

Fig. II-2-2-2 Geologic Cross Section along MJML-3

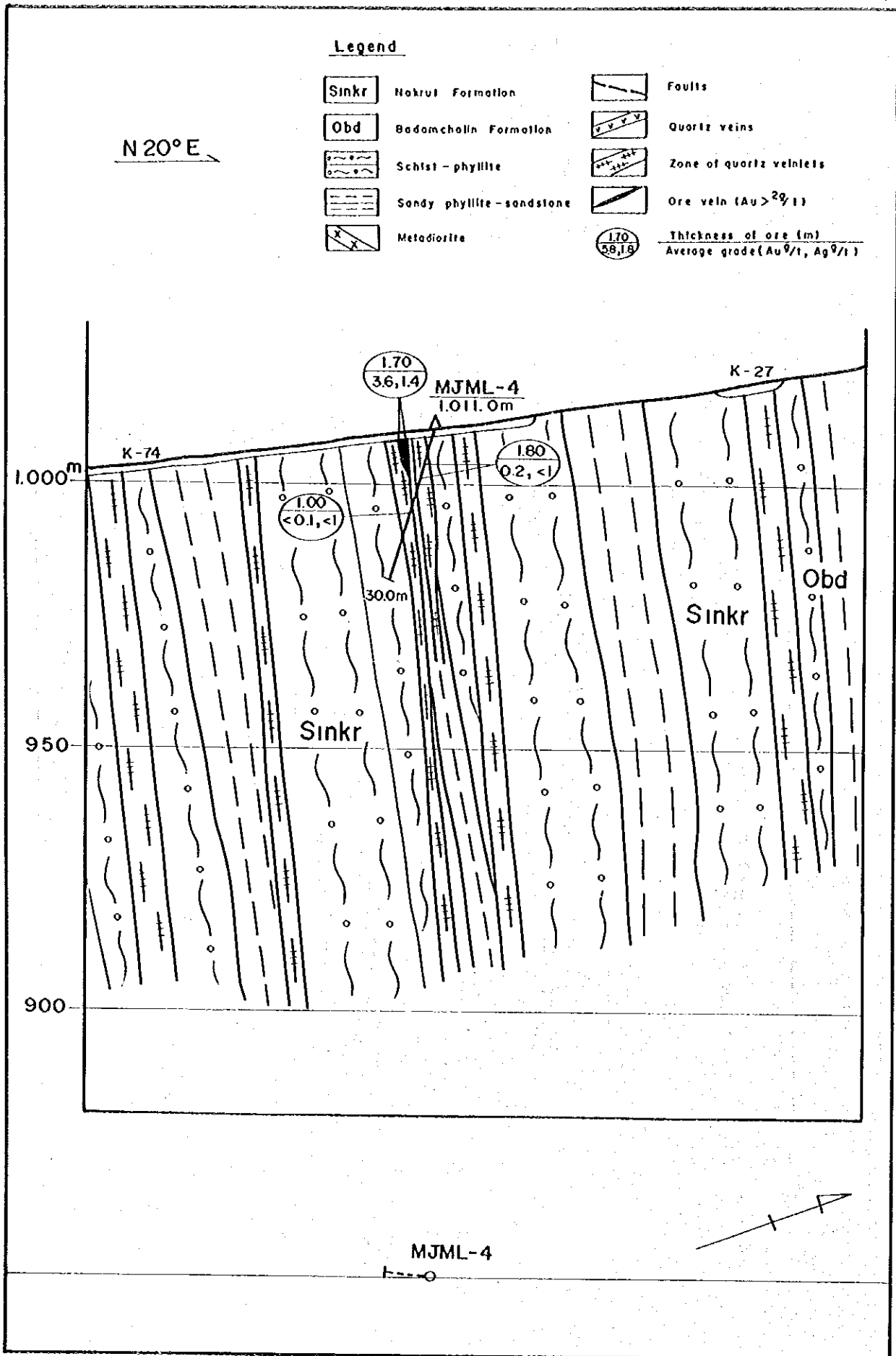


Fig. II -2-2-3 Geologic Cross Section along MJML-4

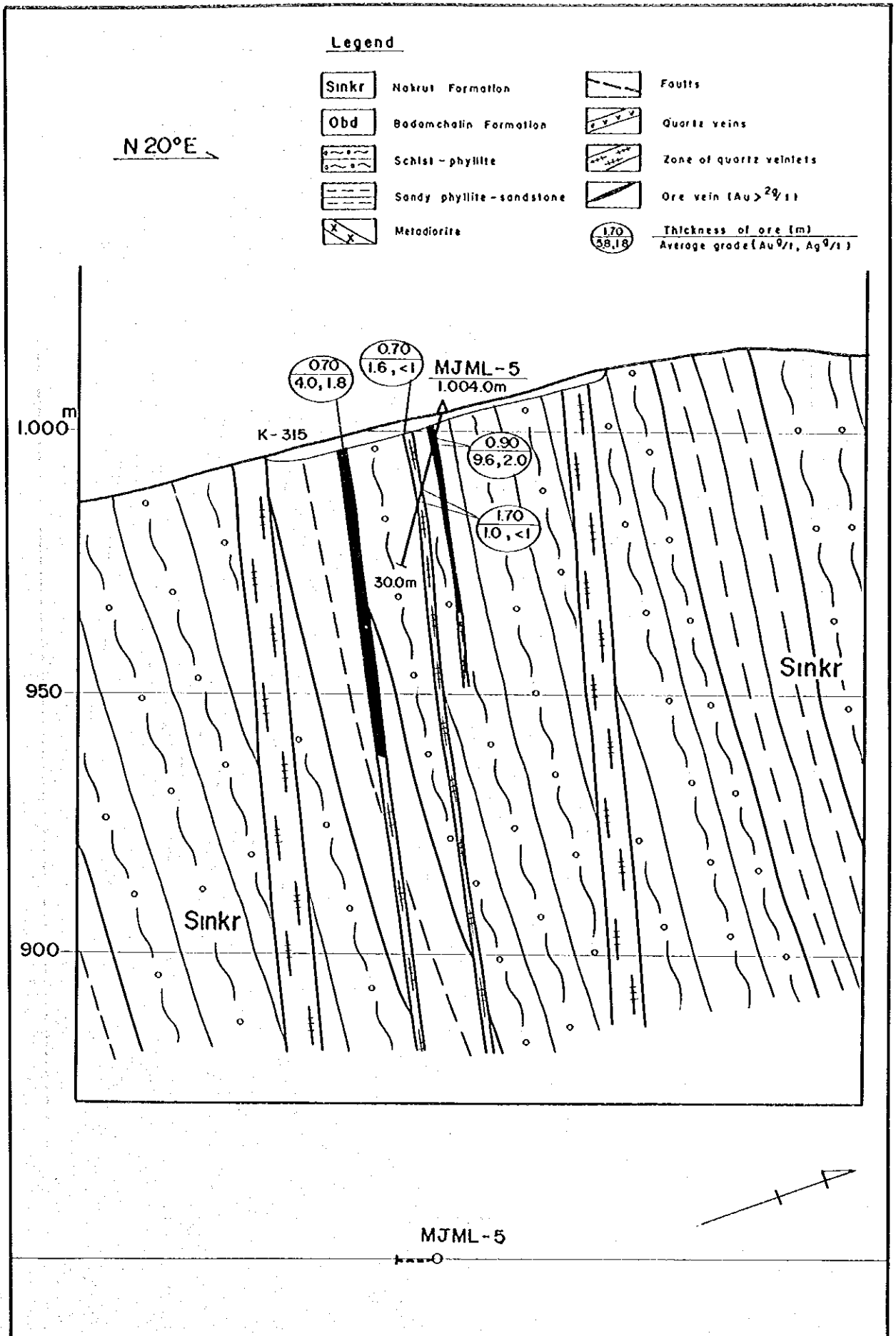


Fig. II -2-2-4 Geologic Cross Section along MJML-5

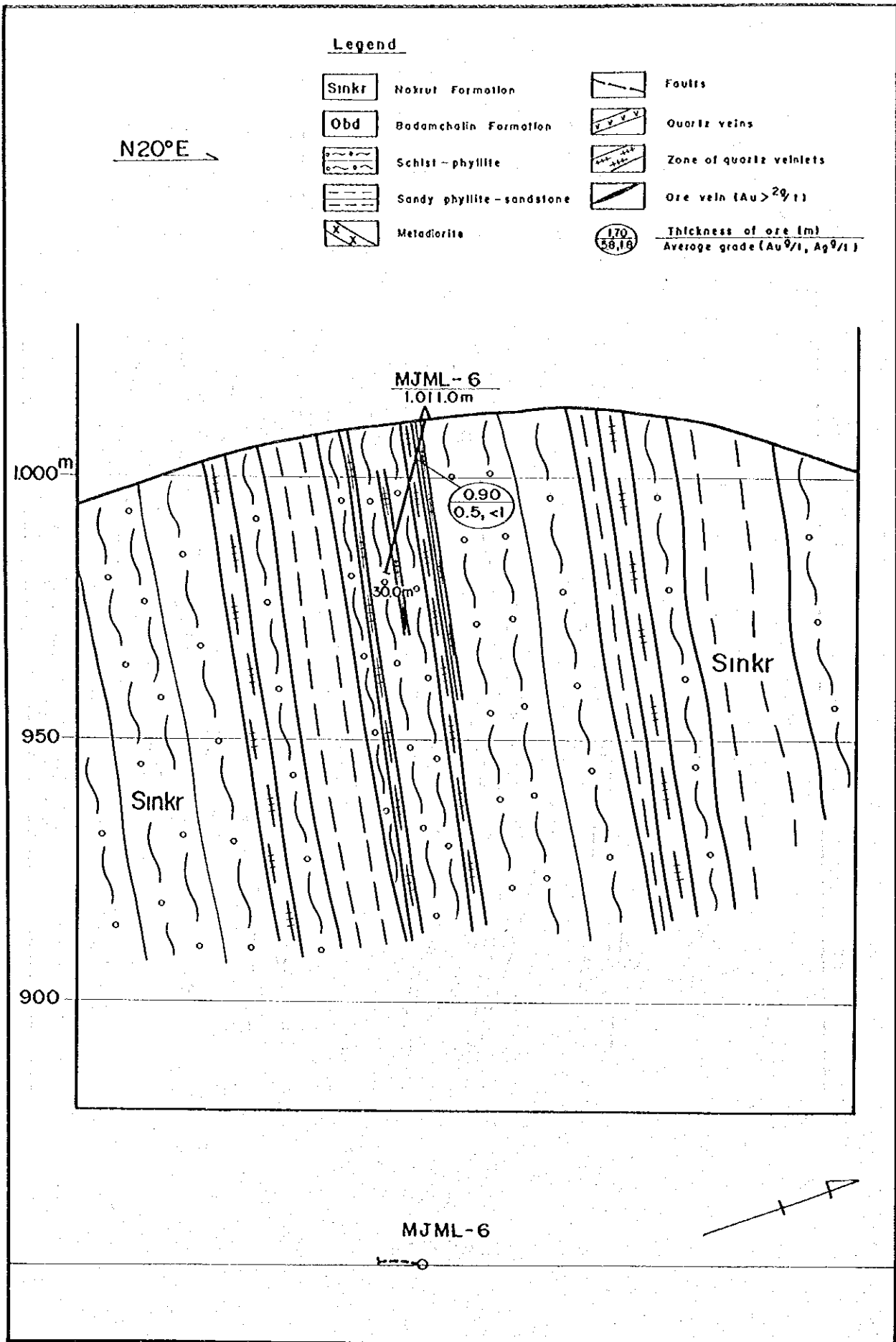


Fig. II -2-2-5 Geologic Cross Section along MJML-6

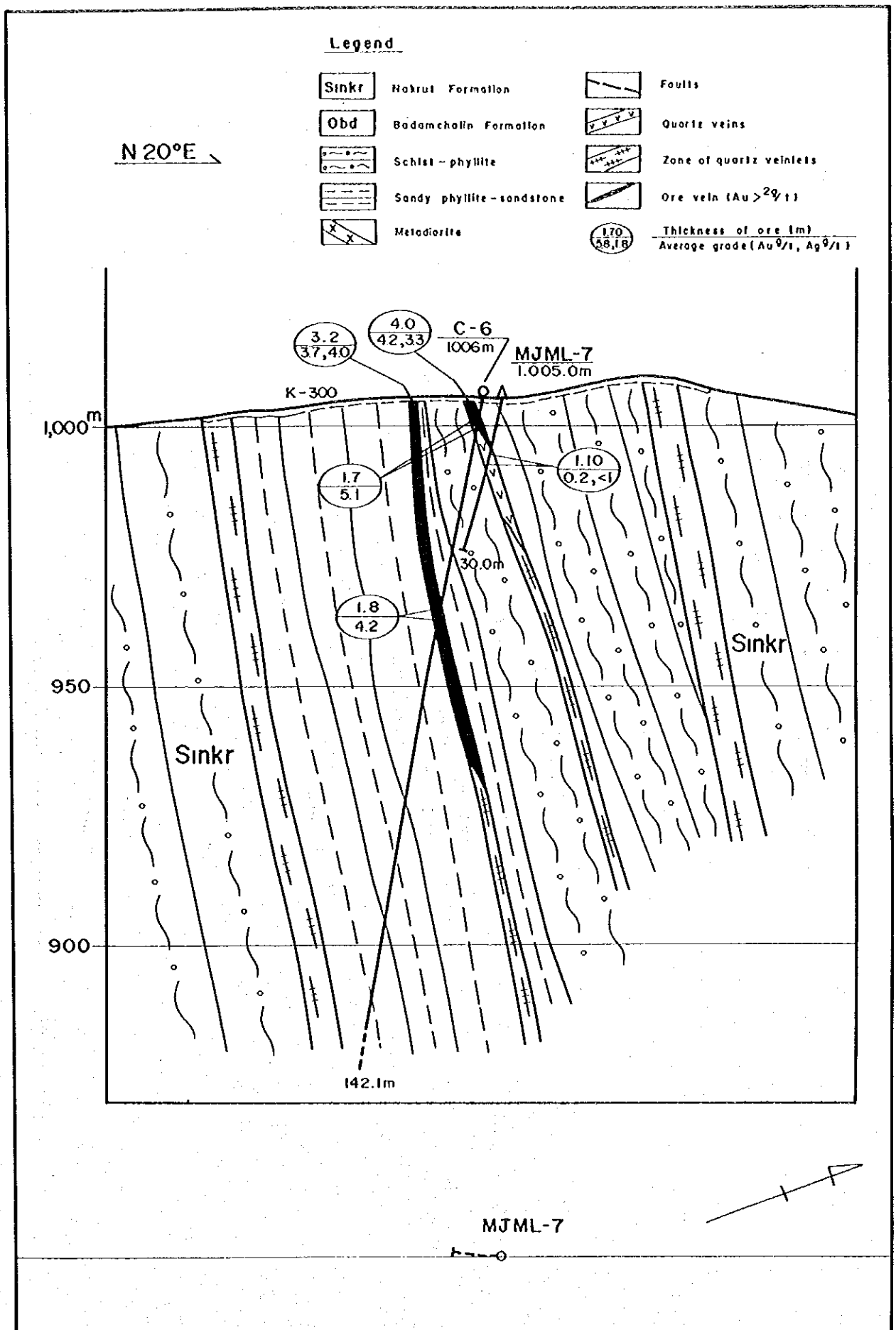


Fig. II-2-2-6 Geologic Cross Section along MJML-7

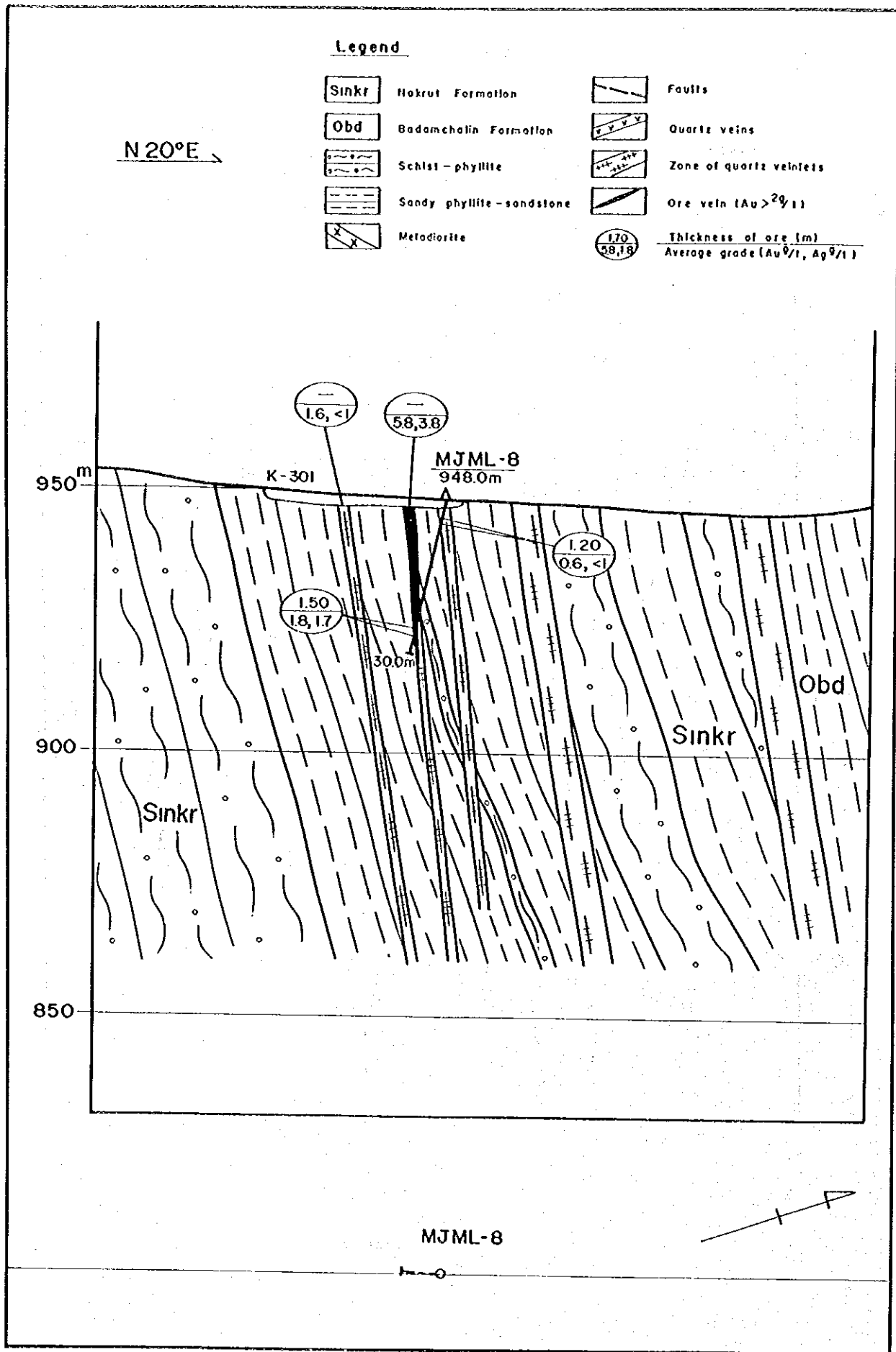


Fig. II-2-2-7 Geologic Cross Section along MJML-8

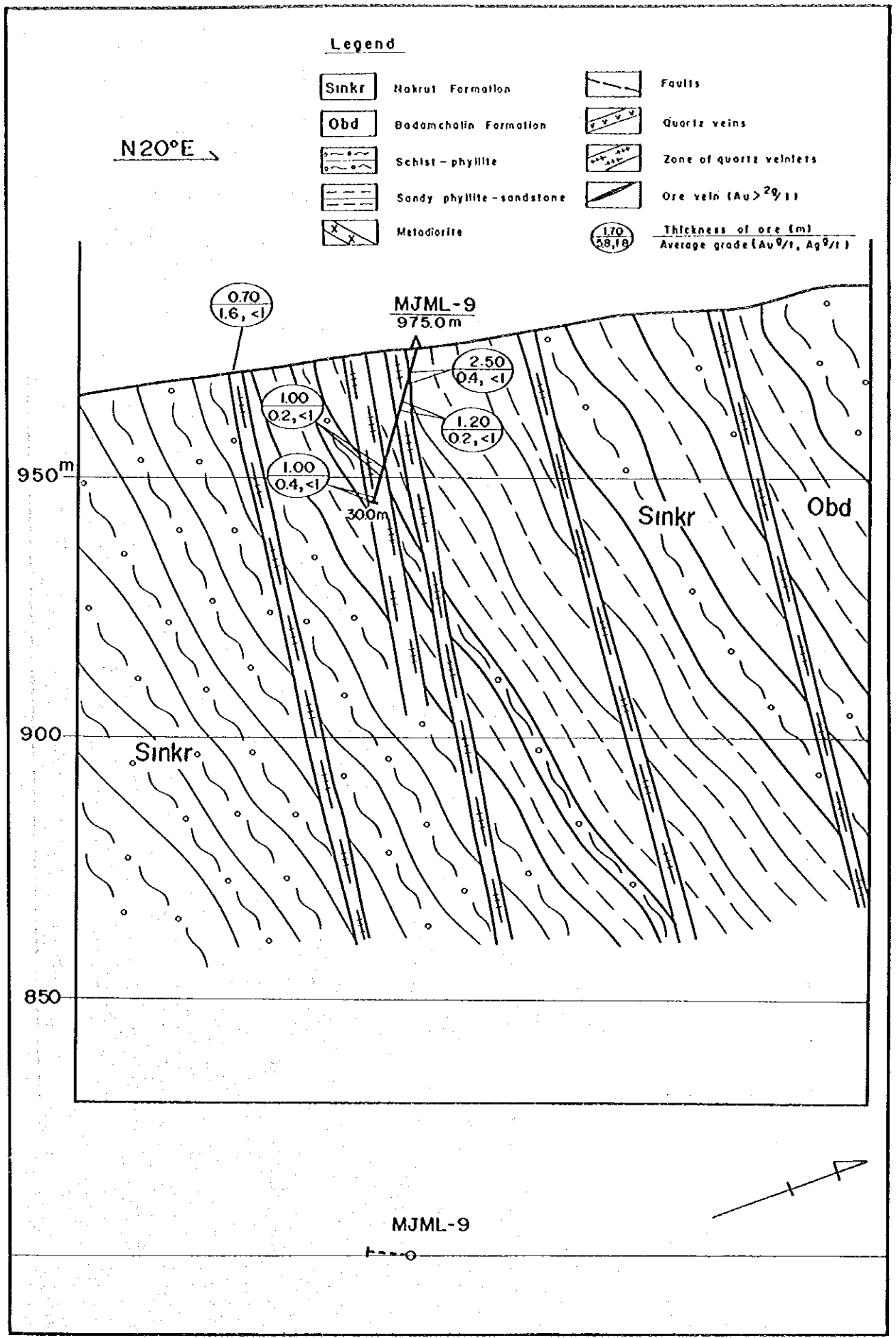


Fig. II-2-2-8 Geologic Cross Section along MJML-9

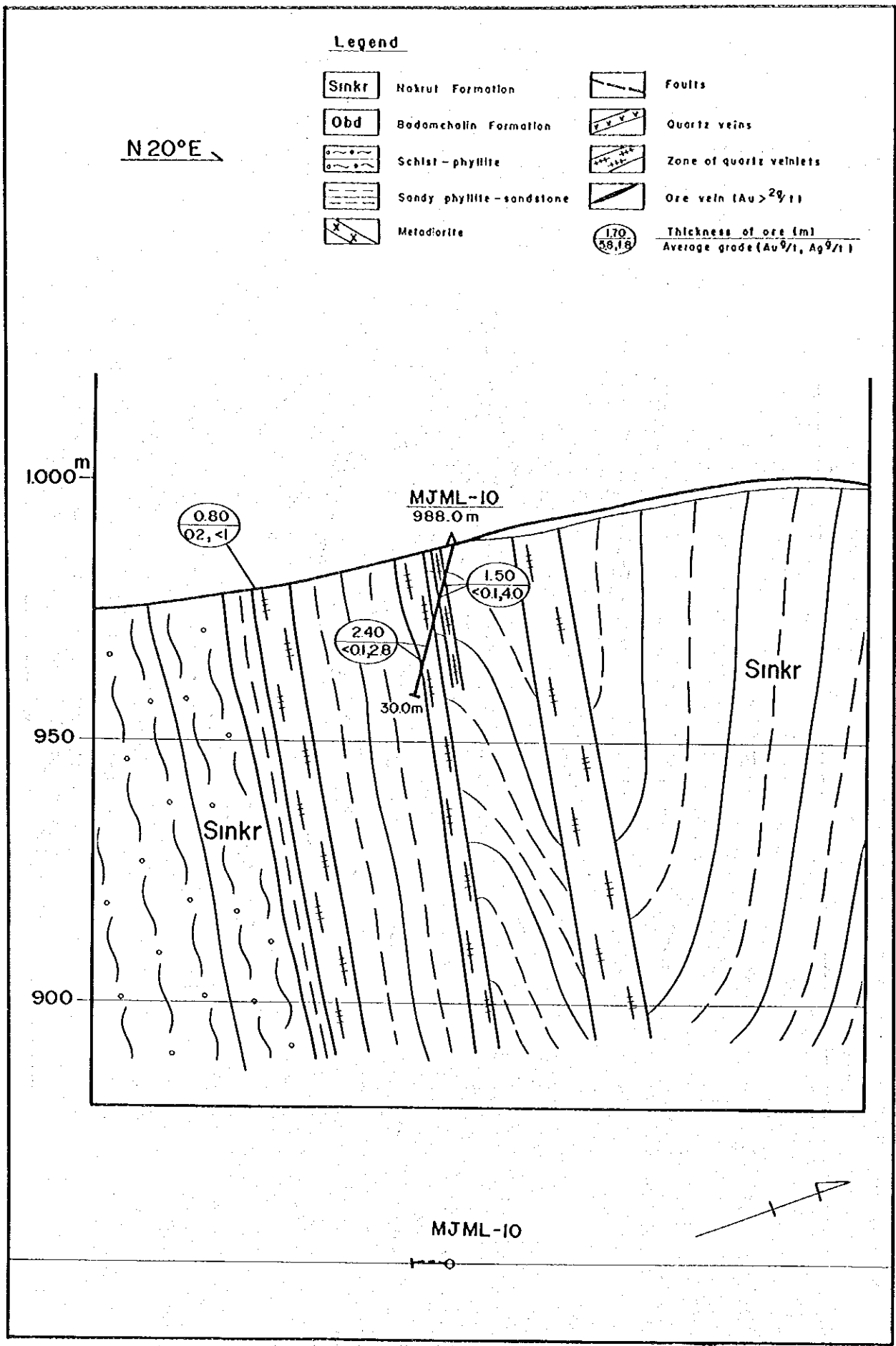


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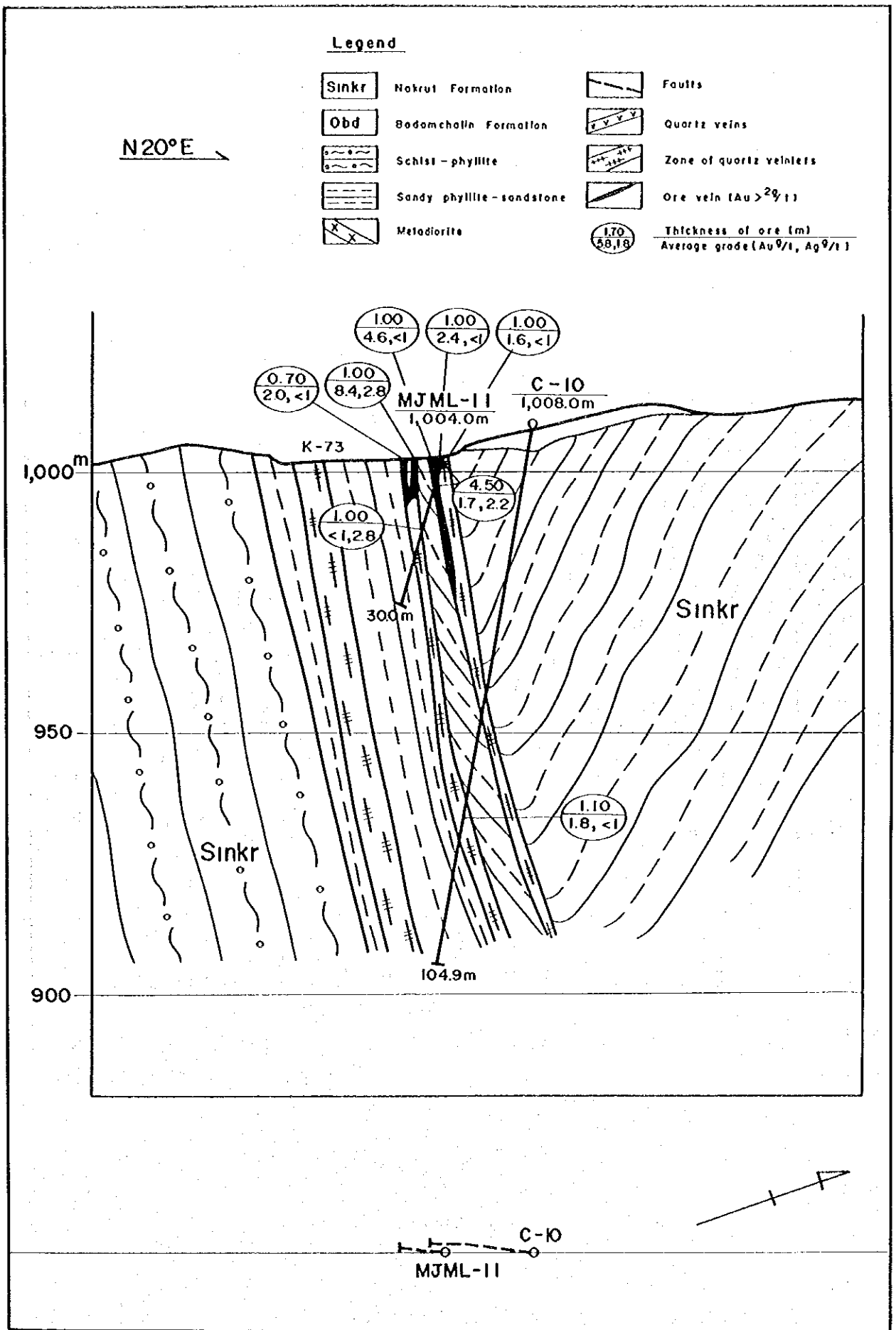


Fig. II-2-2-10 Geologic Cross Section along MJML-11

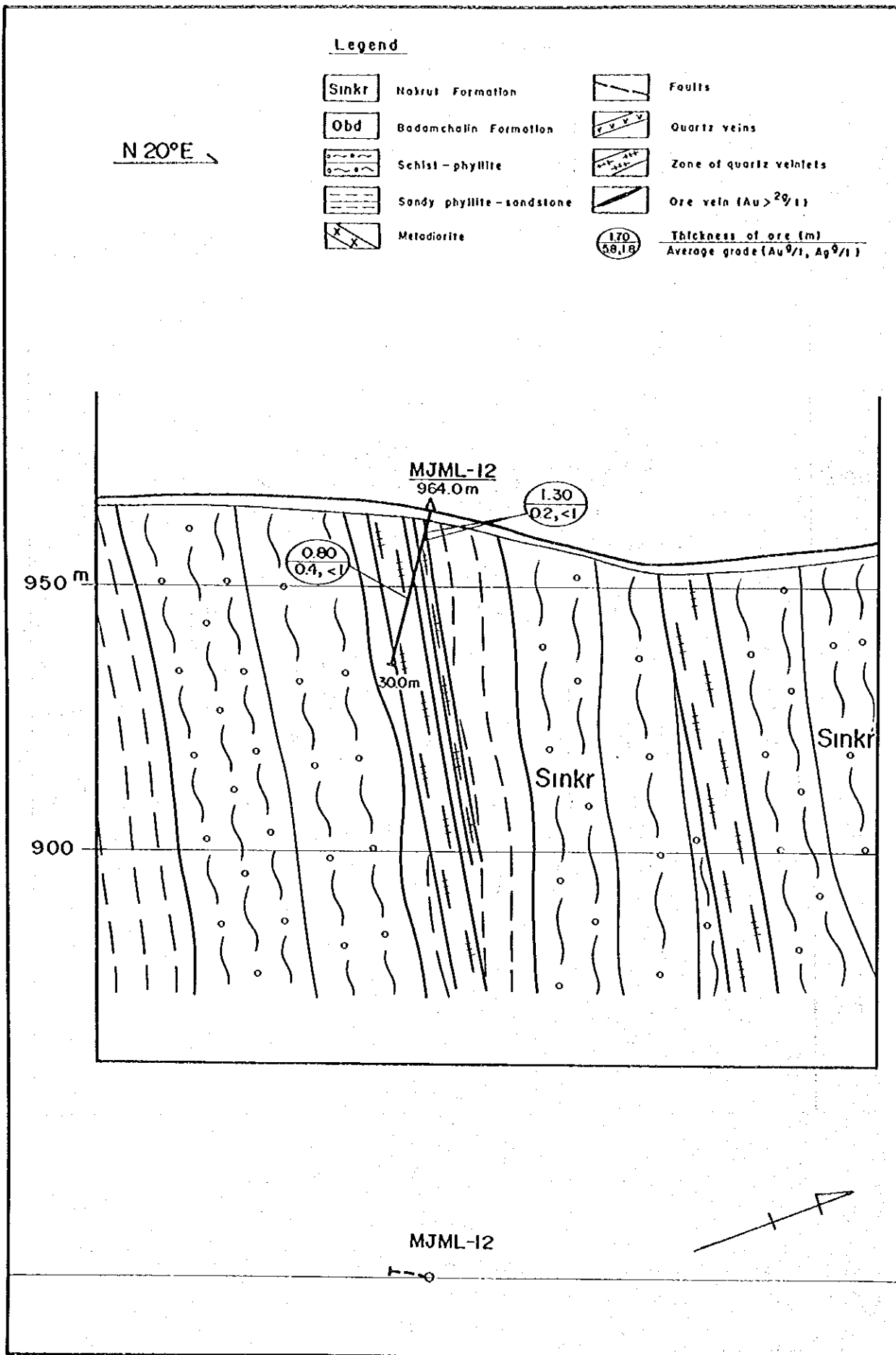


Fig. II-2-2-11 Geologic Cross Section along MJML-12

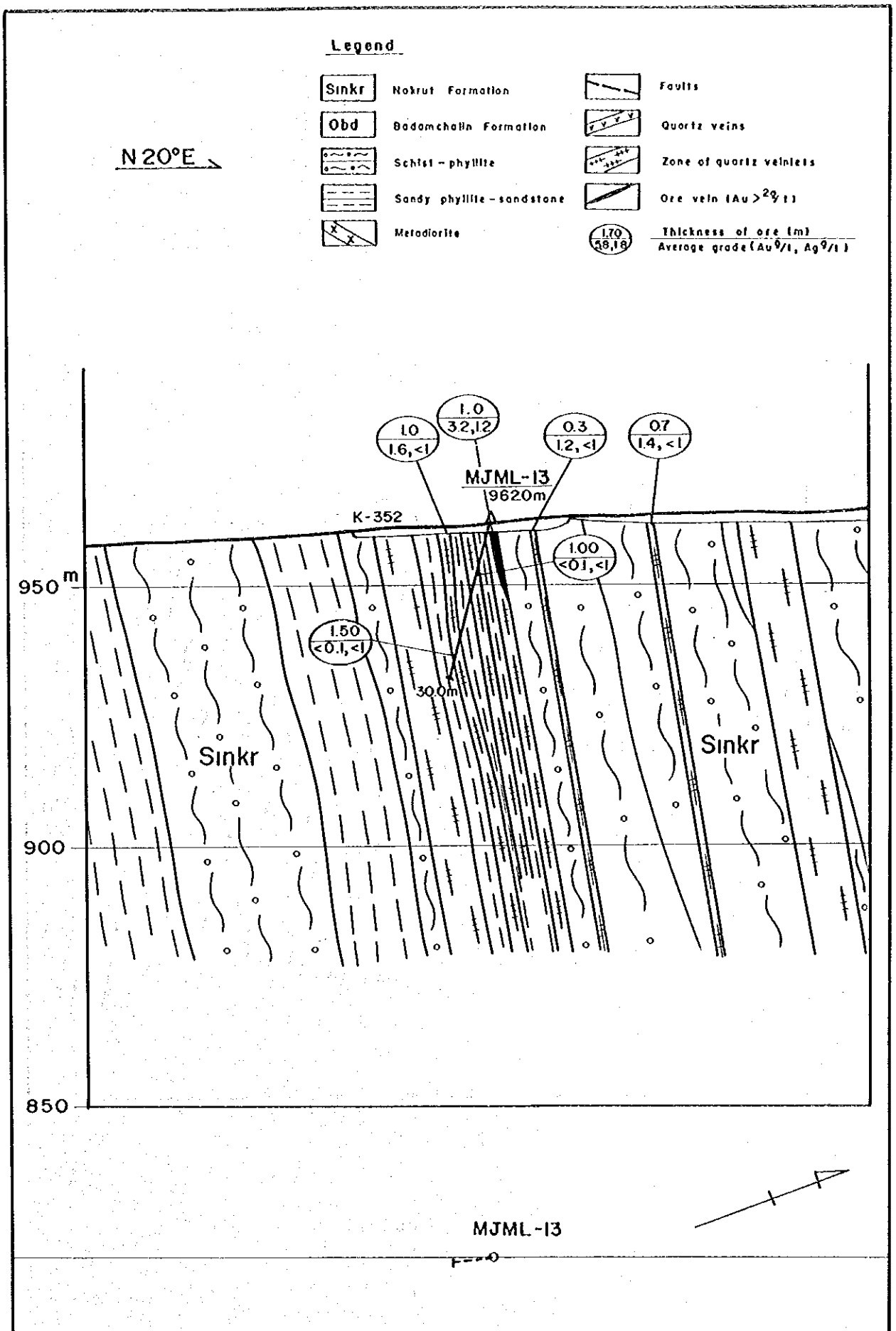


Fig. II-2-2-12 Geologic Cross Section along MJML-13

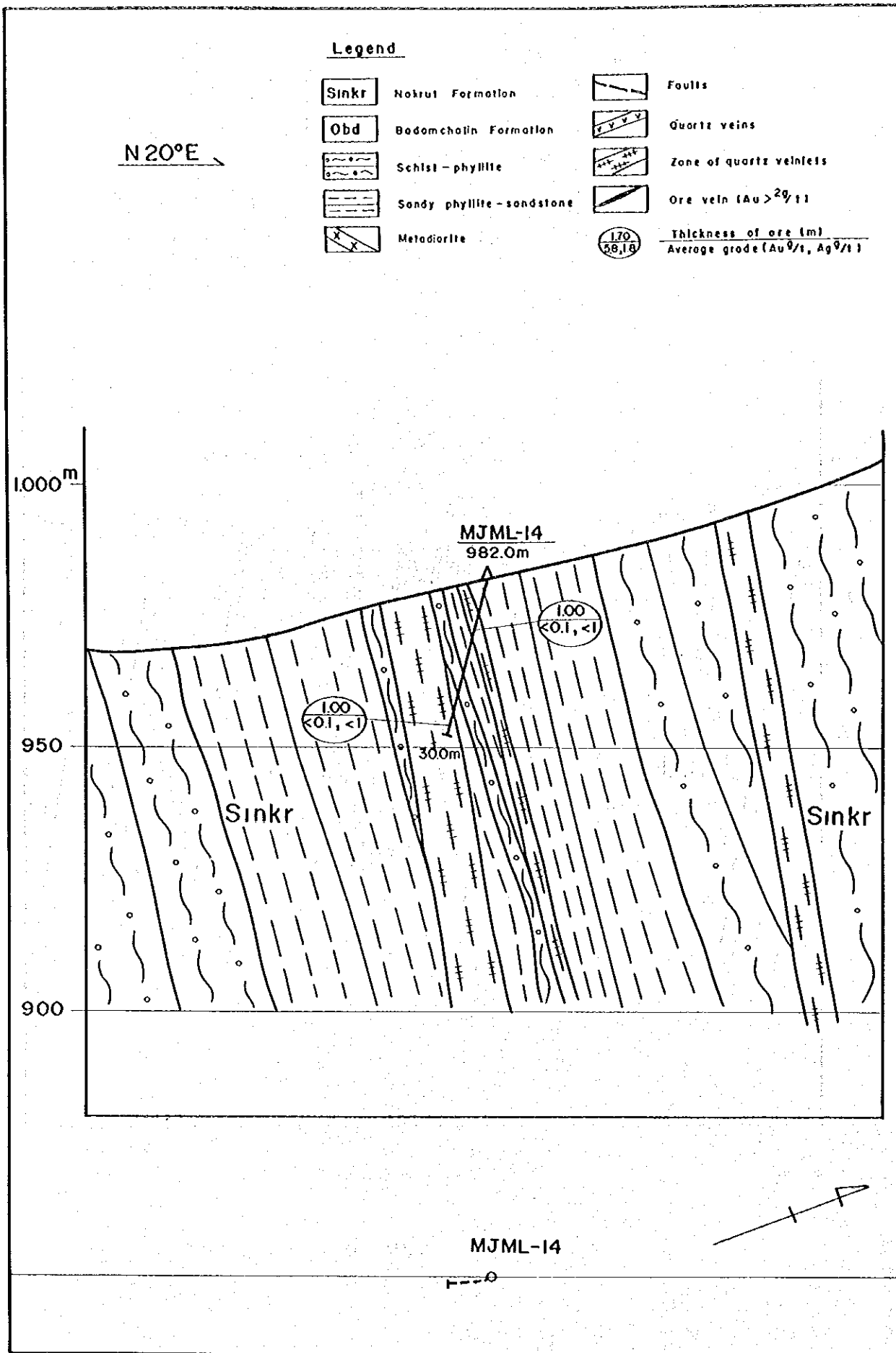


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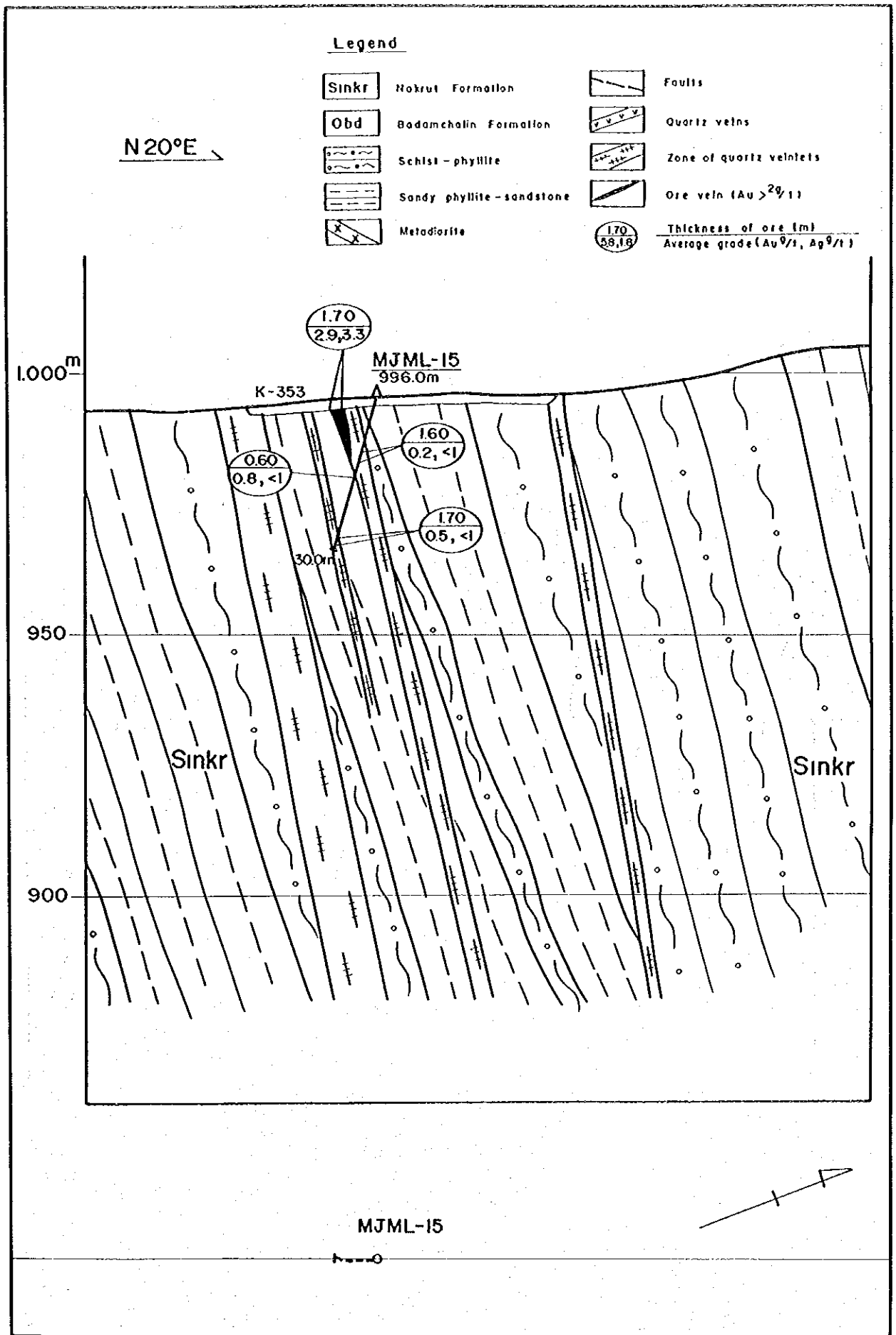


Fig. II -2-2-14 Geologic Cross Section along MJML-15

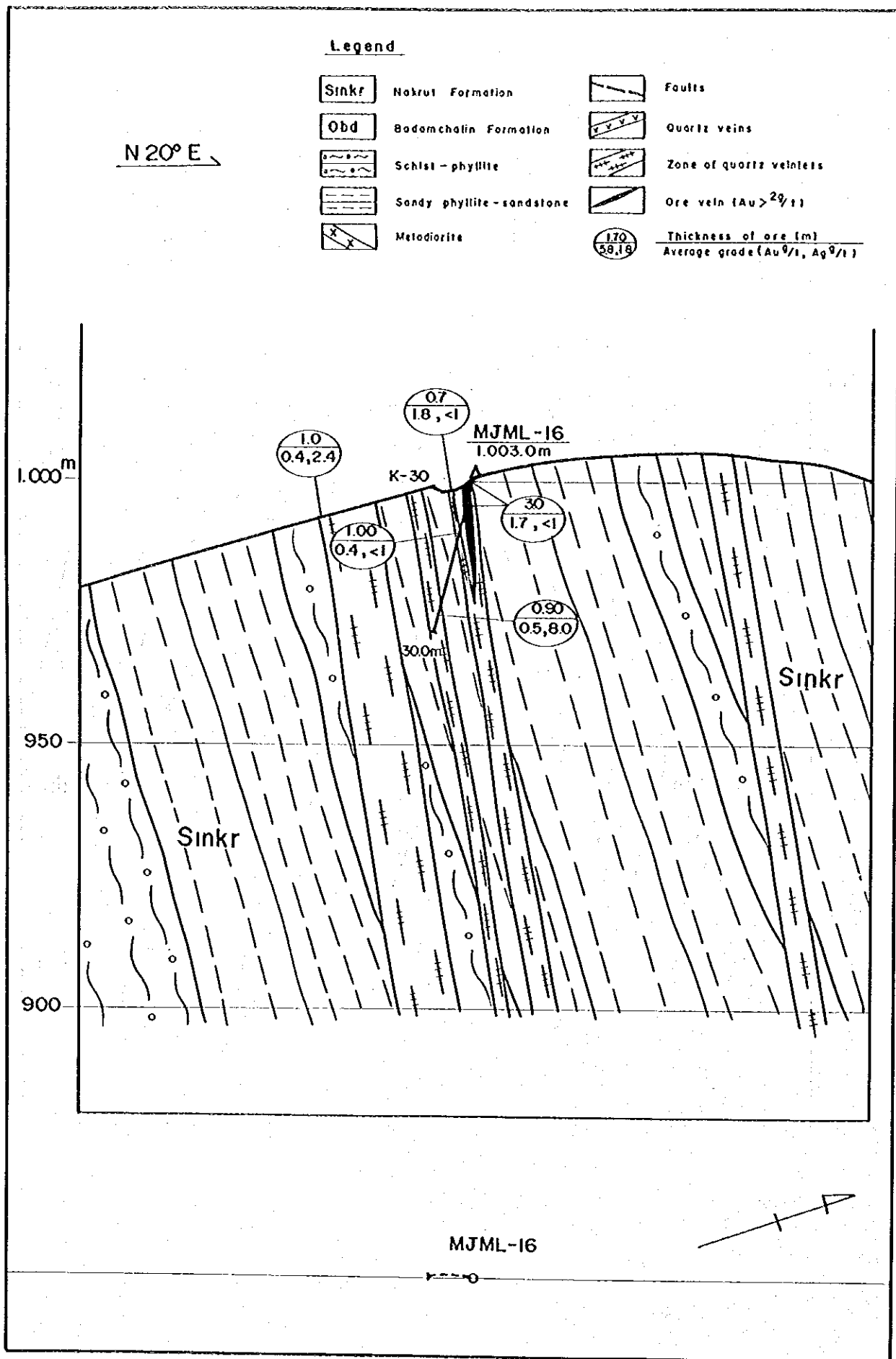


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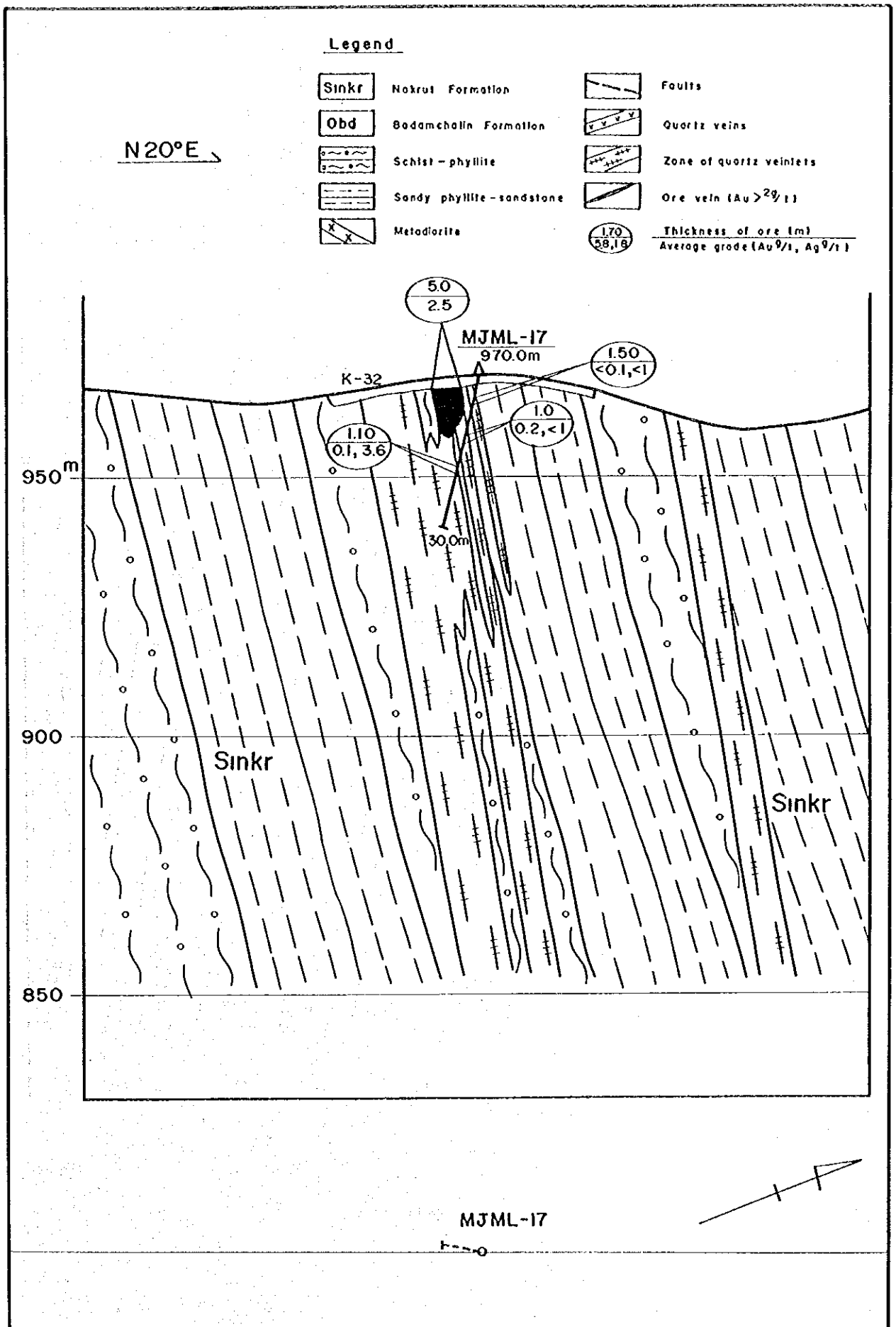


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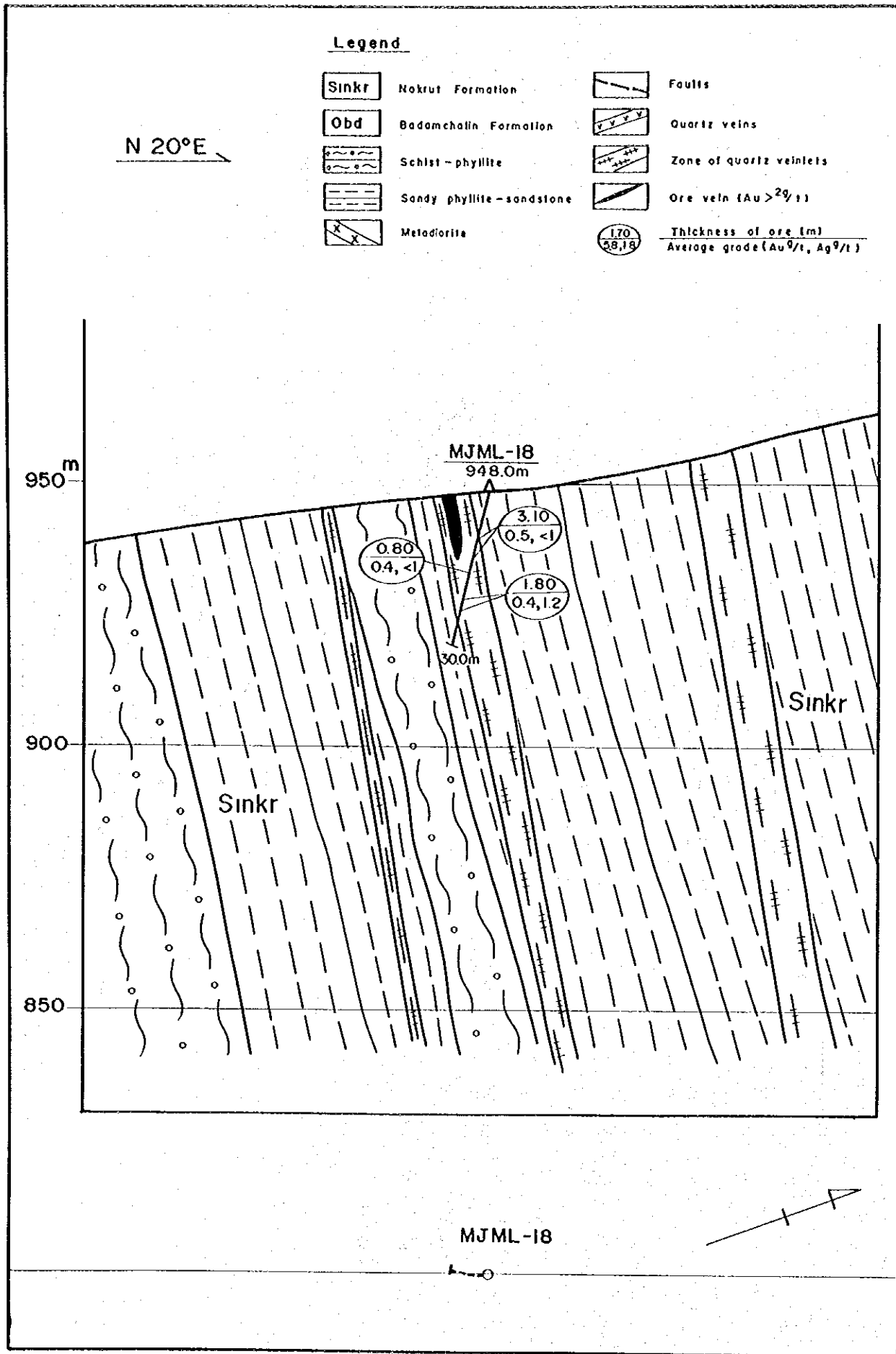


Fig. II-2-2-17 Geologic Cross Section along MJML-18

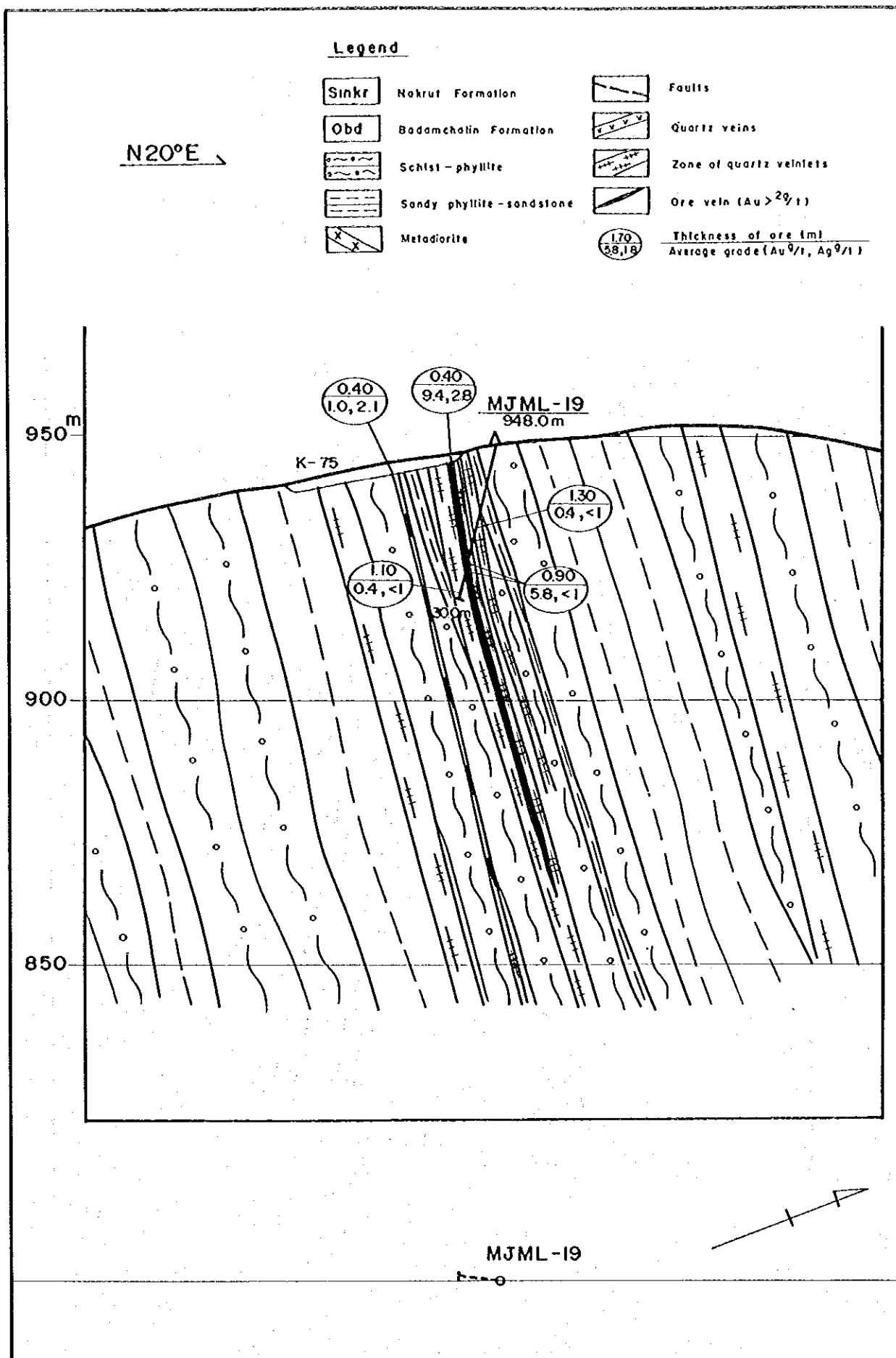


Fig. II-2-2-18 Geologic Cross Section along MJML-19

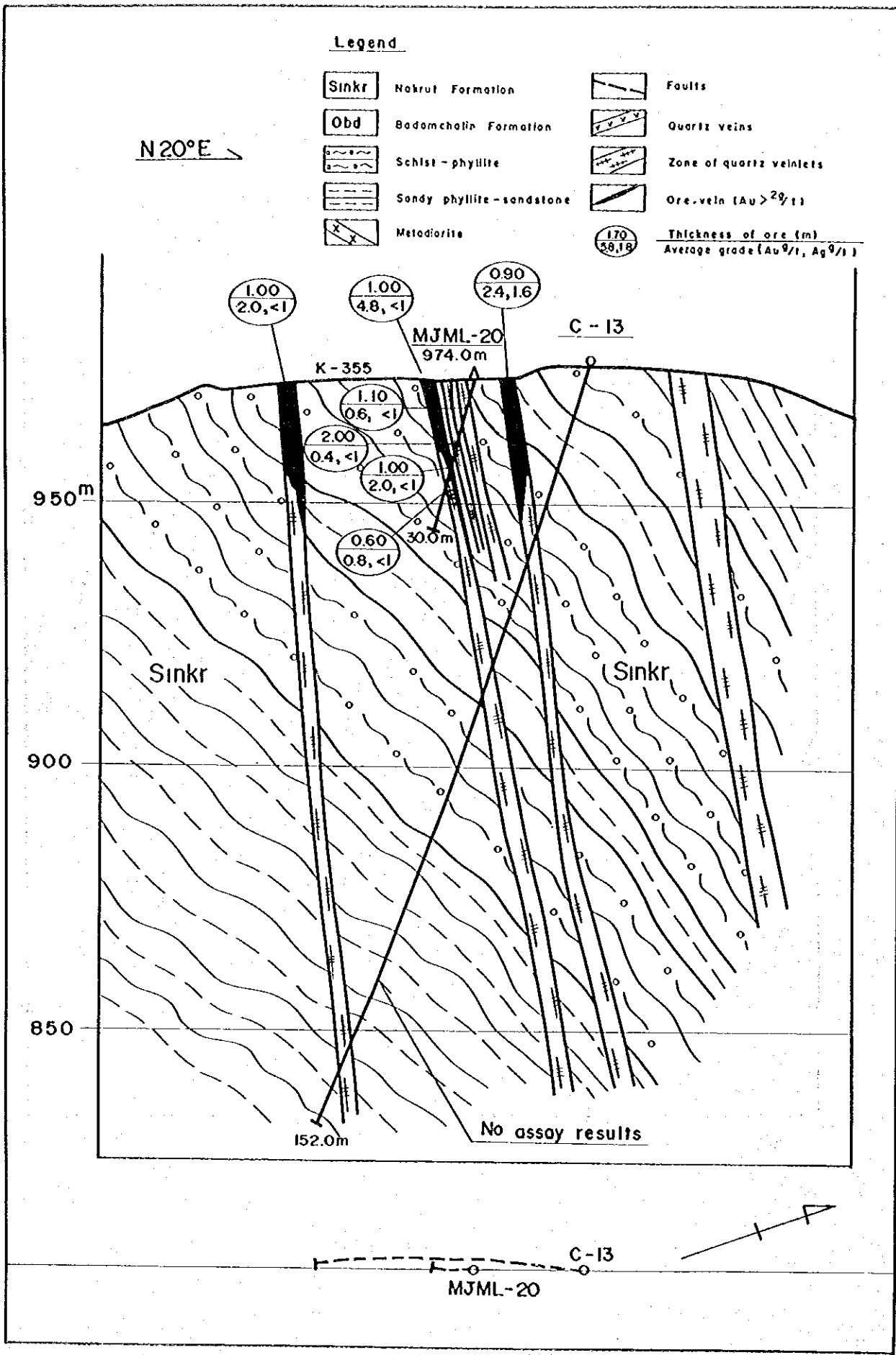


Fig II-2-2-19 Geologic Cross Section along MJML-20

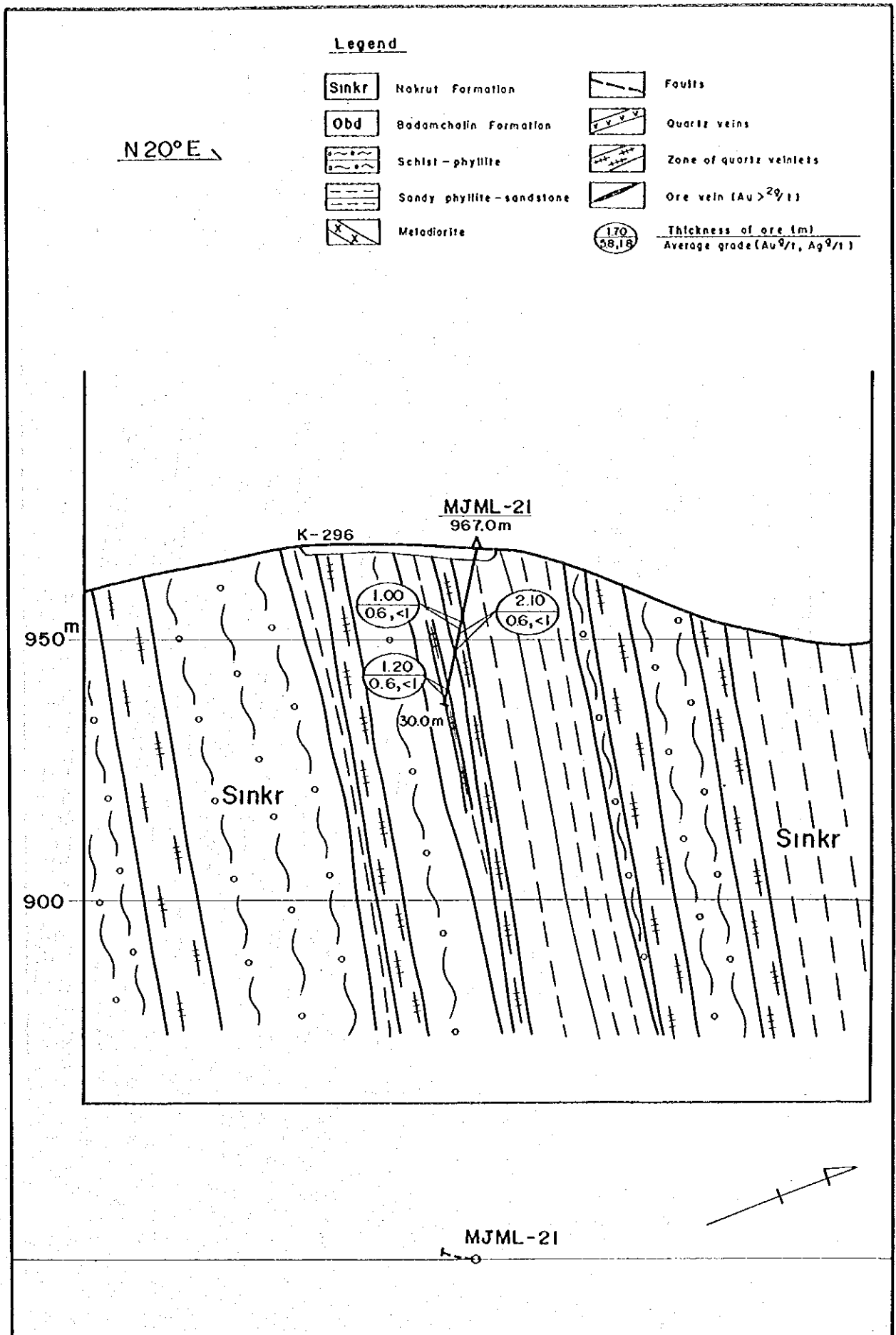


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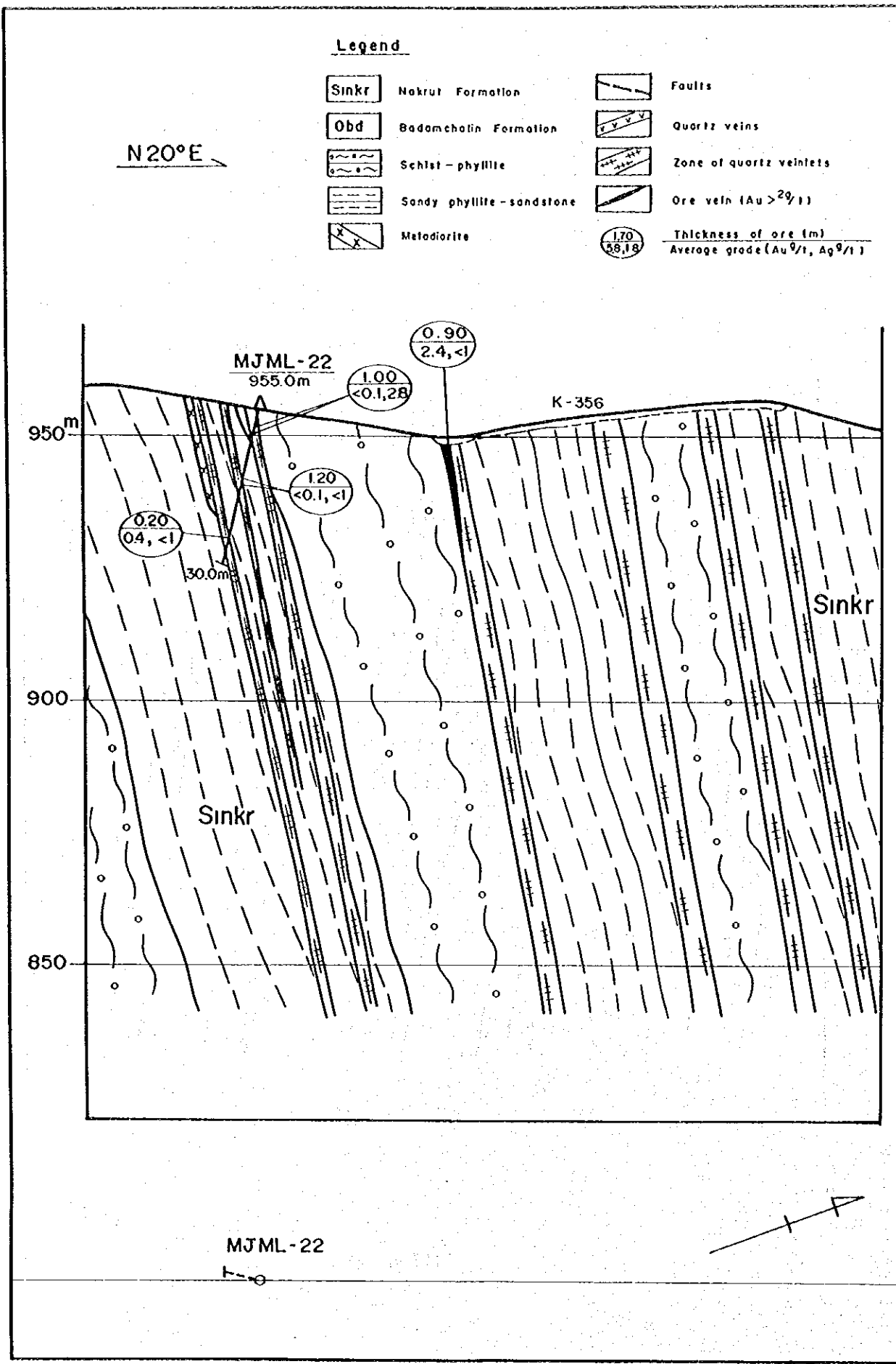
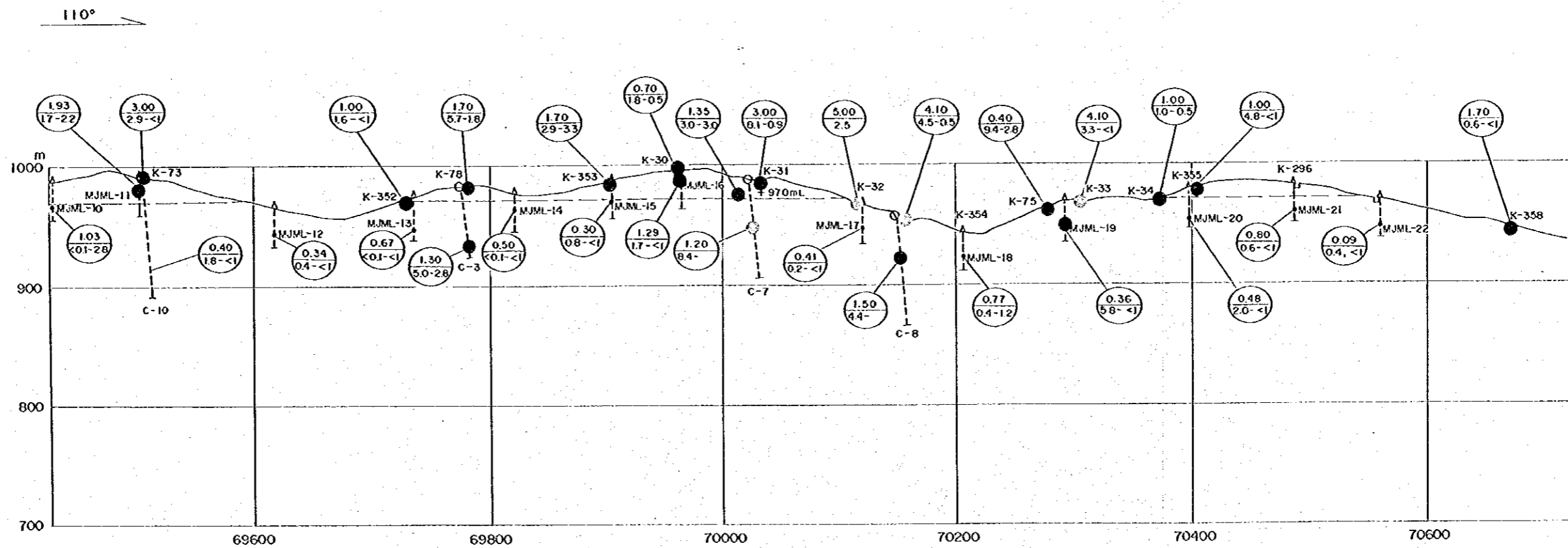


Fig. II-2-2-21 Geologic Cross Section along MJML-22

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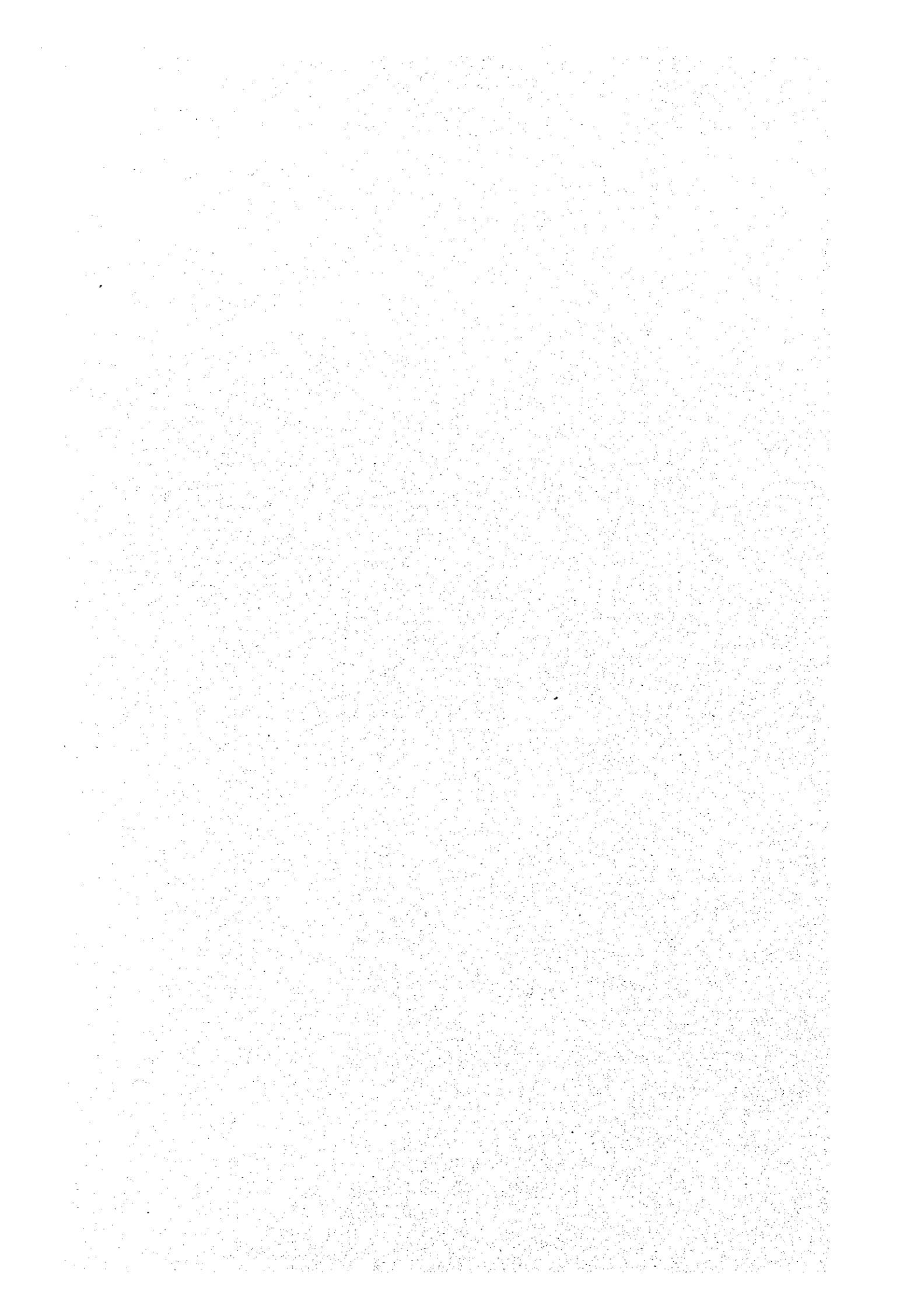


LEGEND

- | | | | | |
|--|-------------------------|-------------------------------------------------------------|--|-------------------------------------------------------|
| | K-30 | No. of trench | | $1 \leq \text{thickness} \times \text{Au(g/l)} < 3$ |
| | MJML-1 | JICA/MMAJ holes (1998, 1999) | | $3 \leq \text{thickness} \times \text{Au(g/l)} < 5$ |
| | C-3 | Uzbek holes | | $5 \leq \text{thickness} \times \text{Au(g/l)} < 10$ |
| | $\frac{0.60}{12.8-1.8}$ | $\frac{\text{Horizontal width(m)}}{\text{Au(g/l)-Ag(g/l)}}$ | | $10 \leq \text{thickness} \times \text{Au(g/l)} < 20$ |
| | | | | $20 \leq \text{thickness} \times \text{Au(g/l)}$ |



Fig. II-2-2-22 Perspective Section for Maulyan No.1 Ore Body (No.1 Ore Zone)



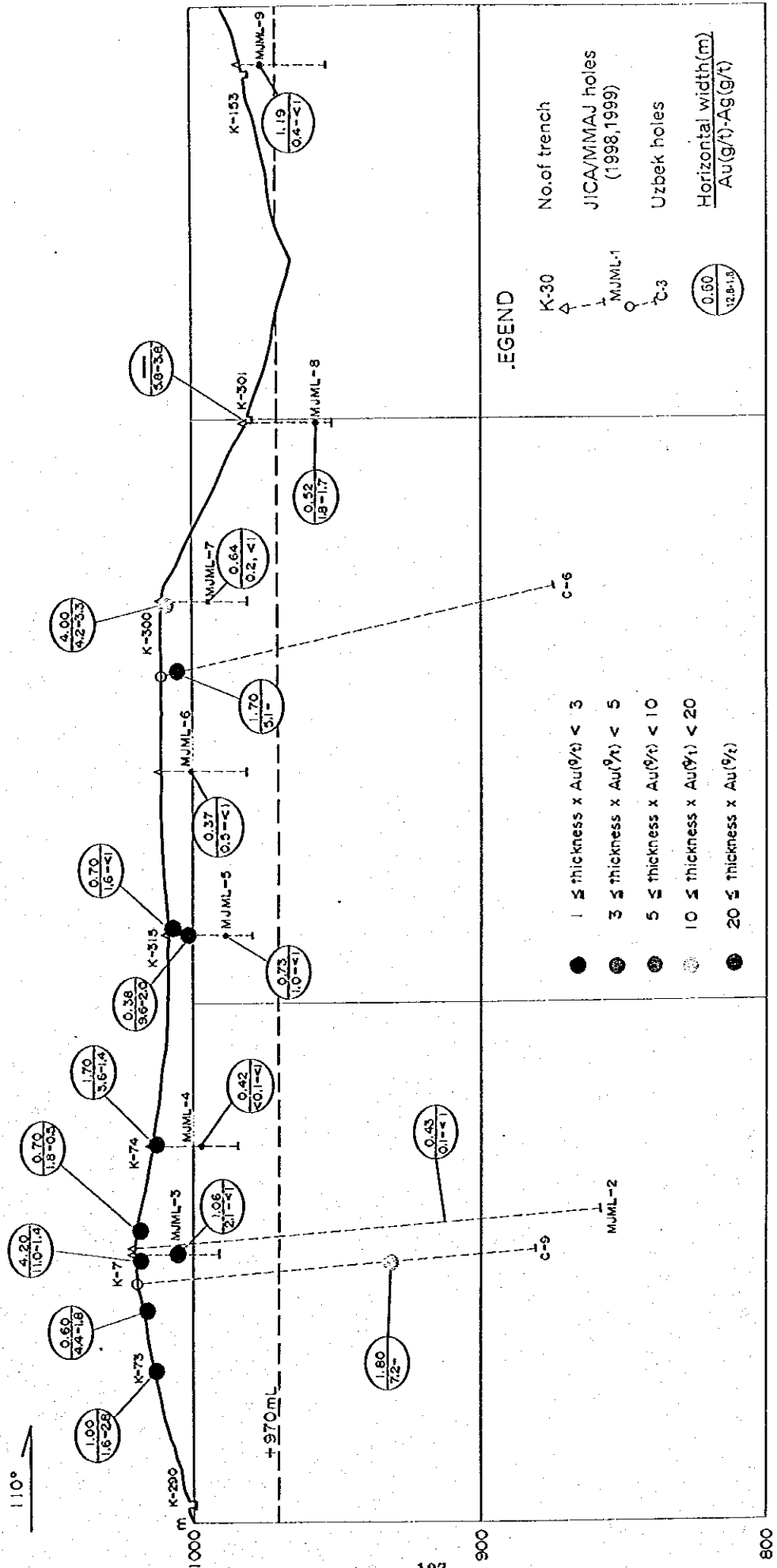


Fig. II -2-2-23 Perspective Section for Maulyan No.2 Ore Body (No.2 Ore Zone)



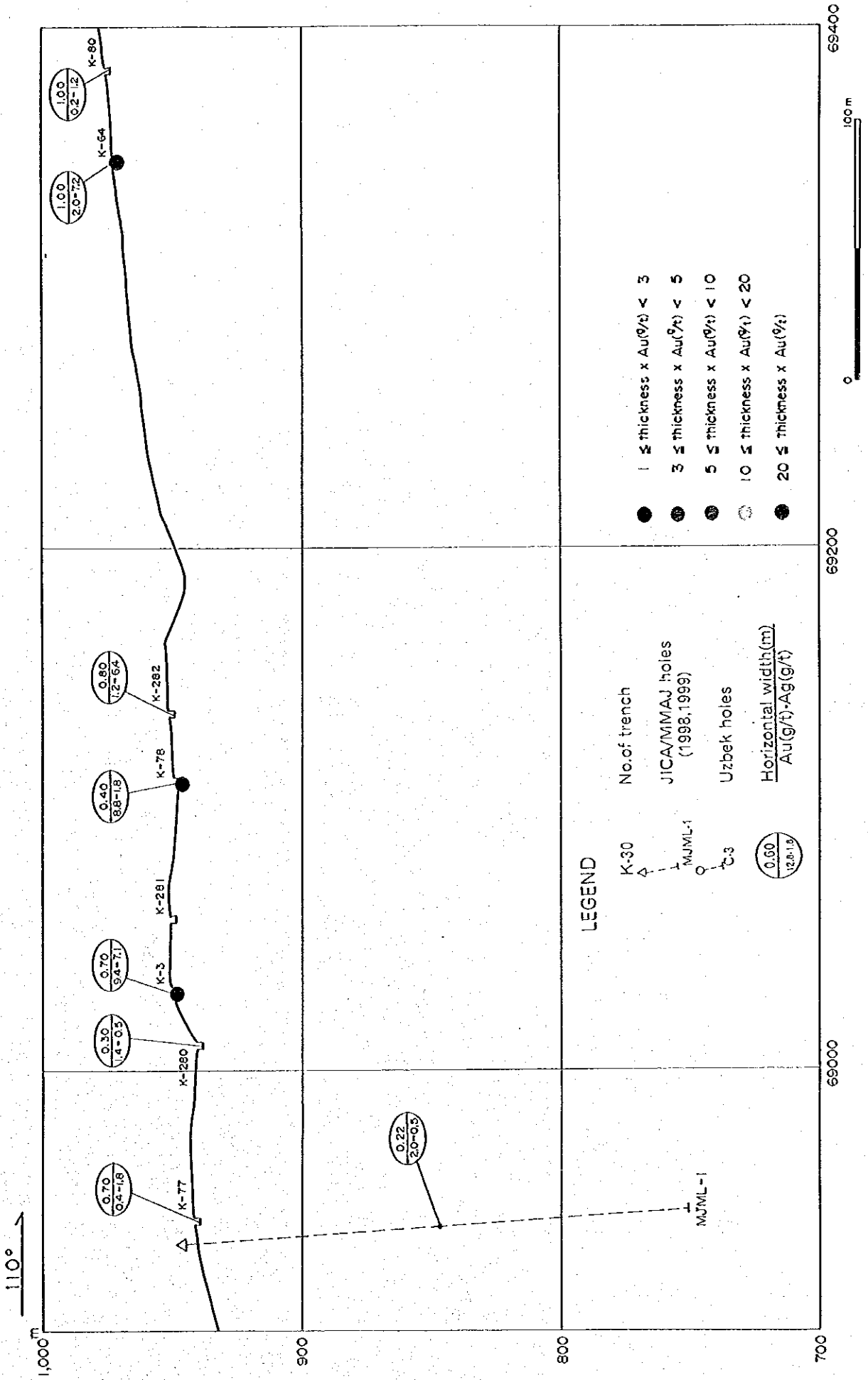
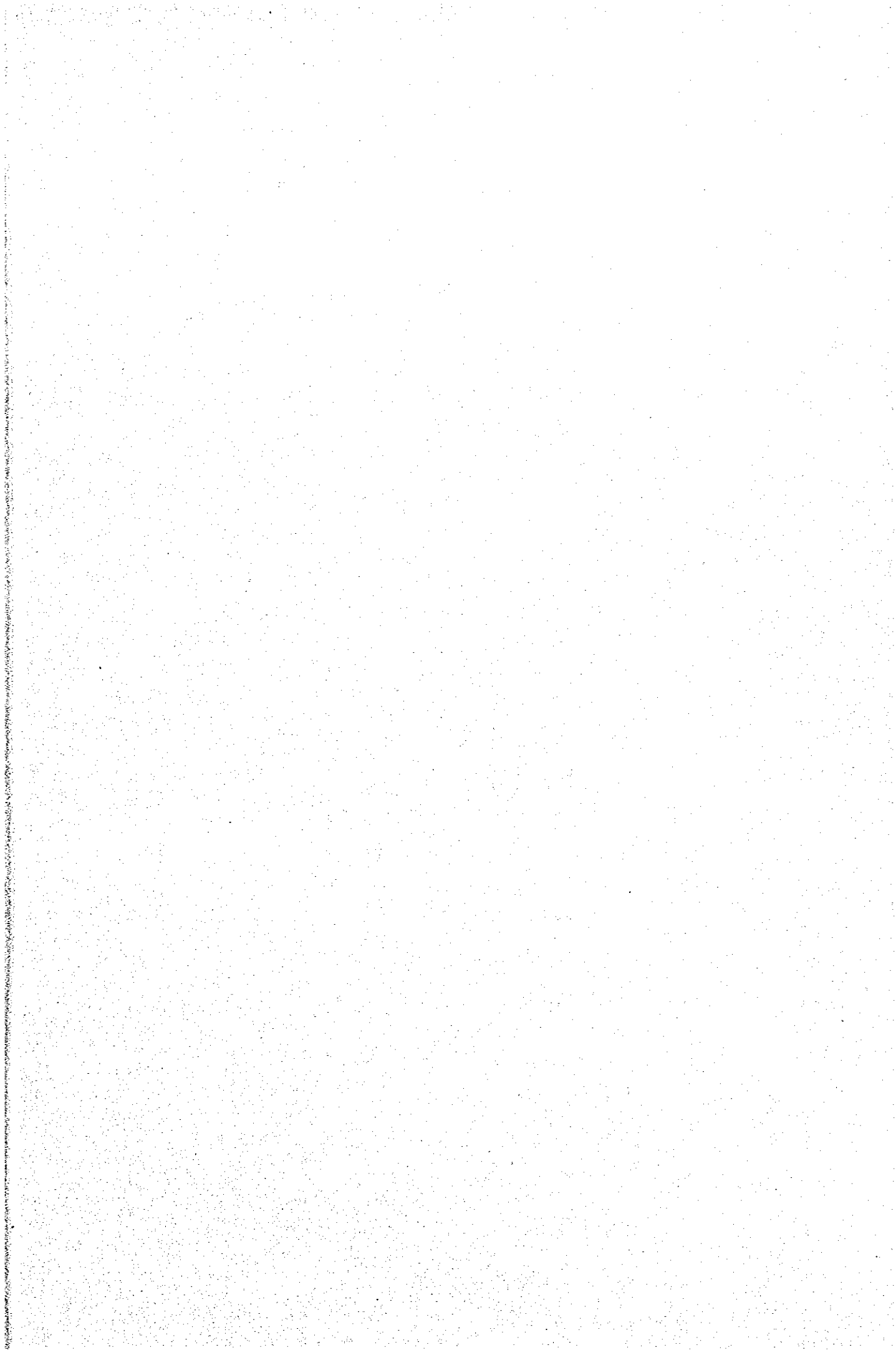


Fig. II -2-2-24 Perspective Section for Maulyan No.3 Ore Body (No.1 Ore Zone)





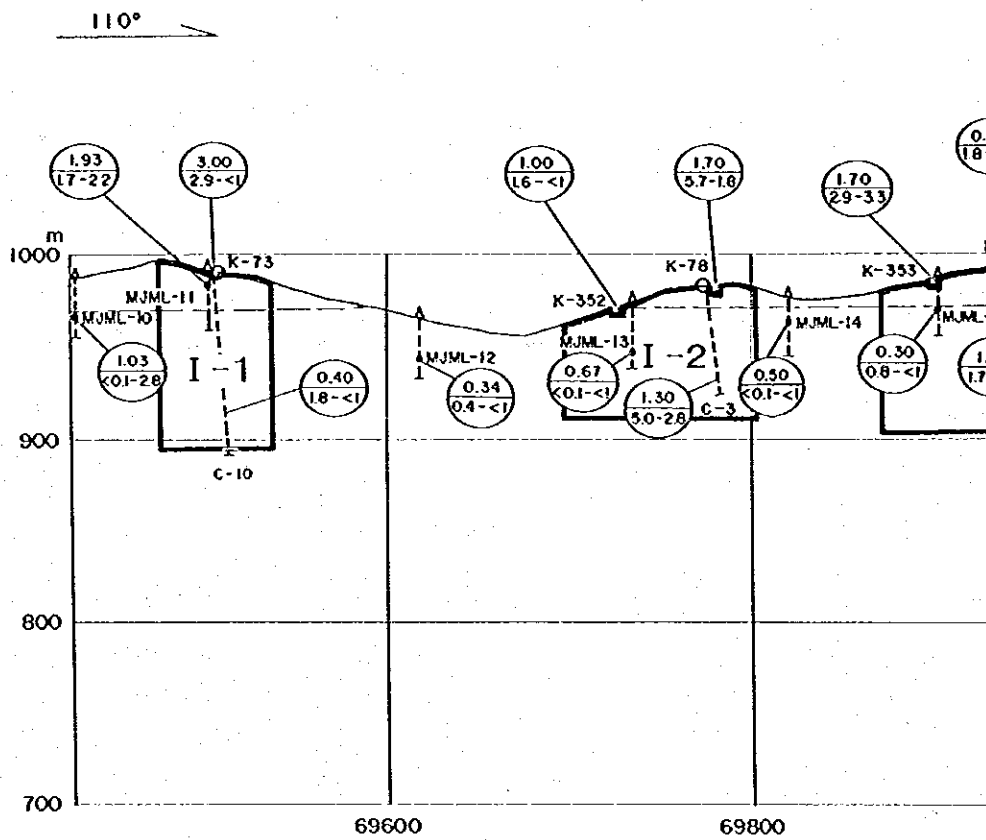
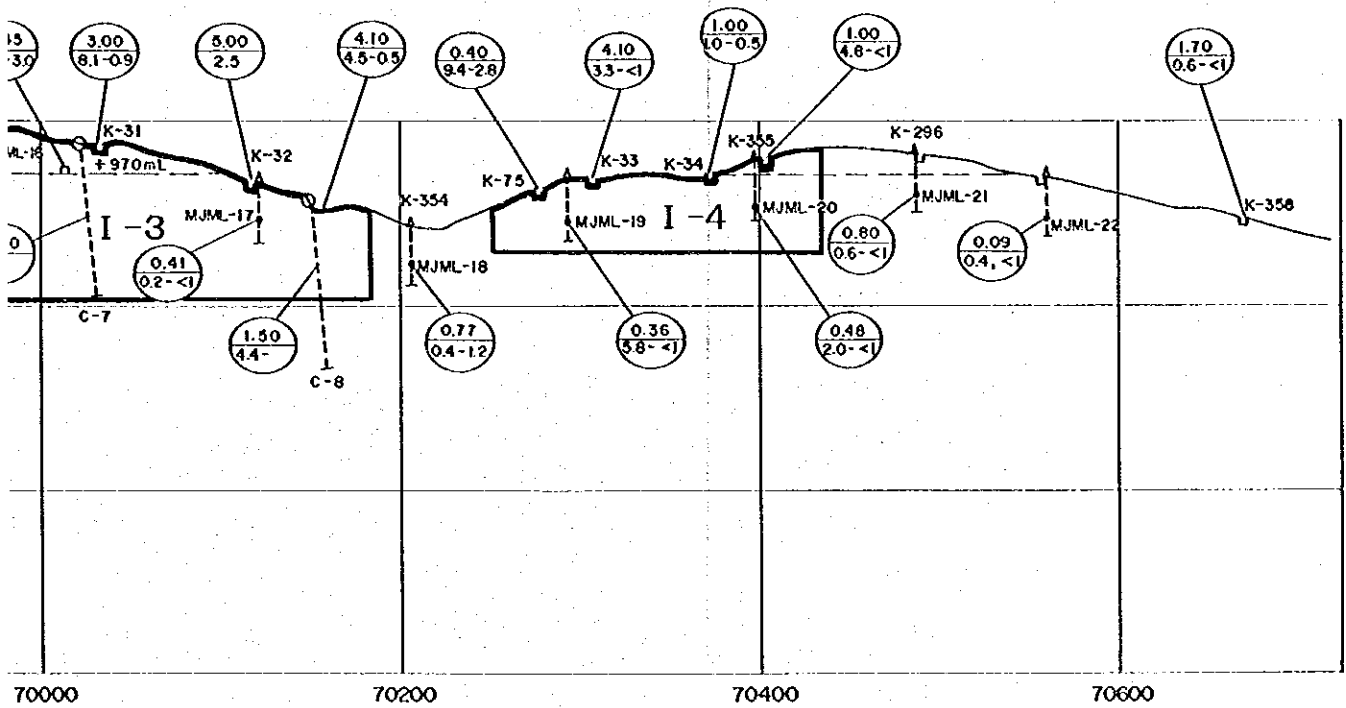


Fig.II-2-3-1 Perspective Section for Or



lock

erves Calculation of Maulyan No.1 Ore Body (No.1 Ore Zone)

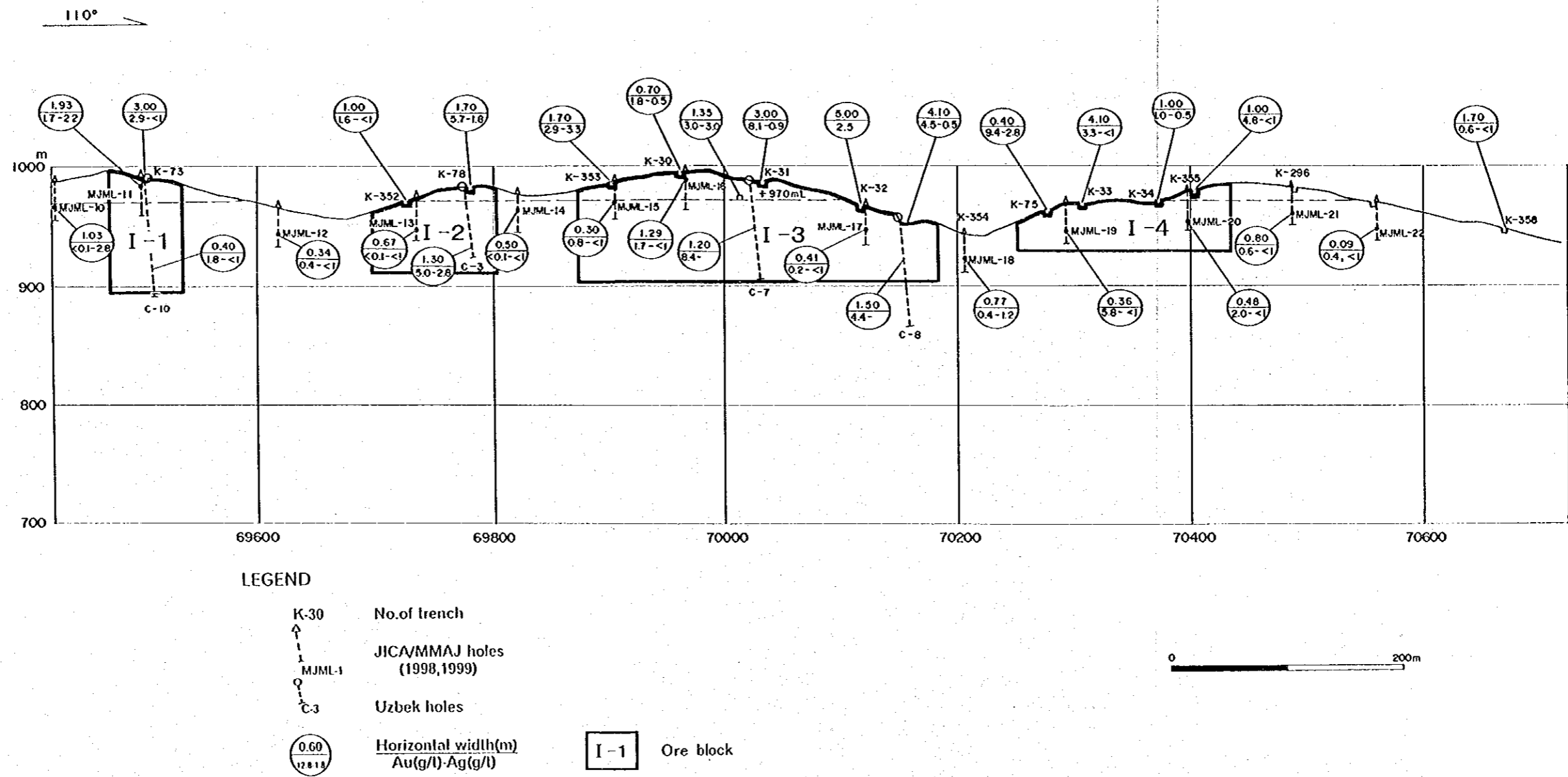


Fig.II-2-3-1 Perspective Section for Ore Reserves Calculation of Maulyan No.1 Ore Body (No.1 Ore Zone)

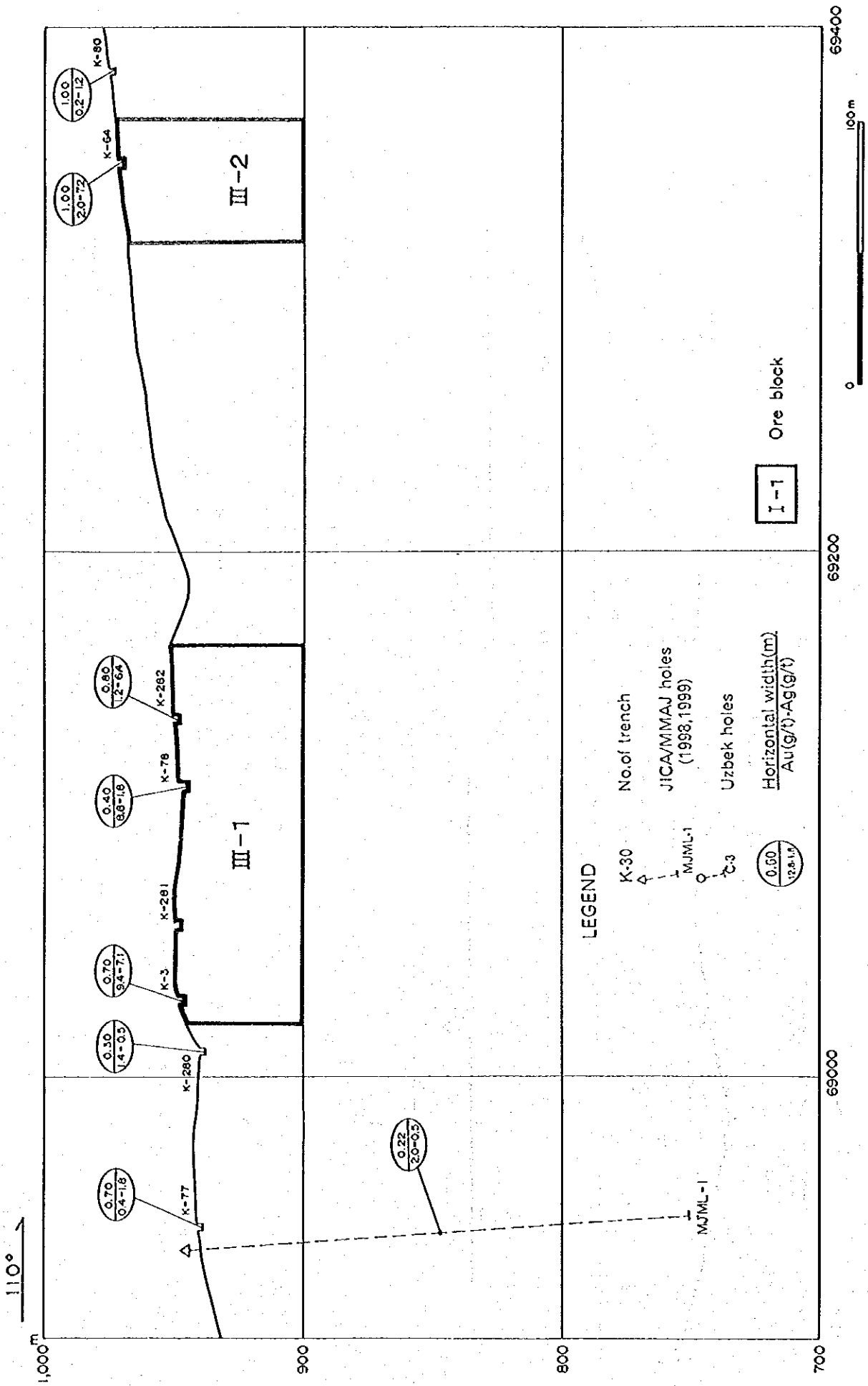


Fig.II-2-3-3 Perspective Section for Ore Reserves Calculation of Maulyan No.3 Ore Body (No.1 Ore Zone)

PART III CONCLUSIONS AND RECOMMENDATIONS

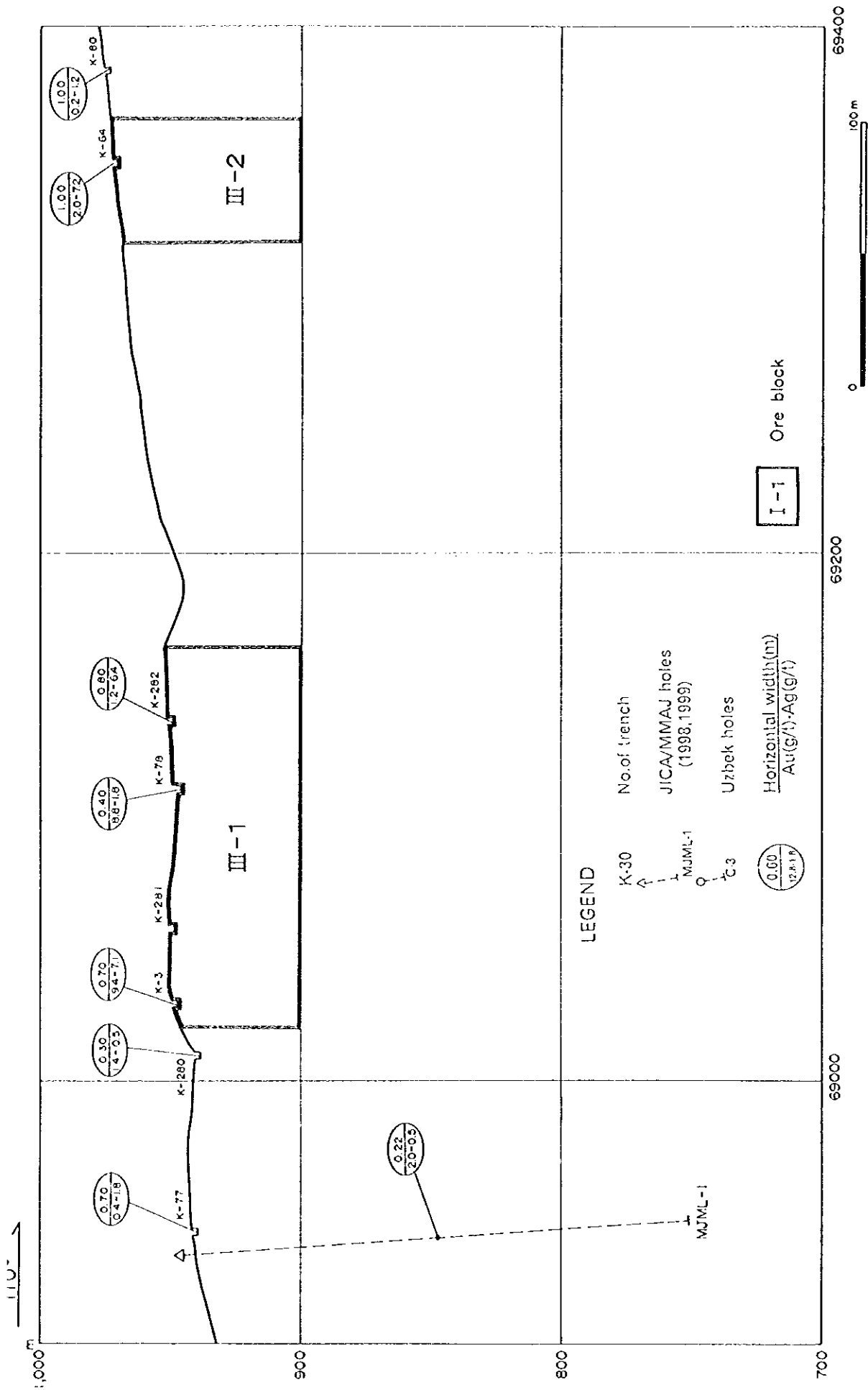


Fig.II-2-3-3 Perspective Section for Ore Reserves Calculation of Maulyan No.3 Ore Body (No.1 Ore Zone)

PART III CONCLUSIONS AND RECOMMENDATIONS



Chapter 1 Conclusions

1-1 Altynsai Ore Deposit

(1) Geology and ore deposit

- The Altynsai deposit is underlain by sediments of Ordovician-Silurian System and late Permian to early Triassic lamprophyre, and represents a fold structure along the axis in the WNW-ESE direction. The sedimentary rocks are metamorphosed into phyllites and schists through low temperature, medium pressure-type metamorphism, and consist of biotite, muscovite, chlorite, staurolite, etc.
- The deposit is vein-type deposit consisting of quartz veins accompanied with fracture zones of the WNW-ESE trend and those of NW-SE trend intersecting the former, and tourmaline-quartz veins accompanied with joints of the N-S trend.

(2) Ore zone

- The deposit is located in the Karatau ore zone, 70 km E-W and 2 km to 4 km N-S, where gold manifestations occur in fractures and silicification zones in the WNW-ESE direction. The Karatau ore zone embraces ore deposits and manifestations of gold-silver bearing quartz vein type, such as the Sarmich deposit, Biran deposit (these are out of the survey area), Kurai manifestations and Altynsai deposit.
- Ore bodies of quartz veins such as the Nos. 1, 2, 5, 8 ("Northwest Vein"), 9 ("Kazanbulak Vein") and 10 ("Berkut Vein") have been confirmed in hornfelsed sedimentary rocks within an area of 2.5 km in length and 500 m to 800 m in width. Tourmaline-quartz veinlet zones with the N-S trend are also developed in the areas where the ore zones occur.
- Bonanzas are located at the intersections of the WNW-ESE veins with the NW-SE fractures and tourmaline-quartz veinlets are concentrated.

(3) Size and continuity of ore deposit

- The Phase I, II and Uzbek drilling surveys, aimed at the lower extension of the bonanzas confirmed in Adit No. 4 at veins Nos. 1 and 2, discovered that the mineralization degenerates below the depth of 100 m (600 m above sea level) under the adit. This is presumably attributable to denudation of the main portions of the ore body by erosion.
- The drillhole MJSN-16, aimed at the lower extension of the Northwest Vein (No. 8 vein) as confirmed by the Uzbek trenches, discovered the dominant mineralization (true width 0.98 m; Au 44.8 g/t) 60 m under the surface. But the drillhole MJSN-15, aimed at the lower extension (50 m) of it, only confirmed low-grade gold mineralization (true width 1.06 m; Au 1.8 g/t). From these findings, it was confirmed that gold grade considerably varies though mineralization is continuous. The lower portion of No.8 vein remains

unexplored, however, big increase of ore reserves can not be expected by further drilling because the mineralization is small in size.

- The Phase I, II and Uzbek drilling surveys, aimed to examine mineralization of tourmaline-quartz veinlet zones with the N-S trend and also examine the feasibility of open pit mining, discovered low-grade gold mineralization (Au trace to 23.6 g/t) at various locations; however, the overall average of Au grade did not exceed 0.2 g/t which is insufficient for justifying open pit mining.

(4) Mineralization

- Component minerals of the quartz veins that occur in fractures zones with the WNW-ESE and NW-SE trends are pyrite, marcasite, arsenopyrite, chalcopyrite, sphalerite, goethite, lepidocrocite, galena, native bismuth, aikinite, wittichenite, scheelite, etc., while gold occurs as electrum. The tourmaline-quartz veins with the N-S trend are accompanied with pyrite, arsenopyrite, goethite, lepidocrocite, etc.
- Homogenization temperatures of fluid inclusions of quartz veins with the WNW-ESE and NW-SE trends and the tourmaline-quartz veinlets with the N-S trend generally range between 270°C and 370°C. There was no significant difference observable between them. The quartz veins and tourmaline-quartz veinlets are inferred to have been formed during the similar period of mineralization and under similar temperature ambience. No significant correlation was observed between homogenization temperature and gold grade, nor between homogenization temperature and depth at which drilling samples were taken.
- The occurrence of ore and hornfels zones and the anomalous zones of the Uzbek airborne magnetic survey mostly correspond to each other, which suggests the possible existence of concealed granites at shallow levels. The ore zones are inferred to have been formed by the mineralization originating in the intrusion of granites.
- The mineralization of the subject ore deposit represents continuity but has variable grade.

(5) Ore reserves

- At the cutoff grade of 2.0 g/t (Au), the total ore reserves of No.1, No.2 and No.8 veins combined are 423,000 t, grading 9.6 g/t Au, or approximately 4.0 t of Au in terms of metal content. While those of No.1, No.2 and No.8 veins are 109,000 t, grading 10.3 g/t Au (1.1 t of Au content), 239,000 t, grading 6.9 g/t Au (1.7 t of Au content) and 75,000 t, grading 17.0 g/t Au (1.3 t of Au content), respectively.

1-2 Maulyan Manifestation

(1) Geology

- The Maulyan manifestation is underlain by sediments of Ordovician-Silurian System and

a dike of metadiorite that intruded in the eastern part of the subject manifestation. The sedimentary rocks are metamorphosed into phyllites and schists through low temperature, medium pressure-type metamorphism, and consist of biotite, muscovite, chlorite, staurolite, etc.

- These strata are folded along an axis in the WNW-ESE direction and cut by faults in the same directions.

(2) Ore Zone

- The manifestation is located in the Aktau ore zone, 70 km E-W and 2 km to 5 km N-S, where gold manifestations occur in fractures and silicification zones in the WNW-ESE direction. Gold manifestations have been confirmed at Beshbulak, Taulyan and Shur.

(3) Size and continuity of ore manifestation

- The extent of the Maulyan manifestation on the surface is 1 m to 4 m wide and 1,000 m long (No.1 ore body), 400 m long (No.2 ore body) and 200 m long (No.3 ore body). The gold grade varies from 1 g/t to 33.4 g/t.
- Two drillholes of the Phase II drilling survey and six Uzbek drillholes independently confirmed the continuity of the No.1, No.2 and No.3 ore bodies between 16 m and 135 m under the surface. They, however, only confirmed low-grade gold mineralization (true width 0.2-1.8 m; Au 1.6-8 g/t). From these findings, the near-surface mineralization is inferred to be dominant.
- Twenty drillholes of the Phase III drilling survey were aimed to examine mineralization of shallow portion of the No.1, No.2 and No.3 ore bodies, between 10 m and 15 m under the surface, and also examine the feasibility of open pit mining. Among the thirteen drillholes aimed to examine mineralization of lower portion of the No.1 ore body, four drillholes discovered low-grade gold mineralization (true width 0.4-1.9 m; Au 1.7-5.8 g/t). Among the seven drillholes aimed to examine mineralization of the No.2 ore body, three drillholes confirmed weak gold mineralization (true width 0.4-1.1 m; Au 1.8-9.6 g/t). However, analyses of ore samples collected from another thirteen drillholes did not indicate Au grade higher than 1.0 g/t.

(4) Mineralization

- Samples collected from gold-bearing quartz veins at the Maulyan manifestation are accompanied by ore minerals such as pyrite, goethite, lepidocrocite, arsenopyrite, chalcopyrite and sphalerite, while gold occurs as electrum.
- Homogenization temperatures of fluid inclusions at the ore zone mostly fall within the range of 250°C-350°C. The homogenization temperatures of quartz samples grading Au 1.2-2.0 g/t were 221°C-281°C, higher than the general temperature range of gold occurrence, 100 °C -250 °C. No significant correlation was observed between

homogenization temperature and depth at which drilling samples were taken.

- In light of the occurrence of the Aktau granites, characteristics of the surrounding manifestations, drilling results and homogenization temperatures, gold-bearing quartz veins at the subject manifestation are inferred to have been formed under high temperature ambience, which is considered to lack the conditions required for a high-grade, large-scale gold concentration zone.

(5) Ore reserves

- At the cutoff grade of 1.0 g/t (Au), the tentative estimation of the total ore reserves of No.1, No.2 and No.3 ore bodies indicated 252,000t, grading 4.2 g/t Au, or approximately 1.1 t of Au in terms of metal content. While those of No.1, No.2 and No.3 ore bodies are 149,000 t, grading 3.8 g/t Au (0.6 t of Au content), 87,000 t, grading 5.0 g/t Au (0.4 t of Au content) and 16,000 t, grading 4.2 g/t Au (0.07 t of Au content), respectively.

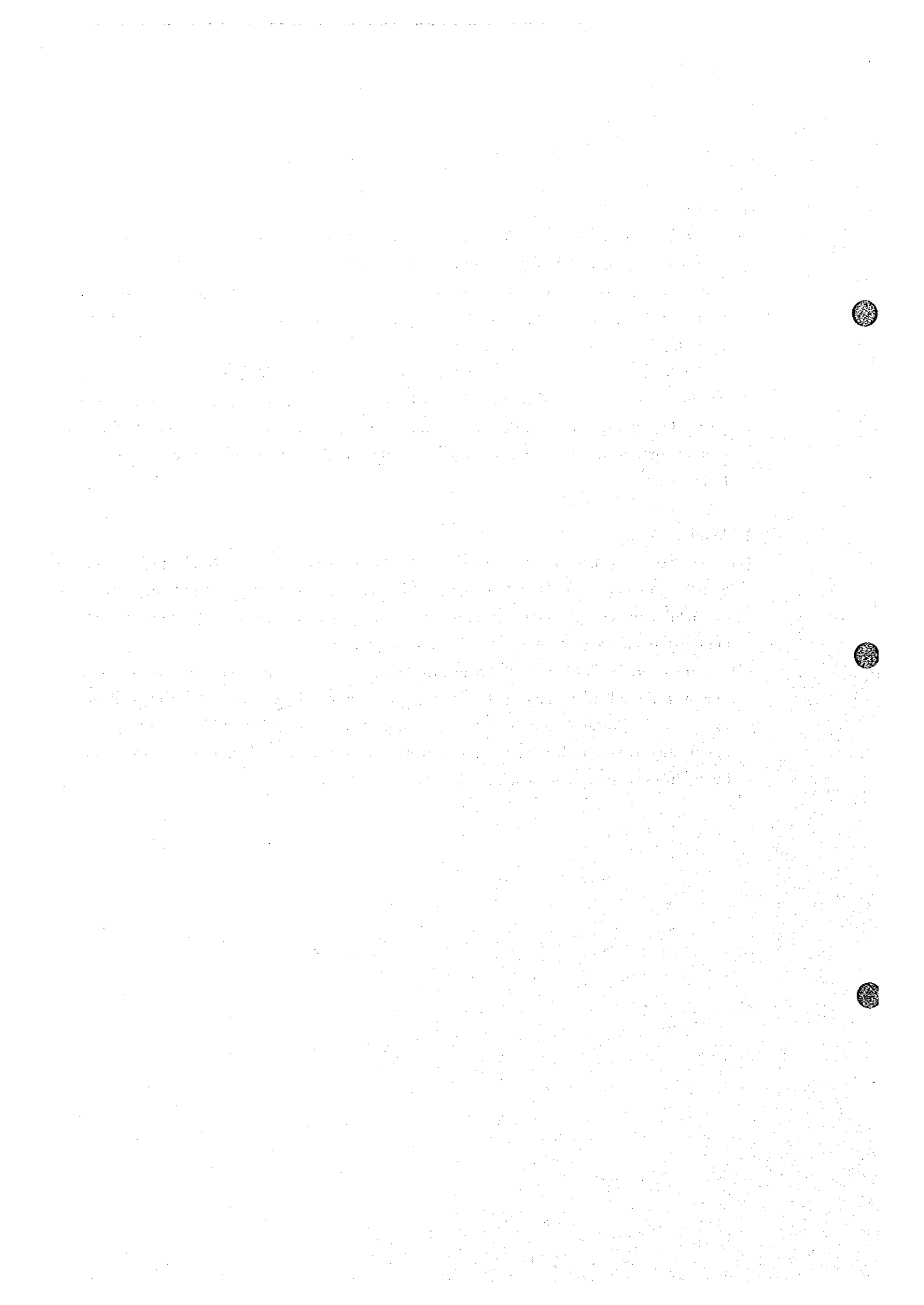
Chapter 2 Recommendations

1) Altynsai Deposit

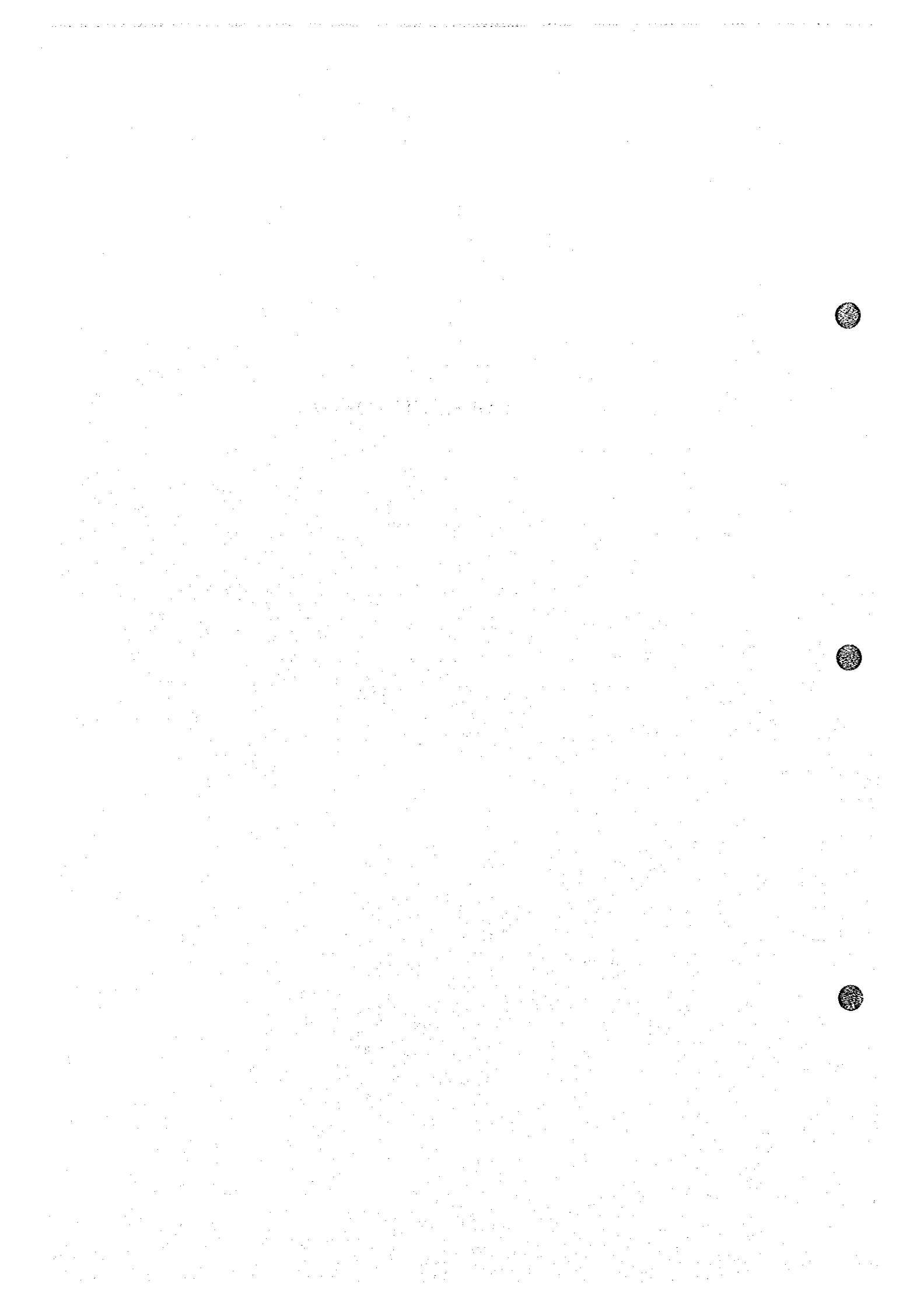
- (1) Ore reserves estimates of No.1, No.2 and No.8 veins added up to 423,000 t, grading 9.6 g/t Au, or approximately 4.0 t of Au in terms of metal content. The lower portion of No.8 vein remains unexplored, except the shallow portions surveyed by the Phase III and Uzbek drilling surveys. In order to verify the deep mineralization, it is advisable to continue the drilling survey by the Uzbek side.
- (2) All the ore bodies of No.1, No.2 and No.8 veins are small in size, however, have dominant mineralization (Au grade higher than 10 g/t) in the upper portions. There is the possibility that the Altynsai deposit could be developed as a small-scale mine by tunnel mining, though it depends on the results of future drilling and tunneling surveys by the Uzbek side.

2) Maulyan Manifestation

- (1) Tentative calculation indicated that the total ore reserves of No.1, No.2 and No.3 ore bodies combined are 252,000 t, grading 4.2 g/t Au, or approximately 1.1 t of Au in terms of metal content. A certain increase in ore reserves by further exploration may be anticipated but a significant improvement in Au grade is unlikely.
- (2) All the ore bodies in the subject manifestation are small in size and have variable and low overall grade (Au grade less than 5 g/t). At present, there is little possibility that the Maulyan manifestation could be developed as a large-scale deposit. For developing the manifestation as a small-scale mine, discovery of considerably high grade ore is necessary by the future drilling and tunneling surveys by the Uzbek side.



COLLECTED DATA

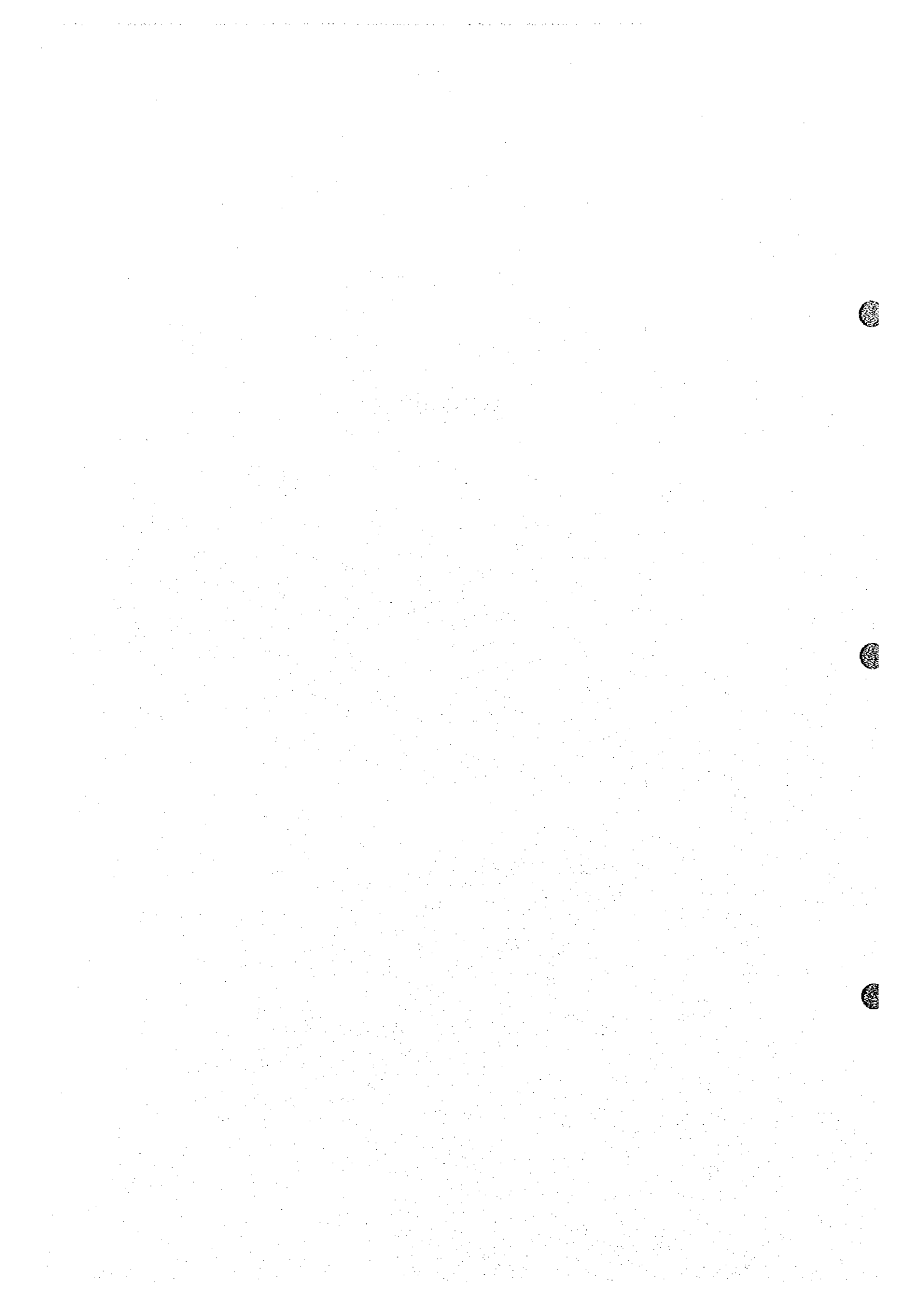


Collected Data

1. Akobleva, N. A. (1953): Altyn-kazgan geological expedition works in 1952, Samarkandgeology, 182p.
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16. Trojanov, M. (1956): An overall calculation of tungsten-molybdenum reserves in the Lyangar deposit, Samarkandgeology, 411p.

APPENDICES



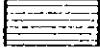

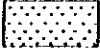
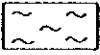
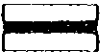
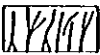
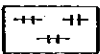



Appendix 1. Geologic Core Logs of the Drillings



Appendix 1. Geologic Core Logs of the Drillings

Legend

- | | | | |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | Soil |  | Dip (bedding plane) |
|  | Slate |  | Dip (joint plane, fault plane, contact plane of silicified rock) |
|  | Sandstone | | |
|  | Phyllite | | |
|  | Quartz vein | | |
|  | Quartz veinlets | | |
|  | Silicification | | |
|  | Fracture zone | | |

Au	Ag	As
2.0	7.8	0.38

Assay Result
Au(g/l), Ag(g/l), As(%)

LAB TEST BA 11 - 1 ----- Laboratory Test Sample No.
F · T · P · X Samples

F ----- Fluid inclusion test sample, T ----- Thin section sample
P ----- Polished section sample, X ----- X-Ray diffraction analysis sample

Abbreviation

qz, v	quartz vein	asp	arsenopyrite
qz vls	quartz veinlets	chl	chlorite
sl	slate	cp	chalcopyrite
ss	sandstone.	limo	limonite
bek	black	lor	tourmaline
dk	dark	py	pyrite
diss	disseminate		
frac	fracture	int	interval
silic	silicified	w	width



GEOLOGIC CORE LOG OF MJSN-15 (1/3)

1/200

MJSN-15 (1/3) 0 m ~ 50 m

Level 833.50 m
 X 61.380.52 m
 Y 53.931.21 m

Direction N30°W
 Inclination -75°
 Length 110.0 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0.00	0~1.00m soil w/rock frags						
	1.00	0~ brownish grey silic. sl.						
	6.10	6.10m g ₂ , Pg, limo v. (w=2cm, 35°)						
	11.70	11.70~16.90m g ₂ , Pg, limo v & vls (w=0.1~6cm, int=1-3cm, partly network)	11.70					
	13.00		13.00	BA-1501	0.2	<1		
	14.40		14.40	1502	0.9	8.2		
	15.70	15.70m g ₂ , Pg, limo v (w=6cm)	15.70	1503	0.2	<1		
	16.90		16.90	1504	0.4	6.8		
	18.40	18.40m w=0.2cm g ₂ v.						
	24.50	24.50~25.10m frac. zone						
	25.10							
	29.00	29.00~31.10m g ₂ , Pg, limo v & vls (w=0.1~2cm, int=1-3cm)	29.00					
	29.00	29.00m g ₂ , Pg, limo v. (w=1cm, 3°)	30.00	1505	13.6	9.2		
	31.10		31.00	1506	11.2	3.8		
	32.70	32.70~34.90m g ₂ , Pg, limo v. & vls (w=0.1~1cm, int=1-2cm partly network)	32.70					
	33.90		33.90	1507	1.6	4.8		
	34.90		34.90	1508	0.4	<1		
	36.40	36.40~38.80m str. silic sl of g ₂ , Pg, limo v & vls (w=0.1~0.3cm, int=1-3cm)	36.40					
	37.60		37.60	1509	0.5	1.8		
	38.80		38.80	1510	0.8	<1		
	39.80	39.80~40.90m g ₂ , Pg, limo vls	39.80					
	40.90		40.90	1511	0.2	<1		
	43.60	43.60~46.60m g ₂ , Pg, limo vls (w=0.1~0.5cm, int=1-3cm)	43.60					
	44.60		44.60	1512	0.2	<1		
	45.30	45.30~46.15m g ₂ , Pg v.	45.30	1513	1.2	0.4		
	46.15		46.15	1514	0.8	<1	45.30 BA15-1 46.15 BA15-2	
	47.20		47.20	1515	0.4	3.6		
	48.60		48.60	1516	0.4	2.8		

GEOLOGIC CORE LOG OF MJSN-15 (2/3)

1/200

MJSN-15 (2/3) 50 m ~ 100 m

Level 833.50 m Direction N30° W
 X 61.360.53 m Inclination -75°
 Y 53.931.21 m Length 110.0 m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	51.50	51.50~52.70 m. g ₂ , py vls (w=0.1-1.5cm, int=1-3cm)	51.50					
	52.70	52.20m g ₂ v. w=1.5cm	52.70	BA-1519	0.6	<1		
	53.60	53.60~61.70m g ₂ , py, limo vls (w=0.1-1cm, int=2-5cm)	53.60					
	54.60	54.60~61.70m str. silic. limo ss	54.60	1518	<0.1	1.2		
			55.50	1519	0.1	<1		
			56.40	1520	0.1	2.4		
			57.20	1521	0.6	2.2		
			58.80	1522	0.4	2.4		
			60.20	1523	0.2	<1		
	61.70	61.70~79.40m dk grey silic. sl	61.70	1524	0.8	1.8		
	63.40		63.40					
	65.20	63.40~65.30m g ₂ , py, limo vls (w=0.1-0.5cm, int=2-5cm)	65.30	1525	0.1	3.8		
			65.30	1526	0.2	<1		
	67.80	67.80~71.10m g ₂ , py, limo vls (w=0.1-1cm, int=1-3cm)	67.80					
			68.20	1527	0.2	<1		
	71.10		71.10	1528	2.0	1.6		
	74.50	74.50~78.20m str. silic. sl. w/g ₂ vls (w=0.1-0.5cm, int=1-3cm)	74.50					
			75.20	1529	0.4	2.4		
			76.90	1530	0.4	<1		
			78.20	1531	0.4	<1		
	79.40	79.40~81.50m greenish brown andalusite schist					79.45	BA15-3
	81.50	80.50m g ₂ v. w=0.3cm, 60°						
	85.70	85.70~87.00m few g ₂ vls						
	86.50	85.80~86.50m greenish blk andalusite schist	86.20					
	87.85	87.00~87.85m g ₂ , py v.	87.00	1532	0.2	<1		
			87.85	1533	0.7	3.2	87.20	BA15-4
	91.50	90.20~91.50m str. silic sl w/g ₂ , py, asp	90.20					
			91.30	1534	1.8	<1		
	99.40	99.40~100.70m frac. zone w/few g ₂ vls	99.40					
				1535	0.1	3.6		

GEOLOGIC CORE LOG OF MJSN-15 (3/3)

1/200

MJSN-15 (3/3) 100 m ~ 110 m

Level 833.50 m Direction N30° W
 X 61.360.53 m Inclination -75°
 Y 53.931.21 m Length 110.0 m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
100	100.70		100.70	BA-1535				0
2		dk grey silic. sl						2
4								4
6								6
8								8
110		110.0 m Bottom of the hole						0
2								2
4								4
6								6
8								8
0								0
2								2
4								4
6								6
8								8
0								0
2								2
4								4
6								6
8								8
0								0

GEOLOGIC CORE LOG OF MJSN-16 (1/2)

1/200

MJSN-16 (1/2) 0 m ~ 50 m

Level 849.19 m Direction N30°W
 X 61.408.04 m Inclination -75°
 Y 57.907.05 m Length 60.0 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0~2.40m Soil w/ rock frags.						
	2.40	3.40~ grey silic. sl. w/ few g2 vls						
	5.80	4.6m g2, limo. v. (w=0.2cm, 45°)	5.80					
	7.80	5.80~7.80m g2, limo vls (w=0.1-0.3cm int=1-3cm)	6.80	BA-1601	0.4	<1		
			7.80	1602	0.2	<1		
	11.00	11.0-16.30m g2, limo vls (w=0.1-0.3cm int=2-5cm)	11.00					
			12.40	1603	0.4	<1		
			13.50	1604	1.2	<1		
			14.80	1605	0.2	<1		
	16.30		16.30	1606	<0.1	<1		
	18.10	18.10~19.50m g2, limo vls	18.10					
	19.50		19.50	1607	0.4	<1		
	20.20	20.20~21.60m few g2, limo vls	20.20					
	21.60		21.60	1608	0.4	<1		
	24.30	24.30~28.30m g2, limo vls (w=0.1~0.2cm, int=2-5cm)	24.30					
			25.60	1609	0.2	1.6		
			27.00	1610	0.6	<1		
	28.30		28.30	1611	0.4	<1		
	31.30	31.30~33.40m g2, py vls (w=0.1~0.5cm)	31.30					
			32.40	1612	0.4	<1		
	33.40		33.40	1613	0.4	<1		
	35.00	35.0~35.30m frac. zone						
	35.30							
	39.95	39.95~47.00m grey silic. sl w/ g2, py vls (w=0.1~0.5cm)	39.95					
			41.20	1614	0.8	<1		
			42.40	1615	0.8	<1		
			43.90	1616	0.8	<1		
			45.20	1617	2.8	<1		
	47.00	47.00~49.80m g2, py, limo vls (w=0.1~3cm, partly network)	47.00	1618	1.6	<1		
			48.20	1619	2.8	<1		
	49.80	49.80~51.00m g2, py, limo v.	49.80	1620	0.8	<1		

43.90
 Au=8.48/b

BA16-1

GEOLOGIC CORE LOG OF MJSN-16 (2/2)

1/200

MJSN--16 (2/2) 50 m ~ 60 m

Level 949 .19 m
 X 61.408.04 m
 Y 53.907.05 m

Direction N20° W
 Inclination -75°
 Length 60.0 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
50	51.00	51.00 ~ 51.80 m g2 vls (w = 0.1-0.3 cm, int = 1-3 cm, partly network)	51.00	BA-162	44.8	6.8		BA16-2 BA16-3
2	51.80		51.80	1622	1.8	<1		
4								
6								
8								
0	58.20	56.50 m g2 v. w = 3 cm, 30° 58.20 ~ 59.30 m few g2, p2, limo vls	58.20					
2	59.30		59.30	1623	0.8	1.6		
4	60.00	60.00 m Bottom of the hole						
6								
8								
0								
2								
4								
6								
8								
0								
2								
4								
6								
8								
0								

GEOLOGIC CORE LOG OF MJML-3 (1/1)

1/200

MJML-3 (1/1) 0 m ~ 30 m

Level 1,005.0 m Direction S20°W
 X 69.899.0 m Inclination -75°
 Y 39.439.0 m Length 30.0 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0~2.00m soil w/ rock frag.						
	2.00	2.00~2.60m, weathered silic. sdy phy						
	2.60	2.60~9.80m grey silic. sdy phy.						
	5.90	5.90~6.70m silic. sdy phy w/abu. g2 v (max 15%)	5.90					
	6.70	6.70~7.70m network g2 vls (w=0.2cm)	6.70	BM-301	0.6	<1		
	7.70	7.70~8.10m g2, py limo v.	7.70	302	1.3	<1		
	8.10	8.10~9.80m frac zone w/abu g2 v.	8.10	303	5.6	<1		
	9.80	9.80~11.00m g2, py, limo v.	9.80	304	2.4	<1		
	11.00	11.00~13.90m grey silic. phy	11.00	305	1.2	<1		
	11.80	11.00~11.80m frac. zone	11.80	306	0.8	<1		
	13.40	11.00~11.80m g2 vls (max. 5cm?)	13.40	307	0.2	<1		
	13.90	11.80~13.40m few g2 vls	13.90	308	<0.1	<1	11.70	BM3-1
	14.40	14.40~15.90m frac. zone	14.40					
	15.90	14.90~15.90m g2 v. & vls	15.90	310	<0.1	<1		
	17.90	17.90~18.70m few g2 vls	17.90					
	18.70		18.70	311	<0.1	1.6		
	23.30	23.30~23.70m. frac. zone w/g2	23.30					
	23.70	23.70~30.00m grey silic sdy phy	23.70	312	<0.1	0.0		
	30.00	30.00m Bottom of the hole						

GEOLOGIC CORE LOG OF MJML-4 (1/1)

1/200

MJML-4 (1/1) 0 m ~ 30 m

Level 1,011.0 m Direction S20° W
 X 69.913.0 m Inclination -75°
 Y 59.452.0 m Length 30.0 m

LITHO-LOGGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0~3.20 m soil w/rock frags						
	3.20	3.20~6.20 m dk grey phy w/network gz & dissem. py	3.20					
	4.20		4.20	BM-401	<0.1	7.2		
	5.00		5.00	402	<0.1	2.0		
	6.20	6.20~20.00 m sdy phy silic.	6.20	403	<0.1	<1		
	6.60	6.20~6.60 m silic rock w/gz vls (w=0.1-0.2 cm int=1-2 cm)	6.60	404	<0.1	<1		
	7.10	6.60~8.90 m frac. zone w/gz v & vls (w=0.1-1.0 cm)	7.10	405	<0.1	<1		
	8.90	8.90~11.00 m network gz vls & dissem. py	8.90	406	0.2	<1		
	10.00		10.00	407	0.3	<1		
	11.00	11.00~15.00 m few gz vls	11.00	408	<0.1	<1		
	15.00	15.00~17.00 m frac. zone w/few gz vls	15.00	409	<0.1	<1		
	17.00	17.00~19.00 m network gz, py vls	17.00	410	<0.1	<1		
	19.00	19.00~20.00 m few gz, py vls	19.00	411	<0.1	<1		
	20.00		20.00	412	<0.1	<1		
	23.00	20.00~30.00 m dk grey phy	20.00	413	<0.1	<1		
	27.00	23.00~28.00 m few gz, py vls.	23.00	414	<0.1	<1		
	28.00		24.00	415	<0.1	<1		
	30.00	30.00 m Bottom of the hole	25.00	416	<0.1	<1		
			26.00	417	<0.1	<1		
			27.00	418	<0.1	<1		
			28.00	419	0.2	<1		

GEOLOGIC CORE LOG OF MJML-5 (1/1)

1/200

MJML-5 (1/1) 0 m ~ 30 m

Level 1,004.0 m Direction 520° W
 X 70.018.0 m Inclination -25°
 Y 59.398.0 m Length 30.0 m

LITHO- LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
		0~3.00m soil of rock frags						
	3.00	3.00~30.00m dk grey phy						
~ ~ ~	4.70	4.70~6.10m gz v. & vls (w=0.2-5cm, int=2~5cm)	4.70					
~ ~ ~	6.10		5.60 501 9.6 2.0	6.10 502 <0.1 <1				
~ ~ ~		8.20m gz v. (w=1.5cm)						
~ ~ ~	15.20	15.20~15.90m frac. zone w/ gz v. (Max. 5cm)	15.20					
~ ~ ~	15.90		15.90 503 1.5 <1					
~ ~ ~	16.90	15.90~16.90m gz, py vls. (w=0.1~0.3cm, int=2~5cm)	16.90	504	0.8	<1		
~ ~ ~		20.60m gz, py, chl v. (w=1cm, 25°)						
~ ~ ~	23.20	23.20~24.20m few gz, limo vls	23.20					
~ ~ ~	24.20		24.20 505 0.2 <1					
~ ~ ~		29.70m gz, py v. (w=1cm, 10°)						
~ ~ ~	30.00	30.00m Bottom of the hole						

GEOLOGIC CORE LOG OF MJML-7 (1/1)

1/200

MJML-7 (1/1) 0 m ~ 30 m

Level 1,005.0 m Direction S20° W
 X 70.118.0 m Inclination -75°
 Y 89.375.0 m Length 30.0 m

LITHO LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0~1.00m weathered phy	1.00					
XXXX	1.00	1.00~1.60m frac. zone w/ 82 v.	7.60	817-701	<0.1	<1		
	2	1.60~30.00m dk grey phy						
	4	1.60~4.30m few 82 vls	4.30					
	4.30	4.30~6.30m frac. zone w/ 82 v. & vls	5.20	702	<0.1	<1		
	6.30		6.30	703	<0.1	<1		
	8							
	10							
	11.10	11.10~12.20m 82, py v.	11.10					
	12.20		12.20	704	0.2	<1	12.10	817-1
	14							
	16							
	18							
	19.70	19.70~20.10m frac. zone w/ 82 v.	19.70					
	20.10	20.60~21.00m frac. zone w/ 82 v.	21.00	705	<0.1	<1		
	22.50	22.50~23.60m 82 v. & vls (w=0.2~1.0m, int=1~3cm)	22.50					
	23.60		23.60	706	0.2	<1		
	25.70	25.70~26.90m 82 v & vls (w=0.1~1.5cm, int=3~10cm)	25.70					
	26.90	25.70m 82 (w=1.5cm)	26.90	707	<0.1	<1		
		25.70m 8 (w=1cm, 25°)						
	30.00	30.00 Bottom of the hole						

GEOLOGIC CORE LOG OF MJML-8 (1/1)

1/200

MJML-8 (1/1) 0 m ~ 30.0 m

Level 948.0 m Direction S20°W
 X 70.162.0 m Inclination -25°
 Y 59.117.0 m Length 30.0 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0~1.00m Soil w/rock frags	0					
	1.00	1.00~2.60m weathered sdy phy w/gz v. (max. 2cm)	1.00					
	2.60	2.60~3.80m frac. zone w/gz, py, limo v. (max. 3cm)	2.60	BA-801	<0.1	<1		
	3.80	3.80~19.00m grey silic. sdy phy.	3.80	802	0.6	<1		
	6.00	6.00~6.80m frac. zone	6.00					
	6.80	6.00~7.20m gz, py, limo v. & vls	6.80	803	0.2	<1		
	7.20		7.20	804	<0.1	<1		
	9.40	9.40~11.00m frac zone w/gz v.	9.40					
	11.00	11.00~12.20m gz, py, limo network vls	11.00	805	<0.1	<1		
	12.20		12.20	806	<0.1	<1		
	18.60	18.60~19.00m frac. zone w/gz v. & vls	18.60					
	19.00	19.00~23.80m dk grey phy	19.00					
	23.80	23.80~30.00m grey silic. sdy phy	23.80					
	24.80	24.80~26.30m gz, py, limo v. & vls	24.80					
	25.80	24.80m gz v. (w=5cm)	25.80	807	2.2	2.4		
	26.30	25.80~26.30m gz, py, limo v.	26.30	808	0.4	<1		BMS-1
	27.20	27.20~28.20m gz, py, limo vls	27.20					
	28.20		28.20	809	0.5	<1		
	29.10	29.10~30.00m gz, py, limo vls	29.10					
	30.00		30.00	810	<0.1	<1		

GEOLOGIC CORE LOG OF MJML-9 (1/1)

1/200

MJML-9 (1/1) 0 m ~ 30 m

Level 925.0 m Direction 520° W
 X 70.291.0 m Inclination -25°
 Y 59.301.0 m Length 30.0 m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0~3.60m weathered sdy phy						
	3.60	3.60~23.50m grey silic. sdy phy w/ few zc vls	4.60					
	5.30	5.30~5.40m zc, py v.	5.60	BM-901	0.4	<1		
	6.60	6.60~8.70m frac. zone	7.10	902	0.4	<1		
	8.70		8.30	903	<0.1	<1		
	10.50	10.50~12.90m few zc, py vls	10.50					
	12.90		11.70	904	0.2	<1		
	14.40		12.90	905	0.1	<1		
	15.20	14.40~15.20m zc, side. py vls (w=0.1~2cm, int=1~5cm)	14.40					
	16.30		15.20	906	0.1	<1		
	17.30	16.30~17.30m few zc vls	16.30					
	19.30	17.30~20.70m zc, py vls	17.30	907	<0.1	<1		
	20.70		18.30	908	<0.1	<1		
	22.70		19.70	909	<0.1	<1		
	23.50	22.70~30.00m few zc vls (w=0.1-0.2cm, int=1-2cm partly network)	20.70	910	0.1	<1		
	23.50	23.50~30.00m dk grey silic phy	22.70					
	29.00	30.00m zc, py, chl v. (w=3cm, 5°)	23.70	911	<0.1	<1		
	30.00	30.00m Bottom of the hole	24.70	912	0.2	<1		
			25.70	913	0.1	<1		
			26.70	914	<0.1	<1		
			27.70	915	0.1	<1		
			29.00	916	<0.1	<1		
			30.00	917	0.4	<1		

GEOLOGIC CORE LOG OF MJML-10 (1/1)

1/200

MJML-10 (1/1) 0 m ~ 30 m

Level 988.0 m Direction S20°W
 X 69.442.0 m Inclination -75°
 Y 59.381.0 m Length 30.0 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0~2.00m soil w/ rock frags						
	2.00	2.00~18.60m brownish grey sdy phy						
	5.60	5.60~7.00m frac. zone w/ qz, py, limo. vls	5.60					
	7.00		7.00	BH-1001	<0.1	2.8		
	8.40	8.40~9.20m frac. zone w/ qz, py, limo. vls	8.40					
	9.20	9.20~10.70m qz, py vls (w=0.1-1cm, int=1-5cm)	9.20	1002	<0.1	2.0		
	10.70	10.20m qz (w=1cm)	10.70	1003	<0.1	4.0		
	13.90	13.90~19.60m frac. zone w/ qz vls	13.90					
			15.00	1004	<0.1	4.0		
			16.10	1005	<0.1	2.0		
			17.20	1006	<0.1	2.0		
	18.60	18.60~20.60m blk phy	18.60	1007	<0.1	2.4		
	19.60	19.60~20.20m qz vls	19.60	1008	<0.1	1.6		
	20.20	20.20~23.90m frac. zone w/ qz	20.60	1009	<0.1	<1		
	20.60	20.60~30.00m grey silic. sdy phy	21.70	1010	<0.1	2.0		
	23.90	23.90~24.20m qz, cal, limo v.	23.00	1011	<0.1	3.6		
	24.20		24.20	1012	<0.1	<1	24.00 BH10-1	
	27.50	27.50~28.80m qz, cal, py, limo v & vls						
	27.70	27.70m qz, cal v (w=0.1-2cm, int=1-3cm)						
	28.80	(w=2cm)						
	30.00	Bottom of the hole						