
21.	Remarks:	refer Plate 7-6
		TOTOL LIMIO I V

1.	Number of trench:	TA-3 (not surveyed in detail	L)
2.	Project No.:	78/26	•
3.	Area:	Kopdag	
4.	Map No.:	Erzincan, i-44, a2, No.2	
5.	Coordinates:	23.23 N, 03.03 E	
6.	Altitude:	1,925 m	
7.	Name of the mine:	Karagüney Tepe (2,000) (nort	hern chrome zone)
8.	Location and communication:	Karagüney Tepe, Kelvezi kor	* · · · · · · · · · · · · · · · · · · ·
		Erzincan, 20 minutes from K on foot	, -
9.	Type etc.:	pit for exploration, covered be completely	y soil
10.	Host rock:	*	
11.	Orebody:		
	Stratigraphic horizon in		
	ultrabasic rocks;	upper horizon (lower part)	
	Amount of the orebody;	*	
	Direction of the orebody;	strike *	
		(Direction of the ore zone;	N 80°E)
	Scale of the orebody observed;	extension to strike-side	* m
		extension to dip-side	* m
		width	* m
	Shape of the orebody;	*	
12.	Chromite banding around the		
	orebody:	not observed	
13.	Fault around the orebody:	not observed	
14.	Ore:		
	Type of the ore;	*	
	Ore minerals;	*	
	Grade of the ore;	macroscopic estimation,	*
15.	The largest scale of the	extension to strike-side	* m
	orebody estimated:	extension to dip-side	* m
		width	* m
16.	Volume of the trench estimated:		* m ³
17.	The largest amount of the ore estimated which is taken		
10	from the trench:		* ton
18.	Amount of stock of the ore:	*	
19.	Relation to the other trenches	ma o a	
0.0	and galleries:	TA-2,4	
20.	Laboratorical tests:	mofor Dioto F C	
21.	Remarks:	refer Plate 7-6	

1. 2. 3.	Number of trench: Project No.: Area:	TA-4 (not surveyed in detail)
4.	Map No.:	Kopdag
5.	Coordinates:	Erzincan, i-44, a2, No.2
6.	Altitude:	23.23 N, 03.03 E
7.	Name of the mine:	1,925 m
8.	Location and communication:	Karagüney Tepe (2,000)
9.		Karagüney Tepe, Kelvezikomu Çayırlı, Erzincan, 20 minutes from Kelvezikomu on foot
<i>.</i>	Type etc. :	pit for exploration, covered by soil com- pletely
10.	Host rock:	*
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks ;	upper horizon (lower part)
	Amount of the orebody;	*
	Direction of the orebody;	strike *
		(Direction of the ore zone; N 80°E)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m
	Obama Cut	width * m
	Shape of the orebody;	*
12.	Chromite banding around the orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore: Type of the ore;	
	Ore minerals :	*
	ore inflictats;	*
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the	extension to strike-side * m
	orebody estimated:	extension to dip-side * m
	•	width * m
16.	Volume of the trench estimated:	*
17.	The largest amount of the ore estimated which is taken from the trench:	
18.	Amount of stock of the ore:	*
19.	Relation to the other trenches	*
•	and galleries:	TA-2,3
20.	Laboratorical tests:	
21.	Remarks:	refer Plate 7-6

1. 2. 3.	Number of trench: Project No.: Area:	TA-5 78/26 Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.2
5.	Coordinates:	23.23 N, 04.22 E
6.	Altitude:	1,960 m
7.	Name of the mine:	Baltadegmez (2,000) (northern chrome zone)
8.	Location and communication:	Baltadeğmez Sr., Cancıkkomu, Aşkale, Erzurum, 45 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploitation
10. 11.	Host rock: Orebody: Stratigraphic horizon in	serpentinite (powdery)
	ultrabasic rocks; Amount of the orebody;	upper horizon (footwall-side orebody) 2 - 3
	Direction of the orebody;	strike N 18°W dip 10°W
	Scale of the orebody observed;	(Direction of the ore zone; N 74°E) extension to strike-side 0.3 m
		extension to dip-side 0.5 m width $>0.15 \text{ m}$
	Shape of the orebody;	lenticular, network orebody disseminates into the host rock
12.	Chromite banding around the orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	massive, disseminated, powdery
	Ore minerals;	chromite
	Gangue minerals	serpentine, magnesite, stichtite
	Grade of the ore;	macroscopic estimation, 30 - 40 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 6 m
	orebody estimated:	extension to dip-side 3.5 m
10	TT-1C/1 / 1 / 1	width 1 m
16. 17.	Volume of the trench estimated: The largest amount of the ore	80 m ³
71.	estimated which is taken	
	from the trench:	75 ton
18.	Amount of stock of the ore:	1 ton (high-grade ore, 45% Cr ₂ O ₃ estimated)
19.	Relation to the other trenches	\ 8 , 10 2-0
	and galleries:	TA-6,7,8,9
20.	Laboratorical tests:	X-ray diffractive analysis (A-121)
21.	Remarks:	refer Plate 7-6

1.	Number of trench:	TA-6
2.	Project No.:	78/26
3.	Area:	Kopdag
4.	Map No.:	Erzincan, i-44, a2, No.2
5.	Coordinates:	23.20 N, 04.16 E
6.	Altitude:	1,965 m
7.	Name of the mine :	Baltadeğmez (2,000) (northern chrome zone)
8.	Location and communication:	
		Baltadeğmez Sr., Cancıkkomu, Aşkale, Erzurum, 45 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploitation
10.	Host rock:	strongly serpentinized dunite and serpentinite (powdery)
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks ;	upper horizon (footwall-side orebody)
	Amount of the orebody;	1
	Direction of the orebody;	strike N 76°E dip 44°N
		(Direction of the ore zone; N 74°E)
	Scale of the orebody observed;	extension to strike-side 1.2 m extension to dip-side 0.5 m width 0.35 m
	Shape of the orebody;	layered
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	strike N 70°E dip 72°N
14.	Ore:	_
	Type of the ore;	massive, powdery
	Ore minerals;	chromite
	Gangue minerals;	serpentine, magnesite
	Grade of the ore;	macroscopic estimation, 30 - 40 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side. 20 m
10.	orebody estimated:	extension to dip-side 3 m
	orobody ostimuted.	width 1.5 m
16.	Volume of the trench estimated:	330 m ³
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	315 ton
18.	Amount of stock of the ore:	very small
19.	Relation to the other trenches	
	and galleries :	TA-5,7,8,9
20.	Laboratorical tests:	X-ray diffractive analysis (Acr-97)
21.	Remarks:	refer Plate 7-6

1.	Number of trench:	TA-7
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.2
5.	Coordinates:	23.19 N, 04.14 E
6.	Altitude:	1,955 m
7.	Name of the mine:	Baltadeğmez (2,000) (northern chrome zone)
8.	Location and communication:	
- "		Baltadeğmez Sr., Cancıkkomu, Aşkale,
		Erzurum, 45 minutes from Sıçankale Y.,
9.	Type etc.:	by car
.	Type etc. :	trench for exploitation
10.	Host rock :	
11.	Orebody:	serpentinite (powdery)
110	•	
	Stratigraphic horizon in	
	ultrabasic rocks;	upper horizon (footwall-side orebody)
	Amount of the orebody;	* 1
	Direction of the orebody;	strike * dip *
		(Direction of the ore zone; E)
	Scale of the orebody observed;	extension to strike-side 0.2 m
		extension to dip-side 0.4 m
		width 0.09 m
	Shape of the orebody;	lenticular
		Orebody disseminates into the host rock
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	disseminated, powdery
	Ore minerals;	chromite
	,	on on the
	Grade of the ore ;	macroscopic estimation, 15 - 20 % Cr ₂ O ₃
	draw or mo oro ,	macroscopic estimation, 10 20 % 01203
15.	The largest scale of the	extension to strike-side 7 m
	orebody estimated:	extension to dip-side 1.2 m
	or cooling of the coo	width 1 m
16.	Volume of the trench estimated:	55 m ³
17.	The largest amount of the ore	99 1110
-, •	estimated which is taken	
	from the trench:	
18.	Amount of stock of the ore:	30 ton
19.		-
· Gi	Relation to the other trenches	
00	and galleries:	TA-5,6,8,9
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-6

1. 2. 3.	Number of trench: Project No.: Area:	TA-8 78/26 Kopdağ		
4.	Map No.:	Erzincan, i-44, a2, No.2		
ō.	Coordinates:	23.20 N, 04.12 E		
6.	Altitude:	1,955 m	•	
	Name of the mine:	Baltadegmez (2,000) (northern		
٥.	Location and communication:	Baltadeğmez Sr., Cancıkkomı Erzurum, 45 minutes from Sı by car		
9.	Type etc.:	trench for exploitation		
10. 11.	Host rock: Orebody: Stratigraphic horizon in	serpentinite (powdery)		
	ultrabasic rocks; Amount of the orebody;	upper horizon (footwall-side o	reboo	ly)
	Direction of the orebody;	strike * dip) *	
	Scale of the orebody observed;	extension to dip-side	0.1 0.5	m m
	Shape of the orebody;	width lenticular	0.09	m
12.	Chromite banding around the orebody:	strike E dip 28°N		
13. 14.	Fault around the orebody: Ore:	not observed		
	Type of the ore; Ore minerals;	disseminated, banded, powde chromite	ry	
	Grade of the ore;	macroscopic estimation,	15 % C	Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to strike-side extension to dip-side	7 1.8	m m
10	Volume of the trench estimated:	width	1	m m^3
16. 17.	The largest amount of the ore estimated which is taken		30	
10	from the trench: Amount of stock of the ore:		45	ton
18. 19.	Relation to the other trenches	-		
20.	and galleries : Laboratorical tests :	TA-5,6,7,9		
21.	Remarks:	refer Plate 7-6		

```
1.
      Number of trench:
                                       TA-9
 2.
      Project No.:
                                       78/26
 3.
      Area:
                                       Kopdag
      Map No.:
 4.
                                       Erzincan, i-44, a2, No.2
 5.
      Coordinates:
                                       23.20 N,
                                                          04.10 E
 6.
      Altitude:
                                       1,950 m
 7.
      Name of the mine:
                                       Baltadeğmez (2,000) (northern chrome zone)
      Location and communication:
 8.
                                       Baltadeğmez Sr., Cancıkkomu, Aşkale,
                                       Erzurum, 45 minutes from Sıçankale Y.,
                                       by car
 9.
      Type etc.:
                                       trench or pit for exploration, covered by
                                       soil completely
10.
      Host rock :
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks :
                                       upper horizon (footwall-side orebody)
      Amount of the orebody;
      Direction of the orebody;
                                       strike
                                                                  dip
                                       (Direction of the ore zone;
                                                                    \mathbf{E}
                                                                            )
      Scale of the orebody observed:
                                       extension to strike-side
                                                                          m
                                       extension to dip-side
                                                                          m
                                       width
                                                                          m
      Shape of the orebody;
12.
      Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       not observed
14.
      Ore:
          Type of the ore;
          Ore minerals ;
          Grade of the ore;
                                       macroscopic estimation, *
15.
      The largest scale of the
                                       extension to strike-side
                                                                          \mathbf{m}
          orebody estimated:
                                       extension to dip-side
                                                                          m
                                       width
                                                                          m
      Volume of the trench estimated:
16.
                                                                 < 1
                                                                          m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                 < 1
                                                                         ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                       TA-5,6,7,8
20.
     Laboratorical tests:
21.
     Remarks:
                                       refer Plate 7-6
```

1.	Project No. :	TA-10 78/26
3.		Kopdag Erzincan, i-44, a2, No.2
4.	Map No.:	23.78 N. 04.44 E
5.	Coordinates:	2,110 m
6.	Altitude:	
7. 8.	Name of the mine: Location and communication:	Dikyokuş (2,000) (northern chrome zone) Baltadeğmez Sr., Cancıkkomu, Aşkale, Erzurum, 60 minutes from Sıçankale Y.,
		on foot and by car
9.	Type etc.:	trench for exploration
10.	Host rock:	strongly serpentinized dunite and serpentinite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	upper horizon (hangingwall-side orebody)
	Amount of the orebody;	1 N. O.S.A. W
	Direction of the orebody;	strike N 85°E dip 32°N
		(Direction of the ore zone; N 85°W)
	Scale of the orebody observed;	extension to strike-side 0.1 m
		extension to dip-side 0.5 m width 0.9 m
		1,200.
	et 6.111 J	(unit layer of the ore is 0.03 - 0.15 m) layered, network
10	Shape of the orebody;	tayered, network
12.	Chromite banding around the orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	1100 00001 4 0 0
7.4 •	Type of the ore;	massive, disseminated, powdery
	Ore minerals ;	chromite
	Grade of the ore;	macroscopic estimation, 15-40% Cr2O3
		(disseminated massive) analytical value,
		19.49% Cr2O3 from the outcrop, random sample
15.	The largest scale of the	extension to strike-side 9 m
	orebody estimated:	extension to dip-side 2 m
		width 0.8 m
16.	Volume of the trench estimated:	$50 ext{m}^3$
17.	The largest amount of the ore estimated which is taken	
	from the trench:	50 ton
18.	Amount of stock of the ore:	20 ton
19.	Relation to the other trenches	
	and galleries:	TB-4,5
20.	Laboratorical tests:	polished section (Acr-12) chemical analysis of
21.	Remarks:	refer Plate 7-6 the ore (Acr-13)

	ST 1 04 1	
1.	Number of trench:	TA-11
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.2
5.	Coordinates:	24.32 N, 05.21 E
6.	Altitude:	2,195 m
	Name of the mine:	Pembe Gül (2,000) (northern chrome zone)
8.	Location and communication:	Keşan Tepe, Cancıkkomu Aşkale, Erzurum, 80 minutes from Sıçankale Y., on foot and
		by car
9.	Type etc.:	pit for exploration
10.	Host rock:	serpentinite (powdery)
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks ;	upper horizon (footwall-side orebody)
	Amount of the orebody;	1
	Direction of the orebody;	strike N 25°E dip 16° – 20°W
		(Direction of the ore zone; N 10°E)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m
		width $0.05 - 0.2 \text{ m}$
	Shape of the orebody;	lenticular
12.	Chromite banding around the	
12.	orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	100 00001704
T.T.		massive, powdery
	Ore minerals;	chromite (uvarovite)
	ore infinerals,	cironite (a.a.z.,
	Grade of the ore;	macroscopic estimation, ★ (high-grade)
15.	The largest scale of the	extension to strike-side 1.8 m
	orebody estimated:	extension to dip-side 1 m
		width 0.3 m
16.	Volume of the trench estimated:	$1 m^3$
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	< 1 ton
18.	Amount of stock of the ore:	0.4 ton (50% Cr2O3 estimated)
19.	Relation to the other trenches	The second secon
	and galleries:	TA-12,13,14,15,16
20.	Laboratorical tests:	polished section (Acr-7)
21.	Remarks:	refer Plate 7-5

1. 2. 3. 4. 5. 6. 7. 8.	Altitude: Name of the mine:	TA-12 78/26 Kopdağ Erzincan, i-44, a2, No.2 24.33 N, 05.22 E 2,195 m Pembe Gül (2,000) (northern chrome zone) Keşan Tepe, Cancıkkomu Aşkale, Erzurum, 80 minutes from Sıçankale Y., on foot and by car pit for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody;	upper horizon (footwall-side orebody) 1 strike N 5°E dip 40°W (Direction of the ore zone; N 10°E) extension to strike-side * m extension to dip-side * m width >0.15 m
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore;	not observed assumed, strike N 45°W dip* massive, powdery chromite (uvarovite) macroscopic estimation, * (high-grade)
15. 16. 17.	The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken	extension to strike-side 2 m extension to dip-side 1.2 m width 0.2 m 1 m 3
18. 19. 20. 21.	from the trench: Amount of stock of the ore: Relation to the other trenches and galleries: Laboratorical tests: Remarks:	<pre> <1 ton refer TA-11 TA-11,13,14,15,16 refer Plate 7-5 </pre>

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1.
      Number of trench:
                                       TA-13
 2.
      Project No.:
                                       78/26
 3. Area:
                                       Kopdag
 4.
      Map No.:
                                       Erzincan, i-44, a2, No.2
 5.
     Coordinates:
                                       24.35 N,
                                                         05.21
 6.
     Altitude:
                                       2,195 m
 7.
      Name of the mine:
                                       Pembe Gül (2,000) (northern chrome zone)
 8.
      Location and communication:
                                       Keşan Tepe, Cancikkomu Aşkale, Erzurum,
                                       80 minutes from Siçankale Ý., on foot and
                                       by car
 9.
      Type etc.:
                                       pit for exploration
10.
      Host rock :
                                       serpentinite (powdery)
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks:
                                       upper horizon (footwall-side orebody)
      Amount of the orebody:
                                       1
      Direction of the orebody;
                                       strike
                                                          N 40°E dip 18°NW
                                       (Direction of the ore zone;
                                                                   N 20°E )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                       width
                                                                  > 0.16 \text{ m}
     Shape of the orebody;
                                       lenticular
12.
     Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       assumed, strike N45°W dip *
14.
     Ore:
          Type of the ore;
                                       massive, disseminated, powdery
          Ore minerals:
                                       chromite (uvarovite)
          Grade of the ore;
                                       macroscopic estimation, 40 - 45 % Cr<sub>2</sub>O<sub>3</sub>
15.
     The largest scale of the
                                       extension to strike-side
                                                                    1.6
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                    1.2
                                                                         m
                                       width
                                                                   0.2
                                                                         m
16.
                                                                         m^3
     Volume of the trench estimated:
                                                                    1
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                 < 1
                                                                         ton
18.
     Amount of stock of the ore:
     Relation to the other trenches
19.
          and galleries:
                                       TA-11,12,14,15,16
20.
     Laboratorical tests:
     Remarks:
21.
                                       refer Plate 7-5
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Number of trench:
 1.
                                       TA-14 (not surveyed in detail)
 2.
      Project No.:
                                       78/26
     Area:
 3.
                                      Kopdag
 4.
                                      Erzincan, i-44, a2, No.2
      Map No.:
 5.
      Coordinates:
                                      24.39 N.
                                                         05.21 E
      Altitude:
                                      2,185 m
 6.
 7.
      Name of the mine:
                                      Pembe Gül (2,000) (northern chrome zone)
 8.
      Location and communication:
                                      Keşan Tepe, Cancıkkomu Aşkale, Erzurum,
                                      90 minutes from Siçankale Y., onfoot and
 9.
      Type etc.:
                                      pit for exploration, covered by soil comple-
                                      tely
10.
      Host rock:
11.
     Orebody:
     Stratigraphic horizon in
          ultrabasic rocks;
                                      upper horizon (footwall-side orebody)
      Amount of the orebody;
     Direction of the orebody;
                                      strike
                                                                dip *
                                      (Direction of the ore zone;
                                                                  N 20°E )
     Scale of the orebody observed :
                                      extension to strike-side
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
     Shape of the orebody;
12.
     Chromite banding around the
          orebody:
                                      not observed
13.
     Fault around the orebody:
                                      assumed, strike N45°W dip *
14.
     Ore:
          Type of the ore;
          Ore minerals ;
                                      chromite
          Grade of the ore;
                                      macroscopic estimation, *
15.
     The largest scale of the
                                      extension to strike-side
                                                                   0.8
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                   0.5
                                                                        m
                                      width
                                                                   0.2
                                                                        m
     Volume of the trench estimated:
16.
                                                                 < 1
                                                                        m^3
17.
     The largest amount of the ore
         estimated which is taken
          from the trench:
                                                                 < 1
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TA-11,12,13,15,16
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-5
```

1. Number of trench: 2. Project No.: 3. Area: 4. Map No.: 5. Coordinates: 6. Altitude: 7. Name of the mine: 8. Location and communication: 9. Type etc.: 10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Shape of the orebody: 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: 15. The largest scale of the orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of the ore: 19. Relation to the other trenches and galleries: 20. Laboratorical tests: 24.40 N, 05.21 E 26.40 N, 05.21 E 24.40 N,			
3. Area: 4. Map No.: 5. Coordinates: 6. Altitude: 7. Name of the mine: 8. Location and communication: 8. Location and communication: 9. Type etc.: 10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Shape of the orebody; 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: 15. The largest scale of the orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 10. Laboratorical tests: 14. Ore: 15. The largest amount of the ore estimated which is taken from the trench: 16. Valume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 19. Laboratorical tests: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 19. Laboratorical tests: 19. The largest amount of the ore estimated which is taken from the trench: 19. Chromite banding around the orebody: 10. The largest amount of the ore estimated which is taken from the trench: 20. Laboratorical tests: 24. 40 N, 05. 21 E 24. 40 N, 05. 21	1.	Number of trench:	TA-15
4. Map No.: 5. Coordinates: 6. Altitude: 7. Name of the mine: 8. Location and communication: 8. Location and communication: 9. Type etc.: 10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Scale of the orebody; Shape of the orebody; 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals: Grade of the ore 15. The largest scale of the orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: Location and communication: Pembe Gill (2,000) (northern chrome zone) Keşan Tepe, Cancukkomu Aşkale, Erzurum, 90 minutes from Stçankale Ý., on foot and by car pit for exploration 10. Host rock: Sespentinite (powdery) 11. Strike N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) strakes N 48°E dip 38°NW (Direction of the ore zone; N 20°E) str	2.	Project No.:	78/26
5. Coordinates: 6. Altitude: 7. Name of the mine: 8. Location and communication: 9. Type etc.: 10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Scale of the orebody is Shape of the orebody: 12. Chromite banding around the orebody: Type of the ore; Ore minerals; Grade of the ore; Ore minerals: Grade of the ore; Ore min	3.	Area ;	Kopdağ
5. Coordinates: 6. Altitude: 7. Name of the mine: 8. Location and communication: 8. Location and communication: 8. Location and communication: 9. Type etc.: 10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Shape of the orebody; Shape of the orebody: 12. Chromite banding around the orebody: Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Ore minerals: The largest scale of the orebody estimated: 17. The largest amount of the ore estimated which is taken from the trench estimated: 18. Amount of stock of the ore: Amount of stock of the ore: Relation to the other trenches and galleries: Laboratorical tests: 24. 40 N, 05. 21 E 2, 185 m Pembe Gül (2,000) (northern chrome zone) Keşan Tepe, Cancukkomu Aşkale, Erzurum, 90 minutes from Siçankale Y., on foot and by car pit for exploration 18. Anamount of the orizon in ultrabasic (powdery) 19. Type etc.: 10. Host rock: Seapentinite (powdery) 11. Orebody: Strike N 48°E dip 38°NW (Direction of the ore zone; N 20°E) extension to strike-side * m extension to strike-side * m extension to observed not o	4.	Map No.:	Erzincan, i-44, a2, No.2
6. Altitude: 7. Name of the mine: 8. Location and communication: 8. Location and communication: 9. Type etc.: 10. Host rock: 11. Orebody: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody; Shape of the orebody; 12. Chromite banding around the orebody: Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Ore the orebody Onthutes from Siçankale Y., on foot and by car pit for exploration Serpentinite (powdery) 1 upper horizon (footwall-side orebody) 1 ont observed Not observed on ot observed o	5.	Coordinates:	
7. Name of the mine: 8. Location and communication: 9. Type etc.: 10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody; 12. Chromite banding around the orebody: Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: and galleries: 20. Laboratorical tests: 10. Host rock: Sean Tepe, Cancıkkomu Aşkale, Erzurum, 90 minutes from Sıçankale Y., on foot and by car pit for exploration 10. Keşan Tepe, Cancıkkomu Aşkale, Erzurum, 90 minutes from Sıçankale Y., on foot and by car pit for exploration 11. Orebody: Serpentinite (powdery) 12. Upper horizon (footwall-side orebody) 13. Strike N 48°E dip 38°NW (Direction of the ore zone; N 20°E) extension to strike-side * m extension to dip-side width 0.55 m lenticular 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: 15. The largest scale of the ore width 0.55 m width 0.66 m 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 19. Chromite minute (powdery) 10. The largest amount of the ore into the other trenches and galleries: 10. Laboratorical tests: 10. Laboratorical tests:	6.	Altitude:	
8. Location and communication: Keşan Tepe, Cancukkomu Aşkale, Erzurum, 90 minutes from Sıçankale Y., on foot and by car pit for exploration 10. Host rock:	7.		
9. Type etc.: 10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody; 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: 15. Type of the ore;			•
10. Host rock: 11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Chromite banding around the orebody: 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals: Grade of the ore; Type of the ore; Ore minerals: Grade of the ore; Type of the ore; Ore minerals: Grade of the ore; Type of the ore; Ore minerals: Grade of the ore; Type of the ore; Ore minerals: Grade of the ore; Type of the ore; Ore minerals: Grade of the ore; Type of the ore; Ore minerals: Grade of the ore; Type of the ore; Type of the ore; Type of the ore; Type of the ore; Ore minerals: Grade of the ore ore; Type of the ore ore ore ore ore ore ore ore ore or			90 minutes from Siçankale Y., on foot and by car
11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody; 12. Chromite banding around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Ore minerals; Ore: Type of the ore; Ore: Ore: Type of the ore; Ore: Ore: Ore: Ore:	9.	Type etc.:	pit for exploration
11. Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody; 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: 15. Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; Ore minerals; Ore massive, disseminated, powdery chromite macroscopoc estimation, $40 - 45\%$ Cr2O3 analytical value, 40.35% Cr2O3 from the outcrop, random sample extension to strike-side extension to strike-side 0.8 m extension to strike-side 0.5 m width 0.6 m Volume of the trench estimated: 1 m³ 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)	10.	Host rock:	serpentinite (powdery)
ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Shape of the orebody; 1 Chromite banding around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; The largest scale of the ore; The largest amount of the ore estimated which is taken from the trench estimated which is taken from the trench estimated: 18. Amount of stock of the ore: and galleries: The largest scale of the ore estimated the ore the ore and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)	11.	Orebody:	•
ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Shape of the orebody; 1 Chromite banding around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; Ore minerals; Grade of the ore; The largest scale of the ore; The largest amount of the ore estimated which is taken from the trench estimated which is taken from the trench estimated: 18. Amount of stock of the ore: and galleries: The largest scale of the ore estimated the ore the ore and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)		Stratigraphic horizon in	
Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Scale of the orebody observed; Scale of the orebody observed; Scale of the orebody; Scale of the orebody observed; Scale of the orebody; Scale of the orebody observed; Scale of the orebody; Scale of the orebody observed; Scale of the orebody; Scale of the orebody observed; Scale of the orebody; Scale of the orebody observed; Scale of the orebody; Scale of the orebody observed; Scale of the orebody; Scale of the orebody observed; Scale of the			upper horizon (footwall-side orebody)
Direction of the orebody; Scale of the orebody observed; Scale of the orebody; Shape of the orebody; Chromite banding around the orebody: 12. Chromite banding around the orebody: Tault around the orebody: Type of the ore; Ore minerals; Grade of the ore; Type of the ore ore oretike-side one of the ore ore ore ore ore ore ore ore ore or		•	
Scale of the orebody observed; Scale of the orebody; Shape of the orebody; Chromite banding around the orebody: 12. Chromite banding around the orebody: 13. Fault around the orebody: Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody extimated: 15. The largest scale of the orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the oreestimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)			
Scale of the orebody observed; extension to strike-side * m width 0.55 m Shape of the orebody; lenticular 12. Chromite banding around the orebody: not observed 13. Fault around the orebody: not observed 14. Ore: Type of the ore; massive, disseminated, powdery chromite Grade of the ore; macroscopoc estimation, 40 - 45 % Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample extension to strike-side 0.8 m extension to dip-side 0.5 m width 0.6 m 16. Volume of the trench estimated: 1 m3 17. The largest amount of the ore estimated which is taken from the trench: < 1 m3 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)			1, 10 11 00 1, 1,
extension to dip-side * m width 0.55 m lenticular 12. Chromite banding around the orebody: 13. Fault around the orebody: 14. Ore: Type of the ore; Ore minerals; Grade of the ore; Grade of the ore; The largest scale of the orebody estimated: 15. The largest scale of the orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)		Scale of the orebody observed:	
Shape of the orebody; width lenticular 12. Chromite banding around the orebody: not observed 13. Fault around the orebody: not observed 14. Ore: Type of the ore; massive, disseminated, powdery chromite Grade of the ore; macroscopoc estimation, 40 – 45 % Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample 15. The largest scale of the orebody estimated: 1 m ³ 16. Volume of the trench estimated: 1 m ³ 17. The largest amount of the oreestimated which is taken from the trench: < 1 ton 18. Amount of stock of the ore: and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)		the control of the co	
Shape of the orebody; lenticular 12. Chromite banding around the orebody: not observed 13. Fault around the orebody: not observed 14. Ore: Type of the ore; massive, disseminated, powdery chromite Grade of the ore; macroscopoc estimation, 40 - 45 % Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample 15. The largest scale of the orebody estimated: extension to strike-side of the orebody estimated: 1 m3 16. Volume of the trench estimated: 1 m3 17. The largest amount of the oreestimated which is taken from the trench: < 1 ton 18. Amount of stock of the ore: and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)			
12. Chromite banding around the orebody: not observed 13. Fault around the orebody: not observed 14. Ore: Type of the ore; massive, disseminated, powdery chromite Grade of the ore; macroscopoc estimation, $40-45\%$ Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample 15. The largest scale of the orebody estimated: extension to strike-side 0.8 m orebody estimated: extension to dip-side 0.5 m width 0.6 m 16. Volume of the trench estimated: 1 m ³ 17. The largest amount of the ore estimated which is taken from the trench: <1 ton 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 20. Laboratorical tests: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)		Shane of the orehody :	0,00
orebody: Fault around the orebody: Type of the ore; Ore minerals; Grade of the ore; macroscopoc estimation, 40 - 45 % Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample The largest scale of the extension to strike-side 0.8 m orebody estimated: The largest amount of the ore estimated which is taken from the trench: Relation to the other trenches and galleries: TA-11,12,13,14,16 Chemical analysis of the ore (Acr-9)		simpe of the ofenody,	tenticular
orebody: Fault around the orebody: Type of the ore; Ore minerals; Grade of the ore; macroscopoc estimation, 40 - 45 % Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample The largest scale of the extension to strike-side 0.8 m orebody estimated: The largest amount of the ore estimated which is taken from the trench: Relation to the other trenches and galleries: TA-11,12,13,14,16 Chemical analysis of the ore (Acr-9)	12.	Chromite banding around the	
13. Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; Type of the ore; Ore minerals; Grade of the ore; The largest scale of the ore orebody estimated: The largest scale of the ore estimated: 15. The largest scale of the ore orebody estimated: The largest amount of the ore estimated which is taken from the trench: The largest amount of the ore: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 Chemical analysis of the ore (Acr-9)			not observed
14. Ore: Type of the ore; Ore minerals; Grade of the ore; macroscopoc estimation, $40-45\%$ Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample 15. The largest scale of the orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 Chemical analysis of the ore (Acr-9)	13.	•	
Type of the ore; chromite Ore minerals; chromite Grade of the ore; macroscopoc estimation, $40-45\%$ Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample extension to strike-side orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)		•	not observed
Ore minerals; chromite Grade of the ore; macroscopoc estimation, $40-45\%$ Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample extension to strike-side 0.8 m orebody estimated: extension to dip-side 0.5 m width 0.6 m 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: < 1 ton 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 20. Laboratorical tests: TA-11,12,13,14,16			magging diagominated newdown
Grade of the ore; macroscopoc estimation, $40-45\%$ Cr ₂ O ₃ analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample extension to strike-side orebody estimated: extension to dip-side ovidth 0.6 m 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: and galleries: TA-11,12,13,14,16 Chemical analysis of the ore (Acr-9)		·	
analytical value, 40.35% Cr ₂ O ₃ from the outcrop, random sample 15. The largest scale of the orebody estimated: 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 10. Laboratorical tests: 10. The largest amount of the ore: 11. The largest amount of the ore: 12. The largest amount of the ore: 13. Amount of stock of the ore: 14. The largest amount of the ore: 15. The largest scale of the extension to strike-side of the ore of the outcomes of the ore of the outcomes of the outcomes of the outcomes of the ore of the outcomes of the ore of the ore of the outcomes of the ore of the outcomes		•	
crop, random sample extension to strike-side 0.8 m orebody estimated: extension to dip-side 0.5 m width 0.6 m 16. Volume of the trench estimated: 1 m3 17. The largest amount of the ore estimated which is taken from the trench: <1 ton 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 20. Laboratorical tests: chemical analysis of the ore (Acr-9)		Grade of the ore;	
The largest scale of the orebody estimated: State			_ _ U
orebody estimated: extension to dip-side width 0.5 m width 0.6 m 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)	15	The largest saal's of the	outonai
width 0.6 m 16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 19. Laboratorical tests: TA-11,12,13,14,16 Chemical analysis of the ore (Acr-9)	10.		-
16. Volume of the trench estimated: 17. The largest amount of the ore estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 19. The largest amount of the ore: 10. The largest amount of the ore: 11. The largest amount of the ore: 12. The largest amount of the ore: 13. The largest amount of the ore: 14. The largest amount of the ore: 15. The largest amount of the ore: 16. The largest amount of the ore: 17. The largest amount of the ore: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: 10. Chemical analysis of the ore (Acr-9)		orebody estimated:	
17. The largest amount of the ore estimated which is taken from the trench: <1 ton 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 20. Laboratorical tests: chemical analysis of the ore (Acr-9)	16	Waluma of the turnsh action of the	 _
estimated which is taken from the trench: 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 chemical analysis of the ore (Acr-9)			1 m ³
from the trench: < 1 ton 18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 20. Laboratorical tests: chemical analysis of the ore (Acr-9)	11.		
18. Amount of stock of the ore: 19. Relation to the other trenches and galleries: TA-11,12,13,14,16 20. Laboratorical tests: chemical analysis of the ore (Acr-9)			
19. Relation to the other trenches and galleries: TA-11,12,13,14,16 20. Laboratorical tests: chemical analysis of the ore (Acr-9)	10		< 1 ton
and galleries: TA-11,12,13,14,16 20. Laboratorical tests: chemical analysis of the ore (Acr-9)			•
20. Laboratorical tests: chemical analysis of the ore (Acr-9)	19.		
y ()			TA-11,12,13,14,16
21. Remarks: refer Plate 7-5			- , , ,
	21.	Remarks:	refer Plate 7-5

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1.
      Number of trench:
                                       TA-16
                                               (not surveyed in detail)
  2.
      Project No.:
                                       78/26
  3.
     Area:
                                       Kopdağ
  4. Map No.:
                                       Erzincan, i-44, a2, No.2
  5. Coordinates:
                                       24.41 N,
                                                         05.22 E
      Altitude:
                                       2,185 m
  7.
      Name of the mine:
                                       Pembe Gül (2,000) (northern chrome zone)
  8.
      Location and communication:
                                       Keşan Tepe, Cancıkkomu Aşkale, Erzurum,
                                       90 minute from Siçankale Y., on foot and
                                       by car
  9.
      Type etc.:
                                       pit for exploration, covered by soil com-
                                       pletely
 10.
      Host rock:
 11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks;
                                       upper horizon (footwall-side orebody)
      Amount of the orebody;
      Direction of the orebody;
                                       strike
                                                                 dip *
                                       (Direction of the ore zone;
                                                                  N 20°E )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                        m
                                       extension to dip-side
                                                                        m
                                      width
                                                                        m
      Shape of the orebody;
12.
      Chromite banding around the
          orebody:
                                      not observed
      Fault around the orebody:
13.
                                      not observed
14.
     Ore:
          Type of the ore;
                                      massive
          Ore minerals;
                                      chromite
          Grade of the ore;
                                      macroscopic estimation,
15.
     The largest scale of the
                                      extension to strike-side
                                                                  0.6
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                  0.4
                                                                        m
                                      width
                                                                  0.2
                                                                        m
     Volume of the trench estimated:
16.
                                                                <1
                                                                        m<sup>3</sup>
17.
     The largest amount of the ore
         estimated which is taken
         from the trench:
                                                                < 1
                                                                        ton
18.
     Amount of stock of the ore:
                                      very small
19.
     Relation to the other trenches
         and galleries:
                                      TA-11,12,13,14,15
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-5
```

```
1.
      Number of trench:
                                       TA-17
  2.
      Project No.:
                                       78/26
  3.
      Area:
                                       Kopdag
  4.
      Map No.:
                                       Erzincan, i-44, a2, No.2
  5.
      Coordinates:
                                       25.84 N.
                                                          06.40 E
 6.
      Altitude:
                                       1,980 m
 7.
      Name of the mine:
                                       Civelek (2,000) (northern chrome zone)
 8.
      Location and communication:
                                       Yayladere, Sıçankale Y., Aşkale, Erzurum,
                                       40 minutes from Siçankale Y., on foot and
                                       by car
 9.
      Type etc.:
                                       trench for exploration
10.
      Host rock :
                                       serpentinite (powdery)
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks:
                                       upper horizon (footwall-side orebody)
      Amount of the orebody;
      Direction of the orebody;
                                       strike
                                                     N 20° - 38° E dip 28° - 72° NW
                                       (Direction of the ore zone;
                                                                            )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                    հ
                                                                         m
                                       extension to dip-side
                                                                   0.5
                                                                         m
                                       width
                                                                   1.5
                                                                         m
      Shape of the orebody;
                                       layered
12.
      Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       strike N 82°E dip 72°N
14.
      Ore:
          Type of the ore;
                                       massive, disseminated, powdery
          Ore minerals ;
                                       chromite
          Gangue minerals
                                       serpentine, stichtite
          Grade of the ore;
                                       macroscopic estimation, 30 - 35 % Cr2O3
15.
      The largest scale of the
                                       extension to strike-side
                                                                    6
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                    0.5 m
                                       width
                                                                    2
                                                                         m
      Volume of the trench estimated:
16.
                                                                   30
                                                                         m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                   20
                                                                         ton
18.
     Amount of stock of the ore:
                                      very small
     Relation to the other trenches
19.
         and galleries:
                                      TB-23
20.
     Laboratorical tests:
                                      X-ray diffractive analysis (Acr-4)
21.
     Remarks:
                                      refer Plate 7-5
```

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Number of trench:
   1.
                                          TA-18
        Project No.:
   2.
                                          78/26
   3.
       Area:
                                          Kopdag
   4.
       Map No.:
                                          Erzincan, i-44, a2, No.2
   5.
       Coordinates:
                                          26.25 N.
                                                            06.50 E
   6.
       Altitude:
                                          1,980 m
       Name of the mine:
   7.
                                         Civelek (2,000) (northern chrome zone)
       Location and communication:
   8.
                                         Kırıcakdere, Sıçankale Y., Aşkale, Erzurum,
                                         35 minutes from Siçankale Y., by car
  9.
       Type etc.:
                                         trench for exploitation
 10.
       Host rock:
                                         strongly serpentinized dunite
 11.
       Orebody:
       Stratigraphic horizon in
           ultrabasic rocks:
                                         upper horizon (hangingwall-side orebody)
       Amount of the orebody:
                                         1
       Direction of the orebody;
                                         strike
                                                                    dip 90°
                                         (Direction of the ore zone; N 65°E)
       Scale of the orebody observed;
                                         extension to strike-side
                                                                      3.5 m
                                         extension to dip-side
                                                                      1.6
                                                                           m
                                         width
                                                                      0.7
                                                                           m
      Shape of the orebody;
                                         lenticular
      Chromite banding around the
 12.
           orebody:
                                        not observed
 13.
      Fault around the orebody:
                                        not observed
 14.
      Ore:
           Type of the ore;
                                        massive, brecciated, powdery
           Ore minerals:
                                        chromite
           Grade of the ore:
                                        macroscopic estimation, 25 - 40 % Cr<sub>2</sub>O<sub>3</sub>
                                        analytical value, 35.87 % \rm Cr_2O_3 from the
                                        outcrop, random sample
15.
      The largest scale of the
                                        extension to strike-side
                                                                      15
                                                                           m
          orebody estimated:
                                        extension to dip-side
                                                                       2.5 m
                                        width
                                                                       2.5 m
16.
      Volume of the trench estimated:
                                                                     300 m^{3}
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                     315 ton
18.
      Amount of stock of the ore:
                                        30 ton (25 - 35 % Cr<sub>2</sub>O<sub>3</sub> estimated)
19.
      Relation to the other trenches
          and galleries:
                                        TB-1,2
20.
     Laboratorical tests:
                                        chemical analysis of the ore (Acr-3)
21.
     Remarks:
                                        refer Plate 7-5
```

1.	Number of trench:	TA-19.
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.1
5.	Coordinates:	21.60 N, 99.18 E
6.	Altitude:	1,710 m
7.	Name of the mine:	Hacıbektaşkomu (10,000)
8.		Kayınlıdere, Hacıbektaşkomu, Çayırlı, Erzincan, 20 minutes from Hacıbektaşkomu on foot and by jeep
9.	Type etc.:	trench for exploitation
10.	Host rock:	strongly serpentinized dunite and serpentinite (powdery)
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	middle horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 35° - 55°W dip 40° - 80°NE (Direction of the ore zone; N 30°W)
	Scale of the orebody observed;	extension to strike-side * m extension to dip-side 0.5 m width 0.15 m
	Shape of the orebody;	lenticular, network Orecody is disseminated or spread into branches in the host rock
		initiated of spread into pranches in the host rock
12.	Chromite banding around the	•
	orebody:	not observed
13.	orebody: Fault around the orebody:	•
	orebody: Fault around the orebody: Ore:	not observed strike N 15°W dip 70°E
13.	orebody: Fault around the orebody:	not observed
13.	orebody: Fault around the orebody: Ore: Type of the ore;	not observed strike N 15°W dip 70°E massive, disseminated, powdery
13.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite)
13. 14.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore;	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃
13. 14.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m
13. 14.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m
13. 14.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m width 2 m
13. 14.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m width 2 m 50 m ³
13. 14. 15.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench:	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m width 2 m
13. 14. 15. 16. 17.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore;	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m width 2 m 50 m ³
13. 14. 15.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore: Relation to the other trenches	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m width 2 m 50 m ³
13. 14. 15. 16. 17.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore; Relation to the other trenches and galleries:	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m width 2 m 50 m ³
13. 14. 15. 16. 17.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore: Relation to the other trenches	not observed strike N 15°W dip 70°E massive, disseminated, powdery chromite (uvarovite) macroscopic estimation, 35 - 40 % Cr ₂ O ₃ extension to strike-side 11 m extension to dip-side 1.5 m width 2 m 50 m ³

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TA-20
      Number of trench:
  2.
      Project No.:
                                        78/26
  3.
      Area:
                                       Kopdağ
      Map No.:
  4.
                                       Erzincan, i-44, a2, No.1
  5.
      Coordinates:
                                       21.61 N.
                                                          99.18 E
  6.
      Altitude:
                                       1.705 m
  7.
      Name of the mine:
                                       Hacıbektaşkomu (10,000)
      Location and communication:
 8.
                                       Kayınlıdere, Hacıbektaşkomu, Çayırlı
                                       Erzincan, 20 minutes from Hacıbektaşkomu
                                       on foot and by jeep
 9.
      Type etc.:
                                       trench for exploitation
10.
      Host rock:
                                       strongly serpentinized dunite and serpenti-
                                       nite (powdery)
11.
      Orebody:
      Stratigraphic horizon in
                                       middle horizon
          ultrabasic rocks;
      Amount of the orebody;
                                       1
      Direction of the orebody;
                                       strike
                                                 N 20°W, N 30°E dip 85°E, 70°W (in turn)
                                       (Direction of the ore zone;
                                                                    N 30°W )
      Scale of the orebody observed:
                                       extension to strike-side
                                                                    0.3
                                                                          m
                                       extension to dip-side
                                                                    0.3
                                                                          m
                                                                    0.15 m
                                       width
                                                                                           4
      Shape of the orebody;
                                       lenticular,
                                                    Orebody is disseminated or
                                       spread into branches in the hostrock
12.
      Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       strike N80°E, N30°-45°E dip 60°S,60°-90°NW
14.
     Ore:
                                                                            (in turn)
          Type of the ore;
                                       massive, disseminated, powdery
          Ore minerals ;
                                       chromite
          Grade of the ore;
                                       macroscopic estimation, 35 - 40 % Cr<sub>2</sub>O<sub>3</sub>
15.
      The largest scale of the
                                       extension to strike-side
                                                                    11
                                                                          m
          orebody estimated:
                                       extension to dip-side
                                                                     1.5 m
                                                                     1.5 m
                                       width
16.
      Volume of the trench estimated:
                                                                          m^3
                                                                    75
17.
     The largest amount of the ore
          estimated which is taken
          from the treach:
                                                                    85
                                                                          ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries :
                                       TA-19,21,22,23,24,25, TB-7
20.
     Laboratorical tests:
21.
     Remarks:
                                       refer Plate 7-6
```

```
Number of trench:
  1.
                                        TA-21
  2.
       Project No.:
                                        78/26
  3.
       Area:
                                        Kopdag
  4.
       Map No. :
                                        Erzincan, i-44, a2, No.1
  5.
       Coordinates:
                                        21.67N,
                                                          99.17 E
  6.
       Altitude:
                                        1,708 m
  7.
       Name of the mine:
                                        Hacıbektaşkomu (10,000)
  8.
       Location and communication:
                                       Kayınlıdere, Hacıbektaşkomu, Çayırlı,
                                       Erzincan, 20 minutes from Hacibektaskomu
                                       on foot and by jeep
  9.
      Type etc.:
                                       trench for exploitation
 10.
      Host rock :
                                       serpentinite (powdery)
 11.
      Orebody:
      Stratigraphic horizon in
           ultrabasic rocks;
                                       middle horizon
      Amount of the orebody;
                                       1
      Direction of the orebody;
                                       strike
                                                                 dip *
                                       (Direction of the ore zone; N 30°W)
      Scale of the orebody observed;
                                       extension to strike-side
                                                                   0.1
                                       extension to dip-side
                                                                   0.3
                                                                         m
                                       width
                                                                   0.05 m
      Shape of the orebody;
                                       lenticular
12.
      Chromite banding around the
          orebody:
                                       strike N 30°W dip 50°E
13.
      Fault around the orebody:
                                       not observed
14.
     Ore:
          Type of the ore :
                                       massive, disseminated, powdery
          Ore minerals;
                                       chromite
          Grade of the ore;
                                       macroscopic estimation, 10 - 35 % Cr2O3
15.
      The largest scale of the
                                       extension to strike-side
                                                                    4
                                                                         m
          orebody estimated:
                                      extension to dip-side
                                                                    2
                                                                         m
                                      width
                                                                    1
                                                                         m
16.
      Volume of the trench estimated:
                                                                         m^3
                                                                   10
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                   30
                                                                        ton
18.
     Amount of stock of the ore:
                                      1.5 ton (high-grade)
19.
     Relation to the other trenches
          and galleries:
                                      TA-19,20,22,23,24,25, TB-7
20.
     Laboratorical tests:
                                      polished section (Acr-25)
21.
     Remarks:
                                      refer Plate 7-6
```

1.	Number of trench:	TA-22
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.1
5.	Coordinates:	21.68 N. 99.15 E
6.	Altitude:	1,708 m
7.	Name of the mine:	Hacıbektaşkomu (10,000)
8.	Location and communication:	Kayınlıdere, Hacibektaşkomu, Çayırlı,
		Erzincan, 20 minutes from Hacibektaşkomu
9.	Type etc.:	on foot and by jeep trench for exploitation
	1370 0.001	tronon for exploration
10.	Host rock:	serpentinite (powdery)
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	middle horizon
	Amount of the orebody;	1 - 2
	Direction of the orebody;	strike N 10°W, N 70°W dip 65°W, 65°N (in turn)
		(Direction of the ore zone; N 30°W)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m
	Chang of the angle day	width 0.1 m
	Shape of the orebody;	lenticular
12.	Chromite banding around the	Orebody becomes thin at the end.
14.	orebody:	
13.	Fault around the orebody:	not observed
14.	Ore:	strike N 70°E dip 40°N
	Type of the ore;	massive, disseminated, powdery
	Ore minerals ;	chromite
	,	
	Grade of the ore;	macroscopic estimation, 10 - 35 % Cr ₂ O ₃
15.	The largest scale of the	
TO.	orebody estimated:	extension to strike-side 8 m
	orebody estimated:	extension to dip-side 3 m width 1.5 m
16.	Volume of the trench estimated:	width 1.5 m 140 m ³
17.	The largest amount of the ore	Leo III.
	estimated which is taken	
	from the trench:	125 ton
18.	Amount of stock of the ore:	
19.	Relation to the other trenches	
	and galleries :	TA-19,20,21,23,24,25, TB-7
20.	Laboratorical tests:	
21.	Remarks:	refer Plate 7-6
		= **** * *

8.	Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TA-23 78/26 Kopdağ Erzincan, i-44, a2, No.1 21.63 N, 99.13 E 1,707 m Hacıbektaşkomu (10,000) Kayınlıdere, Hacıbektaşkomu, Çayırlı, Erzincan, 20 minutes from Hacıbektaşkomu on foot and by jeep
9.	Type etc.:	pit, for exploration
10. 11.	Host rock : Orebody : Stratigraphic horizon in	serpentinized dunite
	ultrabasic rocks; Amount of the orebody;	middle horizon 1
	Direction of the orebody;	strike N 16°W dip 75°W
	Scale of the orebody observed;	(Direction of the ore zone; N 40°W) extension to strike-side 2 m extension to dip-side 0.8 m
	Shape of the orebody;	width 0.15 m layered
12.	Chromite banding around the orebody:	etniko N 100W dia menyy
13. 14.	Fault around the orebody:	strike N 10°W dip 75°W strike N 80°E dip 60°S
	Type of the ore; Ore minerals;	disseminated chromite
	Grade of the ore;	macroscopic estimation, 15 % Cr2O3
15.	The largest scale of the orebody estimated:	extension to strike-side 3.5 m extension to dip-side 1 m width 0.2 m
16.	Volume of the trench estimated:	width 0.2 m 10 m ³
17.	The largest amount of the ore estimated which is taken from the trench:	10 mo
18.	Amount of stock of the ore:	2.5 ton
19.	Relation to the other trenches and galleries:	TA_10 20 21 22 24 25 mp m
20.	Laboratorical tests:	TA-19,20,21,22,24,25,TB-7
21.	Remarks:	refer Plate 7-6

```
1.
      Number of trench:
                                      TA-24 (not surveyed in detail)
 2.
      Project No.:
                                      78/26
 3. Area:
                                      Kopdağ
 4.
      Map No.:
                                      Erzincan, i-44, a2, No.1
 5.
      Coordinates:
                                      21.63 N.
                                                        99.12 E
 6. Altitude:
                                      1,706 m
                                      Hacıbektaşkomu (10,000)
 7.
      Name of the mine:
 8.
      Location and communication:
                                      Kayınlıdere, Hacıbektaşkomu, Çayırlı,
                                      Erzincan, 20 minutes from Hacıbektaşkomu
                                      on foot and by jeep
                                      trench or pit for exploration, covered by
 9.
      Type etc.:
                                      soil completely
10.
      Host rock:
11.
      Orebody:
      Stratigraphic horizon in
                                      middle horizon
          ultrabasic rocks;
      Amount of the orebody:
      Direction of the orebody;
                                      strike
                                                                dip *
                                      (Direction of the ore zone; N 40°W)
      Scale of the orebody observed;
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
      Shape of the orebody;
12.
     Chromite banding around the
                                      not observed
          orebody:
13.
                                      not observed
      Fault around the orebody:
14.
     Ore:
          Type of the ore;
          Ore minerals;
                                      macroscopic estimation, *
         Grade of the ore;
15.
     The largest scale of the
                                      extension to strike-side
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
16.
     Volume of the trench estimated:
                                                                        m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                       ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                      TA-19,20,21,22,23,25,TB-7
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-6
```

```
Number of trench:
                                        TA-25
                                                (not surveyed in detail)
  2.
       Project No.:
                                        78/26
  3.
       Area:
                                        Kopdağ
  4.
       Map No.:
                                        Erzincan, i-44, a2, No.1
  5.
       Coordinates:
                                        21.63N,
                                                          99.16 E
  6.
       Altitude:
                                        1,745 m
  7.
       Name of the mine:
                                        Hacıbektaşkomu (10,000)
  8.
       Location and communication:
                                        Kayınlıdere, Hacibektaşkomu, Çayırlı,
                                        Erzincan, 20 minutes from Hacıbektaşkomu
                                        on foot and by jeep
  9.
       Type etc.:
                                        trench or pit for exploration, covered by
                                        soil completely
 10.
       Host rock :
 11.
       Orebody:
      Stratigraphic horizon in
           ultrabasic rocks:
                                        middle horizon
      Amount of the orebody:
      Direction of the orebody;
                                       strike
                                                                 dip *
                                       (Direction of the ore zone; N 30^{\circ}W)
      Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
      Shape of the orebody:
12.
      Chromite banding around the
          orebody:
                                       not observed
      Fault around the orebody:
13.
                                       not observed
14.
      Ore:
          Type of the ore :
          Ore minerals :
          Grade of the ore;
                                       macroscopic estimation, *
15.
      The largest scale of the
                                       extension to strike-side
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
16.
     Volume of the trench estimated:
                                                                 < 1
                                                                        m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
18.
     Amount of stock of the ore:
     Relation to the other trenches
          and galleries:
                                      TA-19,20,21,22,23,24,TB-7
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-6
```

```
TA-26
 1.
     Number of trench:
 2.
     Project No.:
                                      78/26
 3. Area:
                                      Kopdağ
 4. Map No.:
                                      Erzincan, i-44, a2, No.1
                                                        99.48 E
 5.
     Coordinates:
                                      21.54 N.
 6.
     Altitude:
                                      1,750 m
 7. Name of the mine:
                                      Hacıbektaşkomu (10,000)
                                      Hacıbektaşkomu, Çayırlı Erzincan, 15 minutes
 8.
     Location and communication:
                                      from Hacıbektaşkomu on foot
 9.
      Type etc.:
                                      pit for exploration
10.
     Host rock:
                                      serpentinized harzburgite
11.
     Orebody:
     Stratigraphic horizon in
                                      middle horizon
          ultrabasic rocks;
      Amount of the orebody:
     Direction of the orebody:
                                                        N 40°E dip 55°NW
                                      strike
                                      (Direction of the ore zone; N 55°W)
     Scale of the orebody observed;
                                      extension to strike-side
                                                                       m
                                      extension to dip-side
                                                                       m
                                      width
                                                                       m
                                      layered
     Shape of the orebody;
12.
     Chromite banding around the
                                      strike N 40°E dip 55°NW
          orebody:
13.
                                      not observed
     Fault around the orebody:
14.
     Ore:
                                      disseminated
          Type of the ore;
         Ore minerals;
                                      chromite
                                      macroscopic estimation, very low-grade
          Grade of the ore:
                                      Very small amount of chromite banded or
                                      disseminated.
15.
     The largest scale of the
                                      extension to strike-side
                                                                       m
         orebody estimated:
                                      extension to dip-side
                                                                       m
                                      width
                                                                       m
16.
                                                               < 1
                                                                       m^3
     Volume of the trench estimated:
     The largest amount of the ore
17.
         estimated which is taken
         from the trench:
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TA-27, 28, TB-6
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-6
```

	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TA-27 78/26 Kopdağ Erzincan, i-44, a2, No.1 21.54 N, 99.49 E 1,745 m Hacıbektaşkomu (10,000) Hacıbektaşkomu, Çayırlı, Erzincan, 15 minutes from Hacıbektaşkomu on foot
9.	Type etc.:	trench for exploration, covered by soil in part (3 trenches are defined)
10. 11.	Host rock: Orebody: Stratigraphic horizon in	serpentinized harzburgite
	ultrabasic rocks;	middle horizon
	Amount of the orebody; Direction of the orebody;	* strike N 85°W dip 60°N (Direction of the ore zone; N 55°W)
	Scale of the orebody observed;	extension to strike-side * m extension to dip-side * m width 0.45 m
	Shape of the orebody;	layered
12. 13.	Chromite banding around the orebody: Fault around the orebody:	strike N 85°W dip 60°N not observed
14.	Ore: Type of the ore; Ore minerals; Gangue minerals;	disseminated, banded chromite serpentine
15.	Grade of the ore; The largest scale of the orebody estimated:	macroscopic estimation, very low-grade extension to strike-side * m extension to dip-side * m width * m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench:	< 1 m ³
18.	Amount of stock of the ore:	
19.	Relation to the other trenches and galleries:	TA-26,28, TB-6
20. 21.	Laboratorical tests: Remarks:	refer Plate 7-6

1. 2. 3. 4. 5. 6. 7.		TA-28 78/26 Kopdağ Erzincan, i-44, a2, No.1 21.52 N, 99.50 E 1,770 m Hacıbektaşkomu (10,000) Hacıbektaşkomu, Çayırlı, 1 20 minutes from Hacıbektaşk	Erzincan,
9.	Type etc.:	trench for exploration	
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody;	-	° NW, 40° N (in turn)
	Scale of the orebody observed;	(Direction of the ore zone; extension to strike-side extension to dip-side width	N 55°W) 0.5 m * m 0.45 m
	Shape of the orebody;	lenticular	
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed not observed disseminated chromite (uvarovite)	
	Grade of the ore;	macroscopic estimation,	very low-grade
15.	The largest scale of the orebody estimated:	extension to strike-side extension to dip-side width	4 m 1.2 m 0.6 m
16.	Volume of the trench estimated:	Within	6 m ³
17.	The largest amount of the ore estimated which is taken from the trench:		10 ton
18.	Amount of stock of the ore:	_	10 1011
19.	Relation to the other trenches and galleries:	TA-26,27,TB-6	
20.	Laboratorical tests :	-	
21.	Remarks:	refer Plate 7-6	

-	N. 1 C/ 1	
1.	Number of trench:	TA-29
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.4
5.	Coordinates:	19.22 N, 00.13 E
6.	Altitude:	1,590 m
7.	Name of the mine:	Magaradere (25,000) (southern chrome zone)
8.	Location and communication:	Kemsakal Sr., Karaali komu, Çayırlı, Erzincan, 30 minutes from Erbaş station on foot and by jeep
9.	Type etc.:	trench for exploration
10.	Host rock:	silicified, lateritized dunite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks ;	middle horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 80°E dip 60°N
		(Direction of the ore zone; N 75°E)
	Scale of the orebody observed;	extension to strike-side 5.5 m
		extension to dip-side 0.5 m
		width 0.3 m
	Shape of the orebody;	layered
10		
12.	Chromite banding around the	water I
10	orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	massive, disseminated,
	Ore minerals;	chromite (uvarovite)
	Gangue minerals;	serpentine, silica mineral
	Grade of the ore;	macroscopic estimation, 30 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 7 m
	orebody estimated :	extension to dip-side 0.5 m
	-	width 0.5 m
16.	Volume of the trench estimated:	4 m ³
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	6 ton
18.	Amount of stock of the ore:	1.5 ton (more than 45% Cr ₂ O ₃ estimated)
19.	Relation to the other trenches	,
	and galleries :	TA-30,31,32,32A,32B
20.	Laboratorical tests:	
21.	Remarks:	refer Plate 7-7

-1.	Number of trench:	TA-30
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.4
5.	Coordinates:	19.21 N, 00.10 E
6.	Altitude:	1,587 m
7.	Name of the mine:	Magaradere (25,000) (southern chrome zone)
8.	Location and communication:	Kemsakal Sr., Karaalikomu, Çayırlı, Erzincan, 30 minutes from Erbaş station
9.	Type etc.:	on foot and by jeep trench for exploration
10.	Host rock:	silicified, lateritized dunite
11.	Orebody:	
	Stratigraphic horizon in ultrabasic rocks; Amount of the orebody;	middle horizon
	Direction of the orebody;	strike N 65°E dip 75°N
	biroomon of the cresouy,	(Direction of the ore zone; N 75°E)
	Scale of the orebody observed;	extension to strike-side * m extension to dip-side 0.5 m width 0.15 m
	Shape of the orebody;	layered
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	disseminated
	Ore minerals ;	chromite
	Gangue minerals ;	serpentine, silica mineral
	Grade of the ore;	macroscopic estimation, 30 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 5 m
	orebody estimated:	extension to dip-side 0.5 m
	ozoouj ozoznasou .	width 0.2 m
16.	Volume of the trench estimated:	2 m ³
17.	The largest amount of the ore estimated which is taken	
	from the trench:	2 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	mt 00 01 00 001 00D
	and galleries:	TA-29,31,32,32A,32B
20.	Laboratorical tests:	- make misks # #
21.	Remarks:	refer Plate 7-7

```
Number of trench:
                                        TA-31
 1.
      Project No.:
 2.
                                        78/26
 3.
      Area:
                                        Kopdağ
 4.
                                        Erzincan, i-44, a2, No.4
      Map No.:
 5.
      Coordinates:
                                        19.19 N.
                                                           00.14 E
 6.
      Altitude:
                                        1,570 m
 7.
      Name of the mine:
                                        Magaradere (25,000) (southern chrome zone)
      Location and communication:
                                        Kemsakal Sr., Karaali komu, Cavirli.
                                        Erzincan, 30 minutes from Erbaş station
                                        on foot and by jeep
 9.
      Type etc.:
                                        trench for exploration
10.
      Host rock:
                                        silicified, lateritized dunite
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks;
                                        middle horizon
      Amount of the orebody;
      Direction of the orebody;
                                        strike
                                                                   dip
                                        (Direction of the ore zone;
                                                                              )
      Scale of the orebody observed;
                                        extension to strike-side
                                                                           m
                                        extension to dip-side
                                                                           m
                                        width
                                                                           m
      Shape of the orebody:
                                        The orebody is included as gravels
                                        (5 - 20 cm subround size) in talus deposit
12.
      Chromite banding around the
          orebody:
                                        not observed
13.
      Fault around the orebody:
                                        not observed
14.
     Ore:
                                        massive, disseminated
          Type of the ore;
          Ore minerals;
                                        chromite (uvarovite)
          Grade of the ore;
                                        macroscopic estimation, > 40 % Cr<sub>2</sub>O<sub>3</sub>
15.
      The largest scale of the
                                        extension to strike-side
                                                                           m
          orebody estimated:
                                        extension to dip-side
                                                                     *
                                                                           m
                                        width
                                                                           m
16.
      Volume of the trench estimated:
                                                                           m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
     Amount of stock of the ore:
                                        0.3 ton (
                                                   40 % Cr<sub>2</sub>O<sub>3</sub> estimated)
19.
     Relation to the other trenches
          and galleries:
                                        TA-29,30,32,32A,32B
20.
     Laboratorical tests:
21.
     Remarks:
                                        refer Plate 7-7
```

1.	Number of trench:	TA-32
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.4
5.	Coordinates:	19.31 N, 00.52 E
6.	Altitude:	1,555 m
7.	Name of the mine:	Magaradere (25,000) (southern chrome zone)
8.	Location and communication:	Kemsakal Sr., Karaali komu, Çayırlı,
		Erzincan, 30 minutes from Erbaş station
		on foot and by jeep
9.	Type etc.:	pit for exploration
		por arm confirmation
10.	Host rock:	serpentinized dunite
11.	Orebody:	•
	Stratigraphic horizon in	
	ultrabasic rocks;	middle horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 80°W dip 85°S
	,	(Direction of the ore zone; N 75°E)
	Scale of the orebody observed;	extension to strike-side 2 m
	,	extension to dip-side 1.5 m
		width 0.45 m
	Shape of the orebody;	lenticular, network
	Simpo of the officery,	londinary north
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	strike N 60°E, N 25°E dip 15°N,75°W (in turn)
14.	Ore:	2,1,20 D and 2,1,10 D
	Type of the ore;	massive, disseminated
	Ore minerals;	chromite (uvarovite)
	Ore innerals,	chiomics (avaiovice)
	Grade of the ore;	macroscopic estimation, 15 - 35 % Cr ₂ O ₃
	drade or the ore ,	madroboopid domination, 15 0-10 0-208
15.	The largest scale of the	extension to strike-side 11.5 m
	orebody estimated:	extension to dip-side 4 m
	***************************************	width 1.2 m
16.	Volume of the trench estimated:	220 m ³
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	200 ton
18.	Amount of stock of the ore:	
19.	Relation to the other trenches	20 ton (30 % $\mathrm{Cr}_2\mathrm{O}_3$ estimated)
T0.		TA-29,30,31,32A,32B
20	and galleries:	IN-20,00,01,04A,04D
20. 21.	Laboratorical tests:	refer Dieto 7-7
2.1	Remarks:	refer Plate 7-7

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TA-32A 78/26 Kopdağ Erzincan, i-44, a2, No.4 19.32 N, 00.54 E 1,550 m Mağaradere (25,000) (southern chrome zone Kemsakal Sr., Karaali komu, Çayırlı, Erzincan, 30 minutes from Erbaş station on foot and by jeep	э)
9.	Type etc.:	trench for exploration	
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody;	middle horizon * strike	
12.	Chromite banding around the		
	orebody:	not observed	
13. 14.	Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed disseminated chromite	
	Grade of the ore;	macroscopic estimation, *	
15.	The largest scale of the orebody estimated:	extension to strike-side 5.5 m extension to dip-side 0.5 m width 0.4 m	
16.	Volume of the trench estimated:	3 m ³	
17.	The largest amount of the ore estimated which is taken from the trench:	4 ton	
18.	Amount of stock of the ore:	-	
19. 20.	Relation to the other trenches and galleries : Laboratorical tests :	TA-29,30,31,32,32B	
21.	Remarks:	refer Plate 7-7	
	•	~ · ·	

1.	Number of trench:	TA-32B (not surveyed in detail)
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.4
5.	Coordinates:	19.28 N, 00.48 E
6.	Altitude:	1,552 m
7.	Name of the mine:	Magaradere (25,000) (southern chrome zone)
8.	Location and communication:	Kemsakal Sr., Karaali komu Çayırlı, Erzincan, 30 minutes from Erbaş station on foot and by jeep
9.	Type etc.:	trench for exploration
10.	Host rock:	silicified, serpentinized dunite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	middle horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 70°W dip 63°N
	Scale of the orebody observed;	(Direction of the ore zone; N 75°E) extension to strike-side 4 m
		extension to dip-side * m
	Chang of the anchoder.	width 0.1 m
	Shape of the orebody;	layered
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	100 00001 00
	Type of the ore;	disseminated
	Ore minerals :	chromite
	,	
	Grade of the ore;	macroscopic estimation, $<20\%~\mathrm{Cr}_2\mathrm{O}_3$
15.	The largest scale of the	extension to strike-side 4 m
	orebody estimated:	extension to dip-side 0.6 m
	•	width 0.2 m
16.	Volume of the trench estimated:	2 $^{\mathrm{m}^{3}}$
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	2 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
	and galleries :	TA-29,30,31,32,32A
20.	Laboratorical tests:	-
21.	Remarks:	no sketch map.
		•

```
1.
       Number of trench:
                                        TA-33
  2.
       Project No.:
                                        78/26
  3.
      Area:
                                        Kopdag
  4.
      Map No.:
                                        Erzincan, i-44, a2, No.4
       Coordinates:
                                        16.49 N.
                                                           00.92 E
  6.
      Altitude:
                                        1,650 m
  7.
      Name of the mine:
                                        Kârhanekomu (25,000) (southern chrome zone)
      Location and communication:
                                        Killikdere, Kârhanekomu Tercan, Erzurum
                                        20 minutes from Karhanekomu on foot and
                                        by ieep
  9.
      Type etc.:
                                        trench for exploration
 10.
      Host rock:
                                        strongly serpentinized harzburgite and
                                        serpentinite
 11.
      Orebody:
      Stratigraphic horizon in
           ultrabasic rocks;
                                        lower part of the middle horizon
      Amount of the orebody;
      Direction of the orebody;
                                        strike
                                                           N 30°E dip 30°W*
                                        (Direction of the ore zone; *
      Scale of the orebody observed:
                                        extension to strike-side
                                                                           m
                                        extension to dip-side
                                                                     0.5
                                                                          m
                                        width
                                                             0.3 - 0.75
                                                                          m
      Shape of the orebody:
                                        lenticular. Orebody becomes thin or spreads
                                        into branches in the host rock at the end.
12.
      Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       assumed, strike N 60°W dip 20°N
14.
      Ore:
          Type of the ore;
                                       massive, disseminated, powdery
          Ore minerals;
                                       chromite (uvarovite)
          Grade of the ore;
                                       macroscopic estimation, 25 - 40 Cr<sub>2</sub>O<sub>3</sub>
15.
      The largest scale of the
                                       extension to strike-side
                                                                     14
                                                                          m
          orebody estimated:
                                       extension to dip-side
                                                                      6
                                                                          m
                                       width
                                                                      1
                                                                          m
16.
      Volume of the trench estimated:
                                                                    180
                                                                          m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                    300
                                                                          ton
18.
     Amount of stock of the ore:
                                       3 ton (>40\% Cr<sub>2</sub>O<sub>3</sub> estimated)
19.
     Relation to the other trenches
          and galleries:
     Laboratorical tests:
20.
21.
     Remarks:
                                       refer Plate 7-7
```

1.	Number of trench:	TA-34
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.2
5.	Coordinates:	21.63 N, 05.36 E
6.	Altitude:	1,690 m
7.	Name of the mine:	Cancikkomu (10,000) (southern chrome zone)
8.	Location and communication:	Taşocağı Tepe, Cancıkkomu, Aşkale Erzurum, 45 minutes from Sıçankale Y., by jeep
9.	Type etc.:	trench for exploitation
10.	Host rock:	latertic serpentinite from harzburgite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks ;	middle horizon
	Amount of the orebody;	*
	Direction of the orebody;	strike * dip *
		(Direction of the ore zone; N 25°W)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m
	Shape of the orebody;	width * m lenticular, network. Orebody coexist with carbonate rock (dolomite). Lenticular carbonate body is much found.
12.	Chromite banding around the orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	not observed
7.2.4	Type of the ore;	massive, disseminated
	Ore minerals;	chromite (uvarovite)
	Gangue minerals ;	serpentine, magnetite, dolomite (abundant)
	Grade of the ore ;	macroscopic estimation, 20 - 40 % Cr ₂ O ₃
	Grade of the ore,	macroscopic estimation, 20 10 % Cr2O3
15.	The largest scale of the	extension to strike-side 10 m
	orebody estimated:	extension to dip-side 3 m
		width 1 m
16.	Volume of the trench estimated:	85 m ³
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	100 ton
18.	Amount of stock of the ore:	20 ton ($> 40\% \text{ Cr}_2\text{O}_3$)
19.	Relation to the other trenches	
	and galleries:	TA-35, TB-11
20.	Laboratorical tests:	thin section (A-49) polished section (Acr-51) X-ray diffractive analysis (A-49)
21.	Remarks:	refer Plate 7-6

1.	Number of trench:	TA-35		
2.	Project No.:	78/26		
3.	Area:	Kopdağ		
4.	Map No.:	Erzincan, i-44, a2, No.2		
5.	Coordinates:	21.60 N, 05.48 E		
6.	Altitude:	1,675 m		
7.	Name of the mine:	Cancikkomu (10,000) (souther	n chro	ome zone)
8.	Location and communication:	Taşocaği Tepe, Cancıkkomu, Erzurum, 45 minutes from Si by jeep		
9.	Type etc.:	trench for exploration		
10.	Host rock:	lateritic serpentinite from ha	rzburg	gite
11.	Orebody:			
	Stratigraphic horizon in			
	ultrabasic rocks;	middle horizon		
	Amount of the orebody;	1 *		
	Direction of the orebody;	· · · · · · · · · · · · · · · · · · ·	p *	
		(Direction of the ore zone;		•
	Scale of the orebody observed;		0.2	m m
			0.1	m
	Shape of the orebody;	network. Chromite is found it rock (dolomite). Lenticular	in car	
12.	Chromite banding around the	much found.		
	orebody:	not observed		
13.	Fault around the orebody:	not observed		
14.	Ore:			
	Type of the ore;	massive, disseminated		
	Ore minerals;	chromite		
	Gangue minerals;	serpentine, magnetite, dolom	ite (al	bundant)
	Grade of the ore;	macroscopic estimation, 20	- 40 %	$_{0}^{\prime}\mathrm{Cr_{2}O_{3}}$
		<u>-</u>		
15.	The largest scale of the	extension to strike-side	2	m
	orebody estimated:	extension to dip-side	0.6	m
		width	0.3	m
16.	Volume of the trench estimated:		1	m^3
17.	The largest amount of the ore			
	estimated which is taken			
	from the trench:		1	ton
18.	Amount of stock of the ore:	-		
19.	Relation to the other trenches			
-	and galleries:	TA-34, TB-11		
20.	Laboratorical tests:	thin section (A-48)		
21.	Remarks:	refer Plate 7-6		

```
1.
      Number of trench:
                                        TA-36
      Project No.:
                                        78/26
  3.
                                       Kopdag
      Area:
  4.
      Map No.:
                                       Erzincan, i-44, a2, No.3
      Coordinates:
  5.
                                       18.72 N,
                                                          03.31 E
  6.
      Altitude:
                                       1,685 m
  7.
      Name of the mine:
                                       Güney Erbaş (25,000) (southern chrome zone)
      Location and communication:
                                       Yayla Br., Erbaş istasyon, Tercan,
                                       Erzincan, 20 minutes from Erbaş station
                                       on foot across Karasu
  9.
      Type etc.:
                                       trench for exploration covered by soil mostly
 10.
      Host rock:
                                       serpentinized dunite and serpentinite (powdery)
 11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks :
                                       middle horizon
      Amount of the orebody:
      Direction of the orebody;
                                       strike
                                                          N 75°W * dip *
                                       (Direction of the ore zone;
                                                                    N 60°E )
      Scale of the orebody observed:
                                       extension to strike-side
                                                                          m
                                       extension to dip-side
                                                                          m
                                       width
                                                                          m
      Shape of the orebody;
12.
      Chromite banding around the
          orebody:
                                       strike N75°W dip 42°N
13.
      Fault around the orebody:
                                       not observed
14.
      Ore:
          Type of the ore;
                                       massive, disseminated
          Ore minerals;
                                       chromite (uvarovite)
          Grade of the ore;
                                       macroscopic estimation, *
15.
      The largest scale of the
                                       extension to strike-side
                                                                     7
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                     3
                                                                         m
                                       width
                                                                     1
                                                                         m
16.
      Volume of the trench estimated:
                                                                         m^3
                                                                    20
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                    70
                                                                         ton
18.
     Amount of stock of the ore:
                                       30 ton (high-grade ore taken from
                                       trenches TA-36~41, 40-45\% Cr<sub>2</sub>O<sub>3</sub>)
19.
     Relation to the other trenches
          and galleries:
                                       TA-37,38,39,40,41,TB-12
20.
     Laboratorical tests:
21.
     Remarks:
                                       refer Plate 7-6
```

```
Number of trench:
  1.
                                       TA-37 (not surveyed in detail)
      Project No.:
 2.
                                       78/26
  3.
      Area:
                                       Kopdag
 4.
      Map No.:
                                       Erzincan, i-44, a2, No.3
 5.
      Coordinates:
                                       18.71 N.
                                                         03.32 E
 6.
      Altitude:
                                       1,685 m
 7.
      Name of the mine:
                                      Güney Erbaş (25,000) (southern chrome zone)
 8.
      Location and communication:
                                       Yayla Br., Erbaş istasyon, Tercan,
                                       Erzincan, 20 minutes from Erbaş station
                                      on foot across Karasu
      Type etc.:
 9.
                                      pit for exploration, covered by soil com-
                                      pletely
10.
      Host rock:
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks :
                                      middle horizon
      Amount of the orebody:
     Direction of the orebody:
                                      strike
                                                                dip *
                                      (Direction of the ore zone; N 60°E)
     Scale of the orebody observed;
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
     Shape of the orebody:
     Chromite banding around the
12.
          orebody:
                                      not observed
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore;
          Ore minerals;
          Grade of the ore;
                                      macroscopic estimation, *
15.
     The largest scale of the
                                      extension to strike-side
                                                                  1.6
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                  0.3
                                                                        m
                                      width
                                                                  1
                                                                        m
16.
     Volume of the trench estimated:
                                                                  1
                                                                        m^3
     The largest amount of the ore
17.
         estimated which is taken
         from the trench:
                                                                  1
                                                                        ton
18.
     Amount of stock of the ore:
     Relation to the other trenches
19.
         and galleries:
                                      TA-36,38,39,40,41, TB-12
20.
     Laboratorical tests:
     Remarks:
21.
                                      refer Plate 7-6
```

```
TA-38 (not surveyed in detail)
      Number of trench:
 1.
                                       78/26
 2.
      Project No.:
 3.
                                       Kopdağ
      Area:
                                       Erzincan, i-44, a2, No.3
 4.
      Map No. :
                                                         03.33 E
                                       18.71 N.
 5.
      Coordinates:
 6.
      Altitude:
                                       1,685 m
                                       Güney Erbaş (25,000) (southern chrome zone)
 7.
      Name of the mine:
 8.
      Location and communication:
                                       Yayla Br., Erbaş istasyon, Tercan,
                                       Erzincan, 20 minutes from Erbas station
                                       on foot across Karasu
                                       pit for exploration, covered by soil com-
 9.
      Type etc.:
                                       pletely
10.
      Host rock:
11.
      Orebody:
      Stratigraphic horizon in
                                       middle horizon
          ultrabasic rocks;
      Amount of the orebody;
      Direction of the orebody;
                                       strike
                                                                 dip *
                                       (Direction of the ore zone;
                                                                   N 65°E )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
      Shape of the orebody;
12.
      Chromite banding around the
                                       not observed
          orebody:
                                       not observed
13.
      Fault around the orebody:
14.
      Ore:
          Type of the ore;
          Ore minerals;
          Grade of the ore;
                                       macroscopic estimation, *
15.
      The largest scale of the
                                       extension to strike-side
                                                                    4
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                    0.8 m
                                       width
                                                                    1
                                                                         m
16.
      Volume of the trench estimated:
                                                                         m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                         ton
                                                                   10
18.
      Amount of stock of the ore:
19.
      Relation to the other trenches
          and galleries:
                                       TA-36,37,39,40,41, TB-12
20.
     Laboratorical tests:
     Remarks:
21.
                                       refer Plate 7-6
```

```
1.
       Number of trench:
                                        TA-39
                                                (not surveyed in detail)
       Project No. :
  2.
                                        78/26
  3.
      Area:
                                        Kopdag
  4.
      Map No.:
                                        Erzincan, i-44, a2, No.3
  5.
      Coordinates:
                                        18.71 N.
                                                           03.34 E
  6.
      Altitude:
                                        1,685 m
  7.
      Name of the mine:
                                        Güney Erbaş (25,000) (southern chrome zone)
      Location and communication:
  8.
                                        Yayla Br., Erbaş istasyon, Tercan,
                                        Erzincan, 20 minutes from Erbaş station
                                        on foot across Karasu
      Type etc.:
  9.
                                        pit for exploration, covered by soil com-
                                        pletely
10.
      Host rock:
11.
      Orebody:
      Stratigraphic horizon in
           ultrabasic rocks :
                                        middle horizon
      Amount of the orebody;
      Direction of the orebody;
                                        strike
                                                                   dip
                                        (Direction of the ore zone;
                                                                    N 60°E )
      Scale of the orebody observed;
                                        extension to strike-side
                                                                          m
                                        extension to dip-side
                                                                          m
                                        width
                                                                          m
      Shape of the orebody:
12.
      Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       not observed
14.
      Ore:
          Type of the ore ;
                                       massive
          Ore minerals;
                                        chromite (uvarovite)
          Grade of the ore;
                                       macroscopic estimation, *
15.
      The largest scale of the
                                       extension to strike-side
                                                                     1
                                                                          m
          orebody estimated:
                                       extension to dip-side
                                                                     0.3
                                                                          m
                                       width
                                                                     0.3
                                                                          m
16.
      Volume of the trench estimated:
                                                                          m^3
                                                                     1
      The largest amount of the ore
17.
          estimated which is taken
          from the trench:
                                                                     1
                                                                          ton
18.
     Amount of stock of the ore:
                                           0.1 ton (45 % Cr<sub>2</sub>O<sub>3</sub>)
19.
     Relation to the other trenches
          and galleries:
                                       TA-36,37,38,40,41,TB-12
20.
     Laboratorical tests:
21.
     Remarks:
                                       refer Plate 7-6
```

```
Number of trench:
                                      TA-40 (not surveyed in detail)
 1.
 2.
     Project No.:
                                       78/26
 3.
     Area:
                                      Kondag
     Map No.:
 4.
                                      Erzincan, i-44, a2, No.3
                                                         03.35 E
     Coordinates:
                                      18.71 N,
 6.
     Altitude:
                                      1,685 m
 7.
     Name of the mine:
                                      Güney Erbaş (25,000) (souther chrome zone)
     Location and communication:
 8.
                                      Yayla Br., Erbaş istasyon, Tercan,
                                      Erzincan, 20 minutes from Erbaş station
                                      on foot across Karasu
 9.
     Type etc.:
                                      pit for exploration, covered by soil com-
                                      pletely
10.
     Host rock:
11.
     Orebody:
     Stratigraphic horizon in
          ultrabasic rocks:
                                      middle horizon
     Amount of the orebody;
     Direction of the orebody;
                                      strike
                                                                 dip *
                                      (Direction of the ore zone;
                                                                  N 60°E )
     Scale of the orebody observed;
                                      extension to strike-side
                                                                         m
                                      extension to dip-side
                                                                         m
                                      width
                                                                        m
     Shape of the orebody;
12.
     Chromite banding around the
          orebody:
                                      not observed
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore;
          Ore minerals;
          Grade of the ore;
                                      macroscopic estimation, *
15.
     The largest scale of the
                                                                   2
                                      extension to strike-side
                                                                         m
          orebody estimated:
                                                                   0.3
                                      extension to dip-side
                                                                        m
                                                                   0.8
                                      width
                                                                        m
                                                                        m^3
16.
                                                                   1
     Volume of the trench estimated:
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                   1
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                      TA-36,37,38,39,41,TB-12
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-6
```

```
Number of trench:
                                         TA-41 (not surveyed in detail)
  2.
       Project No.:
                                         78/26
  3.
       Area:
                                         Kopdağ
  4.
       Map No.:
                                         Erzincan, i-44, a2, No.3
  5.
       Coordinates:
                                         18.71 N,
                                                           03.37 E
  6.
      Altitude:
                                         1,681 m
  7.
       Name of the mine:
                                        Güney Erbaş (25,000) (southern chrome zone)
  8.
      Location and communication:
                                        Yayla Br., Erbaş istasyon, Tercan,
Erzincan, 20 minutes from Erbaş station
                                        on foot across Karasu
  9.
       Type etc.:
                                        trench for exploration, covered by soil
                                        mostly
 10.
      Host rock:
                                        serpentinized dunite
      Orebody:
 11.
      Stratigraphic horizon in
           ultrabasic rocks:
                                        middle horizon
      Amount of the orebody:
      Direction of the orebody;
                                        strike
                                                                   dip *
                                        (Direction of the ore zone;
                                                                     N 60°E )
      Scale of the orebody observed;
                                        extension to strike-side
                                                                           m
                                        extension to dip-side
                                                                           m
                                        width
                                                                           m
      Shape of the orebody;
12.
      Chromite banding around the
          orebody:
                                        not observed
13.
      Fault around the orebody:
                                        strike N 10°W dip 40°W
      Ore:
14.
          Type of the ore;
          Ore minerals;
          Grade of the ore;
                                        macroscopic estimation, *
15.
      The largest scale of the
                                        extension to strike-side
                                                                     12
                                                                           m
          orebody estimated:
                                        extension to dip-side
                                                                      2
                                                                           m
                                        width
                                                                      1
                                                                           m
16.
      Volume of the trench estimated:
                                                                     10
                                                                           m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                     80
                                                                          ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                       TA-36,37,38,39,40,TB-12
20.
     Laboratorical tests:
21.
     Remarks:
                                       refer Plate 7-6
```

1. 2. 3. 4.	Number of trench: Project No.: Area: Map No.: Coordinates:	TA-42 78/26 Kopdag Tortum, H-45, d4, No.4 32.90 N, 31.91 E
6.	Altitude:	2,445 m
7.	Name of the mine :	Orta Tepe (25,000) (east Kop chrome zone)
8.	Location and communication:	Orta Tepe, Dencik Aşkale Erzurum, 35 minutes from Pırnakapan by car
9.	Type etc.:	pit for exploration
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks;	serpentinized dunite middle horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 62° E*dip 66° N*
		(Direction of the ore zone; N 32°E)
	Scale of the orebody observed;	extension to strike-side 3.5 m
		extension to dip-side 0.5 m
	or (4)1 1.	width 0.2 m
	Shape of the orebody;	layered
12.	Chromite banding around the	
	orebody:	strike N 62°E dip 66°N
13.	Fault around the orebody:	not observed
14.	Ore:	diagonizated banded module
	Type of the ore; Ore minerals;	disseminated, banded, nodule chromite
	Ore intherars,	Circumte
	Grade of the ore;	macroscopic estimation, 15 - 25 $\%$ $\mathrm{Cr}_2\mathrm{O}_3$
15.	The largest scale of the	extension to strike-side 5.5 m
	orebody estimated:	extension to dip-side 1.3 m
		width 0.8 m
16.	Volume of the trench estimated:	$_{14}$ $_{ m m}^3$
17.	The largest amount of the ore estimated which is taken	
	from the trench:	20 ton
18.	Amount of stock of the ore:	30 ton (20 - 30 % Cr_2O_3 , taken from trenches
19.	Relation to the other trenches	TA42-46)
	and galleries:	TA-43,44,45,46
20.	Laboratorical tests:	thin section (Acr-79) polished section
0.5	7	(Acr-80)
21.	Remarks:	refer Plate 7-7

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TA-43 78/26 Kopdağ Tortum, H-45, d4, No.4 32.89 N, 31.90 E 2,444 m Orta Tepe (25,000) (east Kop chr Orta Tepe, Dencik Aşkale Erzu minutes from Pırnakapan by car	
9.	Type etc.:	pit for exploration	
10. 11.	Host rock: Orebody: Stratigraphic horizon in	serpentinized dunite	
	ultrabasic rocks;	middle horizon	
	Amount of the orebody; Direction of the orebody;	strike N 72°E*dip	18°N*
	Scale of the orebody observed;	(Direction of the ore zone; N 3 extension to strike-side 1.5 extension to dip-side 0.4	2°E) m m
	Shape of the orebody;	width 0.3 layered	m
12.	Chromite banding around the orebody:	strike N 72°E dip 18°N	
13. 14.	Fault around the orebody: Ore:	not observed	
	Type of the ore; Ore minerals;	disseminated, banded chromite	
	Grade of the ore;	macroscopic estimation, 15 - 2	5 % Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to strike-side 8 extension to dip-side 0.5 width 0.5	m
16. 17.	Volume of the trench estimated : The largest amount of the ore	4	m ³
	estimated which is taken from the trench:	7	ton
18.	Amount of stock of the ore:	-	
19.	Relation to the other trenches and galleries:	TA-42,44,45,46	
20.	Laboratorical tests:	- motor Diato 7 7	
21.	Remarks:	refer Plate 7-7	

```
1.
      Number of trench:
                                      TA-44
                                              (not surveyed in detail)
      Project No.:
 2.
                                      78/26
     Area:
                                      Kopdag
 4.
      Map No.:
                                      Tortum, H-45, d4, No.4
 5.
      Coordinates:
                                                        31.90 E
                                      32.88 N,
 6.
      Altitude:
                                      2,444 m
 7. Name of the mine:
                                      Orta Tepe (25,000) (east Kop chrome zone)
 8.
      Location and communication:
                                      Orta Tepe, Dencik Askale, Erzurum, 35
                                      minutes from Pırnakapan by car
                                      pit for exploration, covered by soil com-
 9.
      Type etc.:
                                      pletely
10.
      Host rock:
11.
      Orebody:
      Stratigraphic horizon in
                                      middle horizon
          ultrabasic rocks;
      Amount of the orebody:
      Direction of the orebody;
                                      strike
                                                                dip *
                                      (Direction of the ore zone; N 32°E)
      Scale of the orebody observed;
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                        m
                                     width
                                                                        m
      Shape of the orebody;
12.
     Chromite banding around the
          orebody:
                                     not observed
13.
     Fault around the orebody:
                                     not observed
14.
     Ore:
          Type of the ore;
          Ore minerals;
          Grade of the ore;
                                     macroscopic estimation, *
15.
      The largest scale of the
                                      extension to strike-side
                                                                  0.4
                                                                        m
                                                                  0.2
          orebody estimated:
                                     extension to dip-side
                                                                        m
                                                                  0.2
                                     width
                                                                       m
16.
     Volume of the trench estimated:
                                                                <1
                                                                       m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                \leq 1
                                                                       ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                     TA-42,43,45,46
20.
     Laboratorical tests:
21.
     Remarks:
                                     refer Plate 7-7
```

```
1.
     Number of trench:
                                              (not surveyed in detail)
                                      TA-45
     Project No.:
 2.
                                      78/26
 3.
     Area:
                                      Kopdağ
                                      Tortum, H-45, d4, No.4
     Map No.:
 5.
     Coordinates:
                                      32.88 N,
                                                        31.90 E
     Altitude:
 6.
                                      2,443 m
     Name of the mine:
 7.
                                      Orta Tepe (25,000) (east Kop chrome zone)
     Location and communication:
 8.
                                      Orta Tepe, Dencik Askale, Erzurum,
                                      35 minutes from Pırnakapan by car
 9.
     Type etc.:
                                      pit for exploration, covered by soil com-
                                      pletely
10.
     Host rock:
11.
     Orebody:
     Stratigraphic horizon in
          ultrabasic rocks :
                                      middle horizon
     Amount of the orebody:
     Direction of the orebody;
                                      strike
                                                                dip *
                                      (Direction of the ore zone; N 32°E)
     Scale of the orebody observed :
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                       m
                                      width
                                                                       m
     Shape of the orebody;
12.
     Chromite banding around the
                                      not observed
          orebody:
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore:
         Ore minerals;
         Grade of the ore;
                                      macroscopic estimation. *
15.
     The largest scale of the
                                      extension to strike-side
                                                                  0.7
                                                                       m
         orebody estimated:
                                      extension to dip-side
                                                                  0.2
                                                                       m
                                      width
                                                                  0.3
                                                                       m
16.
     Volume of the trench estimated:
                                                                       m^3
                                                                <1
17.
     The largest amount of the ore
         estimated which is taken
         from the trench:
                                                                <1
                                                                       ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TA-42,43,44,46
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-7
```

1.	Number of trench:	TA-46		
2.	Project No.:	78/26		
3.	Area:	Kopdag		
4.	Map No.:	Tortum, H-45, d4, No.4		
5.	Coordinates:	32.87N, 31.89 E		
6.	Altitude:	2,443 m		
7.	Name of the mine:	Orta Tepe (25,000) (east Kop	chron	ne zone)
8.	Location and communication:	Orta Tepe, Dencik Aşkale, E 35 minutes from Pırnakapan k		
9.	Type etc.:	trench for exploration		
10.	Host rock:	serpentinized dunite		
11.	Orebody:			
	Stratigraphic horizon in			
	ultrabasic rocks;	middle horizon		
	Amount of the orebody;	1	- 40	CITI
	Direction of the orebody;	strike N 30°W dip		
	Scale of the orebody observed;	(Direction of the ore zone; extension to strike-side	N 32- 2	比) m
	scare of the orebody observed;		0.2	m
			0.1	m
	Shape of the orebody;	lenticular. Massive, lenticular sharp fault contact to the host	lar or	ebody has
12.	Chromite banding around the			
	orebody:	not observed		
13.	Fault around the orebody:	along the hangingwall of the or	rebody	y.
14.	Ore:			
	Type of the ore ;	massive, disseminated		
	Ore minerals;	chromite		
	Grade of the ore;	macroscopic estimation, 10 -	- 35 %	% Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side	7.5	m
	orebody estimated :		0.5	m
		•	0.4	m
16.	Volume of the trench estimated:		5	m ³
17.	The largest amount of the ore			
	estimated which is taken			
	from the trench:		5	ton
18.	Amount of stock of the ore:	-		
19.	Relation to the other trenches			
	and galleries:	TA-42,43,44,45		
20.	Laboratorical tests:	-		
21.	Remarks:	refer Plate 7-7		

```
1.
     Number of trench:
                                       TA-47
 2.
    Project No.:
                                       78/26
 3.
    Area:
                                       Kopdag
                                       Erzurum, i-45, a1, No.1
 4. Map No.:
                                       27.88 N.
                                                         33.50 E
 5. Coordinates:
                                       1,840 m
 6. Altitude:
 7. Name of the mine:
                                       Pırnakapan (25,000) (east Kop chrome zone)
 8. Location and communication:
                                       Kurudere, Pırnakapan, Aşkale, Erzurum,
                                       20 minutes from Pirnakapan on foot and by
                                       car
     Type etc.:
                                       trench for exploration, covered by soil mostly
10.
     Host rock:
                                       serpentinized dunite
11.
     Orebody:
     Stratigraphic horizon in
                                       middle horizon
          ultrabasic rocks;
     Amount of the orebody;
     Direction of the orebody;
                                       strike
                                                                 dip
                                       (Direction of the ore zone;
                                                                   N 70°W )
     Scale of the orebody observed:
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
                                       lenticular, layered,
     Shape of the orebody;
12.
     Chromite banding around the
                                       not observed
          orebody:
13.
     Fault around the orebody:
                                       strike N 80°E dip 70°N
14.
     Ore:
                                       disseminated
          Type of the ore;
          Ore minerals;
                                       chromite
          Gangue minerals;
                                       serpentine, magnesite, magnetite, olivine
          Grade of the ore;
                                       macroscopic estimation, *
15.
     The largest scale of the
                                       extension to strike-side
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
16.
     Volume of the trench estimated:
                                                                   12
                                                                         m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                       3 ton (40\% \operatorname{Cr}_2 \operatorname{O}_3), taken from trenches TA-47,48,49)
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
                                       TA-48,49,50,50(A),50(B)
         and galleries:
20.
     Laboratorical tests:
                                       thin section (Acr-85)
                                       refer Plate 7-8
21. Remarks:
```

1.	Number of trench:	TA-48
2.	Project No.:	78/26
3.	Area:	Kopdag
4.	Map No.:	Erzurum, i-45, a1, No.1
5.	Coordinates:	27.86 N, 33.54 E
6.	Altitude:	1,845 m
	Name of the mine:	Pirnakapan (25,000) (east Kop chrome zone)
8.	Location and communication:	Kurudere, Pirnakapan, Aşkale, Erzurum, 20 minutes from Pirnakapan on foot and by car
9.	Type etc.:	trench for exploitation
10.	Host rock:	serpentinized dunite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	middle horizon
	Amount of the orebody;	1 * strike N 70°W dip *
	Direction of the orebody;	
		(Direction of the ore zone; N 70°W)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m width * m
	Shape of the orebody;	•
	shape of the orebody;	*
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	assumed, strike N dip *
14.	Ore:	
	Type of the ore;	disseminated
	Ore minerals ;	chromite
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the	extension to strike-side 17 m
	orebody estimated:	extension to dip-side 4 m
		width 1 m
16.	Volume of the trench estimated:	$240 \mathrm{m}^3$
17.	The largest amount of the ore estimated which is taken from the trench:	240 ton
18.	Amount of stock of the ore:	220 0011
19.	Relation to the other trenches	
	and galleries:	TA-47,49,50,50(A),50(B)
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-8

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TA-49 78/26 Kopdağ Erzurum, i-45, a1, No.1 27.83 N, 33.60 E 1,857 m Pırnakapan (25,000) (east Kop chrome zone) Kurudere, Pırnakapan, Aşkale, Erzurum, 20 minutes from Pırnakapan on foot and by car
9.	Type etc.:	trench, gallery (open) for exploitation
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	middle horizon 1 * strike * dip * (Direction of the ore zone; N 70°W) extension to strike-side * m extension to dip-side * m
	Shape of the orebody;	width * m
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed strike N 45°E dip 76°NW disseminated chromite
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the orebody estimated:	extension to strike-side 30 m extension to dip-side 3.5 m width 1.2 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	$730 ext{ m}^3$ (Length of the gallery 19.5 m)
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches	TA-47,48,50,50(A),50(B)
20. 21.	and galleries: Laboratorical tests: Remarks:	refer Plate 7-8

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TA-50 78/26 Kopdağ Erzurum, i-45, a1, No.1 27.73 N, 33.62 E 1,875 m Pırnakapan (25,000) (east Kop chrome zone) Kurudere, Pırnakapan, Aşkale, Erzurum, 20 minutes from Pırnakapan on foot and by car
9.	Type etc.:	pit for exploration
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody;	serpentinized dunite middle horizon
	Direction of the orebody;	strike N 78°E dip 32°N
	Scale of the orebody observed;	(Direction of the ore zone; *) extension to strike-side 4 m extension to dip-side 3 m width 0.1 m
	Shape of the orebody;	lenticular
12. 13.	Chromite banding around the orebody: Fault around the orebody:	strike N 78°E dip 32°N not observed
14.	Ore: Type of the ore; Ore minerals;	massive, disseminated, banded chromite
	Grade of the ore;	macroscopic estimation, 20 - 35 $\%$ Cr_2O_3
15.	The largest scale of the orebody estimated :	extension to strike-side 3.2 m extension to dip-side 3.5 m width 0.3 m
16.	Volume of the trench estimated:	$30 ext{m}^3$
17.	The largest amount of the ore estimated which is taken from the trench:	10 ton
18.	Amount of stock of the ore:	- -
19.	Relation to the other trenches	very small
74,	and galleries:	TA-47,48,49,50(A),50(B)
20. 21.	Laboratorical tests : Remarks :	polished section (Acr-86) refer Plate 7-8

```
1.
      Number of trench:
                                         TA-50(A) (not surveyed in detail)
  2.
      Project No.:
                                         78/26
  3.
      Area:
                                         Kopdağ
  4.
      Map No.:
                                         Erzurum, i-45, a1, No.1
      Coordinates:
                                         27,77N,
                                                            33.65 E
  6.
      Altitude:
                                         1,885 m
  7.
      Name of the mine:
                                         Pirnakapan (25,000) (east Kop chrome zone)
      Location and communication:
  8.
                                        Kurudere, Pırnakapan, Aşkale, Erzurum, 20 minutes from Pırnakapan on foot and by
  9.
      Type etc.:
                                        trench for exploration
 10.
      Host rock:
                                        dunite, harzburgite
 11.
      Orebody:
      Stratigraphic horizon in
           ultrabasic rocks ;
                                        middle horizon
      Amount of the orebody:
      Direction of the orebody;
                                        strike
                                                                    dip
                                        (Direction of the ore zone;
                                                                               )
      Scale of the orebody observed:
                                        extension to strike-side
                                                                            m
                                        extension to dip-side
                                                                            m
                                        width
                                                                            m
      Shape of the orebody;
                                        Orebody is not observed in the trench.
12.
      Chromite banding around the
          orebody:
                                        not observed
13.
      Fault around the orebody:
                                        not observed
14.
      Ore:
          Type of the ore:
          Ore minerals;
          Grade of the ore;
                                        macroscopic estimation, -
      The largest scale of the
15.
                                        extension to strike-side
                                                                           m
          orebody estimated:
                                        extension to dip-side
                                                                           m
                                        width
                                                                           m
16.
      Volume of the trench estimated:
                                                                           m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
     Amount of stock of the ore:
18.
19.
     Relation to the other trenches
          and galleries:
                                        TA-47,48,49,50,50(B)
20.
     Laboratorical tests:
21.
     Remarks:
                                       refer Plate 7-8
```

```
TA-50(B)
     Number of trench:
 1.
 2.
     Project No.:
                                      78/26
    Area:
 3.
                                      Kopdağ
                                      Erzurum, i-45, a1, No.1
     Map No.:
     Coordinates:
                                      27.74 N,
                                                         33.65 E
     Altitude:
 6.
                                      1,876 m
     Name of the mine:
                                      Pirnakapan (25,000) (east Kop chrome zone)
 7.
     Location and communication:
 8.
                                      Kurudere, Pirnakapan, Askale, Erzurum,
                                      20 minutes from Pirnakapan on foot and by
 9.
                                      trench for exploration
     Type etc.:
10.
     Host rock:
                                      dunite, harzburgite
11.
     Orebody:
     Stratigraphic horizon in
                                      middle horizon
          ultrabasic rocks;
     Amount of the orebody;
     Direction of the orebody;
                                      strike
                                                                dip
                                      (Direction of the ore zone;
                                                                           )
     Scale of the orebody observed;
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
     Shape of the orebody;
                                      Orebody is not observed in the trench.
12.
     Chromite banding around the
                                      not observed
          orebody:
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore;
         Ore minerals;
         Grade of the ore;
                                      macroscopic estimation, -
15.
     The largest scale of the
                                      extension to strike-side
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
                                                                   5
16.
     Volume of the trench estimated:
                                                                        m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
     Amount of stock of the ore:
18.
19.
     Relation to the other trenches
                                      TA-47,48,49,50,50(A)
          and galleries:
20.
     Laboratorical tests:
                                      refer Plate 7-8
21.
     Remarks:
```

1. 2. 3. 4. 5. 6.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine:	TB-1 78/26 Kopdag Erzincan, i-44, a2, No.2 26.24 N, 06.40 E 1,980 m Civelek (2,000) (northern chrome zone)
8.	Location and communication:	Kırıcakdere, Sıçankale Y., Aşkale, Erzurum, 40 minutes from Sıçankale Y., by jeep
9.	Type etc.:	trench for exploitation
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody;	strongly serpentinized dunite, serpentinite upper horizon (hangingwall-side orebody) * strike * dip *
	Scale of the orebody observed;	(Direction of the ore zone; N 65°E) extension to strike-side * m extension to dip-side * m width * m
	Shape of the orebody;	*
12.	Chromite banding around the orebody:	not observed
13. 14.	Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore;	massive, brecciated (disseminated) chromite macroscopic estimation, 30 - 35% Cr ₂ O ₃ analytical value, 30.65% Cr ₂ O ₃ from the stockpile, random sample
15.	The largest scale of the orebody estimated:	extension to strike-side 20 m extension to dip-side 2 m width 0.8 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench:	590 m ³
18. 19.	Amount of stock of the ore: Relation to the other trenches	2.6 ton
20. 21.	and galleries : Laboratorical tests : Remarks :	TB-2, TA-18 chemical analysis of the ore (Bcr-1) refer Plate 7-5

1. 2. 3. 4. 5. 6. 7. 8.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TB-2 78/26 Kopdağ Erzincan, i-44, a2, No.2 26.18 N, 06.32 E 2,005 m Civelek (2,000) (norther chrome zone) Kırıcakdere, Sıçankale Y., Aşkale, Erzurum, 40 minutes from Sıçankale Y., by jeep
9.	Type etc.:	trench for exploitation
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks;	strongly serpentinized dunite upper horizon (hangingwall-side orebody)
	Amount of the orebody;	1
	Direction of the orebody;	strike N 70°E dip 50°SE (Direction of the ore zone; N 65°E)
	Scale of the orebody observed;	extension to strike-side 5 m extension to dip-side * m width 1.2 m
	Shape of the orebody;	lenticular
12.	Chromite banding around the orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore; Ore minerals;	massive, brecciated (disseminated) chromite
	Grade of the ore;	macroscopic estimation, 40 % Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to strike-side 10 m extension to dip-side 4 m
		width 1.2 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	1,500 m ³
	from the trench:	170 ton
18.	Amount of stock of the ore:	3.8 ton
19.	Relation to the other trenches	mp 1 mA_10
20.	and galleries : Laboratorical tests :	TB-1, TA-18
21.	Remarks:	refer Plate 7-5
 - ▼		* ***** * *

```
1.
     Number of trench:
                                      TB-3
                                      78/26
 2.
     Project No.:
                                      Kopdağ
 3.
     Area:
 4.
     Map No.:
                                      Erzincan, i-44, a2, No.2
 5.
     Coordinates:
                                      24.10 N,
                                                        04.09 E
 6.
     Altitude:
                                      2,115 m
                                      Pembe Gül (2,000) (northern chrome zone)
 7.
     Name of the mine:
     Location and communication:
 8.
                                      Keşandere, Cancıkkomu Aşkale, Erzurum,
                                      60 minutes from Siçankale Y., on foot and
                                      trench for exploration
9.
     Type etc.:
10.
     Host rock:
                                      serpentinite (powdery)
     Orebody:
11.
     Stratigraphic horizon in
         ultrabasic rocks:
                                      upper horizon
                                      1
     Amount of the orebody:
     Direction of the orebody;
                                                        N 15°E dip
                                                                    65°NW
                                      strike
                                      (Direction of the ore zone;
     Scale of the orebody observed;
                                      extension to strike-side
                                                                       m
                                      extension to dip-side
                                                                  0.2
                                                                       m
                                                                  0.1
                                      width
                                                                       m
     Shape of the orebody;
                                      lenticular
12.
     Chromite banding around the
                                      not observed
         orebody:
                                      not observed
13.
     Fault around the orebody:
14.
     Ore:
         Type of the ore;
                                      massive, powdery
         Ore minerals:
                                      chromite
                                      macroscopic estimation, 30 - 40 % Cr2O3
         Grade of the ore;
     The largest scale of the
                                                                  2
15.
                                      extension to strike-side
                                                                        m
         orebody estimated:
                                      extension to dip-side
                                                                  0.7
                                                                        m
                                      width
                                                                  0.2
                                                                        m
     Volume of the trench estimated:
                                                                        m^3
16.
17.
     The largest amount of the ore
         estimated which is taken
         from the trench:
                                                                  1
                                                                       ton
18.
     Amount of stock of the ore:
                                      0.8 ton
     Relation to the other trenches
19.
         and galleries:
                                      TM-3,4
     Laboratorical tests:
20.
21.
     Remarks:
                                      refer Plate 7-5
```

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TB-4 78/26 Kopdağ Erzincan, i-44, a2, No.2 23.90 N, 04.00 E 2,030 m Dikyokuş (10,000) (northern chrome zone) Baltadeğmezdere, Cancıkkomu, Aşkale Erzurum, 60 minutes from Sıçankale Y.,
9.	Type etc.:	on foot and by car pit for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	upper horizon (hangingwall-side orebody) 1 * strike * dip * (Direction of the ore zone; N 85°W) extension to strike-side * m extension to dip-side * m
	Shape of the orebody;	width * m *
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	strike N 70°W dip 47°N not observed disseminated chromite
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the orebody estimated:	extension to strike-side 2 m extension to dip-side 0.7 m width 0.2 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	2 m3
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches and galleries:	< 1 ton - TA-10, TB-5
20. 21.	Laboratorical tests : Remarks :	refer Plate 7-6

```
Number of trench:
   1.
                                        TB-5
        Project No.:
   2.
                                        78/26
   3.
       Area:
                                        Kopdağ
       Map No.:
   4.
                                        Erzinean, i-44, a2, No.2
        Coordinates:
   5.
                                        23.87N,
                                                          03.93 E
   6.
       Altitude:
                                        2,010 m
   7.
       Name of the mine:
                                        Dikyokuş (10,000) (northern chrome zone)
   8.
       Location and communication:
                                        Baltadeğmezdere, Cancıkkomu, Aşkale
                                        Erzurum, 60 minutes from Sıçankale Y.,
                                        on foot and by car
  9.
       Type etc.:
                                        pit for exploration
 10.
       Host rock:
                                        serpentinite (powdery)
 11.
       Orebody:
       Stratigraphic horizon in
           ultrabasic rocks :
                                       upper horizon (hangingwali-side orebody)
       Amount of the orebody;
       Direction of the orebody;
                                        strike
                                                                 dip *
                                       (Direction of the ore zone; N 85°W)
       Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
      Shape of the orebody;
 12.
      Chromite banding around the
           orebody:
                                       strike N 85°W dip 20°S
 13.
      Fault around the orebody:
                                       not observed
 14.
      Ore:
          Type of the ore;
                                       disseminated
          Ore minerals:
                                       chromite
          Grade of the ore;
                                       macroscopic estimation,
15.
      The largest scale of the
                                       extension to strike-side
                                                                   1
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                   0.3
                                                                        m
                                      width
                                                                   0.2
                                                                        m
16.
      Volume of the trench estimated:
                                                                   1
                                                                        m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                 < 1
                                                                        ton
     Amount of stock of the ore:
18.
19.
     Relation to the other trenches
         and galleries:
                                      TA-10, TB-4
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-6
```

	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TB-6 78/26 Kopdağ Erzincan, i-44, a2, No.1 21.69 N, 99.57 E 1,785 m Hacıbektaşkomu (10,000) Hacıbektaşkomu, Çayırlı, Erzincan, 15 minutes from Hacıbektaşkomu on foot
9.	Type etc.:	trench for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody;	serpentinized dunite and serpentinite (powdery) middle horizon 1 strike * dip *
	Scale of the orebody observed;	(Direction of the ore zone; *) extension to strike-side * m extension to dip-side * m width * m
	Shape of the orebody;	*
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	strike N 70°E dip 53°N not observed disseminated chromite
	Grade of the ore;	macroscopic estimation, $35\%\mathrm{Cr}_{2O3}$
15.	The largest scale of the orebody estimated:	extension to strike-side 3 m extension to dip-side 0.3 m width 0.3 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	3 m ³
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches and galleries:	<1 ton 0.3 ton TA-26 - 28
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-6

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TB-7 78/26 Kopdag Erzincan, i-44,a2, No.1 21.50 N, 98.09 E 1,685 m Hacıbektaşkomu (10,000) Kale Tepe, Hacıbektaşkomu, Çayırlı Erzinan 20 minutes from Hacıbektaşkomu on foot and by jeep
9.	Type etc.:	trench for exploration
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody;	serpentinized dunite and harzburgite middle horizon
	Direction of the orebody;	strike * dip *
	Scale of the orebody observed;	(Direction of the ore zone; *) extension to strike-side * m extension to dip-side * m width * m
	Shape of the orebody;	*
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore:	not observed
11.	Type of the ore; Ore minerals;	* chromite
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the orebody estimated:	extension to strike-side 2.4 m extension to dip-side 0.4 m width 0.2 m
16.	Volume of the trench estimated:	4 m ³
17.	The largest amount of the ore estimated which is taken from the trench:	<1 ton
18.	Amount of stock of the ore:	_
19.	Relation to the other trenches and galleries:	TA-19 - 25
20. 21.	Laboratorical tests : Remarks :	refer Plate 7-6

1. 2. 3. 4. 5. 6. 7. 8.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TB-8 78/26 Kopdağ Erzincan, i-44, a2, No.1 22.96 N, 97.79 E 1,820 m Kayınlı Tepe (10,000) Kayınlı Tepe, Mirzaoğlu, Çayırlı, Erzincan, 60 minutes from Hacıbektaşkomu on foot
9.	Type etc.:	pit for exploration
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks;	lateritized, serpentinized dunite middle horizon
	Amount of the orebody; Direction of the orebody;	* strike * dip *
	Scale of the orebody observed;	(Direction of the ore zone; N 60°W) extension to strike-side * m extension to dip-side * m width * m
	Shape of the orebody;	*
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody:	not observed not observed
14.	Ore: Type of the ore; Ore minerals;	massive, disseminated chromite
	Grade of the ore;	macroscopic estimation, 35 - 40 % Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to strike-side extension to dip-side width 3.3 m 0.6 m 0.3 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench:	9 m3
18.	Amount of stock of the ore:	2 ton
19.	Relation to the other trenches and galleries:	TB-9,10
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-6

1. 2.	Number of trench:	TB-9		
3.	Project No.:	78/26		
3. 4.	Area:	Kopdağ		
5.	Map No.: Coordinates:	Erzincan, i-44, a2, No.1		
6.		22.93 N, 97.77 E		
7.	Altitude:	1,810 m		
8.	Name of the mine: Location and communication:	Kayınlı Tepe (10,000)		
٥.	Location and communication:	Kayınlı Tepe, Mirzaoğlu, Ça can, 60 minutes from Hacıbel foot	ıyırlı, ktaşko	Erzin- mu on
9.	Type etc.:	trench for exploration		
10.	Host rock:	lateritized, serpentinized dun	iite	
11.	Orebody:			
	Stratigraphic horizon in ultrabasic rocks;	middle horizon		
	Amount of the orebody;	* * *		
	Direction of the orebody;	strike N 65° W di	-	
	Scale of the orebody observed;	extension to strike-side	* 60°	m
		extension to dip-side width	*	m
	Shape of the orebody;	*	*	m
	bimpe of the ofebody,	•		
12.	Chromite banding around the			
	orebody:	strike N 85°E dip 33°S		
13.	Fault around the orebody:	not observed		
14.	Ore:			
	Type of the ore;	disseminated		
	Ore minerals;	chromite		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the	extension to strike-side	4.5	m
	orebody estimated:	extension to dip-side	0.6	m
	•	width	0.3	m
16.	Volume of the trench estimated:		16	m ³
17.	The largest amount of the ore			
	estimated which is taken			
	from the trench:		3	ton
18.	Amount of stock of the ore:	_		
19.	Relation to the other trenches			
	and galleries :	TB-8,10		
20.	Laboratorical tests:	-		
21.	Remarks:	refer Plate 7-6		

1. 2. 3. 4. 5. 6. 7. 8.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TB-10 78/26 Kopdağ Erzincan, i-44, a2, No.1 22.96 N, 97.73 E 1,812 m Kayınlı Tepe (10,000) Kayınlı Tepe, Mirzaoğlu, Çayırlı, Erzincan, 60 minutes from Hacıbektaşkomu on foot trench for exploration
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody;	lateritized, serpentinized dunite middle horizon * strike
	Scale of the orebody observed; . Shape of the orebody;	extension to strike-side * m extension to dip-side * m width * m *
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore:	strike N 60°W dip 35°SW not observed
	Type of the ore; Ore minerals;	disseminated chromite
15.	Grade of the ore; The largest scale of the orebody estimated:	extension to strike-side 4 m extension to dip-side 0.6 m width 0.3 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	19 m ³
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches and galleries:	TB-8,9
20. 21.	Laboratorical tests: Remarks:	refer Plate 7-6

1. 2. 3. 4. 5. 6. 7. 8.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TB-11 78/26 Kopdağ Erzincan, i-44, a2, No.3 20.64 N, 04.76 E 1,565 m Kara Tepe (25,000) (southern chrome zone) Fındıkdere, Cancıkkomu, Aşkale, Erzurum, 15 minutes from Erbaş station by jeep
٠.	Type etc	trench for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	middle horizon * strike N 60°E dip * (Direction of the ore zone; *) extension to strike-side * m extension to dip-side * m width * m *
12.	Chromite banding around the	
13. 14.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals; Grade of the ore;	not observed not observed massive chromite macroscopic estimation, 45 % Cr ₂ O ₃ analytical value, 52.53 % Cr ₂ O ₃ from the
15.	The largest scale of the orebody estimated:	stockpile, high-grade part extension to strike-side 3.5 m extension to dip-side 0.5 m width 0.2 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench:	14 m ³
18. 19.	Amount of stock of the ore: Relation to the other trenches	1 ton 0.7 ton
20. 21.	and galleries: Laboratorical tests: Remarks:	TA-34,35 chemical analysis of the ore (Bcr-9) refer Plate 7-6

_		
1.	Number of trench:	TB-12 (not surveyed in detail)
2.	Project No.:	78/26
3.	Area:	Kopdag
4.	Map No.:	Erzincan, i-44, a2, No.3
5.	Coordinates:	19.19 N, 03.96 E
6.	Altitude:	1,530 m
7.	Name of the mine:	Güney Erbaş (southern chrome zone)
8.	Location and communication:	Karaalidere, Erbaş istasyon, Tercan,
	•	Erzurum, 20 minutes from Erbaş station
		on foot across Karasu
9.	Type etc.:	trench for exploration covered by soil
	•	mostly
10.	Host rock :	serpentinized dunite and harzburgite
11.	Orebody:	bolponumized denice and marzourgite
	Stratigraphic horizon in	
	ultrabasic rocks :	middle horizon
	-	middle norizon
	Amount of the orebody;	*
	Direction of the orebody;	strike N 55°E dip *
	G-1 621 1 2 1 1	(Direction of the ore zone; N 60°E)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m
		width * m
	Shape of the orebody;	*
		
12.	Chromite banding around the	
	orebody :	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore ;	disseminated
	Ore minerals ;	chromite
	Grade of the ore ;	macroscopic estimation, 30 % Cr ₂ O ₃
		5 7 5 7 5 7 7 5 7 7 5 7 7 5 7 5 7 5 7 5
15.	The largest scale of the	extension to strike-side 2 m
	orebody estimated:	extension to dip-side 0.3 m
	•	width 0.15 m
16.	Volume of the trench estimated:	2 m ³
17.	The largest amount of the ore	2 1110
	estimated which is taken	
	from the trench:	9 4
18.	Amount of stock of the ore:	3 ton
19.	Relation to the other trenches	0.9 1011
TO.	· · · · · · · · · · · · · · · · · · ·	m4 00 41
20.	and galleries:	TA-36 - 41
	Laboratorical tests:	
21.	Remarks:	refer Plate 7-6

1.	Number of trench:	TB-13	
2.	Project No.:	78/26	
3.	Area:	Kopdağ	
4.	Map No.:	Erzincan, i-44, a2, No.3	
5.	Coordinates:	18.33 N, 04.55 E	
6.	Altitude:	1,690 m	
7.	Name of the mine:	Topkayın Tepe (25,000) (sout	hern chrome zone)
8.	Location and communication:	Topkayın Tepe, Kâğışna Erz minutes from Erbaş station o the Karasu	
9.	Type etc.:	trench for exploration	
10.	Host rock:	serpentinized dunite	
11.	Orebody:		
	Stratigraphic horizon in		
	ultrabasic rocks;	lower part of the middle hori	zon
	Amount of the orebody;	*	
	Direction of the orebody;	strike N 40°E di	•
		(Direction of the ore zone;	*)
	Scale of the orebody observed;	extension to strike-side	* m
		extension to dip-side	* m
		width	* m
	Shape of the orebody;	*	
12.	Chromite banding around the		
	orebody:	not observed	
13.	Fault around the orebody:	not observed	
14.	Ore:		
	Type of the ore;	*	
	Ore minerals;	*	
	Grade of the ore;	macroscopic estimation,	*
15.	The largest scale of the	extension to strike-side	3 m
	orebody estimated:	extension to dip-side	0.3 m
		width	0.1 m
16.	Volume of the trench estimated:		$1 m^3$
17.	The largest amount of the ore estimated which is taken		
	from the trench:		3 ton
18.	Amount of stock of the ore:	-	
19.	Relation to the other trenches		
	and galleries:	-	
20.	Laboratorical tests:		
21.	Remarks:	refer Plate 7-6	

```
Number of trench:
 1.
                                       TB-14
      Project No.:
                                       78/26
 3.
      Area:
                                      Kopdağ
 4.
      Map No.:
                                      Erzurum, i-45, al, No.2
 5.
      Coordinates:
                                      28.40 N,
                                                         34.35 E
 6.
      Altitude:
                                        #
                                             m
 7.
      Name of the mine:
                                      Yassi Tepe (25,000) (east Kop chrome zone)
      Location and communication:
                                      Değirmendere, Pırnakapan Askale, Erzurum,
                                      30 minutes from Pırnakapan on foot and by
 9.
      Type etc.:
                                      pit for exploration
10.
      Host rock:
                                      dunite and harzburgite
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks :
                                      middle horizon
      Amount of the orebody:
      Direction of the orebody;
                                      strike
                                                        N 70°E dip *
                                      (Direction of the ore zone;
                                                                          )
      Scale of the orebody observed:
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
      Shape of the orebody;
12.
     Chromite banding around the
          orebody:
                                      strike N60°W, N85°E dip 62°N, 28°N (in turn)
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore;
                                      disseminated
         Ore minerals;
                                      chromite
         Grade of the ore;
                                      macroscopic estimation,
15.
     The largest scale of the
                                      extension to strike-side
                                                                   5
                                                                        m
         orebody estimated:
                                                                   0.8 m
                                      extension to dip-side
                                      width
                                                                   0.2 m
16.
     Volume of the trench estimated:
                                                                  19
                                                                        m^3
17.
     The largest amount of the ore
         estimated which is taken
         from the trench:
                                                                   3
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TA-47 - 50B, TB-15,16
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-8
```

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1.
      Number of trench:
                                      TB-15
 2.
      Project No.:
                                      78/26
 3. Area:
                                      Kopdağ
 4.
     Map No.:
                                      Erzurum, i-45, a1, No.2
 5.
     Coordinates:
                                      28.30 N.
                                                        34.55 E
 6.
     Altitude:
                                        *
 7.
     Name of the mine:
                                      Yassi Tepe (25,000) (east Kop chrome zone)
     Location and communication:
                                      Değirmendere, Pırnakapan Aşkale Er-
                                      zurum, 30 minutes from Pırnakapan on foot
                                      and by car
 9.
     Type etc.:
                                      pit for exploration
10.
     Host rock:
                                      lateritized, serpentinized dunite
11.
     Orebody:
     Stratigraphic horizon in
          ultrabasic rocks:
                                      middle horizon
     Amount of the orebody;
     Direction of the orebody;
                                      strike
                                                        N 20°W dip *
                                      (Direction of the ore zone; *
                                                                          )
     Scale of the orebody observed;
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                       m
                                      width
                                                                        m
     Shape of the orebody:
12.
     Chromite banding around the
         orebody:
                                      strike N, N 50°W dip 48°W, 61°SW (in turn)
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
         Type of the ore;
                                      disseminated, banded
         Ore minerals;
                                      chromite
         Grade of the ore:
                                      macroscopic estimation,
     The largest scale of the
15.
                                      extension to strike-side
                                                                   5
                                                                       m
         orebody estimated:
                                      extension to dip-side
                                                                   0.8 m
                                      width
                                                                   0.2 m
16.
     Volume of the trench estimated:
                                                                  19
                                                                       m^3
17.
     The largest amount of the ore
         estimated which is taken
         from the trench:
                                                                       ton
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TA-47 - 50B, TB-14,16
20.
     Laboratorical tests:
21.
     Remarks:
                                     refer Plate 7-8
```

```
TB-16
 1.
     Number of trench:
 2.
     Project No. :
                                       78/26
 3. Area:
                                      Kopdag
                                      Erzurum, i-45, a1, No.2
 4.
     Map No.:
                                      28.00 N.
                                                         34.05 E
 5.
     Coordinates:
 6. Altitude:
                                         *
                                             m
 7.
     Name of the mine:
                                      Yassi Tepe (25,000) (east Kop chrome zone)
 8.
     Location and communication:
                                      Yassi Tepe, Pirnakapan Askale, Erzurum,
                                      30 minutes from Pirnakapan on foot and by
 9.
     Type etc.:
                                      trench for exploration
10.
     Host rock:
                                       lateritized, serpentinized dunite
11.
     Orebody:
     Stratigraphic horizon in
          ultrabasic rocks;
                                      middle horizon
     Amount of the orebody;
     Direction of the orebody;
                                      strike
                                              N 25°W - N 50°E dip *
                                      (Direction of the ore zone;
                                                                           )
     Scale of the orebody observed;
                                      extension to strike-side
                                                                         m
                                      extension to dip-side
                                                                         m
                                      width
                                                                         m
     Shape of the orebody;
                                       lenticular
12.
                                             N 24°E - N 75°E,
     Chromite banding around the
                                                                30-80N, NW
                                      strike N 27°W
                                                             dip 57°W
          orebody:
13.
     Fault around the orebody:
                                      strike N 40°W, N 80°W dip 60°NE, 50 S (in turn)
14.
     Ore:
          Type of the ore;
                                      disseminated, banded, massive
          Ore minerals;
                                      chromite
          Grade of the ore:
                                      macroscopic estimation,
15.
     The largest scale of the
                                      extension to strike-side 3, 5.5, 5 m
          orebody estimated:
                                      extension to dip-side 0.8, 1.2, 1.2 m
                                                           0.3, 0.5, 0.4 m (in turn)
                                      width
16.
     Volume of the trench estimated:
                                                                   260 m<sup>3</sup>
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                    22 ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                      TA 47 - 50B, TB-14,15
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-8
```

$\frac{1}{2}$.	Number of trench:	TB-17
3.	Project No. : Area :	78/26
4.	Map No.:	Kopdağ
5.	Coordinates:	Tortum, H-45, d4, No.3
6.	Altitude:	30.90 N, 36.55 E
7.	Name of the mine :	★ m
8.	Location and communication:	Habiboğlukomu (25,000) (east Kop chrome zone)
	rocation and communication:	Kirişlidere, Habiboğlukomu Aşkale, Erzurum, 40 minutes from Pırnakapan on foot and by jeep
9.	Type etc.:	pit for exploration
10.	Host rock:	serpentinized dunite and harzburgite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	middle horizon
	Amount of the orebody;	*
	Direction of the orebody;	strike * dip *
	Scale of the orebody observed;	(Direction of the ore zone; N 20°E) extension to strike-side * m
	board of the oresony observed,	archangian 4- dim -11-
	Shape of the orebody;	* m
	<u> </u>	
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	massive
	Ore minerals;	chromite
	Grade of the ore;	macroscopic estimation, $40\%\mathrm{Cr}_2\mathrm{O}_3$
15.	The largest scale of the	extension to strike-side 1.7 m
	orebody estimated:	extension to dip-side 0.5 m
		width 0.3 m
16.	Volume of the trench estimated:	$_{3}$ $_{\mathrm{m}}^{3}$
17.	The largest amount of the ore estimated which is taken from the trench:	
18.	Amount of stock of the ore:	< 1 ton 0.8 ton
19.	Relation to the other trenches	O. O. LOII
	and galleries:	TB-18,19
20.	Laboratorical tests:	T D_10 12
21.	Remarks:	refer Plate 7-7
-		TOYOT TIME 1-1

1. 2. 3. 4. 5. 6. 7. 8.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication: Type etc.:	TB-18 78/26 Kopdağ Tortum, H-45, d4, No.3 31.05 N, 36.55 E
	Type cue.	tioned for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody;	middle horizon 1 strike N0° - 15°E dip 50° - 80°W (Direction of the ore zone; N 20°E) extension to strike-side * m extension to dip-side * m width 0.5 m
12.	Chromite banding around the	
	orebody:	not observed
13. 14.	Fault around the orebody: Ore:	not observed
	Type of the ore; Ore minerals;	massive, disseminated chromite
	Grade of the ore;	macroscopic estimation, 35 % Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to strike-side 4 m extension to dip-side 1.1 m width 0.5 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench:	36 m ³ 8 ton
18. 19.	Amount of stock of the ore: Relation to the other trenches	-
20.	and galleries : Laboratorical tests :	TB-17,19
21.	Remarks:	refer Plate 7-7

1.	Number of trench:	TB-19	
2.	Project No.:	78/26	
3.	Area:	Kopdağ	
4.	Map No.:	Tortum, H-45, d4, No.3	
5.	Coordinates:	30.95 N, 36.50 E	
6.	Altitude:	★ m	
7.	Name of the mine:	Habiboğlukomu (25,000) (east F	Cop chrome zone)
8.	Location and communication:	Kirişlidere, Habiboğlukomu, A Erzurum, 40 minutes from Pir foot and by jeep	
9.	Type etc.:	trench for exploration	
10.	Host rock:	serpentinized dunite	
11.	Orebody:		
	Stratigraphic horizon in		
	ultrabasic rocks;	middle horizon	
	Amount of the orebody;	strike N 35°E dip	75 ° NIII
	Direction of the orebody;	-	120°E)
	Scale of the orebody observed;	extension to strike-side *	•
	beare of the oresony observed,	extension to dip-side *	
	-).7 m
	Shape of the orebody;	lenticular	
12.	Chromite banding around the		
	orebody:	not observed	
13.	Fault around the orebody:	not observed	
14.	Ore:		
	Type of the ore;	massive, desseminated	
	Ore minerals;	chromite	
	Grade of the ore;	macroscopic estimation, 35 %	Cr_2O_3
15.	The largest scale of the	extension to strike-side	4.5 m
	orebody estimated:	extension to dip-side	1.1 m
	•	width	0.6 m
16.	Volume of the trench estimated:	Ş	35 m ³
17.	The largest amount of the ore		
	estimated which is taken		
	from the trench:	I	10 ton
18.	Amount of stock of the ore:	-	
19.	Relation to the other trenches		
	and galleries:	TB-17,18	
20.	Laboratorical tests:		
21.	Remarks:	refer Plate 7-7	

```
Number of trench:
                                       TB-20
 1.
 2.
                                       78/26
      Project No.:
 3.
     Area:
                                       Kopdağ
     Map No.:
                                       Tortum, i-45, d4, No.3
      Coordinates:
 5.
                                       33.10 N.
                                                          34.30 E
 6
     Altitude:
                                          *
                                       Körösman Tepe (25,000) (east Kop chrome zone)
 7.
     Name of the mine:
 8.
      Location and communication:
                                       Körösmân Tepe Dencik Aşkale, Erzurum,
                                       60 minutes from Pırnakapan by jeep
 9.
      Type etc.:
                                       trench for exploration
10.
      Host rock:
                                       dunite and harzburgite
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks ;
                                       middle horizon
      Amount of the orebody;
                                       2 *
      Direction of the orebody;
                                       strike
                                                                  dip
                                       (Direction of the ore zone:
                                                                             )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                          m
                                       extension to dip-side
                                                                          m
                                       width
                                                                          m
      Shape of the orebody;
12.
      Chromite banding around the
          orebody:
                                       strike N 30°E dip 35°SE
13.
     Fault around the orebody:
                                       strike N 80°W dip 70°N
14.
     Ore:
          Type of the ore;
                                       massive, disseminated
          Ore minerals;
                                       chromite
          Grade of the ore;
                                       macroscopic estimation, 30 - 40 % Cr<sub>2</sub>O<sub>3</sub>
                                       analytical value, 31.96% Cr2O3 from the
                                       stockpile, random sample
15.
     The largest scale of the
                                       extension to strike-side
                                                                   25, 17 m
                                       extension to dip-side
          orebody estimated:
                                                                 1.5, 1.2 m
                                                                 0.8, 0.8 m (in turn)
                                       width
16.
     Volume of the trench estimated:
                                                                    2,290 m<sup>3</sup>
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                     220 ton
18.
     Amount of stock of the ore:
                                       150 ton
19.
     Relation to the other trenches
          and galleries:
20.
     Laboratorical tests:
                                       chemical analysis of the ore (Bcr-11)
21.
     Remarks:
                                       refer Plate 7-7
```

```
Number of trench:
 1.
                                      TB-21
     Project No.:
                                      78/26
                                      Kopdağ
 3. Area:
 4. Map No.:
                                      Tortum, i-45, d4, No.3
     Coordinates:
                                      31.15 N.
                                                        34.50 E
 6. Altitude:
 7. Name of the mine:
                                      Sehirdere (25,000) (east Kop chrome zone)
 8.
     Location and communication:
                                      Sehirdere, Sehirderekomu, Askale, Erzurum,
                                      70 minutes from Pirnakapan on foot and by
 9.
     Type etc.:
                                      trench for exploration
10.
     Host rock:
                                      serpentinized dunite
11.
     Orebody:
     Stratigraphic horizon in
                                      middle horizon
          ultrabasic rocks;
     Amount of the orebody;
                                                        N 25° E dip
     Direction of the orebody;
                                      strike
                                      (Direction of the ore zone;
                                                                           )
     Scale of the orebody observed;
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
     Shape of the orebody;
                                      lenticular
12.
     Chromite banding around the
                                      strike N 27°E, N dip 33°SE, 50°E (in turn)
          orebody:
                                      not observed
13.
     Fault around the orebody:
14.
     Ore:
                                      disseminated
          Type of the ore;
          Ore minerals;
                                      chromite
                                      macroscopic estimation, 30 % Cr2O3
          Grade of the ore;
15.
     The largest scale of the
                                      extension to strike-side
                                                                     8 m
          orebody estimated:
                                      extension to dip-side
                                                                     1.2 m
                                      width
                                                                     0.8 m
16.
     Volume of the trench estimated:
                                                                  135 m^{3}
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                    27 ton
18.
     Amount of stock of the ore:
                                      3 ton
19.
     Relation to the other trenches
          and galleries:
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-7
```

		TD 00
1.	Number of trench:	TB-22
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, b2, No.1
5. C	Coordinates:	27.66 N, 20.18 E
6.	Altitude:	2,470 m
7. 8.	Name of the mine: Location and communication:	Delavlardağ (25,000)
0.	Location and communication:	Delavlardağ, Sıçankale Y., Aşkale
		Erzurum 40 minutes from Sıçankale Y.,
9.	Type etc. :	on foot and by car 2 pit for exploration
٥.	Type etc. :	2 pit for exploration
10.	Host rock:	dunite and harzburgite
11.	Orebody:	•
	Stratigraphic horizon in	
	ultrabasic rocks ;	middle horizon
	Amount of the orebody;	2
	Direction of the orebody;	strike * dip *
		(Direction of the ore zone; *)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m
		width * m
	Shape of the orebody;	lenticular
10	Observation has the engineer of the	
12.	Chromite banding around the	atribo N 000E din 660CE
10	orebody:	strike N 20°E dip 66°SE
13.	Fault around the orebody:	strike N 35°E, N 60°E dip 75°W, 30°SE (in turn)
14.	Ore:	massive, disseminated
	Type of the ore ; Ore minerals ;	chromite
	Ore minerals;	chromite
	Grade of the ore;	macroscopic estimation, 30 - 35 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 10 m
	orebody estimated:	extension to dip-side 1 m
		width 0.4 m
16.	Volume of the trench estimated:	23 m ³
17.	The largest amount of the ore	•
	estimated which is taken	
	from the trench:	10 ton
18.	Amount of stock of the ore:	5 ton
19.	Relation to the other trenches	
	and galleries:	_
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-7

_	1 0/	
1.	Number of trench:	TB-23 (not surveyed in detail)
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, a2, No.2
5.	Coordinates:	25.54 N, 06.18 E
6.	Altitude:	2,133 m
7.		Civelek (2,000) (northern chrome zone)
8.	Location and communication:	Yayladere, Sıçankale Y., Aşkale, Erzurum 60 minutes from Sıçankale Y., on foot and
9.	Type etc.:	by car trench for exploration
10. 11.	Host rock : Orebody :	serpentinized dunite
	Stratigraphic horizon in ultrabasic rocks;	upper horizon (footwall-side * orebody)
	Amount of the orebody;	*
	Direction of the orebody;	strike N 70°E dip 40°NW
	- 1 00 1 1 1 1	(Direction of the ore zone; *)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side * m
	Chang of the anchody.	width * m
	Shape of the orebody;	*
12.	Chromite banding around the	
	orebody:	strike N 60°E dip 57°NW
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	(massive), disseminated
	Ore minerals;	chromite
	Grade of the ore;	macroscopic estimation, 35 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 1 m
	orebody estimated:	extension to dip-side 0.2 m
		width 0.1 m
16.	Volume of the trench estimated:	< 1 m ³
17.	The largest amount of the ore estimated which is taken	
	from the trench:	< 1 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
	and galleries:	TA-17
20.	Laboratorical tests:	
21.	Remarks:	no sketch map.

1.	Number of trench:	TC-1 *
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, b1, No.1
5.	Coordinates:	26.38 N, 06.65 E
6.	Altitude:	1,991 m
7.	Name of the mine:	Armutlu (2,000) (northern chrome zone)
8.	Location and communication:	Büyükgüllünün Sr., Sıçankale Y.,
	•	Aşkale, Erzurum, 30 minutes from Sıçan-
		kale Y., by car
9.	Type etc.:	trench for exploitation
	•-	•
10.	Host rock:	serpentinite (powdery)
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks ;	upper horizon (hangingwall-side orebody)
	Amount of the orebody;	1
	Direction of the orebody;	strike N 40°E dip 47°NW
	Lincoln of the closed,	(Direction of the ore zone; *)
	Scale of the orebody observed;	extension to strike-side 20 m
	the state of the s	extension to dip-side 6 m
		width 15 m
	Shape of the orebody;	lenticular
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	strike N 60°E dip 56°N
14.	Ore:	2, 00 Z u.p 10 1,
	Type of the ore;	massive
	Ore minerals ;	chromite
	Gangue minerals;	serpentine, magnesite, magnetite, zeolite,
	-	stichtite
	Grade of the ore;	macroscopic estimation, 35 - 45 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 50 m
	orebody estimated:	extension to dip-side 6 m
		width 20 m
16.	Volume of the trench estimated:	$15,900 \text{ m}^3$
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	15,750 ton
18.	Amount of stock of the ore:	2,000 ton
19.	Relation to the other trenches	
	and galleries :	TC-32
20.	Laboratorical tests:	X-ray diffractive analysis (Bx-2)
21.	Remarks:	refer Plate 7-4

1.	Number of trench:	TC-2
2.	Project No. :	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, b1, No.1
5.	Coordinates:	26.01 N, 06.92 E
6.	Altitude:	2,025 m
7.	Name of the mine:	Tepebaşı (2,000) (northern chrome zone)
8.	Location and communication:	Büyükgüllünün Sr., Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploitation
10.	Host rock:	strongly serpentinized dunite and serpentinite (powdery)
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks ;	upper horizon (footwall-side orebody
	Amount of the orebody;	1
	Direction of the orebody;	strike N 0 - 48°E dip 55 - 60 W
	Scale of the orebody observed;	(Direction of the ore zone; N 35°E) extension to strike-side * m
		extension to dip-side 4 m width 0.5 m
	Shape of the orebody;	lenticular
10	Character to have the	
12.	Chromite banding around the	
13.	orebody:	not observed
13. 14.	Fault around the orebody:	not observed
14.	Ore:	magaine discominated
	Type of the ore; Ore minerals;	massive, disseminated
	Gangue minerals ;	chromite (uvarovite) serpentine, magnesite, magnetite (common)
	Grade of the ore;	
	Grade of the ore;	macroscopic estimation, 30 - 35 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 30 m
	orebody estimated:	extension to dip-side 10 m
		width 5 m
16.	Volume of the trench estimated:	3,300 m ³
17.	The largest amount of the ore	0,0 00 III
	estimated which is taken	
	from the trench:	3,500 ton
18.	Amount of stock of the ore:	
19.	Relation to the other trenches	
	and galleries:	TC-33,42
20.	Laboratorical tests:	polished section (Ccr-33)
21.	Remarks:	refer Plate 7-5
		TOTOL TIME I D

1. 2. 3. 4. 5. 6. 7. 8.	Location and communication:	TC-3* 78/26 Kopdağ Erzincan, i-44, bl, No.1 26.10 N, 07.02 E 1,990 m Tepebaşı (2,000) (northern chrome zone) Büyükgüllünün Sr., Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody;	upper horizon (lowermost part) 1 strike N 40°E dip * (Direction of the ore zone; N 10°W)
	Scale of the orebody observed; Shape of the orebody;	extension to strike-side * m extension to dip-side 5 m width 0.1 m lenticular
	simple of the orosotty,	Tenticular
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	strike N 10°W dip 60°W strike N 55°E dip 80°NW massive, disseminated chromite
	Grade of the ore;	macroscopic estimation, 25 - $30\% \mathrm{Cr}_2\mathrm{O}_3$
15.	The largest scale of the orebody estimated:	extension to strike-side 30 m extension to dip-side 5 m width 3 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	2,130 m ³
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches	525 ton
20. 21.	and galleries: Laboratorical tests: Remarks:	TC-4,35 polished section (Ccr-34) refer Plate 7-5

1. 2. 3.	Number of trench: Project No.: Area:	TC-4 78/26 Kopdağ	
4.	Map No.:	Erzincan, i-44, b1, No.1	
5.	Coordinates :	26.00 N, 07.08 E	
6.	Altitude:	1,945 m	
7.	Name of the mine:	Tepebaşı (2,000) (northern chrome	BO20)
8.	Location and communication:	Büyükgüllünün Sr., Sıçankale Y.,	
		Erzurum, 30 minutes from Sıçankal by car	
9.	Type etc.:	trench for exploration	
10. 11.	Host rock: Orebody:	serpentinite (powdery)	
	Stratigraphic horizon in		
	ultrabasic rocks;	upper horizon (lowermost part)	
	Amount of the orebody;	1	
	Direction of the orebody;	strike N 34°E dip 60°	NM
	Scale of the orebody observed;	(Direction of the ore zone; N 10° extension to strike-side extension to dip-side 2	W) m m
	Shape of the orebody;	width 0.5 lenticular, layered	m
12.	Chromite banding around the orebody:	strike N 35°E dip 60°NW	
13. 14.	Fault around the orebody: Ore:	not observed	
	Type of the ore; Ore minerals;	massive chromite	
	Grade of the ore;	macroscopic estimation,	
15.	The largest scale of the orebody estimated:	extension to strike-side 13 extension to dip-side 2 width 0.5	m m m
16.	Volume of the trench estimated:		m^3
17.	The largest amount of the ore estimated which is taken		
18.	from the trench: Amount of stock of the ore:	23	ton
19.	Relation to the other trenches	-	
10.	and galleries:	TC-9 95	
20.	Laboratorical tests:	TC-3,35	
21.	Remarks:	refer Plate 7-5	
41.	TICHICI IN	reier Plate (-0	

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-5 78/26 Kopdağ Erzincan, i-44, b1, No.1 26.19 N, 06.97 E 1,973 m Tepebaşı (2,000) (northern c Büyükgüllünün Sr., Sıçankale Erzurum, 30 minutes from S by car	hrome	Aşkale,
9.	Type etc.:	trench for exploration		
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	upper horizon (footwall-side 3-4 strike N 30°E di (Direction of the ore zone; extension to strike-side extension to dip-side width lenticular	orebod ip 80° N 30°;	y) 'NW
	-	tenticular		
12. 13.	Chromite banding around the orebody: Fault around the orebody:	not observed not observed		
14.	Ore: Type of the ore; Ore minerals;	massive chromite		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the orebody estimated:	extension to strike-side extension to dip-side width	3	m m m
16.	Volume of the trench estimated:			m3
17.	The largest amount of the ore estimated which is taken from the trench:		50 f	ton
18.	Amount of stock of the ore:	-	,	
19.	Relation to the other trenches and galleries :	TC-6,42		
20.	Laboratorical tests:	-		
21.	Remarks:	refer Plate 7-5		

1.	Number of trench:	TO C	
2.	Project No. :	TC-6	
3.	Area:	78/26	
4.	Map No.:	Kopdağ	
5.	Coordinates:	Erzincan, i-44, bl, No.1	
6.	Altitude:	26.22 N, 07.02 E	
	Name of the mine:	1,936 m	
8.		Tepebaşı (2,000) (northern ch	rome zone)
	20041011 dia communication :	Büyükgüllünün Sr., Sıçankale	Y., Aşkale
		Erzurum 30 minutes from Sig	ankale Y.,
9.	Type etc. :	trench for exploration	
	-71 - 3331 /	trench for exploration	
10.	Host rock:	serpentinite (powdery)	
11.	Orebody:		
	Stratigraphic horizon in		
	ultrabasic rocks ;	upper horizon (footwall-side o	rebody)
	Amount of the orebody;	1	2 00 0ay)
	Direction of the orebody;	strike N 30°E dip	75° NW
		(Direction of the ore zone;)	
	Scale of the orebody observed;	extension to strike-side	
	-	extension to dip-side	3 m
		width	L.5 m
	Shape of the orebody;	lenticular	
**			
12.	Chromite banding around the		
10	orebody:	not observed	
13.	Fault around the orebody:	not observed	
14.	Ore:		
	Type of the ore;	massive	
	Ore minerals;	chromite	
	Grade of the ore;	magazania activisti	
	drade of the ofe,	macroscopic estimation,	*
15.	The largest scale of the	extension to strike-side	5 m
	orebody estimated:		
	•	-	4 m 1.5 m
16.	Volume of the trench estimated:		0 m ³
17.	The largest amount of the ore	•	o m
	estimated which is taken		
	from the trench:	7	0 ton
18.	Amount of stock of the ore:	_	5 5011
19.	Relation to the other trenches		
	and galleries:	TC-5, GC-5	
20.	Laboratorical tests:	-	
21.	Remarks:	refer Plate 7-5	

-	Number of two her	TC 7 *
1. 2.	Number of trench:	TC-7 * 78/26
3.	Project No.:	· · · · · · ·
	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, bl, No.1
5.	Coordinates:	26.84 N, 06.95 E
6.	Altitude:	2,109 m
7.	Name of the mine:	Bati Ezan (2,000) (northern chrome zone)
8.	Location and communication:	Büyükgüllünün Sr., Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y.,
		by car
0	Type etc.:	•
9.	Type etc.:	trench for exploitation
10.	Host rock:	serpentinite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	upper horizon (hangingwall-side orebody)
	Amount of the orebody;	2
	Direction of the orebody;	strike N 85°E dip N, steep
		(Direction of the ore zone; N 70°E)
	Scale of the orebody observed;	extension to strike-side 55 m
	•	extension to dip-side 20 m
		width 7 - 10 m
	Shape of the orebody;	lenticular
	•	
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	strike N 84° - 86°E dip 70° - 78°N
14.	Ore:	
	Type of the ore;	massive
	Ore minerals ;	chromite
	Gangue minerals	
	(remarkably observed);	magnetite, brucite, stichtite
	Grade of the ore ;	macroscopic estimation, 35 - 40 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 60 m
	orebody estimated :	extension to dip-side 18 m
		width 20 m
16.	Volume of the trench estimated:	35,570 m ³
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	50,400 ton
18.	Amount of stock of the ore:	variable
19.	Relation to the other trenches	
	and galleries :	TZ-1,3,GC-7
20.	Laboratorical tests:	X-ray diffractive analysis (Cx-1)
21.	Remarks:	refer Plate 7-4
	Tioning in .	

	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-8* 78/26 Kopdağ Erzincan, i-44, b1, No.1 26.57 N, 06.98 E 2,038 m Orta Ezan (2,000) (northern chrome zone) Büyükgüllünün Sr., Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploitation
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks;	serpentinite (powdery) upper horizon (footwall-side orebody) 1
	Amount of the orebody; Direction of the orebody;	strike N 60°E - N 70°W dip 25 - 68°N
	Scale of the orebody observed;	(Direction of the ore zone; N 55°E) extension to strike-side 50 m extension to dip-side 10 m width 6 m
	Shape of the orebody;	lenticular
12. 13.	Chromite banding around the orebody: Fault around the orebody:	not observed not observed
14.	Ore: Type of the ore; Ore minerals;	massive, disseminated chromite
	Grade of the ore;	macroscopic estimation, 40 % Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to strike-side 85 m extension to dip-side 15 m width 10 m
16.	Volume of the trench estimated:	78,000 m ³
17.	The largest amount of the ore estimated which is taken from the trench:	36,400 ton
18.	Amount of stock of the ore:	3,600 ton
19.	Relation to the other trenches and galleries:	TC-9, GB-1 GM-1,
20. 21.	Laboratorical tests : Remarks :	refer Plate 7-4

_		
1.	Number of trench:	TC-9
2.	Project No.:	78/26
3.	Area:	Kopdag
4.	Map No.:	Erzincan, i-44, b1, No.1
5.	Coordinates:	26.63 N, 07.12 E
6.	Altitude:	2,065 m
	Name of the mine:	Doğu Ezan (2,000) (northern chrome zone)
8.	Location and communication:	Büyükgüllünün Sr., Sıçankale Y.,
	•	Aşkale, Erzurum,
		30 minutes from Siçankale Y., by car
9.	Type etc.:	trench, gallery (closed), for exploitation
10.	Host rock:	serpentinite (powdery)
11.	Orebody:	ro-Formatio (hondozi)
	Stratigraphic horizon in	upper horizon
	ultrabasic rocks;	(footwall-side orebody)
	Amount of the orebody;	2
	Direction of the orebody;	strike N 50° - 65°E, dip 47° - 50°NW
	•	(Direction of the ore zone; N50°E)
	Scale of the orebody observed;	extension to strike-side 13 m
		extension to dip-side 5 m
		width 3 m
	Shape of the orebody;	lenticular
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	strike N60°E, dip 72°S
14.	Ore:	
	Type of the ore;	massive, disseminated,
	Ore minerals ;	chromite
		(kaemmererite)
	Grade of the ore;	macroscopic estimation, * %Cr2O3
		·
15.	The largest scale of the	extension to strike-side 35, 65 m
	orebody estimated :	extension to dip-side 5, 5 m
		width 3, 1.5 m (in turn)
16.	Volume of the trench estimated:	22,000 m ³
17.	The largest amount of the ore	
	estimated which is taken	•
10	from the trench:	3,670 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
0.0	and galleries:	TC-3,4, TC-8, TZ-2, GB-1
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-4

```
1.
       Number of trench:
                                        TC-10
   2.
       Project No.:
                                        78/26
   3.
       Area:
                                        Kopdag
   4.
       Map No. :
                                        Erzincan, i-44, b1, No.1
   5.
       Coordinates:
                                        27.18 N,
                                                   07.72 E
   6.
       Altitude:
                                        2,095 m
   7.
       Name of the mine:
                                        Sulu (2,000) (northern chrome zone)
   8.
       Location and communication:
                                        Güllünündere, Sıçankale Y.,
                                        Aşkale, Erzurum
                                        30 minutes from Sıçankale Y., by car
  9.
       Type etc.:
                                        pit for exploration
 10.
       Host rock:
                                        serpentinite (powdery)
 11.
       Orebody:
       Stratigraphic horizon in
                                        upper horizon
           ultrabasic rocks;
                                        (hangingwall-side orebody)
       Amount of the orebody;
                                        1
       Direction of the orebody;
                                        strike
                                                 N85°E
                                                                  dip
                                                                         45°N
                                        (Direction of the ore zone;
                                                                   N60°E
                                                                            )
      Scale of the orebody observed;
                                        extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                     2
                                                                         m
                                       width
                                                                         m
      Shape of the orebody:
                                       lenticular
 12.
      Chromite banding around the
          orebody:
                                       strike
                                                 N55°E
                                                                 dip
                                                                        66°NW
 13.
      Fault around the orebody:
                                       not observed
 14.
      Ore:
          Type of the ore;
                                       massive
          Ore minerals;
                                       chromite
          Grade of the ore;
                                       macroscopic estimation,
                                                                        % Cr_2O_3
      The largest scale of the
15.
                                       extension to strike-side
                                                                    5
                                                                        m
          orebody estimated:
                                       extension to dip-side
                                                                    2
                                                                        m
                                       width
                                                                    3.5 m
16.
      Volume of the trench estimated:
                                                                        m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                    5
                                                                        ton
18.
     Amount of stock of the ore:
     Relation to the other trenches
19.
         and galleries:
                                      TC-11-13, TM-1-2, GC-2
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-3
```

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-11 78/26 Kopdağ Erzincan, i-44, b1, No.1 27.18 N, 7.73 E 2,102 m Sulu (2,000) (northern chrome zone) Güllünündere, Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	upper horizon (hangingwall-side orebody) * strike * dip * (Direction of the ore zone; N60°E) extension to strike-side * m extension to dip-side * m width * m
	Shape of the orebody;	*
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed not observed * chromite
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the orebody estimated :	extension to strike-side 1.5 m extension to dip-side 0.3 m width 1 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	4 m ³
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches	1 ton
20. 21.	and galleries : Laboratorical tests : Remarks :	TC-10, 12, 13, TM-1, GC-2 - refer Plate 7-3

1. 2. 3. 4. 5. 6. 7. 8.		TC-12 78/26 Kopdağ Erzincan, i-44, b1, No.1 27.18 N, 07.74 E 2,107 m Sulu (2,000) (northern chrome zone) Güllünündere, Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploitation
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody;	upper horizon (hangingwall-side orebody) 1 strike N65°W, dip 35°NE (Direction of the ore zone; N60°E) extension to strike-side * m extension to dip-side 1.5 m width 4 m lenticular
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	strike N35°W, dip 55°NE not observed massive chromite
	Grade of the ore;	macroscopic estimation, * %Cr2O3
15.	The largest scale of the orebody estimated:	extension to strike-side 6 m extension to dip-side 1.5 m width 4 m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	20 m ³
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches	30 ton very small
20. 21.	and galleries : Laboratorical tests : Remarks :	TC-10, 11, 13, TM-1, GC-2 - refer Plate 7-3

```
1.
      Number of trench:
                                       TC-13 *
 2.
      Project No.:
                                       78/26
 3.
      Area:
                                      Kopdağ
 4.
      Map No.:
                                      Erzincan, i-44, b1, No.1
 5.
      Coordinates:
                                                  07.84 E
                                      27.15 N,
 6.
      Altitude:
                                      2,148 m
 7.
      Name of the mine:
                                      Sulu (northern chrome zone)
 8.
      Location and communication:
                                      Güllünundere, Sıçankale Y.,
                                      Aşkale, Erzurum,
                                       30 minutes from Sicankale Y., by car
 9.
      Type etc.:
                                      trench, for exploitation
10.
      Host rock :
                                      serpentinite (powdery)
11.
      Orebody:
      Stratigraphic horizon in
                                      upper horizon
                                      (hangingwall-side orebody)
          ultrabasic rocks:
                                      1
      Amount of the orebody;
      Direction of the orebody;
                                      strike
                                                N70°E,
                                                                dip
                                                                        23°N
                                      (Direction of the ore zone :
                                                                  N60°E )
      Scale of the orebody observed:
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                    1.5 m
                                      width
                                                                    0.5 m
     Shape of the orebody;
                                      lenticular
12.
     Chromite banding around the
                                      strike
                                                N65°E
                                                                 dip
                                                                        45°NW
          orebody:
                                                N45°E.
                                                                        60°NW
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore:
                                      massive, banded
          Ore minerals;
                                      chromite
                                      (uvarovite)
                                      macroscopic estimation,
          Grade of the ore;
                                                                        %Cr2O3,
15.
     The largest scale of the
                                      extension to strike-side
                                                                   60
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                    5
                                                                        m
                                      width
                                                                        m
     Volume of the trench estimated:
16.
                                                                        m^3
                                                                9,600
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                        ton
                                                                4,900
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TC-10 - 12, TM-1, GC-2
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-3
```

1. 2. 3. 4. 5. 6.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine:	TC-14 78/26 Kopdağ Erzincan, i-44, b1, No.1 27.02 N, 07.90 E 2,102 m Sulu (2,000) (northern chrome zone)
8.	Location and communication:	Güllünündere, Sıçankale Y., Aşkale, Erzurum 30 minutes from Sıçankale Y., by car
9.	Type etc.:	trench, for exploitation
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody;	upper horizon (footwall-side orebody) 1 strike N60°W, dip * (Direction of the ore zone; N85°E) extension to strike-side * m extension to dip-side 1 m width 0.5 m lenticular
12.	Chromite banding around the	
	orebody:	strike N75°W, dip 35°NE
13. 14.	Fault around the orebody: Ore: Type of the ore;	not observed (massive) breceiated
	Ore minerals;	chromite
	Grade of the ore;	macroscopic estimation, 30 %Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to strike-side 8 m extension to dip-side 1 m width 1.5 m
16.	Volume of the trench estimated:	40 m ³
17.	The largest amount of the ore estimated which is taken	
18.	from the trench: Amount of stock of the ore:	42 ton
19.	Relation to the other trenches	2 ton
	and galleries:	TM-1, 2, TC-31, GX-1, GC-1
20. 21.	Laboratorical tests:	mafere Dieta E 0
41.	Remarks:	refer Plate 7-3

1. 2. 3. 4. 5. 6. 7.		TC-15 78/26 Kopdag Erzincan, i-44, b1, No.1 26.85 N, 08.20 E 1,960 m Sulu (2,000) (northern chron Güllünündere, Sıçankale Y. Aşkale, Erzurum, 30 minutes from Sıçankale	me zone	
9.	Type etc.:	trench, for exploitation		
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody;	serpentinite (powdery) upper horizon 2 strike N15°E	dip	30W
	Scale of the orebody observed;	(Direction of the ore zone; extension to strike-side extension to dip-side width	•) m m m
40	Shape of the orebody;	lenticular Width of orel of the 2 oreb		the total
12.	Chromite banding around the orebody:	not observed		
13. 14.	Fault around the orebody: Ore:	not observed		
	Type of the ore; Ore minerals;	massive chromite		
	Grade of the ore;	macroscopic estimation,	*	% Cr ₂ O ₃
15.	The largest scale of the orebody estimated:	extension to dip-side	7 × 3 3 × 3 1 × 3	m m m
16. 17.	Volume of the trench estimated : The largest amount of the ore estimated which is taken		320	m ³
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches	-	294	ton
20. 21.	and galleries : Laboratorical tests : Remarks :	- refer Plate 7-3		

1. 2. 3. 4. 5. 6. 7. 8.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-16 78/26 Kopdağ Erzincan, i-44, b1, No. 27.58 N, 10.17 E 2,231 m Gökyokuşun Sr. (2,000) (no. Camlıtepenin Sr., Sıçankalı Aşkale, Erzurum, 25 minutes from Sıçankalı pit, for exploration	orthern le Y.,	
10. 11.	Host rock : Orebody :	serpentinite (powdery)		
11.	Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	upper horizon (hangingwall-side orebody) * strike * (Direction of the ore zone extension to strike-side extension to dip-side	dip	* E) m m
	Shape of the orebody;	width	*	m
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed not observed *		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the orebody estimated:	extension to strike-side extension to dip-side width	1 0.5 0.5	m m m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken		4	m ³
18.	from the trench: Amount of stock of the ore:	_	< 1	ton
19.	Relation to the other trenches and galleries:	TC-17,18,19,20,21,22		
20. 21.	Laboratorical tests : Remarks :	refer Plate 7-3		
- 1 t •	Toma in	10101 1100 1 0		

1. 2.	Number of trench: Project No.:	TC-17 78/26		
3.	Area:	Kopdağ		
4.	Map No.:	Erzincan, i-44, b1, No.	.1	
5.	Coordinates:	27.58 N, 10.15 E		
6.	Altitude:	2,262 m		
7.	Name of the mine:	Gökyokuşun Sr. (2,000) (no	rthern c	hrome zone)
8.	Location and communication:	Camlitepenin Sr., Siçanka	le Y.,	-
		Aşkale, Erzurum,		
_		25 minutes from Sıçankale	Y. on f	oot and by car
9.	Type etc.:	pit, for exploration		
10. 11.	Host rock: Orebody:	strongly serpentinized dun	ite and	serpentinite
11.	Stratigraphic horizon in	unnon homizon		
	ultrabasic rocks ;	upper horizon (hangingwall-side orebody)		
	Amount of the orebody;	1	!	
	Direction of the orebody;	strike N15°E,	dip	68°W
	the contract of the contract,	(Direction of the ore zone	-	
	Scale of the orebody observed;	extension to strike-side	*	m ,
	,	extension to dip-side	1.5	m
		width	3	m
	Shape of the orebody;	layered	_	
12.	Chromite banding around the			
	orebody:	strike N15°E,	dip	68°W
13.	Fault around the orebody:	not observed		
14.	Ore:	• •		
	Type of the ore;	banded		
	Ore minerals;	chromite		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the	extension to strike-side	1.5	m
	orebody estimated:	extension to dip-side	1.5	m
		width	3	m
16.	Volume of the trench estimated:		9	m ³
17.	The largest amount of the ore			
	estimated which is taken			
10	from the trench:		17	ton
18.	Amount of stock of the ore:	-		
19.	Relation to the other trenches	TO 10 10 10 00 01 00		
0.0	and galleries:	TC-16,18,19,20,21,22		
20.	Laboratorical tests:	- mafan Dista E C		
21.	Remarks:	refer Plate 7-3		

1. 2. 3.	Number of trench: Project No.: Area:	TC-18 78/26 Kopdağ
4.	Map No.:	Erzinean, i-44, b1, No.1
5.	Coordinates:	27.57 N, 10.15 E
6.	Altitude:	2,250 m
7.	Name of the mine:	Gökyokuşun Sr. (2,000) (northern chrome zone)
8.	Location and communication:	Camlitepenin Sr., Siçankale Y., Aşkale, Erzurum,
		25 minutes from Siçankale Y. on foot and by car
9.	Type etc.:	trench, for exploration
	•	, .
10.	Host rock:	serpentinite (powdery)
11.	Orebody:	
	Stratigraphic horizon in	upper horizon
	ultrabasic rocks;	(hangingwall-side orebody)
	Amount of the orebody; Direction of the orebody;	strike N8°W, dip 66°W
	Direction of the ofesody,	(Direction of the ore zone; N30°E)
	Scale of the orebody observed;	extension to strike-side 5 m
	,	extension to dip-side 1.5 m
		width 1.2 m
	Shape of the orebody;	lenticular
12.	Chromite banding around the	
10	orebody:	strike N45°E, dip 48°NW
13.	Fault around the orebody:	strike N35°E, dip 30°NW massive, banded
14.	Ore: Type of the ore; Ore minerals;	chromite
	Gangue minerals ;	
	Gangue minerais:	serpentine, magnesite, magnetite (abundant)
	_	serpentine, magnesite, magnetite (abundant) macroscopic estimation, * %Cr2O3
	Grade of the ore ;	
	Grade of the ore;	macroscopic estimation, * %Cr2O3
15.	Grade of the ore; The largest scale of the	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m
15.	Grade of the ore;	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m
	Grade of the ore; The largest scale of the orebody estimated:	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m
16.	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated:	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m
	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m
16.	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated:	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m 63 m³
16.	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m 63 m ³
16. 17.	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench:	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m 63 m³
16. 17.	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore;	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m 63 m³
16. 17.	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore: Relation to the other trenches	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m 63 m³ 15 ton 4.5 ton TC-16,17,19,20,21,22 polished section (Ccr-9)
16. 17. 18.	Grade of the ore; The largest scale of the orebody estimated: Volume of the trench estimated: The largest amount of the ore estimated which is taken from the trench: Amount of stock of the ore: Relation to the other trenches and galleries:	macroscopic estimation, * %Cr2O3 analytical value, 45.09 %Cr2O3 from the stockpile, high-grade part extension to strike-side 7 m extension to dip-side 1.5 m width 1.2 m 63 m³ 15 ton 4.5 ton

```
Number of trench:
   1.
                                        TC-19
   2.
       Project No.:
                                        78/26
   3. Area:
                                        Kopdag
   4.
       Map No.:
                                        Erzincan, i-44, bl, No.1
   5.
       Coordinates:
                                        27.55 N.
                                                   10.14 E
   6.
       Altitude:
                                        2,255 m
   7.
       Name of the mine:
                                        Gökyokuşun Sr. (2,000) (northern chrome zone)
       Location and communication:
  8.
                                        Camlitepenin Sr., Siçankale Y.,
                                       Aşkale, Erzurum
                                       25 minutes from Siçankale Y. on foot and by car
  9.
       Type etc.:
                                       pit, for exploration
 10.
      Host rock :
                                       serpentinite (powdery)
 11.
       Orebody:
       Stratigraphic horizon in
                                       upper horizon
           ultrabasic rocks:
                                       (hangingwall-side orebody)
      Amount of the orebody;
      Direction of the orebody;
                                       strike
                                                                 dip
                                       (Direction of the ore zone;
                                                                   N30°E
      Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
      Shape of the orebody:
12.
      Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       not observed
14.
      Ore:
          Type of the ore;
          Ore minerals;
          Grade of the ore;
                                       macroscopic estimation,
      The largest scale of the
15.
                                      extension to strike-side
                                                                         m
          orebody estimated:
                                      extension to dip-side
                                                                   0.5
                                                                         m
                                      width
                                                                   1
                                                                         m
      Volume of the trench estimated:
16.
                                                                 < 1
                                                                         m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench :
                                                                < 1
                                                                        ton *
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TC-16,17,18,20,21,22
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-3
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1.
     Number of trench:
                                      TC-20
 2.
      Project No.:
                                      78/26
 3.
     Area:
                                      Kopdag
 4.
     Map No.:
                                      Erzinean, i-44, b1, No.1
 5.
      Coordinates:
                                      27.88 N, 10.24 E
 6.
     Altitude:
                                      2,232 m
 7.
     Name of the mine:
                                      Gökyokuşun Sr. (2,000) (northern chrome zone)
 8.
     Location and communication:
                                      Camlitepenin Sr., Siçankale Y.,
                                      Aşkale, Erzurum.
                                      25 minutes from Siçankale Y. on foot and by car
 9.
     Type etc.:
                                      pit, for exploration
10.
     Host rock:
                                      serpentinite (powdery)
11.
     Orebody:
     Stratigraphic horizon in
                                      upper horizon
          ultrabasic rocks;
                                      (hangingwall-side orebody)
     Amount of the orebody:
     Direction of the orebody;
                                      strike
                                                                dip
                                      (Direction of the ore zone; N30°E
                                                                           )
                                      extension to strike-side
     Scale of the orebody observed;
                                                                        m
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
     Shape of the orebody;
12.
     Chromite banding around the
          orebody:
                                      not observed
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore;
          Ore minerals;
                                      chromite
          Grade of the ore;
                                      macroscopic estimation,
15.
     The largest scale of the
                                      extension to strike-side
                                                                  0.4
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                  0.3
                                                                        m
                                      width
                                                                  0.2
                                                                        m
16.
                                                                        m^3
     Volume of the trench estimated:
                                                                < 1
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                        ton
                                                                < 1
18.
     Amount of stock of the ore:
                                      very small
19.
     Relation to the other trenches
          and galleries:
                                      TC-16,17,18,19,21,22
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-3
```

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-21 78/26 Kopdağ Erzincan, i-44, b1, No.1 27.84 N, 10.29 E 2,200 m Gökyokuşun Sr. (2,000) (no. Camlıtepenin Sr., Sıçankala Aşkale, Erzurum,	rthern	·
9.	Type etc.:	25 minutes from Siçankale 3 trench for exploration	I • OII 1	oot and by ear
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed; Shape of the orebody;	serpentinite (powdery) upper horizon (hangingwall-side orebody) strike N15°E, (Direction of the ore zone; extension to strike-side extension to dip-side width layered	dip N30 ^o 1.8 0.3 0.5	m m
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed not observed * chromite		
15.	Grade of the ore; The largest scale of the orebody estimated:	macroscopic estimation, extension to strike-side extension to dip-side	* 0.9 0.5	m m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken	width <	0.2 < 1	m m ³
	from the trench: Amount of stock of the ore: Relation to the other trenches and galleries:	TC-16,17,18,19,20,22	< 1	ton
	Laboratorical tests : Remarks :	refer Plate 7-3		

1.	Number of trench:	TC-22		
2.	Project No.:	78/26		
3.	Area:	Kopdağ		
4.	Map No.:	Erzincan, i-44, b1, No.	1	
5.	Coordinates:	27.90 N, 10.34 E		
6.	Altitude:	2,220 m		
7.	Name of the mine :	Gökyokuşun Sr. (2,000) (no		chrome zone)
8.	Location and communication:	Camlitepenin Sr., Siçanka Aşkale, Erzurum	le Y.,	
		25 minutes from Siçankale	Y. on fo	ot and by car
9.	Type etc.:	trench for exploration		•
10. 11.	Host rock : Orebody :	serpentinite (powdery)		
	Stratigraphic horizon in	upper horizon		
	ultrabasic rocks; Amount of the orebody;	(hangingwall-side orebody) *	1	
	Direction of the orebody;	strike E*	dip	*
	Direction of the oresoty,	(Direction of the ore zone	-	
	Scale of the orebody observed;	extension to strike-side	*	m ,
		extension to dip-side	*	m
		width	*	m
	Shape of the orebody;	*		
12.	Chromite banding around the			
	orebody:	strike N42°E	dip	45°NW
13.	Fault around the orebody:	not observed		
14.	Ore:			
	Type of the ore ;	*		
	Ore minerals;	chromite		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the	extension to strike-side	1	m
	orebody estimated:	extension to dip-side	0.4	m
		width	0.3	m
16.	Volume of the trench estimated:		< 1	m^3
17.	The largest amount of the ore estimated which is taken			
	from the trench:		< 1	ton
18.	Amount of stock of the ore:	very small		
19.	Relation to the other trenches			
	and galleries :	TC-16,17,18,19,20,21		
20.	Laboratorical tests:	-		
21.	Remarks:	refer Plate 7-3		

1.	Number of trench:	TC-23		
2.	Project No. :	78/26		
3.	Area:	Kopdağ		
4.	Map No.:	Erzincan, i-44, b1, No.	1	
5.	Coordinates:	28.01 N, 10.98 E		
6.	Altitude:	2,277 m		
7.	Name of the mine:	Gökyokuşun Sr. (2,000) (no		chrome zone)
8.	Location and communication:	Gökyokuşun Sr., Sıçankale Aşkale, Erzurum,	Υ.,	
		20 minutes from Siçankale	V on fo	ot and hy car
9.	Type etc.:	trench for exploration	T tour To	oo ana by our
٥.	Type cio	or out of the control		
10.	Host rock:	serpentinite (powdery)		
11.	Orebody:			
	Stratigraphic horizon in	upper horizon		
	ultrabasic rocks ;	(footwall-side orebody)		
	Amount of the orebody;	1		
	Direction of the orebody;	strike E*	dip	*
		(Direction of the ore zone		w)
	Scale of the orebody observed;	extension to strike-side	*	m
		extension to dip-side	0.5	m
	et - 6/1 1 1	width	0.2	m
	Shape of the orebody;	lenticular*		
12.	Chromite banding around the			
	orebody:	strike N35°E	dip	75°NW
13.	Fault around the orebody:	not observed	-	
14.	Ore:			
	Type of the ore;	massive, banded		
	Ore minerals;	chromite		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the	extension to strike-side	8	m
20.	orebody estimated:	extension to dip-side	2	m
		width	0.5	m
16.	Volume of the trench estimated:		10	m^3
17.	The largest amount of the ore			
	estimated which is taken			
	from the trench:		28	ton
18.	Amount of stock of the ore:	-		
19.	Relation to the other trenches			
	and galleries:	TC-24,25,26,27,28		
20.	Laboratorical tests:	_		
21.	Remarks:	refer Plate 7-3		

1.	Number of trench:	TC-24		
2.	Project No.:	78/26		
3.	Area:	Kopdag		
4. 5.	Map No.: Coordinates:	Erzincan, i-44, b1, No.1		
6.	Altitude:	27.99 N, 11.00 E		
7.	Name of the mine :	2,272 m	ut	
8.	Location and communication:	Gökyokuşun Sr. (2,000) (nort		
0.	becation and communication:	Gökyokuşun Sr., Sıçankale Y	• ,	
		Aşkale, Erzurum	on foot and her can	
9.	Type etc.:	20 minutes from Siçankale Y trench for exploration	• on toot and by car	
		nonon for expression		
10.	Host rock:	serpentinite (powdery)		
11.	Orebody:	2		
	Stratigraphic horizon in	upper horizon		
	ultrabasic rocks;	(footwall-side orebody)		
	Amount of the orebody;	*		
	Direction of the orebody;		ip *	
	gu-1611 - 3-1 1	(Direction of the ore zone;	N30°W)	
	Scale of the orebody observed;	extension to strike-side	* m	
		extension to dip-side	* m	
	Shape of the evaluation	width *	* m	
	Shape of the orebody;	•		
12.	Chromite banding around the			
	orebody:	not observed		
13.	Fault around the orebody:	not observed		
14.	Ore:			
	Type of the ore;	*		
	Ore minerals ;	chromite		
	Grade of the ore ;	macroscopic estimation,	*	
		,		
15.	The largest scale of the	extension to strike-side	2 m	
	orebody estimated:	extension to dip-side	0.5 m	
		width	0.5 m	
16.	Volume of the trench estimated:		$6 ext{m}^3$	
17.	The largest amount of the ore			
	estimated which is taken		_ ,	
10	from the trench:		2 ton	
18. 19.	Amount of stock of the ore: Relation to the other trenches		0.9 ton	
Tũ.	and galleries:	TIC 99 95 96 97 99		
20.	Laboratorical tests:	TC-23,25,26,27,28		
21.	Remarks:	refer Plate 7-3		
~ +	Tioner was	Tetel Light 1-9		

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Number of trench:
 1.
                                       TC-25
 2.
      Project No.:
                                       78/26
 3.
      Area:
                                       Kopdağ
 4.
      Map No.:
                                      Erzincan, i-44, b1, No.1
 5.
      Coordinates:
                                       27.83 N,
                                                  11.17 E
      Altitude:
 6.
                                       2,240 m
 7.
      Name of the mine:
                                       Gökyokuşun Sr. (2,000) (northern chrome zone)
      Location and communication:
 8.
                                      Gökyokuşun Sr., Sıçankale Y.,
                                       Askale, Erzurum,
                                       20 minutes from Sicankale Y. on foot and by car
 9.
      Type etc.:
                                      pit, for exploration
10.
     Host rock:
                                       serpentinite (powdery)
11.
      Orebody:
      Stratigraphic horizon in
                                      upper horizon
          ultrabasic rocks ;
                                       (footwall-side orebody)
      Amount of the orebody:
      Direction of the orebody;
                                       strike
                                                                 dip
                                       (Direction of the ore zone;
                                                                  M^{30}W
     Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                      width
                                                                         m
     Shape of the orebody;
     Chromite banding around the
12.
          orebody:
                                      not observed
13.
     Fault around the orebody:
                                      not observed
14.
     Ore:
          Type of the ore;
          Ore minerals;
                                      macroscopic estimation,
         Grade of the ore;
15.
     The largest scale of the
                                      extension to strike-side
                                                                   1
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                   0.5
                                                                        m
                                      width
                                                                   0.3
                                                                         m
16.
     Volume of the trench estimated:
                                                                        m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                < 1
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TC-23,24,26,27,28
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-3
```

```
1.
        Number of trench:
                                         TC-26
    2.
        Project No.:
                                         78/26
        Area:
    3.
                                         Kopdag
    4.
        Map No. :
                                         Erzincan, i-44, b1, No.1
   5.
        Coordinates:
                                         27.76 N,
                                                    11.21 E
   6.
        Altitude:
                                         2,218 m
        Name of the mine:
   7.
                                        Gökyokuşun Sr. (2,000) (northern chrome zone)
   8.
        Location and communication:
                                        Gökyokuşun Sr., Sıçankale Y.,
                                        Aşkale, Erzurum,
                                        20 minutes from Sicankale Y. on foot and by car
   9.
       Type etc.:
                                        pit, for exploration
       Host rock:
  10.
                                        serpentinite (powdery)
  11.
       Orebody:
       Stratigraphic horizon in
                                        upper horizon
            ultrabasic rocks;
                                        (footwall-side orebody)
       Amount of the orebody :
       Direction of the orebody;
                                        strike
                                                                  dip
                                        (Direction of the ore zone;
                                                                    N30°W
       Scale of the orebody observed;
                                                                           )
                                        extension to strike-side
                                                                          m
                                        extension to dip-side
                                                                          m
                                        width
                                                                          m
       Shape of the orebody;
                                        *
 12.
       Chromite banding around the
           orebody:
                                       not observed
 13.
      Fault around the orebody:
                                       not observed
 14.
      Ore:
           Type of the ore;
           Ore minerals;
          Grade of the ore;
                                       macroscopic estimation,
15.
      The largest scale of the
                                       extension to strike-side
                                                                   0.6
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                   0.5
                                                                         m
                                       width
                                                                   0.4
                                                                         m
16.
      Volume of the trench estimated:
                                                                   9
                                                                         m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                < 1
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries :
                                      TC-23,24,25,27,28
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-3
```

```
Number of trench:
                                    TC-27
 2.
     Project No.:
                                      78/26
 3.
     Area:
                                      Kopdağ
     Map No. :
                                      Erzincan, i-44, bl, No.1
     Coordinates:
 5.
                                      27.74 N,
                                                 11.21 E
 6.
     Altitude:
                                      2,215 m
     Name of the mine:
                                      Gökyokuşun Sr. (2,000) (northern chrome zone)
 7.
     Location and communication :
                                      Gökyokuşun Sr., Sıçankale Y.,
                                      Aşkale, Erzurum,
                                      20 minutes from Siçankale Y. on foot and by car
9.
     Type etc.:
                                      pit, for exploration
10.
     Host rock:
                                      serpentinite (powdery)
     Orebody:
11.
     Stratigraphic horizon in
                                      upper horizon
          ultrabasic rocks;
                                      (footwall-side orebody)
     Amount of the orebody:
     Direction of the orebody;
                                      strike
                                                                dip
                                                                  M30°W
                                      (Direction of the ore zone;
     Scale of the orebody observed;
                                      extension to strike-side
                                                                        m
                                      extension to dip-side
                                                                        m
                                      width
                                                                        m
     Shape of the orebody;
12.
     Chromite banding around the
                                      not observed
         orebody:
                                     not observed
13.
     Fault around the orebody:
14.
     Ore:
         Type of the ore;
         Ore minerals;
                                      macroscopic estimation,
         Grade of the ore;
15.
     The largest scale of the
                                      extension to strike-side
                                                                        m
                                                                  0.9
          orebody estimated:
                                      extension to dip-side
                                                                  0.5
                                                                        m
                                      width
                                                                  0.3
                                                                        m
                                                                        m^3
16.
     Volume of the trench estimated:
                                                                < 1
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                        ton
                                                                < 1
     Amount of stock of the ore:
18.
     Relation to the other trenches
19.
         and galleries:
                                      TC-23,24,25,26,28
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-3
```

```
1.
       Number of trench:
                                        TC-28
       Project No.:
   2.
                                        78/26
   3.
       Area:
                                        Kopdağ
  4.
       Map No. :
                                        Erzincan, i-44, b1, No.1
  5.
       Coordinates:
                                        27.77 N,
                                                  11.23 E
  6
       Altitude:
                                        2,252 m
  7.
       Name of the mine:
                                        Gökyokuşun Sr. (2,000) (northern chrome zone)
  8.
       Location and communication:
                                        Gökyokuşun Sr., Sıçankale Y.,
                                       Aşkale, Erzurum,
                                       20 minutes from Siçankale Y. on foot and by car
  9.
       Type etc.:
                                       pit, for exploration
 10.
      Host rock :
                                       serpentinite (powdery)
 11.
      Orebody:
      Stratigraphic horizon in
                                       upper horizon
           ultrabasic rocks;
                                       (footwall-side orebody)
       Amount of the orebody;
                                       1
      Direction of the orebody;
                                       strike
                                                 N30°E
                                                                 dip
                                                                        42°NW
                                       (Direction of the ore zone;
                                                                   N30°W )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                         m
                                       width
                                                                   0.5
                                                                         m
      Shape of the orebody;
                                       lenticular
 12.
      Chromite banding around the
          orebody:
                                       not observed
13.
      Fault around the orebody:
                                       not observed
14.
      Ore:
          Type of the ore;
          Ore minerals:
                                       chromite
          Grade of the ore;
                                       macroscopic estimation,
15.
      The largest scale of the
                                       extension to strike-side
                                                                   1.7
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                   0.4
                                                                        m
                                       width
                                                                   0.5
                                                                        m
16.
      Volume of the trench estimated:
                                                                < 1
                                                                        m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench :
                                                                   1
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                      TC-23,24,25,26,27
20.
     Laboratorical tests:
21.
     Remarks:
                                     refer Plate 7-3
```

1.	Number of trench:	TC-29	
2.	Project No.:	78/26	
3.	Area:	Kopdağ	
4.	Map No.:	Erzincan, i-44, bl, No.1	
5.	Coordinates:	24.06 N, 12.05 E	
6.	Altitude:	1,912 m	
7.	Name of the mine:	Tecer (25,000) (southern chrome z	one)
8.	Location and communication:	Çorakdere, Tecer,	
		Áşkale, Erzurum,	
		80 minutes from Sıçankale Y. on fo	ot
9.	Type etc.:	trench, for exploration	
10.	Host rock:	serpentinized dunite	يد
11.	Orebody:		
	Stratigraphic horizon in		
	ultrabasic rocks;	middle horizon	
	Amount of the orebody;	6	
	Direction of the orebody;	<u> </u>	60°NW
		(Direction of the ore zone; N75%	•
	Scale of the orebody observed;	extension to strike-side *	m
		extension to dip-side 1.5	m
		width 1	m
	Shape of the orebody;	lenticular	
12.	Chromite banding around the		
	orebody:	not observed	
13.	Fault around the orebody:	not observed	
14.	Ore:		
	Type of the ore;	massive, disseminated	
	Ore minerals ;	chromite	
	Grade of the ore;	macroscopic estimation, *	
		analytical value, 43.41	%Cr ₂ O ₃
		from the outcrop, high-grade part	
15.	The largest scale of the	extension to strike-side 1.5	m
	orebody estimated:	extension to dip-side 1.5	m
		width 1	m
16.	Volume of the trench estimated:	7	m^3
17.	The largest amount of the ore		
	estimated which is taken		
	from the trench:	-8	ton
18.	Amount of stock of the ore:	-	
19.	Relation to the other trenches		
	and galleries:	TC-40	
20.	Laboratorical tests:	polished section (Ccr-22)	
	-	chemical analysis of the ore (Ccr-	-22)
21.	Remarks:	refer Plate 7-9	

1.	Number of trench:	TC-30 *
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Trabzon, H-44, c3, No.4
5.	Coordinates:	30.55 N, 18.99 E
6.	Altitude:	2,530 m
7.	Name of the mine:	Coşan (2,000) (northern chrome zone)
8.	Location and communication:	Iskinligindere, Kop,
		Bayburt, Gümüşhane
_		30 minutes from Sıçankale Y. by car
9.	Type etc.:	trench, for exploitation
10.	Host rock:	strongly serpentinized dunite
11.	Orebody:	
	Stratigraphic horizon in	
	ultrabasic rocks;	upper horizon
	Amount of the orebody;	
	Direction of the orebody;	strike N 0° - 55°W dip 90° *
	Cools of the suchedus abgorned	(Direction of the ore zone; N15°W)
	Scale of the orebody observed;	extension to strike-side 35 m
		extension to dip-side 6 m width 3.5 m
	Shape of the orebody;	layered 3.5 m
	Simple of the ofclody,	layored
12.	Chromite banding around the	
	orebody:	strike N60°E, dip 35°NW
13.	Fault around the orebody:	strike N10°W, dip 75°W
14.	Ore:	
	Type of the ore;	brecciated
	Ore minerals;	chromite
	Grade of the ore;	macroscopic estimation,
		analytical value, 39.78 % Cr ₂ O ₃
15	The largest serie of the	from the outcrop, random sample
15.	The largest scale of the	extension to strike-side 20 m
	orebody estimated:	extension to dip-side 10 m width 4 m
16.	Volume of the trench estimated:	22,000 m ³
17.	The largest amount of the ore	22,000 mo
	estimated which is taken	
	from the trench:	2,800 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
	and galleries:	TD-29 - 35
20.	Laboratorical tests:	chemical analysis of the ore (Ccr-29)
21.	Remarks:	refer Plate 7-1

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-31 (not surveyed in 678/26 Kopdağ Erzincan, i-44, bl, N 27.12 N, 07.74 E 2,075 m Sulu (2,000) (northern cl Güllünündere, Sıçankale Aşkale, Erzurum, 30 minutes from Sıçanka	nrome zon Y.,	
9.	Type etc.:	trench, for exploitation		
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	upper horizon (footwall-side orebody) strike N65°-90°W (Direction of the ore zon extension to strike-side extension to dip-side width lenticular, layered		°−35°N E) m m m
12.	Chromite banding around the orebody:	strike N25°E N75°W	dip	35°NW
13. 14.	Fault around the orebody: Ore: Type of the ore; Ore minerals;	not observed massive chromite (kaemmererite	e)	35°NE
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the orebody estimated:	extension to strike-side extension to dip-side width	40 5 7	m m m
16. 17.	Volume of the trench estimated: The largest amount of the ore estimated which is taken		5,250	m3
18. 19.	from the trench: Amount of stock of the ore: Relation to the other trenches	*	4,900	ton
20. 21.	and galleries : Laboratorical tests : Remarks :	GX-1, GC-1, TM-1,2, polished section (Ccr-47) no sketch map		

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-32 (not surveyed in detail) 78/26 Kopdag Erzincan, i-44, b1, No.1 26.29 N, 06.07 E 2,015 m Armutlu (2,000) (northern chrome zone) Büyükgüllünün Sr., Siçankale Y., Aşkale, Erzurum,
9.	Type etc.:	30 minutes from Siçankale Y., by car trench for exploration
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	upper horizon (footwall-side orebody) 1 strike * dip * (Direction of the ore zone; *) extension to strike-side * m extension to dip-side 0.5 m
	Shape of the orebody;	width 0.4 m
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore;	strike N 85°E dip 55°S not observed *
	Ore minerals;	chromite
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the orebody estimated:	extension to strike-side 0.4 m extension to dip-side 0.3 m width 0.2 m
16.	Volume of the trench estimated:	<1 m ³
17.	The largest amount of the ore estimated which is taken from the trench:	< 1 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
	and galleries:	TC-1
20.	Laboratorical tests:	-
21.	Remarks:	no sketch map

1.	Number of trench:	TC-33 (not surveyed in detail)
2.	Project No.:	78/26
3.	Area:	Kopdag
4.	Map No.:	Erzincan, i-44, bl No.1
5.	Coordinates :	25.96 N, 06.72 E
	Altitude:	1,970 m
	Name of the mine :	Tepebaşı (2,000) (northern chrome zone)
8.		Büyükgüllünün Sr., Sıçankale Y., Aşkale,
•	noodless and communications.	Erzurum,
		30 minutes from Siçankale Y., by car
9.	Type etc.:	trench for exploration
• •		
10.	Host rock:	serpentinite (powdery)
11.	Orebody:	•
	Stratigraphic horizon in	
	ultrabasic rocks ;	upper horizon (footwall-side orebody)
	Amount of the orebody;	1
	Direction of the orebody;	strike N 40°E dip 60°NW
	•	(Direction of the ore zone; N 35°E)
	Scale of the orebody observed;	extension to strike-side * m
		extension to dip-side 1 m
		width 0.2 m
	Shape of the orebody;	lenticular
12.	Chromite banding around the	,
	orebody:	strike N 52°W dip 32°NE
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore;	-
	Ore minerals;	chromite ·
	Grade of the ore ;	macroscopic estimation, ★
15.	The largest scale of the	extension to strike-side 1 m
	orebody estimated:	extension to dip-side 1 m
	•	width 0.2 m
16.	Volume of the trench estimated:	2 m ³
17.	The largest amount of the ore	
	estimated which is taken	-
	from the trench:	< 1 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
	and galleries :	TC-2
20.	Laboratorical tests:	_
21.	Remarks:	no sketch map

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-34 (not surveyed in detail) 78/26 Kopdağ Erzincan, i-44, b1, No.1 26.58 N, 07.38 E 2,040 m Doğu Ezan (2,000) (northern chrome zone) Büyükgüllünün Sr., Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y., by car
9.	Type etc.:	trench for exploration
10.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks; Amount of the orebody; Direction of the orebody; Scale of the orebody observed;	upper horizon (lowermost horizon) strike - dip - (Direction of the ore zone; *) extension to strike-side - m
	Shape of the orebody;	extension to dip-side - m width - m
12.	Chromite banding around the	
13. 14.	orebody: Fault around the orebody: Ore: Type of the ore; Ore minerals;	strike N 78°E dip 55°N not observed banded chromite
	Grade of the ore;	macroscopic estimation,
15.	The largest scale of the orebody estimated:	extension to strike-side * m extension to dip-side * m width * m
16.	Volume of the trench estimated:	120 m ³
17.	The largest amount of the ore estimated which is taken from the trench:	*
18.	Amount of stock of the ore:	_
19.	Relation to the other trenches	
-	and galleries:	_
20.	Laboratorical tests:	_
21.	Remarks:	no sketch map

	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TC-35 (not surveyed in detail 78/26 Kopdag Erzincan, i-44, bl., No.1 26.18 N, 07.06 E 1,930 m Tepebaşı (2,000) (northern ch Büyükgüllünün Sr., Sıçankale Erzurum,	arome z	
9.	Type etc.:	30 minutes from Siçankale Y. trench or pit for exploration	, by ca	ar
10. 11.	Host rock: Orebody: Stratigraphic horizon in ultrabasic rocks;	serpentinite upper horizon (lowermost par	rt)	
	Amount of the orebody;	1		
	Direction of the orebody; Scale of the orebody observed;	extension to strike-side extension to dip-side	N 10° W * r 0.5 r	
	Shape of the orebody;	width ★	0.1 r	n
12. 13. 14.	Chromite banding around the orebody: Fault around the orebody: Ore: Type of the ore;	not observed not observed		
	Ore minerals ;	chromite		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the orebody estimated :	extension to strike-side extension to dip-side width	1 n	n n n
16. 17.	Volume of the trench estimated: The largest amount of the ore			_n 3
18. 19.	estimated which is taken from the trench: Amount of stock of the ore: Relation to the other trenches	-	1 to	On
,	and galleries:	TC-3,4		
20. 21.	Laboratorical tests: Remarks:	no sketch map		

```
1.
       Number of trench:
                                        TC-36
                                                (not surveyed in detail)
  2.
       Project No.:
                                        78/26
  3.
       Area:
                                        Kopdag
  4.
       Map No.:
                                        Erzincan, i-44, bl, No.1
  5.
       Coordinates:
                                       28.00 N.
                                                          09.11 E
  6.
      Altitude:
                                       2,158 m
  7.
      Name of the mine:
                                       Calazarlarındere (2,000)(northern chrome zone)
      Location and communication:
  8.
                                       Çalazarlarındere, Sıçankale Y., Aşkale,
                                       Erzurum,
                                                    60 minutes from Siçankale Y.,
                                       on foot and by car
  9.
      Type etc.:
                                       trench or pit
 10.
      Host rock:
                                       serpentinite
 11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks;
                                       upper horizon
      Amount of the orebody;
                                       1 *
      Direction of the orebody;
                                       strike
                                                                 dip *
                                       (Direction of the ore zone;
                                                                   N 15°E )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                   1.5
                                                                         m
                                       width
                                                                   0.4
                                                                         m
      Shape of the orebody;
                                       layered
12.
      Chromite banding around the
          orebody:
                                       strike N 50°E dip 48°NW
13.
      Fault around the orebody:
                                       not observed
14.
     Ore:
          Type of the ore :
          Ore minerals;
                                      chromite
          Grade of the ore;
                                      macroscopic estimation,
     The largest scale of the
15.
                                      extension to strike-side
                                                                   1
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                   1.5
                                                                        m
                                      width
                                                                   0.5
                                                                        m
16.
     Volume of the trench estimated:
                                                                   2
                                                                        m^3
17.
     The largest amount of the ore
          estimated which is taken
         from the trench:
                                                                   2
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TC-37,38
20.
     Laboratorical tests:
21.
     Remarks:
                                      no sketch map
```

```
Number of trench:
  1.
                                      TC-37 (not surveyed in detail)
  2.
       Project No.:
                                        78/26
  3.
      Area:
                                       Kopdağ
      Map No.:
  4.
                                       Erzincan, i-44, b1, No.1
  5.
       Coordinates:
                                       28.01 N,
                                                          09.12 - E
  6.
      Altitude:
                                       2,150 m
      Name of the mine:
  7.
                                       Çalazarlarındere (2,000)(northern chrome zone)
  8.
      Location and communication:
                                       Çalazarlarındere, Sıçankale Y., Aşkale,
                                       Erzurum,
                                                   50 minutes from Sicankale Y.,
                                       on foot and by car
  9.
      Type etc.:
                                       trench or pit
 10.
      Host rock :
                                       serpentinite
 11.
      Orebody:
      Stratigraphic horizon in
           ultrabasic rocks:
                                       upper horizon
      Amount of the orebody;
      Direction of the orebody;
                                       strike
                                                                 dip *
                                       (Direction of the ore zone; N 15°E)
      Scale of the orebody observed;
                                       extension to strike-side
                                       extension to dip-side
                                                                         m
                                       width
                                                                         m
      Shape of the orebody:
12.
      Chromite banding around the
          orebody:
                                      not observed
      Fault around the orebody:
13.
                                      not observed
14.
      Ore:
          Type of the ore:
          Ore minerals;
                                      chromite
          Grade of the ore:
                                      macroscopic estimation,
15.
      The largest scale of the
                                      extension to strike-side
                                                                   1
                                                                         m
          orebody estimated:
                                      extension to dip-side
                                                                   0.5
                                                                         m
                                      width
                                                                   0.3
                                                                        m
16.
      Volume of the trench estimated:
                                                                 < 1
                                                                        m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                < 1
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TC-36,38,
     Laboratorical tests:
20.
21.
     Remarks:
                                      no sketch man
```

```
1.
       Number of trench:
                                        TC-38 (not surveyed in detail)
       Project No.:
   2.
                                        78/26
   3.
       Area:
                                        Kopdag
   4.
       Map No.:
                                        Erzincan, i-44, bl, No.1
   5.
       Coordinates:
                                        28.01 N.
                                                          09.13 E
   6.
       Altitude:
                                        2,145 m
   7.
       Name of the mine:
                                        Çalazarlarındere (2,000)(northern chrome zone)
       Location and communication:
                                        Çalazarlarındere, Sıçankale Y., Aşkale,
                                       Erzurum,
                                                    50 minutes from Siçankale Y.,
                                        on foot and by car
       Type etc.:
  9.
                                        trench or pit
 10.
       Host rock:
                                       serpentinite
 11.
       Orebody:
       Stratigraphic horizon in
           ultrabasic rocks;
                                       upper horizon
      Amount of the orebody;
                                       1
      Direction of the orebody;
                                       strike
                                                                 dip
                                       (Direction of the ore zone;
                                                                   N 15°E )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                          m
                                       extension to dip-side
                                                                    1
                                                                         m
                                       width
                                                                    0.3
                                                                         m
      Shape of the orebody;
                                       *
12.
      Chromite banding around the
           orebody:
                                       strike N 30°E dip 58°NW
13.
      Fault around the orebody:
                                       not observed
14.
      Ore:
          Type of the ore;
          Ore minerals;
                                       chromite
          Grade of the ore;
                                       macroscopic estimation,
15.
      The largest scale of the
                                       extension to strike-side
                                                                   1
                                                                         m
          orebody estimated:
                                      extension to dip-side
                                                                   0.5
                                                                         m
                                       width
                                                                   0.3
                                                                         m
16.
      Volume of the trench estimated:
                                                                 < 1
                                                                         m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                 < 1
                                                                        ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                      TC-36,37
20.
     Laboratorical tests:
21.
     Remarks :
                                      no sketch map
```

1.	Number of trench:	TC-39 (not surveyed in detail)
2.	Project No.:	78/26
3.	Area:	Kopdag
4.	Map No.:	Erzincan, i-44, bl, No.1
5.	Coordinates:	27.28 N, 08.91 E
6.	Altitude:	2,035 m
7.	Name of the mine:	Çalazarlarındere (2,000)(northern chrome zone)
8.	Location and communication:	Çalazarlarındere, Sıçankale Y., Aşkale,
	• • .	Erzurum, 30 minutes from Sıçankale Y., on foot and by car
9.	Type etc.:	trench or pit
10.	Host rock:	serpentinite
11.	Orebody:	
	Stratigraphic horizon in	
	•	upper horizon
	Amount of the orebody;	
	Direction of the orebody;	strike * dip *
	Cools of the enchader charmed .	(Direction of the ore zone; N 15°E) extension to strike-side * m
	Scale of the orebody observed;	
	Shape of the orebody;	width 0.3 m
	shape of the orebody,	-
12.	Chromite banding around the	•
	orebody:	not observed
13.	Fault around the orebody:	not observed
14.	Ore:	
	Type of the ore ;	*
	Ore minerals;	chromite
	Grade of the ore;	macroscopic estimation, *
15.	The largest scale of the	extension to strike-side 0.5 m
	orebody estimated :	extension to dip-side 0.5 m
	•	width 0.3 m
16.	Volume of the trench estimated:	< 1 m ³
17.	The largest amount of the ore	4
	estimated which is taken	-
	from the trench:	<1 ton
18.	Amount of stock of the ore:	_
19.	Relation to the other trenches	
	and galleries :	SZ-1
20.	Laboratorical tests:	-
21.	Remarks:	no sketch map

1.	Number of trench:	TC-40 (not surveyed in detail	.)	
2.	Project No.:	78/26		
3.	Area:	Kopdag		
4.	Map No.:	Erzincan, i-44, b1, No.1		
5.	Coordinates:	24.27 N, 11.20 E		
6.	Altitude:	1,910 m		
7.	Name of the mine:	Tecer (10,000) (southern chr	ome z	one)
8.	Location and communication:	Sögütçayırıdere, Tecer, Aşl	cale, I	Erzurum,
		80 minutes from Sıçankale Y.	, on f	oot
_				
9.	Type etc.:	trench for exploration		
10.	Host rock:	serpentinite		
11.	Orebody:			
	Stratigraphic horizon in			
	ultrabasic rocks ;	middle horizon		
	Amount of the orebody;	1		
	Direction of the orebody;	strike * di	.p *	
		(Direction of the ore zone;	N 75°	W)
	Scale of the orebody observed;	extension to strike-side	*	m
		extension to dip-side	*	m
		width	*	m
	Shape of the orebody;	*		
12.	Chromite banding around the			
	orebody:	not observed		
13.	Fault around the orebody:	not observed		
14.	Ore:			
	Type of the ore;	*		
	Ore minerals;	chromite		
	Grade of the ore;	macroscopic estimation,	*	
15.	The largest scale of the	extension to strike-side	1	m
	orebody estimated:	extension to dip-side	1	m
		width	0.5	m
16.	Volume of the trench estimated:		4	\mathbf{m}^3
17.	The largest amount of the ore			
	estimated which is taken			
	from the trench:		2	ton
18.	Amount of stock of the ore:	*		
19.	Relation to the other trenches			
	and galleries:	TC-29		
20.	Laboratorical tests:	-		
21.	Remarks:	no sketch map		

1. 2. 3.	Number of trench: Project No.: Area:	TC-41 (not surveyed in deta 78/26 Kopdağ	il)	
4.	Map No.:	Trabzon, H-44, c3, No.4		
5.	Coordinates:	30.32 N, 21.89 E		
6.	Altitude:	2,350 m		
7.		Arapçayırıdere (10,000)		
8.	Name of the mine: Location and communication:	Fatteninyurdu Sr., Kop, Bayl	nurt	Ciimii-
		shane, 60 minutes from Sig on foot and by car		
9.	Type etc.:	trench or pit for exploration		
10. 11.	Host rock: Orebody:	strongly serpentinized dunite		
T1.	Stratigraphic horizon in			
	ultrabasic rocks;	middle horizon (upper part)		
	Amount of the orebody;	1		
	Direction of the orebody;	strike N 40° E di	n 60	°NW*
	Direction of the oregoty;	(Direction of the ore zone;	•	
	Scale of the orebody observed;	extension to strike-side	*	m)
	boare of the orebody observed,	extension to dip-side	1	m
			0.5	m
	Shape of the orebody;	*	0.0	111
12.	Chromite banding around the			
	orebody:	not observed		
13.	Fault around the orebody:	not observed		
14.	Ore:			
	Type of the ore;	massive, brecciated		
	Ore minerals ;	chromite (uvarovite)		
	Grade of the ore;	-		Cr_2O_3
		analytical value, 45.11 % Cr2	O3 fr	om the
		outcrop, high-grade part		
15.	The largest scale of the	extension to strike-side	*	m
	orebody estimated:	•	1	m
			0.5	m
16.	Volume of the trench estimated:		2	m^3
17.	The largest amount of the ore			
	estimated which is taken		_	
10	from the trench:		3	ton
18.	Amount of stock of the ore:	0.6 ton		
19.	Relation to the other trenches			
00	and galleries:	-	_	
20.	Laboratorical tests:	chemical analysis of the ore (polished section (Ccr-26)	Ccr-	26)
21.	Remarks:	no sketch map		

1. 2. 3.	Number of trench: Project No.:	TC-42 (nor surveyed in detail)
4.	Area:	Kopdag
5.	Map No. : Coordinates :	Erzincan, i-44, bl, No.1
6.	Altitude:	26.15 N, 06.95 E
7.	Name of the mine:	1,998 m
8.	Location and communication:	Tepebaşı (2,000) (northern chrome zone)
	Bookson and communication;	Büyükgüllünun Sr., Sıçankale Y., Aşkale, Erzurum, 30 minutes from Sıçankale Y., by car
9.	Type etc. :	trench or pit for exploration
10. 11.	Host rock : Orebody :	serpentinite (powdery)
	Stratigraphic horizon in ultrabasic rocks;	upper horizon (footwall-side orebody)
	Amount of the orebody;	1
	Direction of the orebody;	strike * dip *
	Scale of the orebody observed;	(Direction of the ore zone; N 30°E) extension to strike-side * m
		extension to dip-side 0.5 m
		width 0.3 m
	Shape of the orebody;	lenticular
12.	Chromite banding around the orebody:	strike N 10°E dip 80°E
13.	Fault around the orebody:	not observed
14.	Ore:	100 00002100
	Type of the ore;	*
	Ore minerals;	chromite
	Gangue minerals;	serpentine, magnesite, stichtite
	Grade of the ore;	macroscopic estimation,
15.	The largest scale of the	extension to strike-side 0.5 m
	orebody estimated:	extension to dip-side 0.5 m
		width 0.3 m
16.	Volume of the trench estimated:	$< 1 $ m^3
17.	The largest amount of the ore estimated which is taken	
10	from the trench:	< 1 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
20	and galleries:	TC-2,5
20. 21.	Laboratorical tests: Remarks:	X-ray diffractive analysis (Cx-2) no sketch map

```
Number of trench:
   1.
                                       - TD-1
   2.
       Project No.:
                                        78/26
   3.
       Area:
                                        Kopdağ
       Map No.:
   4.
                                        Erzincan, i-44, b1, Mo.2
   5.
       Coordinates:
                                        27.23 N.
                                                          12.34 E
   6.
       Altitude:
                                        2,160 m
       Name of the mine :-
   7.
                                        Siçankale (2,000) (northern chrome zone)
       Location and communication:
   8.
                                       Külekçinin Sr., Sıçankale Y., Aşkale,
                                       Erzurum,
                                       10 minutes from Siçankale Y., on foot
  9.
       Type etc.:
                                        trench, gallery (closed) for exploitation
 10.
       Host rock:
                                       strongly serpentinized dunite
 11.
       Orebody:
       Stratigraphic horizon in
           ultrabasic rocks;
                                       upper horizon
       Amount of the orebody;
                                       1
       Direction of the orebody;
                                       strike
                                                                 dip
                                       (Direction of the ore zone; N 70°E)
       Scale of the orebody observed;
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                   1
                                                                         m
                                       width
                                                                   0.6
                                                                         m
      Shape of the orebody:
                                       lenticular
12.
      Chromite banding around the
           orebody:
                                       strike N 27° - 40°W dip 28° - 50° SW
13.
      Fault around the orebody:
                                     strike E dip 50°N
14.
      Ore:
          Type of the ore;
                                       brecciated *
          Ore minerals;
                                       chromite (uvarovite)
          Grade of the ore:
                                       macroscopic estimation, 30 - 35 % Cr2O3
15.
      The largest scale of the
                                       extension to strike-side
                                                                        m
          orebody estimated:
                                      extension to dip-side
                                                                    2
                                                                        m
                                      width
                                                                    1.5 m
16.
      Volume of the trench estimated:
                                                                   24
                                                                        m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                  50
                                                                        ton
18.
      Amount of stock of the ore:
19.
      Relation to the other trenches
          and galleries:
                                      TD-2,3,4,5,6,7,8,9,10
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-2
```

```
1.
         Number of trench:
                                          TD-2
    2.
         Project No.:
                                          78/26
    3.
         Area:
                                          Kopdag
        Map No.:
    4.
                                          Erzincan, i-44, b1, No.2
    5.
        Coordinates:
                                          27.29 N.
                                                            12.48 E
    6.
        Altitude:
                                         2,211 m
    7.
        Name of the mine:
                                         Siçankale (2,000) (northern chrome zone)
        Location and communication:
    8.
                                         Külekçinin Sr., Sıçankale Y., Aşkale,
                                         Erzurum,
                                         10 minutes from Siçankale Y., on foot
   9.
        Type etc.:
                                         pit for exploration
  10.
        Host rock:
                                         serpentinized dunite
  11.
        Orebody:
        Stratigraphic horizon in
            ultrabasic rocks ;
                                         upper horizon
        Amount of the orebody;
                                         1
       Direction of the orebody;
                                         strike
                                                                   dip *
                                         (Direction of the ore zone; N 70°E)
       Scale of the orebody observed;
                                         extension to strike-side
                                                                           m
                                        extension to dip-side
                                                                     0.7
                                                                           m
                                        width
                                                                     1
       Shape of the orebody;
                                                                           m
 12.
       Chromite banding around the
           orebody:
                                        strike N 86°E dip 60°N
       Fault around the orebody:
 13.
                                        assumed, strike N 80°W dip 60°S
 14.
      Ore:
           Type of the ore;
                                        (massive *), disseminated
           Ore minerals;
                                        chromite
           Grade of the ore;
                                       macroscopic estimation, 25\% \text{ Cr}_2\text{O}_3
15.
      The largest scale of the
                                        extension to strike-side
                                                                      3
                                                                          m
           orebody estimated:
                                       extension to dip-side
                                                                      1
                                                                          m
                                       width
                                                                     1.4 m
      Volume of the trench estimated:
16.
      The largest amount of the ore
                                                                    16
17.
                                                                          m^3
          estimated which is taken
          from the trench:
                                                                    15
18.
                                                                         ton
      Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                       TD-1,3,4,5,6,7,8,9,10
20.
     Laboratorical tests:
21.
     Remarks:
                                       refer Plate 7-2
```

```
1.
       Number of trench:
                                        TD-3
       Project No. :
                                        78/26
   3. Area:
                                        Kopdağ
  4.
       Map No.:
                                        Erzincan, i-44, b1, No.2
  5.
       Coordinates:
                                        27.26 N.
                                                          12.62 E
  6.
      Altitude:
                                        2,210 m
  7. Name of the mine:
                                        Siçankale (2,000) (northern chrome zone)
  8.
       Location and communication:
                                        Külekçinin Sr., Sıçankale Y., Aşkale
                                        Erzurum,
                                        10 minutes from Siçankale Y., on foot
  9.
       Type etc.:
                                        trench for exploration
 10. Host rock:
                                       serpentinized dunite
 11.
      Orebody:
      Stratigraphic horizon in
           ultrabasic rocks;
                                       upper horizon
      Amount of the orebody;
                                       1
      Direction of the orebody;
                                       strike
                                                                  dip *
                                       (Direction of the ore zone;
                                                                   N 70°E )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                          m
                                       extension to dip-side
                                                                    0.5
                                                                          m
                                       width
                                                                    1
                                                                          m
      Shape of the orebody;
                                       lenticular
12.
      Chromite banding around the
          orebody:
                                       strike N 0° - 14°W dip 50° - 70°W
13.
      Fault around the orebody:
                                       assumed, strike N 45°E dip 78°NW
14.
      Ore:
          Type of the ore;
                                       (massive *), disseminated
          Ore minerals;
                                       chromite
          Grade of the ore;
                                       macroscopic estimation, 25\,\%\,\mathrm{Cr}_2\mathrm{O}_3
15.
      The largest scale of the
                                       extension to strike-side
                                                                      7
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                      1
                                                                         \mathbf{m}
                                       width
                                                                         m
16.
      Volume of the trench estimated:
                                                                   112 	 m^3
17.
      The largest amount of the ore
          estimated which is taken
          from the trench :
                                                                    49 ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                      TD-1,2,4,5,6,7,8,9,10
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-2
```

```
1.
        Number of trench:
                                         TD-4
    2.
        Project No.:
                                         78/26
   3.
        Area:
                                         Kopdağ
   4.
        Map No.:
                                         Erzincan, i-44, b1, No.2
   5.
        Coordinates:
                                         27.28 N,
                                                           12.65 E
   6.
        Altitude :
                                         2,225 m
   7.
        Name of the mine:
                                        Siçankale (2,000) (northern chrome zone)
       Location and communication:
                                        Külekçinin Sr., Sıçankale Y., Aşkale
                                         Erzurum.
                                        10 minutes from Siçankale Y., on foot
   9.
       Type etc.:
                                        trench, gallery (closed) for exploration
  10.
       Host rock:
                                        strongly serpentinized dunite
  11.
       Orebody:
       Stratigraphic horizon in
           ultrabasic rocks;
                                        upper horizon
       Amount of the orebody;
       Direction of the orebody;
                                        strike
                                                                  dip
                                        (Direction of the ore zone;
                                                                    N 70°E )
       Scale of the orebody observed;
                                        extension to strike-side
                                                                          m
                                        extension to dip-side
                                                                    1
                                                                          m
                                        width
                                                                          m
      Shape of the orebody;
                                        lenticular
 12.
      Chromite banding around the
           orebody:
                                       not observed
 13.
      Fault around the orebody:
                                       not observed
 14.
      Ore:
           Type of the ore;
                                       disseminated
          Ore minerals ;
                                       chromite
          Grade of the ore;
                                      macroscopic estimation, 25 % Cr<sub>2</sub>O<sub>3</sub>
      The largest scale of the
15.
                                       extension to strike-side
                                                                   10
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                    1.5 m
                                       width
                                                                    4
                                                                         m
16.
      Volume of the trench estimated:
                                                                   75
                                                                         m^3
      The largest amount of the ore
17.
          estimated which is taken
          from the trench:
                                                                  210
                                                                         ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TD-1,2,3,5,6,7,8,9,10
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-2
```

1.	Number of trench:	TD-5
2.	Project No.:	78/26
3.	Area:	Kopdag
4.	Map No.:	Erzincan, i-44, b1, No.2
5.	Coordinates:	27.27 N, 12.69 E
6.	Altitude:	2,225 m
7.	Name of the mine:	Siçankale (2,000) (northern chrome zone)
8.	Location and communication:	Külekçinin Sr., Sıçankale Y., Aşkale, Erzurum,
9.	Type etc.:	10 minutes from Siçankale Y., on foot trench, gallery (closed) for exploitation
10. 11.	Host rock: , Orebody:	serpentinized dunite
	Stratigraphic horizon in ultrabasic rocks;	upper horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 60°E dip 20°NW (Direction of the ore zone; N 70°E)
	Scale of the orebody observed;	extension to strike-side * m extension to dip-side 1 m
	Shape of the orebody;	width 3 m lenticular
12.	Chromite banding around the orebody:	not observed
13.	Fault around the orebody:	strike N 40°E dip 40°NW
14.	Ore:	•
	Type of the ore; Ore minerals;	chromite (uvarovite)
	Grade of the ore;	macroscopic estimation, 25 - 40 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 10 m
	orebody estimated:	extension to dip-side 1.5 m
		width 1.5 m
16.	Volume of the trench estimated:	206 m ³
17.	The largest amount of the ore estimated which is taken	-
18.	from the trench: Amount of stock of the ore:	78 ton
19.	Relation to the other trenches	90 ton
	and galleries :	TD-1,2,3,4,6,7,8,9,10
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-2

```
1.
       Number of trench:
                                        TD-6
   2.
       Project No.:
                                        78/26
   3. Area:
                                        Kondağ
   4. Map No.:
                                        Erzincan, i-44, b1, No.2
   5.
       Coordinates:
                                        27.31 N.
                                                           12.69 E
   6.
       Altitude:
                                        2,245 m
   7.
       Name of the mine:
                                        Siçankale (2,000) (northern chrome zone)
       Location and communication:
   8.
                                        Külekçinin Sr., Sıçankale Y., Aşkale,
                                        Erzurum.
                                        10 minutes from Siçankale Y., on foot
  9.
       Type etc.:
                                        pit for exploration
 10.
       Host rock:
                                        serpentinized dunite
 11.
      Orebody:
      Stratigraphic horizon in
           ultrabasic rocks:
                                        upper horizon
      Amount of the orebody;
                                        1
      Direction of the orebody;
                                       strike
                                                                  dip *
                                       (Direction of the ore zone;
                                                                    N 70°E )
      Scale of the orebody observed;
                                       extension to strike-side
                                                                          m
                                       extension to dip-side
                                                                    0.5
                                                                          m
                                       width
                                                                    3
                                                                          m
      Shape of the orebody;
      Chromite banding around the
 12.
          orebody:
                                       not observed
 13.
      Fault around the orebody:
                                       strike N 80°W dip 70°N
 14.
      Ore:
          Type of the ore:
                                       disseminated
          Ore minerals;
                                       chromite
          Grade of the ore;
                                       macroscopic estimation, 25-30\,\%\,\mathrm{Cr}_{2}\mathrm{O}_{3}
15.
      The largest scale of the
                                       extension to strike-side
                                                                    8
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                    1
                                                                         m
                                       width
                                                                         m
16.
      Volume of the trench estimated:
                                                                         m^3
                                                                   20
17.
      The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                   10
                                                                         ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
          and galleries:
                                      TD-1,2,3,4,5,7,8,9,10
20.
     Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-2
```

1.	Number of trench:	TD-7
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, b1, No.2
5.	Coordinates:	27.27 N, 12.78 E
6.	Altitude:	2,230 m
7.	Name of the mine:	Siçankale (2,000) (northern chrome zone)
8.	Location and communication:	Külekçinin Sr., Sıçankale Y., Aşkale, Erzurum,
9.	Type etc. :	10 minutes from Siçankale Y., on foot trench, gallery (open) for exploitation
10. 11.	Host rock : Orebody :	serpentinized dunite
7.4.	Stratigraphic horizon in	
	ultrabasic rocks ;	upper horizon
	Amount of the orebody;	1
	Direction of the orebody;	strike N 50°E dip 65°SW*
	Direction of the orebody,	
	Scale of the orebody observed;	
	source of the crossed, opportunity,	extension to strike-side * m extension to dip-side 1.5 m
		width 12 m
	Shape of the orebody;	*
12.	Chromite banding around the	
	orebody:	strike N 20° - 34°W dip 30° - 80°SW
13.	Fault around the orebody:	strike N 18°E dip 50°W
14.	Ore:	
	Type of the ore;	brecciated, disseminated
	Ore minerals;	chromite (uvarovite)
	Gangue minerals;	serpentine, magnetite, brucite, talc
	Grade of the ore;	macroscopic estimation, 35 - 40 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 1.5 m
	orebody estimated:	extension to dip-side 1.5 m
		width 12 m
16.	Volume of the trench estimated:	276 m ³
17.	The largest amount of the ore	(Length of the gallery 16 m)
	estimated which is taken	
	from the trench:	95 ton
18.	Amount of stock of the ore:	38 ton
19.	Relation to the other trenches	
	and galleries:	TD-1,2,3,4,5,6,8,9,10
20.	Laboratorical tests:	thin section (D-38)
		X-ray diffractive analysis (D-59)
21.	Remarks:	refer Plate 7-2

1.	Number of trench:	TD-8
2.	Project No.:	78/26
3.	Area:	Kopdağ
4.	Map No.:	Erzincan, i-44, b1, No.2
5.	Coordinates:	27.30 N, 12.72 E
	Altitude:	2,238 m
7.	Name of the mine:	Siçankale (2,000) (northern chrome zone)
8.	Location and communication:	Külekçinin Sr., Sıçankale Y., Aşkale, Erzurum,
		10 minutes from Siçankale Y., on foot
9.	Type etc.:	trench for exploration
10.	Host rock:	serpentinized dunite
11.	Orebody:	
	Stratigraphic horizon in ultrabasic rocks;	
	Amount of the orebody;	upper horizon
	Direction of the orebody;	strike N 50°W dip 50°SW*
	Direction of the orebody;	strike N 50°W dip 50°SW* (Direction of the ore zone; N 70°E)
	Scale of the orebody observed ;	extension to strike-side * m
	beare of the orebody observed;	extension to dip-side 1 m
		width 5 m
	Shape of the orebody;	lenticular
	dimpo of the officery,	ionitionia.
12.	Chromite banding around the	
	orebody:	not observed
13.	Fault around the orebody:	strike N 30°E - N 20°W dip 40 - 60°NW
14.	Ore:	-
	Type of the ore ;	brecciated
	Ore minerals;	chromite
	Great of the area	1 1 1 0 0 10 10 0 0 0 0 0 0 0 0 0 0 0 0
	Grade of the ore;	macroscopic estimation, 35 - 40 % Cr ₂ O ₃
15.	The largest scale of the	extension to strike-side 10 m
	orebody estimated:	extension to dip-side 2.5 m
		width 6 m
16.	Volume of the trench estimated:	281 m ³
17.	The largest amount of the ore	
	estimated which is taken	
	from the trench:	525 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches	
	and galleries:	TD-1,2,3,4,5,6,7,9,10
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-2

```
Number of trench:
                                    -TD-9
 1.
     Project No.:
                                      78/26
 3.
     Area:
                                      Kopdag
 4.
     Map No.:
                                      Erzincan, 1-44, bl. No.2
 5.
     Coordinates:
                                      27.33 N,
                                                       12.73 E
     Altitude:
 6.
                                     2,238 m
 7.
     Name of the mine:
                                     Sicankale (2,000) (northern chrome zone)
 8.
     Location and communication:
                                     Külekçinin Sr., Sıçankale Y., Askale,
                                     Erzurum,
                                      10 minutes from Siçankale Y., on foot
 9.
      Type etc.:
                                     trench for exploration
10.
     Host rock :
                                     serpentinized dunite
11.
     Orebody:
     Stratigraphic horizon in
          ultrabasic rocks ;
                                     upper horizon
     Amount of the orebody;
                                     1
     Direction of the orebody;
                                     strike
                                                               dip *
                                     (Direction of the ore zone; N 70°E)
     Scale of the orebody observed;
                                     extension to strike-side
                                                                       m
                                     extension to dip-side
                                                                 1
                                                                       m
                                     width
                                                                 1
                                                                       m
     Shape of the orebody;
                                     lenticular
12.
     Chromite banding around the
         orebody:
                                     strike N 40°W dip 30° - 40°SW
13.
     Fault around the orebody:
                                     strike N 40°W dip 70°SW
14.
     Ore:
         Type of the ore;
                                     brecciated, disseminated
         Ore minerals;
                                     chromite
         Grade of the ore;
                                     macroscopic estimation, 35 % Cr2O3
15.
     The largest scale of the
                                     extension to strike-side
                                                                  10 m
         orebody estimated:
                                     extension to dip-side
                                                                   2.5 m
                                     width
                                                                   2
                                                                       m
16.
     Volume of the trench estimated:
                                                                 188
                                                                       m^3
17.
     The largest amount of the ore
         estimated which is taken
         from the trench:
                                                                 175 ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                     TD-1,2,3,4,5,6,7,8,10
20.
     Laboratorical tests:
21.
     Remarks:
                                     refer Plate 7-2
```

```
1.
      Number of trench:
                                       TD-10
 2.
      Project No.:
                                       78/26
 3.
      Area:
                                       Kopdağ
 4.
      Map No.:
                                       Erzincan, i-44, b1, No.2
 5.
      Coordinates:
                                       27.32 N,
                                                         12.75 E
 6.
      Altitude:
                                       2,245 m
 7.
      Name of the mine:
                                       Siçankale (2,000) (northern chrome zone)
 8.
      Location and communication:
                                       Külekçinin Sr., Sıçankale Y., Aşkale,
                                       Erzurum,
                                       10 minutes from Siçankale Y., on foot
      Type etc.:
 9.
                                       trench for exploration
10.
      Host rock:
                                       serpentinite
11.
      Orebody:
      Stratigraphic horizon in
          ultrabasic rocks:
                                       upper horizon
      Amount of the orebody;
      Direction of the orebody;
                                       strike
                                                   N 80°W
                                                                 dip 20°S
                                       (Direction of the ore zone;
                                                                   N 70°E )
      Scale of the orebody observed:
                                       extension to strike-side
                                                                         m
                                       extension to dip-side
                                                                   1
                                                                         m
                                       width
                                                                   1.5
                                                                         m
      Shape of the orebody;
                                       lenticular
12.
      Chromite banding around the
          orebody:
                                       strike E dip 12°S, strike N 38°E dip 35°NW
13.
      Fault around the orebody:
                                       strike N 80°W, N 75° E dip 60°S, 60°NW (in turn)
14.
     Ore:
          Type of the ore;
                                       brecciated, disseminated
          Ore minerals:
                                       chromite
          Grade of the ore;
                                       macroscopic estimation, 35 - 40 % Cr<sub>2</sub>O<sub>3</sub>
15.
     The largest scale of the
                                       extension to strike-side
                                                                    4
                                                                         m
          orebody estimated:
                                       extension to dip-side
                                                                    5
                                                                         m
                                                                    2.5 m
                                       width
16.
     Volume of the trench estimated:
                                                                  188
                                                                         m^3
17.
     The largest amount of the ore
          estimated which is taken
          from the trench:
                                                                  175
                                                                         ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TD-1,2,3,4,5,6,7,8,9
20.
    Laboratorical tests:
21.
     Remarks:
                                      refer Plate 7-2
```

1. 2. 3. 4. 5. 6. 7.	Number of trench: Project No.: Area: Map No.: Coordinates: Altitude: Name of the mine: Location and communication:	TD-11 78/26 Kopdag Erzincan, i-44, b1, No.2 27.51 N, 13.39 E 2,301 m Sıçankale (2,000) (northern chrome zone) Külekçinin Sr., Sıçankale Y., Aşkale, Erzurum, 105 minutes from Sıçankale Y., on foot
9.	Type etc.:	trench for exploration
10. 11.	Host rock : Orebody : Stratigraphic horizon in	strongly serpentinized dunite
	ultrabasic rocks; Amount of the orebody;	upper horizon (footwall-side orebody)
	Direction of the orebody;	strike N 70°E dip 50°SE
	Scale of the orebody observed;	(Direction of the ore zone; N 60°E) extension to strike-side 7 m extension to dip-side 0.5 m
	Shape of the orebody;	width 0.7 m lenticular
12.	Chromite banding around the orebody:	not observed
13. 14.	Fault around the orebody: Ore:	not observed
	Type of the ore; Ore minerals;	brecciated chromite
	Grade of the ore;	macroscopic estimation, $30-35\%\mathrm{Cr}_2\mathrm{O}_3$
15.	The largest scale of the orebody estimated:	extension to strike-side 7 m extension to dip-side 2 m width 1.5 m
16.	Volume of the trench estimated:	216 m ³
17.	The largest amount of the ore estimated which is taken from the trench:	53 ton
18.	Amount of stock of the ore:	
19.	Relation to the other trenches and galleries:	TD-12
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-2

1. 2.	Number of trench: Project No.:	TD-12 78/26
3.	Area:	Kopdag
4.	Map No.:	Erzincan, i-44, b1, No.2
5.	Coordinates:	27.53 N, 13.51 E
6.	Altitude:	2,334 m
7.	Name of the mine:	Siçankale (2,000) (northern chrome zone)
8.	Location and communication:	Külekçinin Sr., Sıçankale Y., Aşkale, Erzurum,
9.	Type etc. :	10 minutes from Siçankale Y., on foot trench for exploitation
10. 11.	Host rock: Orebody:	serpentinized dunite
	Stratigraphic horizon in	
	ultrabasic rocks;	upper horizon (footwall-side orebody)
	Amount of the orebody;	1
	Direction of the orebody;	strike N 60°E dip 55°SE (Direction of the ore zone; N 60°E)
	Scale of the orebody observed;	extension to strike-side * m extension to dip-side 0.2 m
	Shape of the orebody;	width 0.2 m lenticular
12.	Chromite banding around the	
7.0	orebody:	strike N 25°E dip 60°NW
13. 14.	Fault around the orebody: Ore:	not observed
	Type of the ore; Ore minerals;	brecciated * chromite
	Grade of the ore;	macroscopic estimation, 40 % Cr ₂ O ₃ *
15.	The largest scale of the	extension to strike-side 10 m
	orebody estimated:	extension to dip-side 2.5 m
		width 3 m
16.	Volume of the trench estimated:	$800 ext{ m}^3$
17.	The largest amount of the ore estimated which is taken	
	from the trench:	131 ton
18.	Amount of stock of the ore:	-
19.	Relation to the other trenches and galleries:	TD-11
20.	Laboratorical tests:	-
21.	Remarks:	refer Plate 7-2

```
TD-13
     Number of trench:
 1.
                                      78/26
 2.
     Project No.:
 3. Area:
                                      Kopdag
                                      Erzincan, i-44, bl, No.2
 4.
     Map No.:
                                                        14.15 E
                                      27.69 N.
     Coordinates:
 5.
 6.
     Altitude:
                                      2,371 m
                                      Siçankale (2,000) (northern chrome zone)
 7.
     Name of the mine:
                                      Catinardınındere, Sıçankale Y., Aşkale,
 8.
     Location and communication:
                                      Erzurum
                                      35 minutes from Siçankale., on foot
                                      trench for exploration
 9.
     Type etc.:
10.
     Host rock:
                                      serpentinized dunite
11.
     Orebody:
     Stratigraphic horizon in
          ultrabasic rocks;
                                      upper horizon (footwall-side orebody)
     Amount of the orebody;
     Direction of the orebody:
                                      strike N 80°E, N 55°W dip 55°N, 75°NW (in turn)
                                                                  N 60°E )
                                      (Direction of the ore zone :
                                      extension to strike-side
     Scale of the orebody observed;
                                                                        m
                                                                  0.5
                                      extension to dip-side
                                                                   1.5
                                      width
                                                                        m
                                      lenticular
     Shape of the orebody;
12.
     Chromite banding around the
                                      strike N 10°E dip 45°W, strike N 18° - 35°W
         orebody:
                                                                       dip 68°W, 65°E
13.
     Fault around the orebody:
                                      strike N 60° - 70°W
                                                      dip 40°, 80° N
14.
     Ore:
                                      massive, brecciated
          Type of the ore;
                                      chromite (uvarovite)
         Ore minerals;
                                      serpentine, magnetite, aragonite
         Gangue minerals:
                                      macroscopic estimation, 35 % Cr2O3
         Grade of the ore;
                                      analytical value, 32.24 % Cr2O3, from the stockpile,
                                      random sample
15.
     The largest scale of the
                                      extension to strike-side 5, 7
                                                                        m
                                                              2, 3
         orebody estimated:
                                      extension to dip-side
                                                                        m
                                      width
                                                              1, 1.5
                                                                        m (in turn)
16.
     Volume of the trench estimated:
                                                                  396
                                                                        m^3
17.
     The largest amount of the ore
         estimated which is taken
         from the trench:
                                                                   125
                                                                        ton
                                      10 ton
18.
     Amount of stock of the ore:
19.
     Relation to the other trenches
         and galleries:
                                      TD-14,36
20.
     Laboratorical tests:
                                      chemical analysis of the ore (Dcr-1)
                                      X-ray diffractive analysis (D-60)
21.
     Remarks:
                                      refer Plate 7-2
```