

Fig.II-2-1-1 Geologic Map and Cross Sections of the Maulyan District

Age		Formation	Abbreviation	Geologic column	Thickness (m)	Lithology
Cenozoic	Quarternary		Q			sand, gravel, silt
	Carboniferous	Darasai	C ₂ ?dr		>200	slate, sandstone, limestone
Paleozoic	Devonian	Aktau	S ₂ -C ₂ ?ak		>350	marble
	Silurian	upper				
		lower	Dzhazbulak	S ₁ dz		220
		Nakrut	S ₁ nkr		200	slate, siltstone, sandstone, phyllite
	Ordovician	Badamchalin	Obd		180	slate, siltstone, sandstone
	Cambrian	Kalsarin	€kl		>190	limestone, marble, sandstone, slate, limy sandstone, flint

Fig.II-2-1-2 Schematic Geologic Column of the Maulyan District

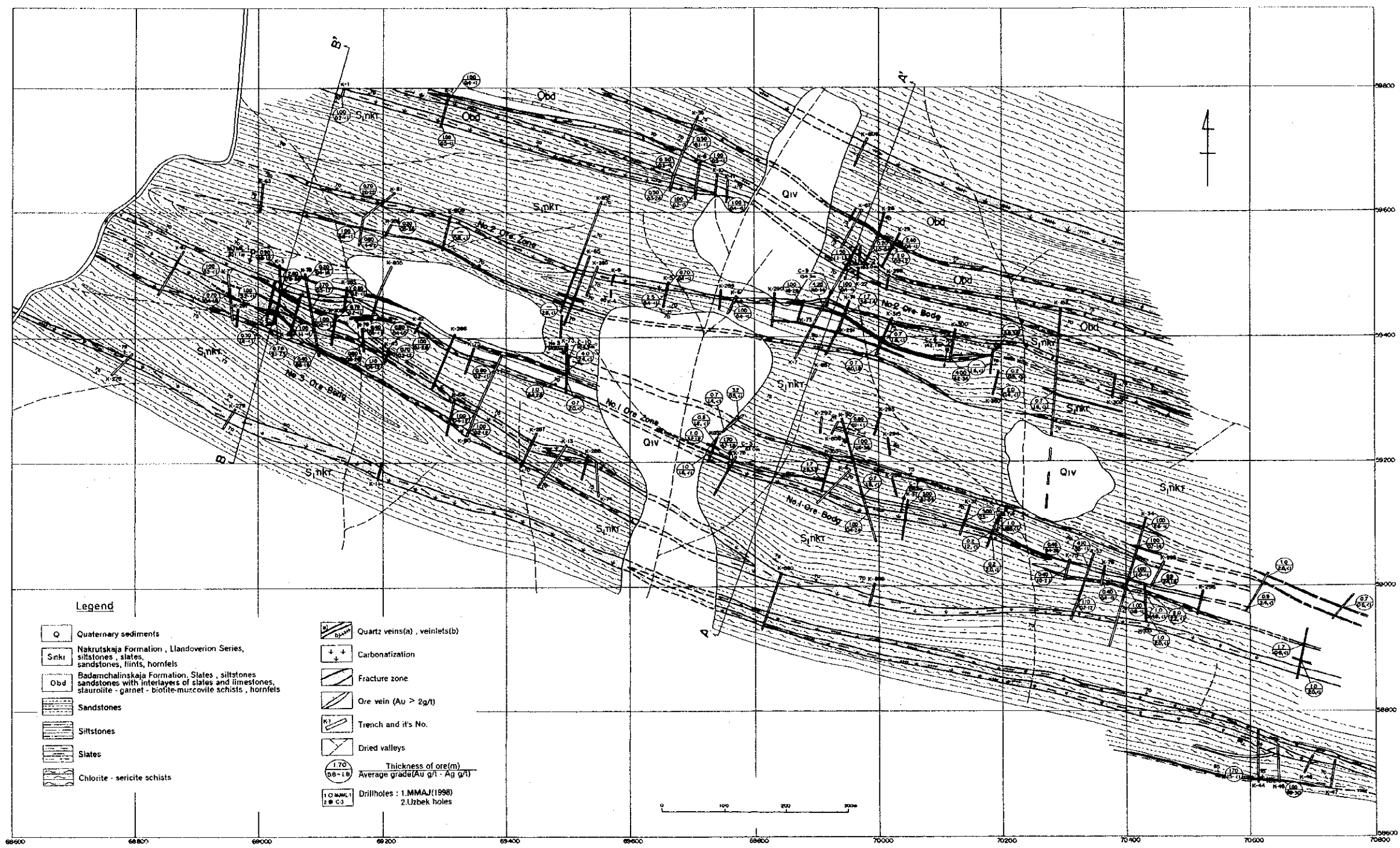


Fig.II-2-1-3 Geologic Map of the Maulyan Ore Manifestation

(after Zarrision Expedition, 1997, 1998)

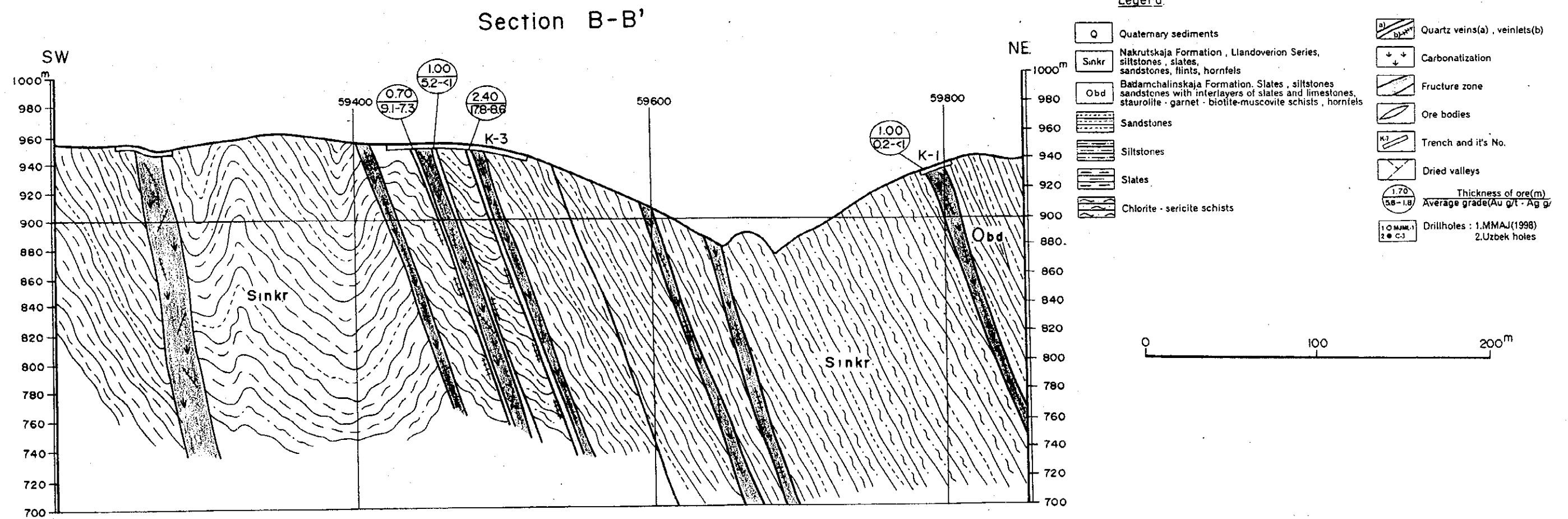
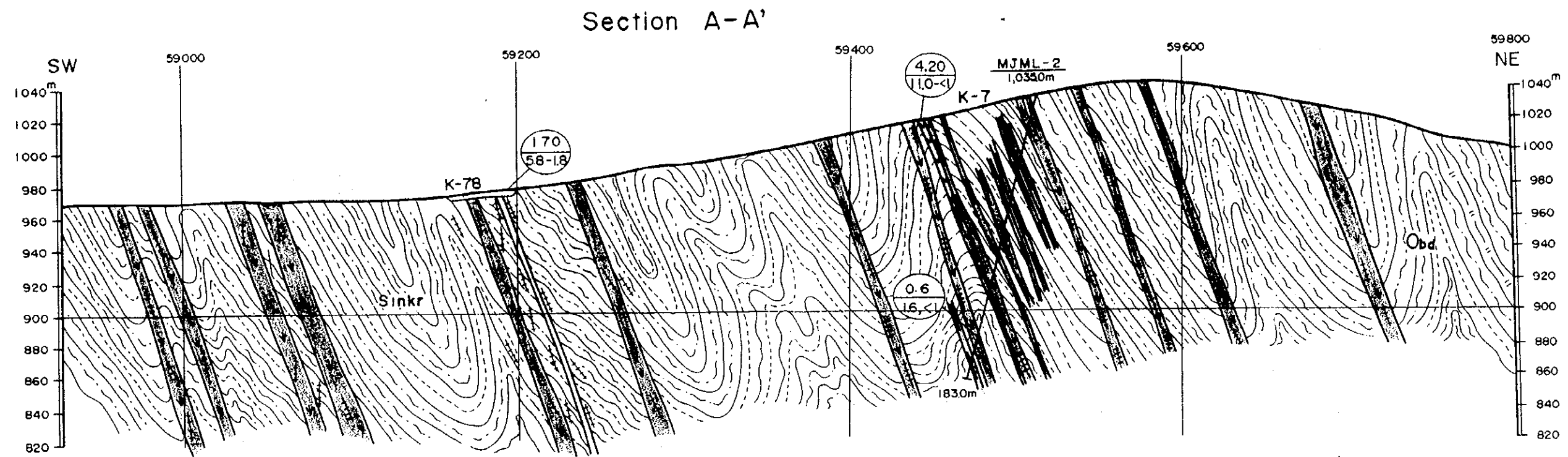


Fig.II-2-1-4 Geologic Cross Sections of the Maulyan Ore Manifestation

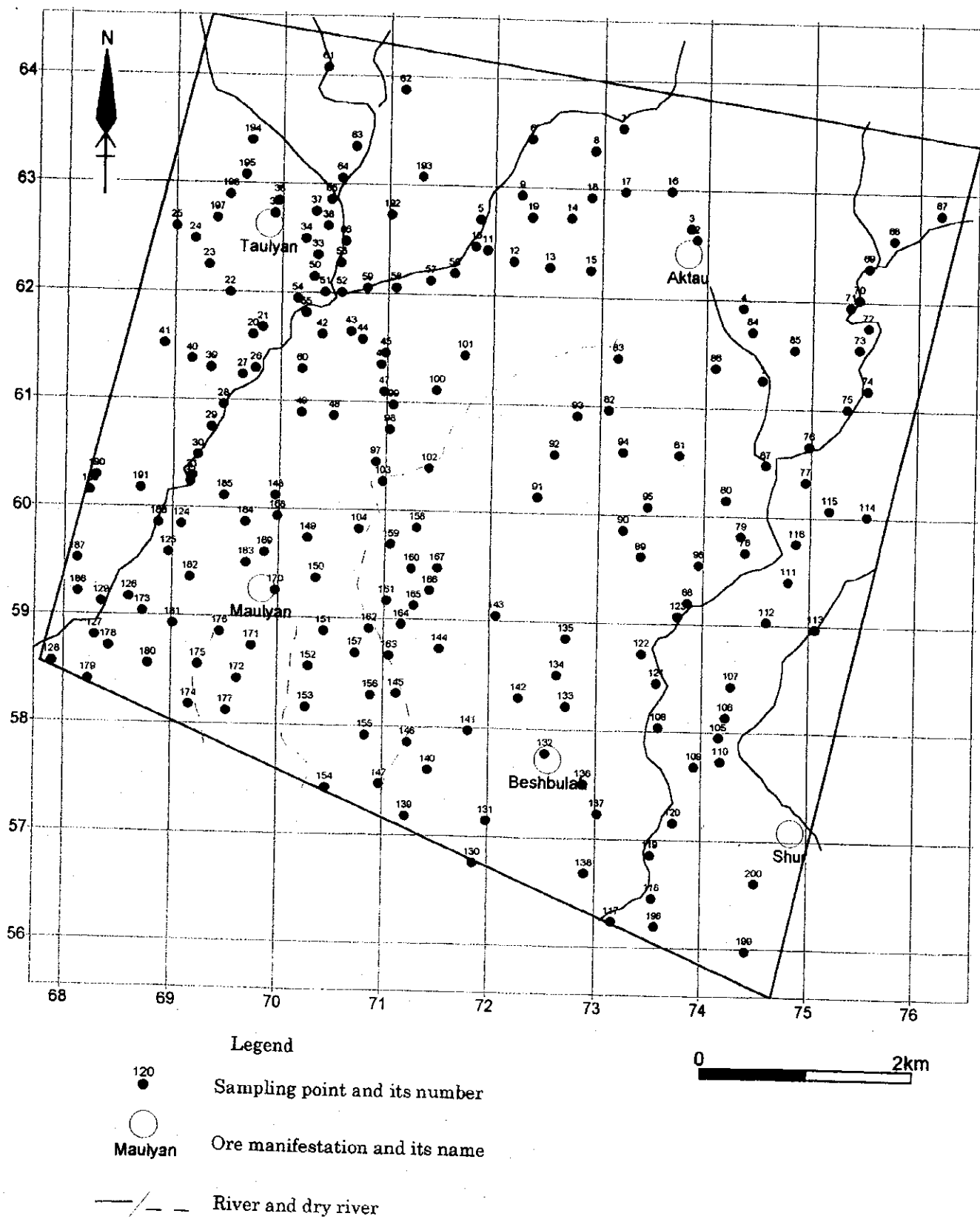


Fig.II-2-2-1 Location Map of the Geochemical Samples in the Maulyan District

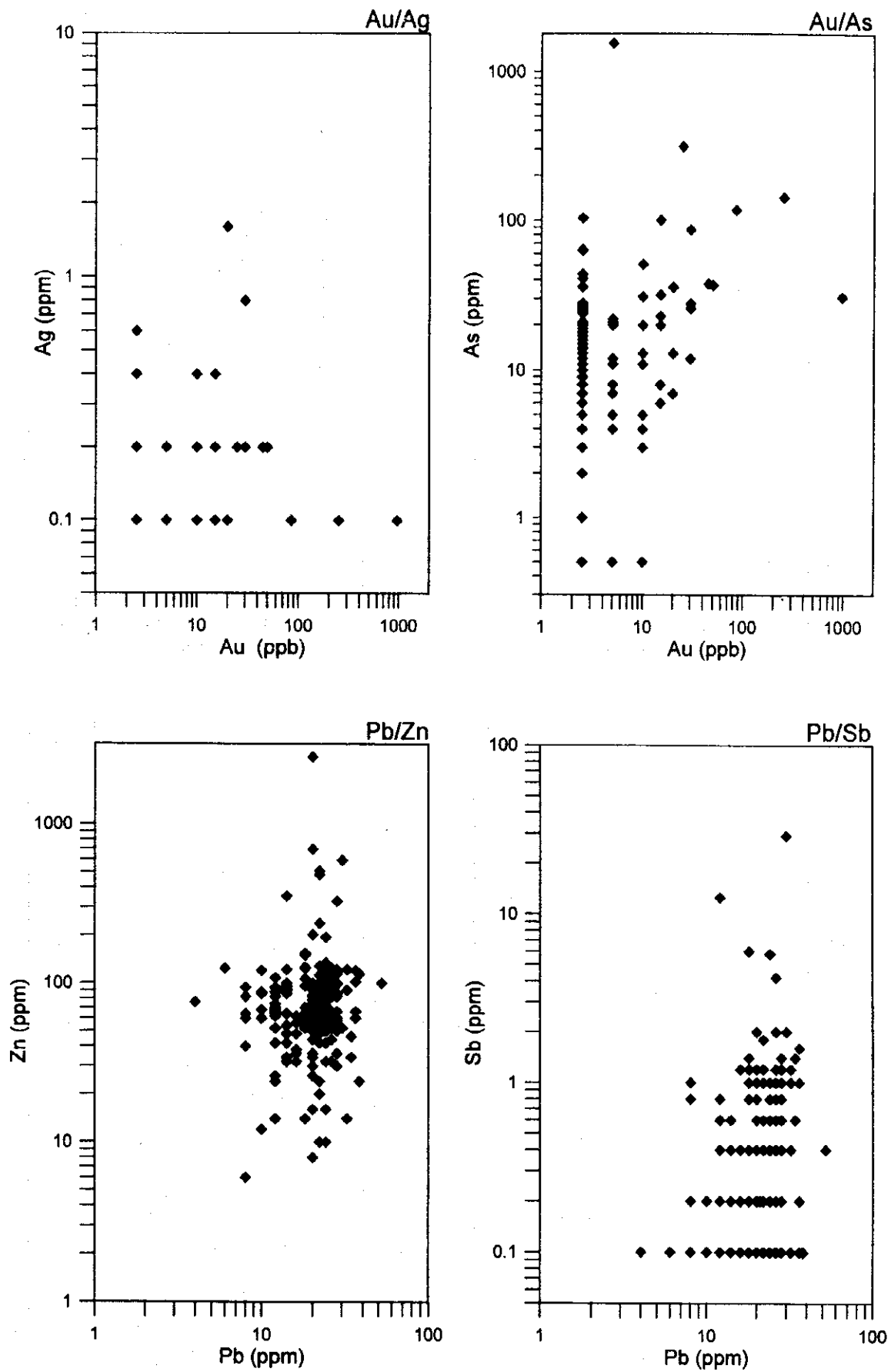


Fig.II-2-2-2(1) Scatter Plots (logarithmic) for Geochemical Samples in the Maulyan District (Au-Ag,Au-As,Pb-Zn,Pb-Sb)

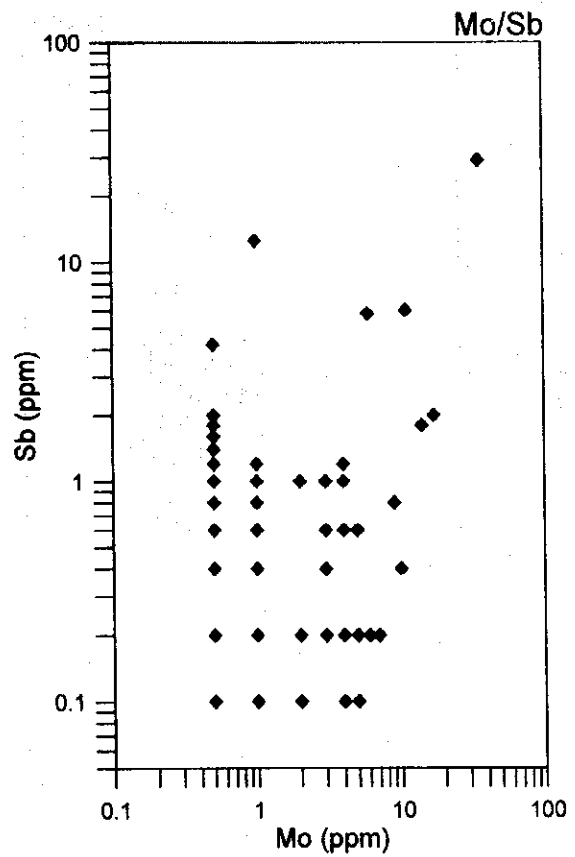
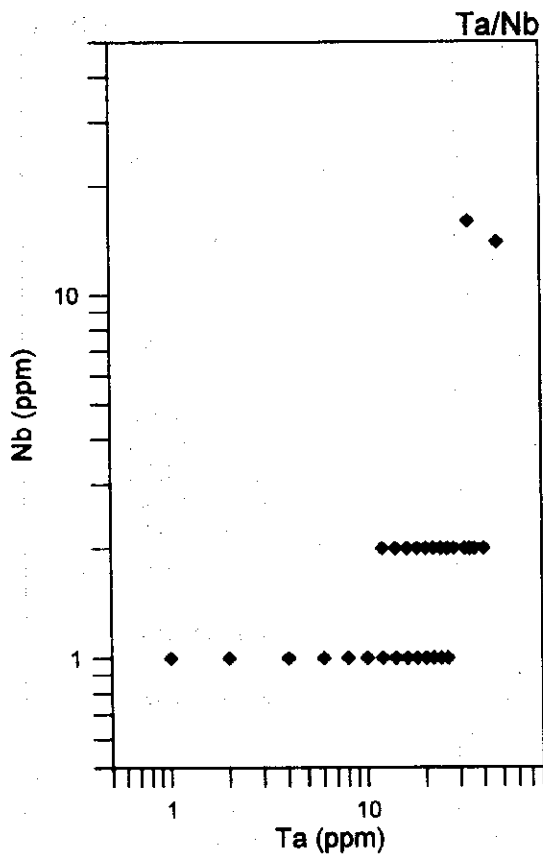
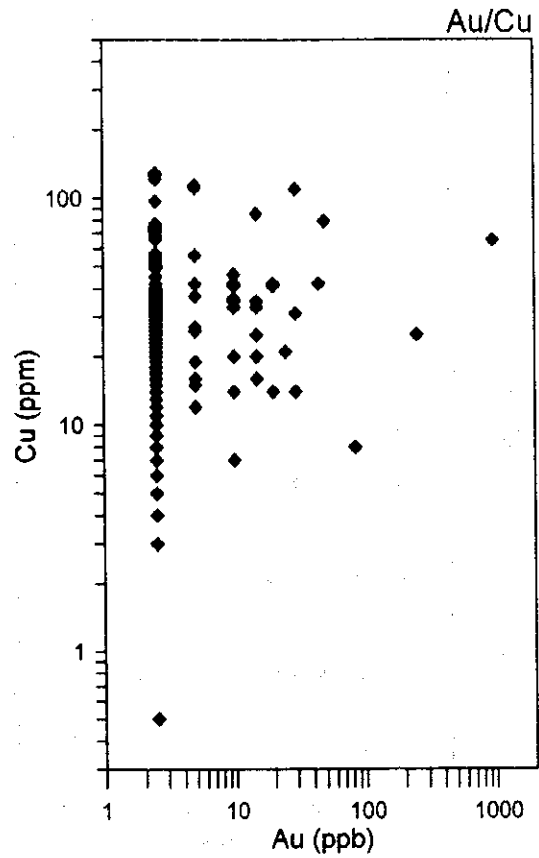
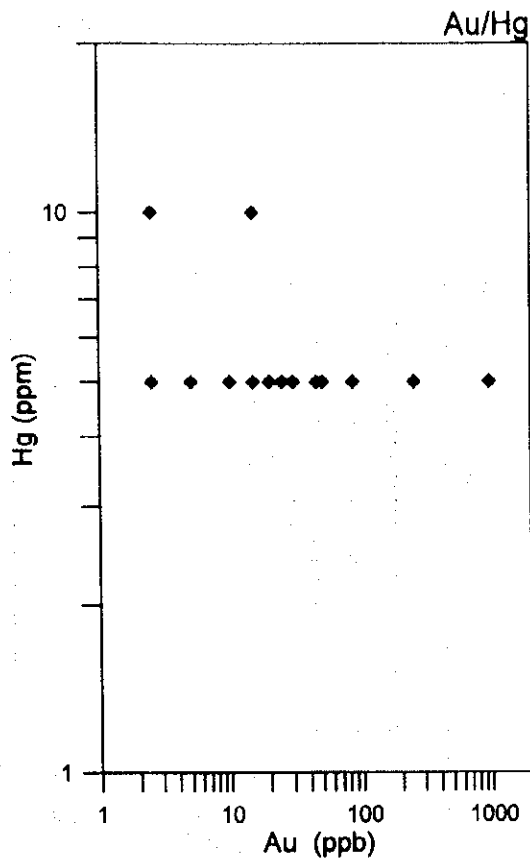


Fig.II-2-2-2(2) Scatter Plots (logarithmic) for Geochemical Samples in the Malyan District (Au-Hg,Au-Cu,Nb-Ta,Sb-Mo)

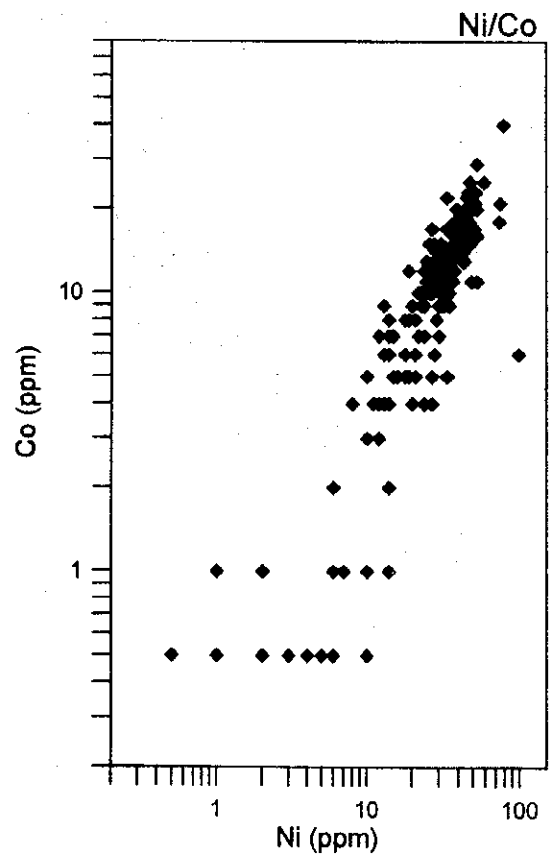
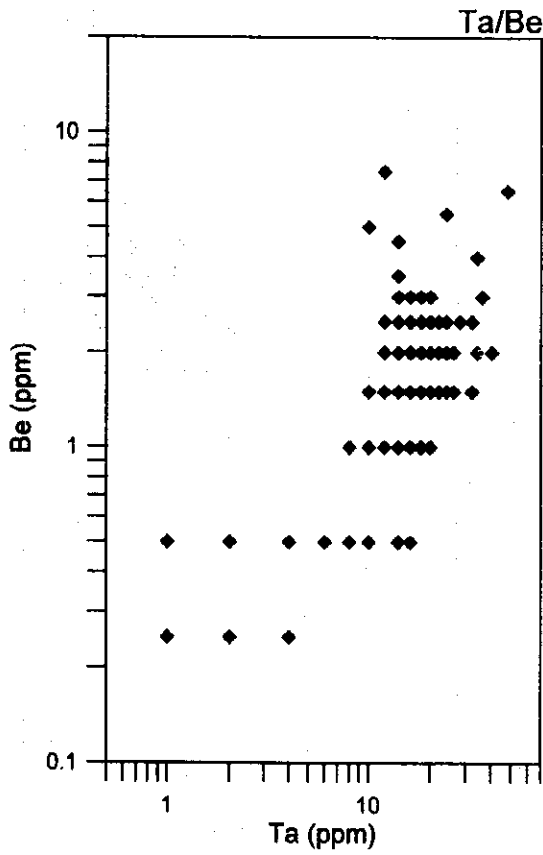
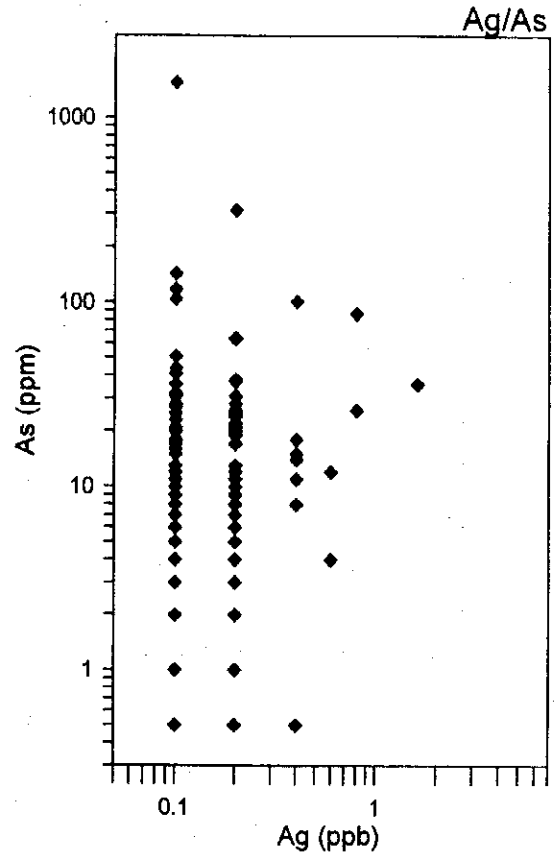
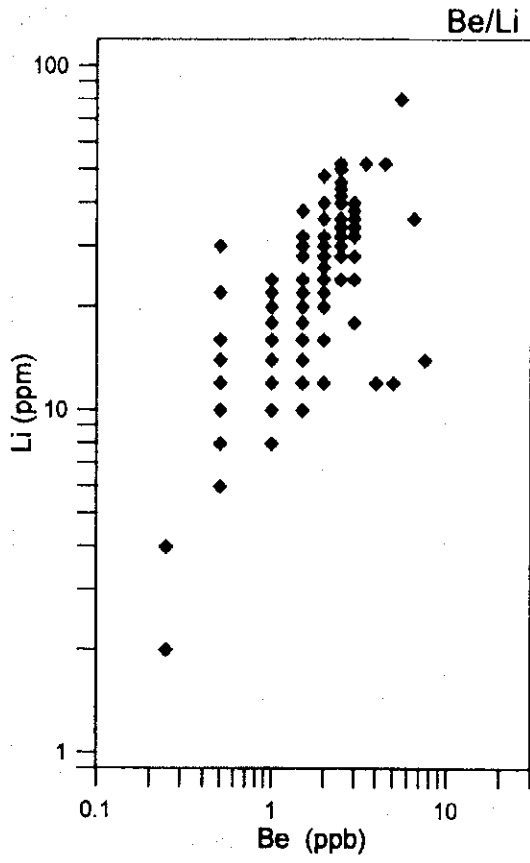


Fig.II-2-2-2(3) Scatter Plots (logarithmic) for Geochemical Samples in the Maulyan District (Be-Li,Ag-As,Ta-Be,Ni-Co)

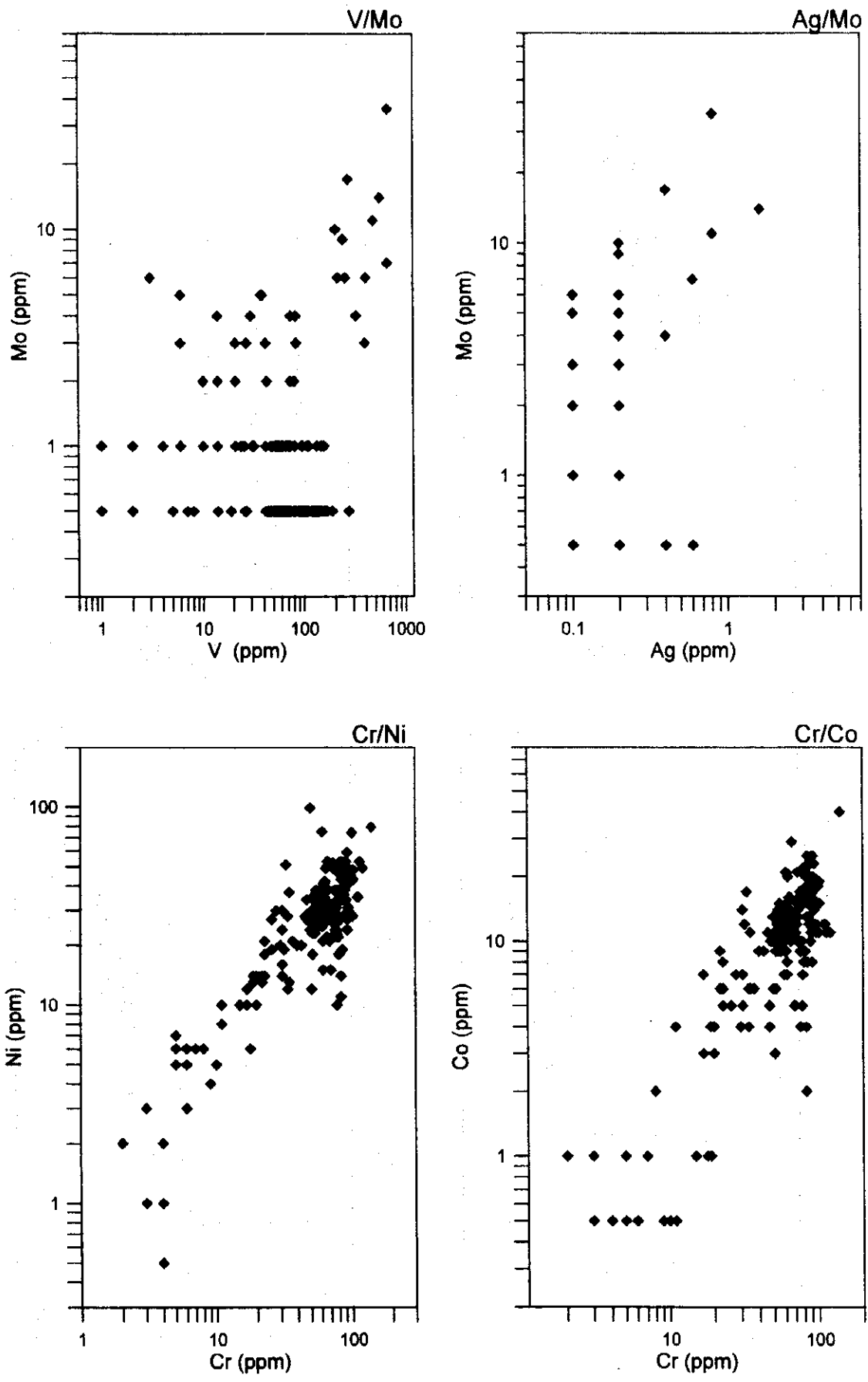
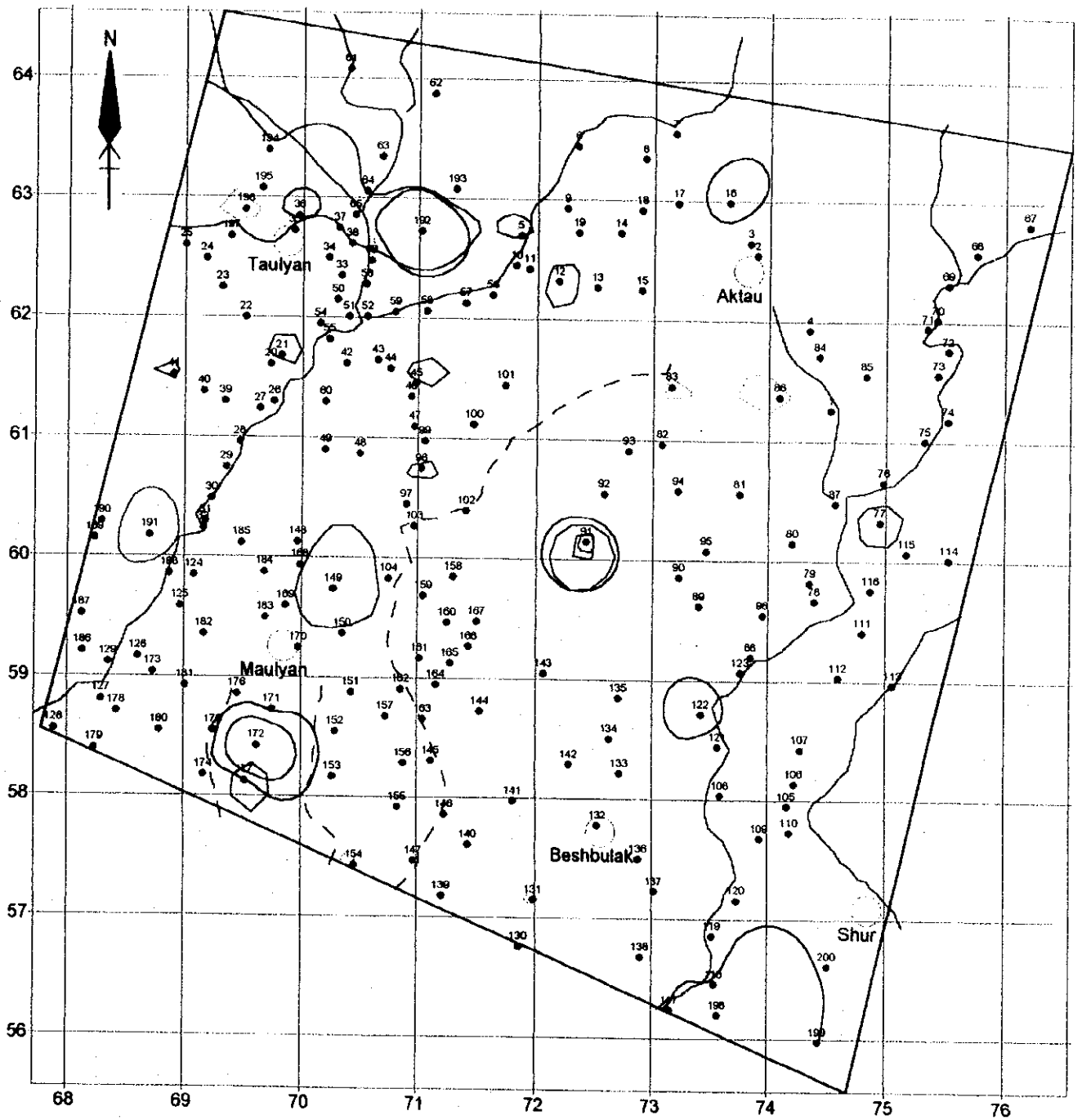


Fig.II-2-2-2(4) Scatter Plots (logarithmic) for Geochemical Samples in the Mauyan District (V-Mo,Ag-Mo,Cr-Ni,Cr-Co)



Legend

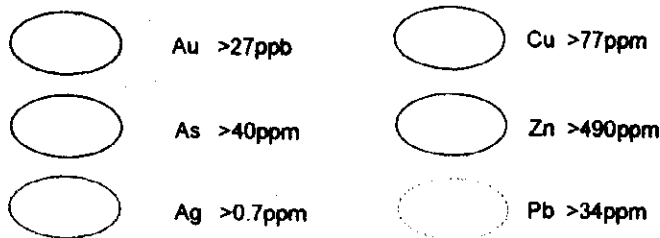


Fig II-2-2-3(1) Geochemical Anomaly Map in the Maulyan District (Au,As,Ag,Cu,Zn,Pb)

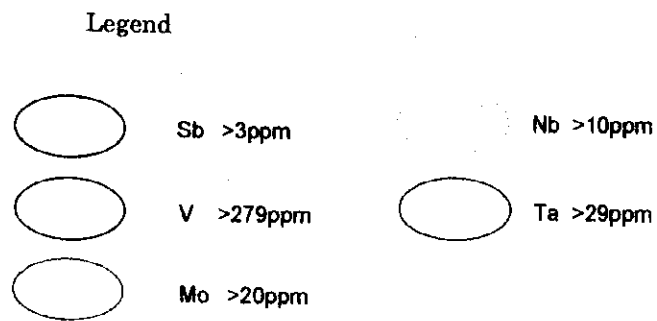
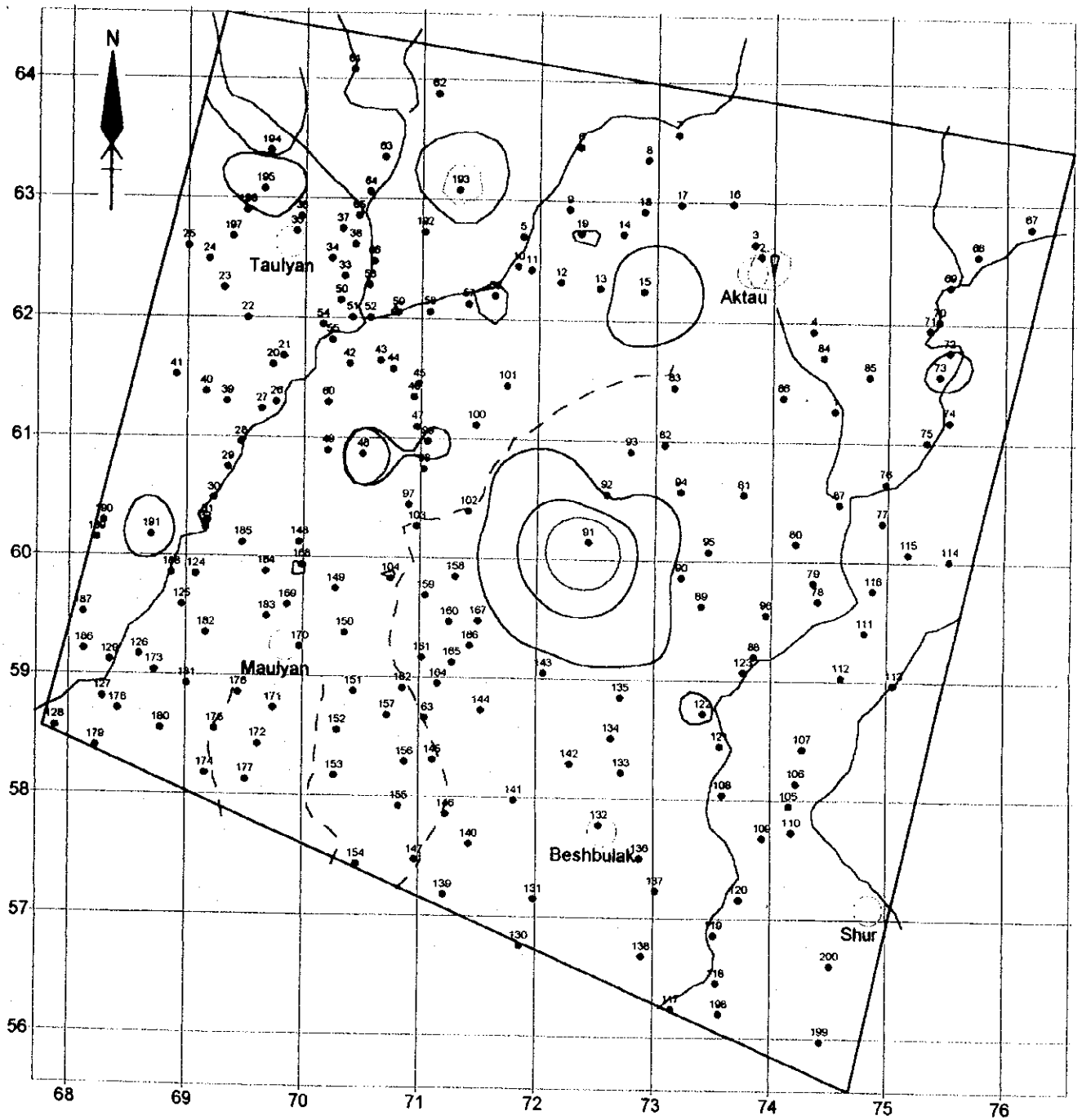


Fig.II-2-2-3(2) Geochemical Anomaly Map in the Maulyan District (Sb,V,Mo,Nb,Ta)

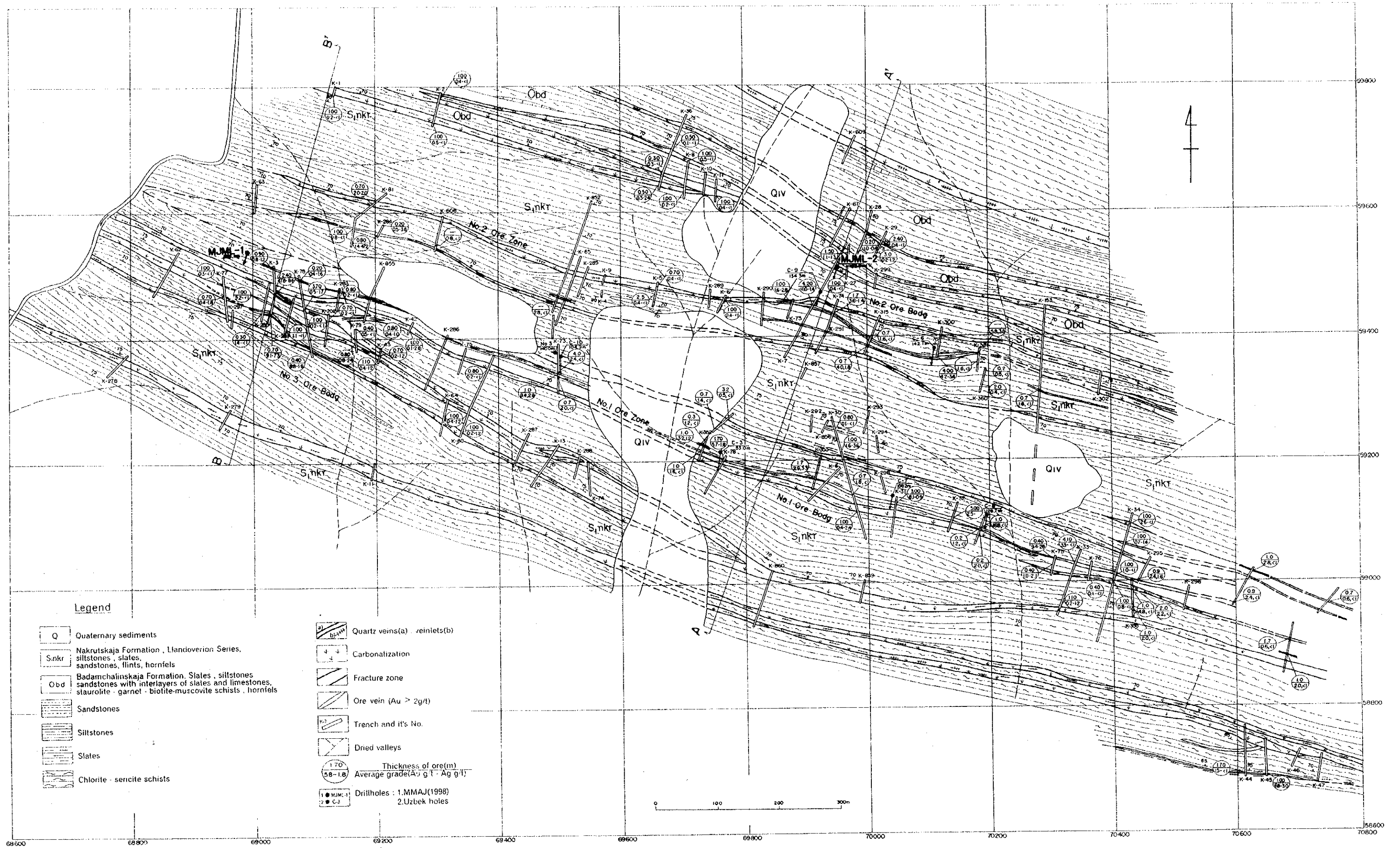


Fig.II-2-3-1 Location Map of the Drillholes in Maulyan District

(after Zarmiton Expedition, 1997,1998)

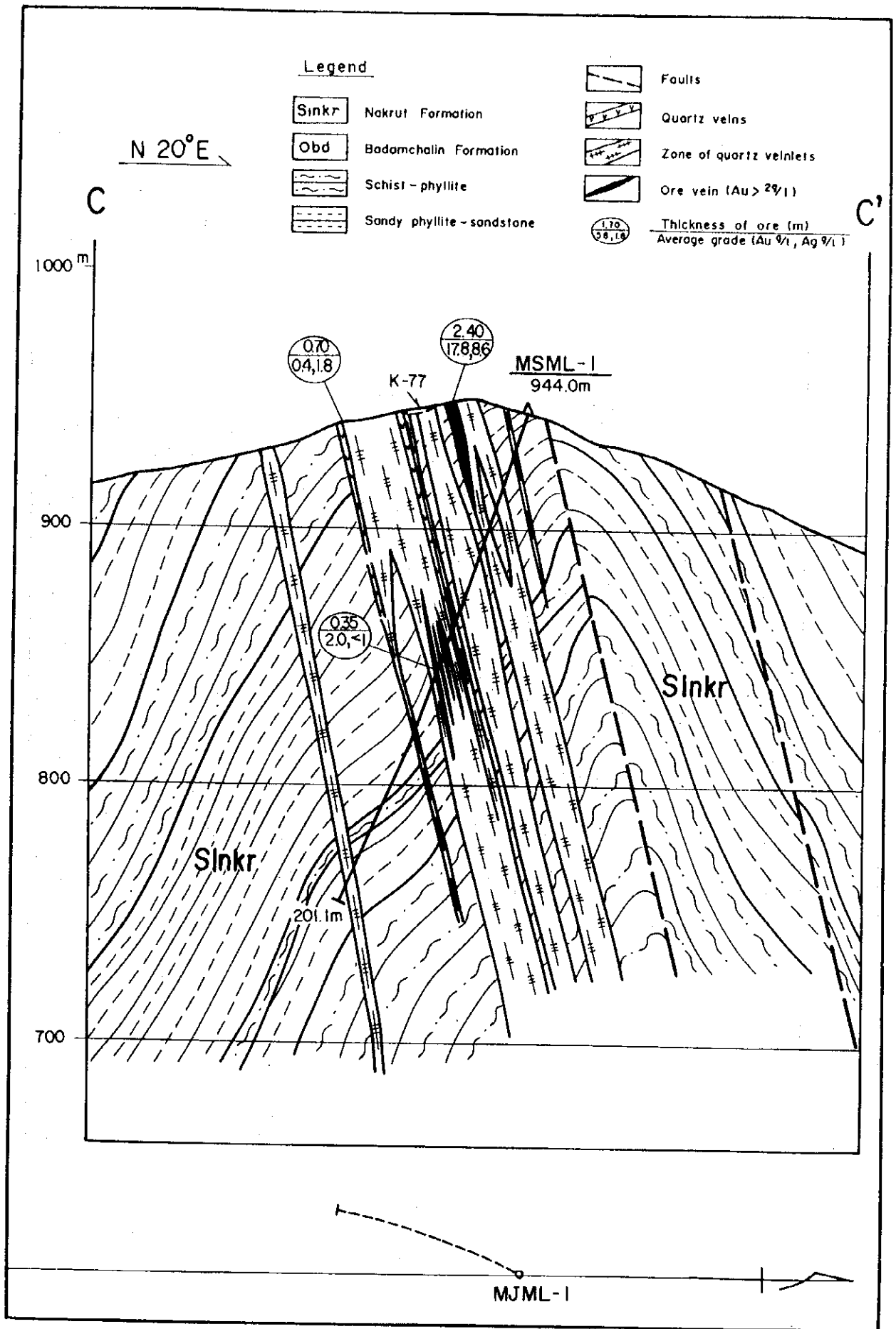


Fig.II-2-3-2 Geologic Cross Section along MJML-1

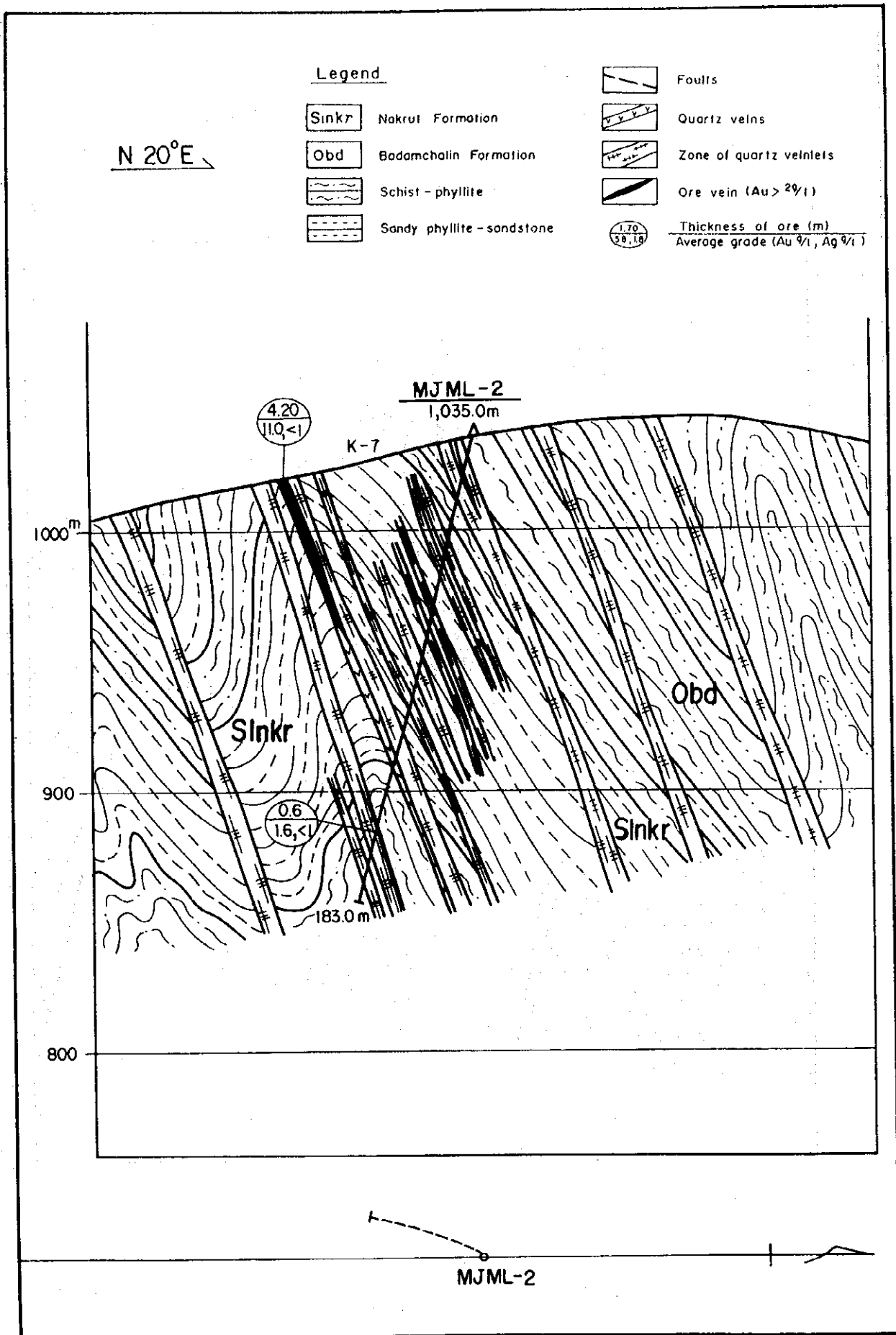


Fig.II-2-3-3 Geologic Cross Section along MJML-2

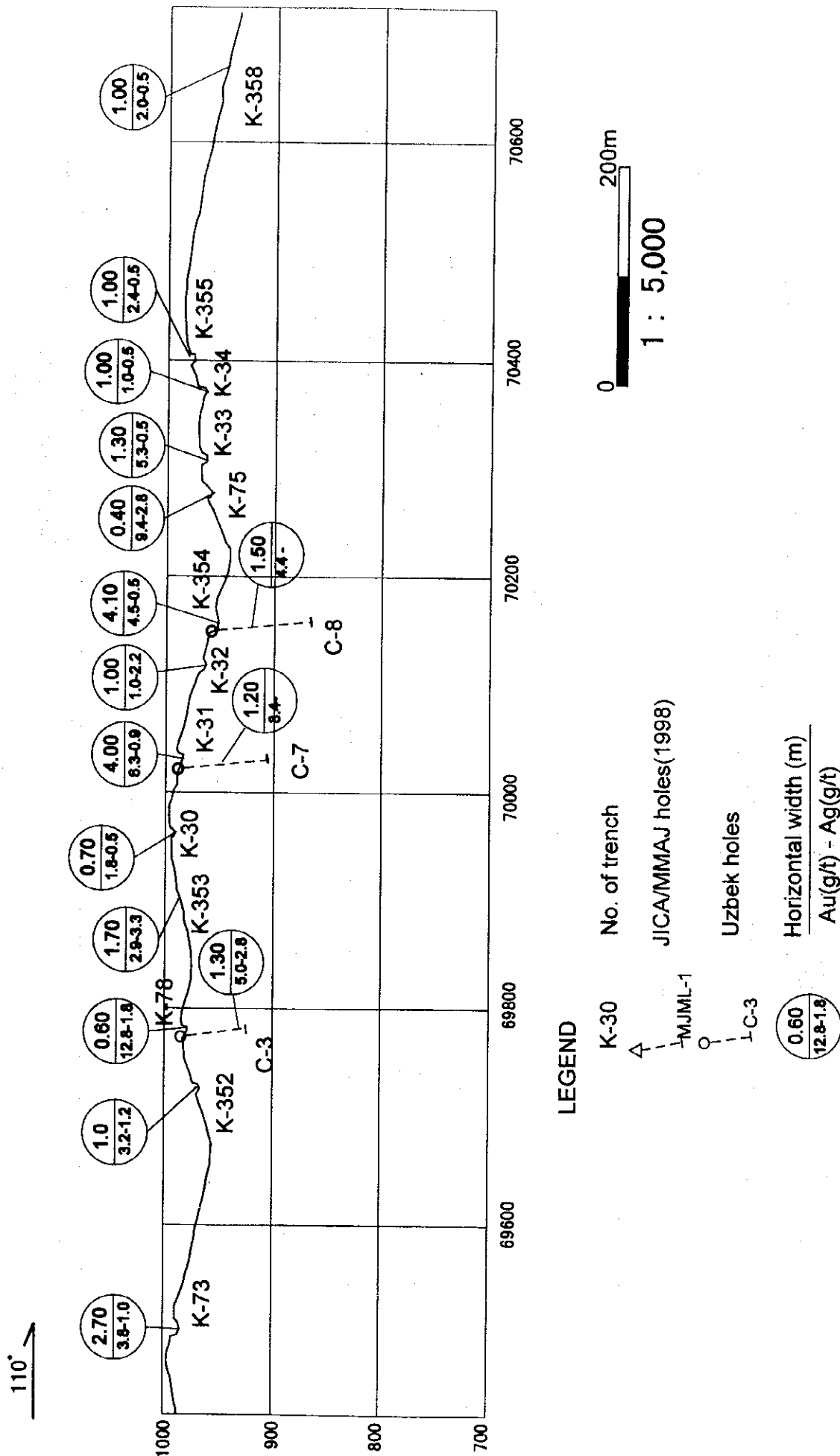


Fig. II-2-3-4 Perspective Section for Maulyan No.1 Ore Body(No.1 Ore Zone)

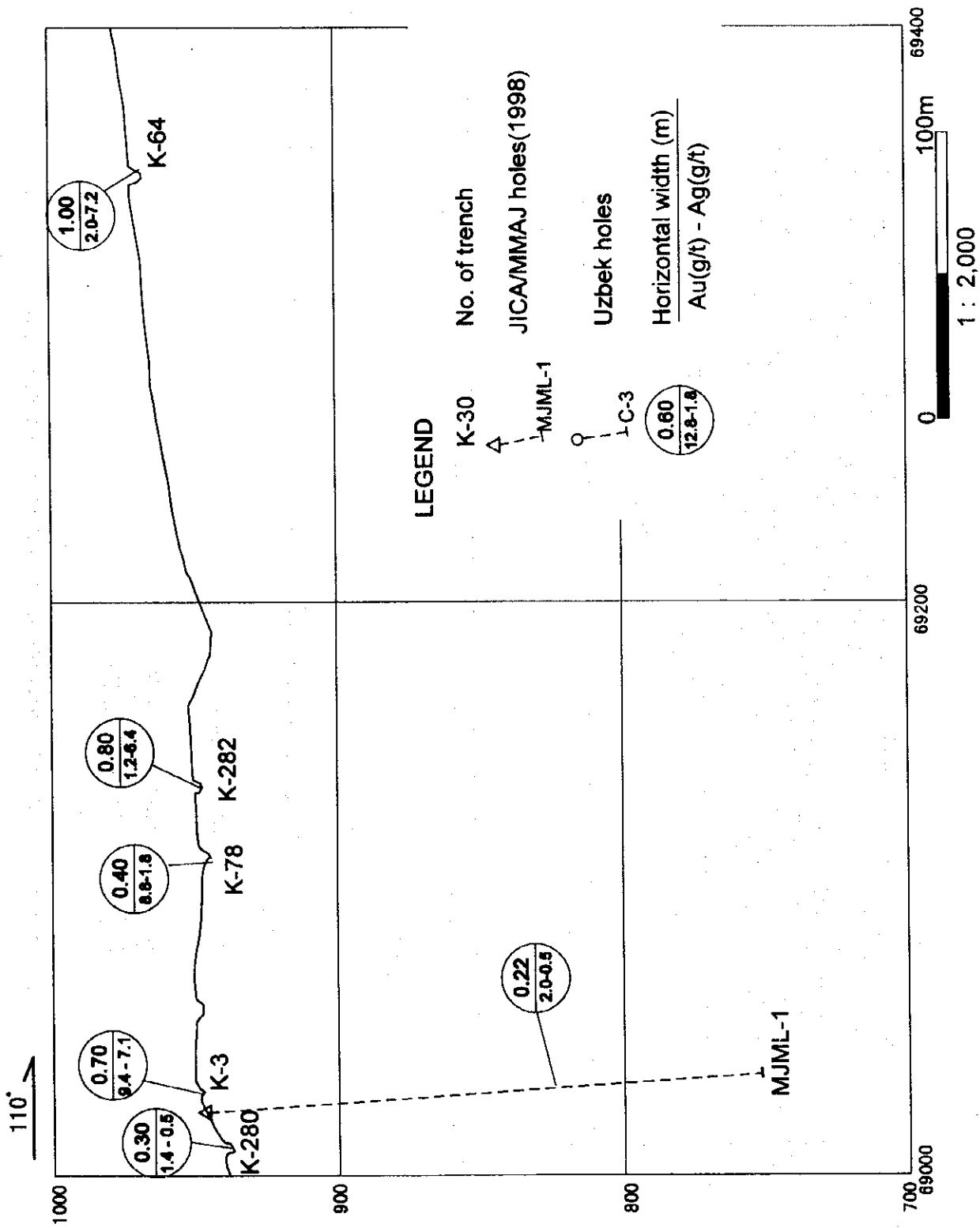


Fig. II-2-3-5 Perspective Section for Maulyan No.3 Ore Body (No. 1 Ore Zone)

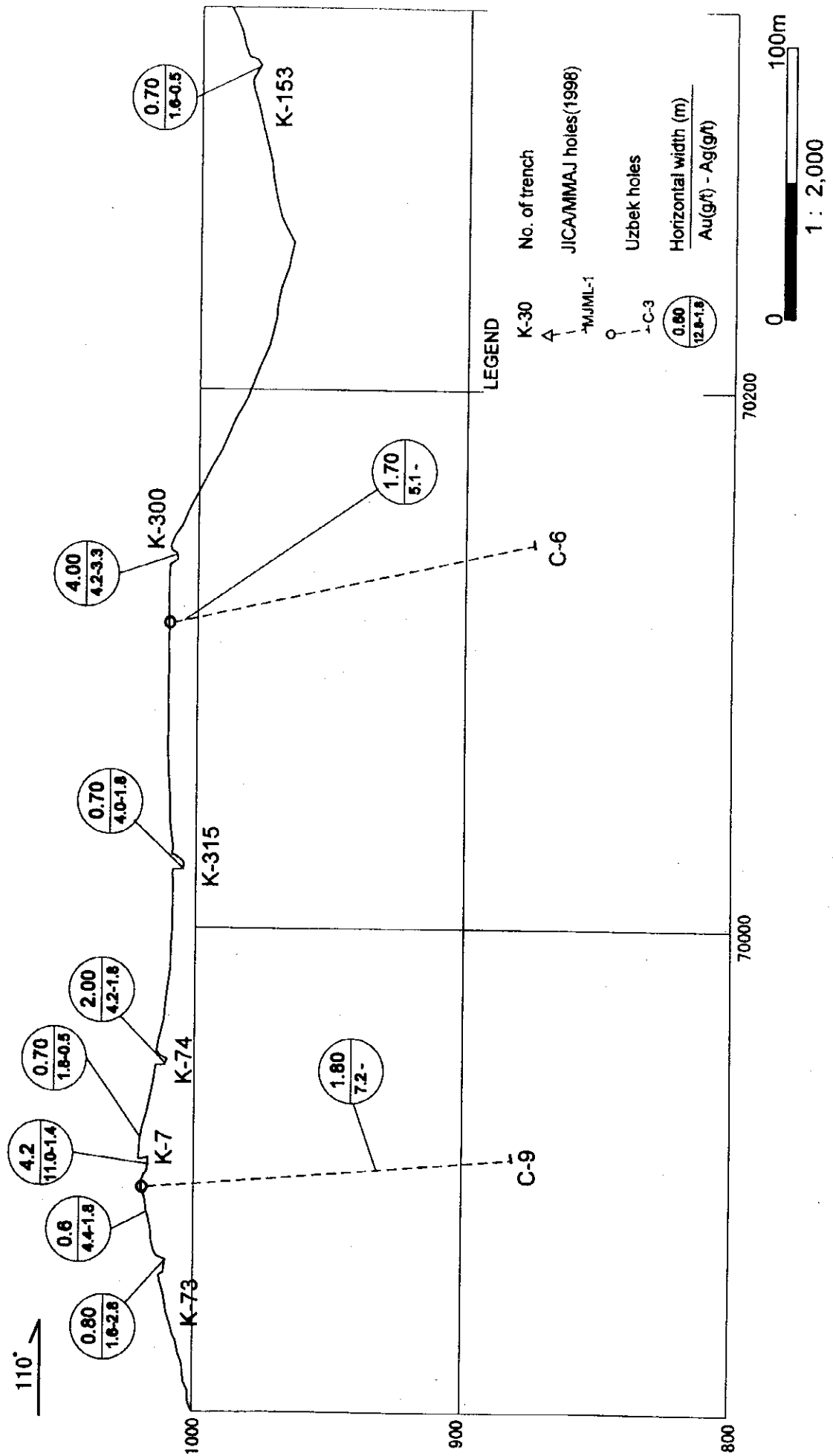


Fig. II-2-3-6 Perspective Section for Maulyan No.2 Ore Body(No.2 Ore Zone)

第III部 結論及び将来への提言

第 1 章 結 論

1-1 アルティンサイ地区

(1) 地質・鉱床

- ・ 本地区は、オールドビス系-シルル系の堆積岩類、これに貫入した二疊紀後期～三疊紀前期のランプロファイヤーからなり、WNW-ESE 方向の軸を有する褶曲構造を呈する。
- ・ 本地区の鉱床は、地質構造に調和した WNW-ESE 系とこれに斜交する NW-SE 系の断裂帯に規制された石英脈及び N-S 系節理に伴う電気石-石英細脈帯に金を含む鉱脈型鉱床である。

(2) 鉱化帯

- ・ 延長 2.5km、幅 500-800m の範囲でホルンフェルス化した堆積岩類中に No.1, No.2, No.5, No.8 (北西脈), No.9 (カザンブラク脈), No.10 (ベルクット脈) 脈等の石英脈の鉱体が確認されており、これら鉱化帯の分布範囲には N-S 系の電気石-石英細脈帯が発達している。
- ・ 富鉱部は WNW-ESE 系脈と NW-SE 系断裂との交会部の石英脈と N-S 系電気石-石英細脈の集中するゾーンである。

(3) 鉱床の規模・連続性

- ・ 第 1 年次調査により捕捉された No.2 脈(下盤側)の優勢な鉱化作用(真幅:1.6m, 金品位:15.3g/t)の東延長部(120m)をターゲットとして実施された本年次の MJSN-11 孔ではその連続性が確認されたが、鉱化作用の規模は小さく金品位は低い(真幅:1.27m, 金品位:3.0g/t)ことが判明した。
- ・ N-S 系電気石-石英細脈帯の鉱化状況と露天掘りの可能性把握を目的として実施した第 1 年次調査及び MJSN-13 孔の結果では、各所で金鉱化作用(金品位:1.5~23.6g/t)を捕捉したが、全体としては、金品位は平均 0.2g/t 以下と低品位であることが判明した。
- ・ No.1 脈及び No.2 脈坑道で確認した富鉱部の下部延長をターゲットとして本年次実施されたウズベク側のボーリング 4 孔(C-47, C-50^a, C-53, C-54)では坑道の下部 100m(海拔 600m)以深で鉱化作用が劣勢になることが確認されている。浸食により鉱体主要部が削剥されたためと考えられる。
- ・ ウズベク側の脈沿いトレンチ(No.40)で確認された北西脈(No.8 脈)鉱体(確認延長:32m, 脈幅:1.35m, 金品位:8.1g/t)は坑内の 1 号脈富鉱部に類似した塊状

石英脈である。脈沿いトレンチと東側の旧坑跡との間 230m 及びトレンチ（標高 860m）下部は未探鉱であり、今後の探鉱ターゲットと考えられる。

(4) 鉱化作用

- ・ WNW-ESE 系，NW-SE 系の石英脈及び N-S 系の電気石-石英細脈の流体包有物均質化温度は一般に 270℃～370℃を示し，有意な差異は認められない。これらの石英脈と電気石-石英細脈は一連の鉱化時期・温度環境下で形成されたものと考えられる。
- ・ 鉱化帯の分布とホルンフェルス帯の分布範囲及びウズベク側が実施した空中磁気探査のアノマリーはほぼ一致する。このことは比較的浅部に潜頭性の花崗岩類の存在の可能性を示し，本鉱化帯が花崗岩類の貫入に由来した鉱化作用により形成されたものと推定される。
- ・ 本鉱床の鉱化作用は連続性はあるものの品位の変動が大きく，全体としては低品位である。

1-2 マオリャン地区

(1) 地質

- ・ 本地区は古生代の石灰岩，粘板岩，砂岩などの堆積岩類，これに貫入した花崗岩類，ランプロファイヤー等の岩脈類からなる。堆積岩類は黒雲母，白雲母，緑泥石及び十字石等を伴い低温高压型の変成作用を受け，千枚岩化，片岩化している。
- ・ これらの地層は WNW-ESE 方向の軸を有する褶曲構造を呈し，WNW-ESE，NE-SW 及び NW-SE 方向の断層によってブロック化している。

(2) 鉱化帯

- ・ 本地区はアクタウ鉱化帯（東西 70km，南北 2-5km）の一部に位置づけられ，WNW-ESE 方向の断層と珪化帯中に金鉱微が分布し，マオリャン，ベシュブラク，タオリャン，シュール等の金鉱微地が確認されている。
- ・ 地化学探査の結果，Au 異常地はスポット状で明瞭な連続性は抽出されなかった。Au の異常地はマオリャン鉱微地南部，タオリャン鉱微地付近，シュール南部等の既知金鉱微地近辺に散在する。

(3) 鉱微地

- ・ マオリャン金鉱微地の地表での規模は，脈幅 1-4m，延長 900m（No.1 鉱体:No.1 鉱化帯），300m（No.2 鉱体:No.2 鉱化帯）及び 200m（No.3 鉱体:No.1 鉱化帯）で，

金品位は、1-33.4g/t と変化する。これらの下部連続性把握を目的としたボーリング 2 孔 (MJML-1 及び MJML-2) では、各所に黄鉄鉱を含む石英脈・破碎帯の発達を確認するに留まった。地表下 100~135m で No.3 鉱体及び No.2 鉱体の連続性が確認されたが、規模はそれぞれ真幅 0.2m, 真幅 0.34m, 品位は 2.0g/t, 1.6g/t と低品位であった。

- ・ ウズベク側の自主探鉱では、地表下 16-90m において C-3, C-7, C-8 孔で No.1 鉱体 (幅:1.2-1.5m, 金品位:4-8g/t), C-6, C-9 孔で No.2 鉱体 (幅:1.7-1.8m, 金品位:5-7g/t) の連続性が確認されており、地表近くでの鉱化作用が優勢と推定される。
- ・ 本年次の地質調査及びウズベク側のトレンチ調査の結果では、ベシュブラク、タオリャン、シュール金鉱徴地はいずれも金品位が低い。

(4) 鉱化作用

- ・ マオリャン鉱徴地で採取された含金石英脈には黄鉄鉱、針鉄鉱、燐鉄鉱、硫砒鉄鉱、黄銅鉱、閃亜鉛鉱等の鉱石鉱物を伴い、金はエレクトラムとして産する。この共存鉱物は本地区西方の同じアクタウ鉱化帯に位置するピタブ金鉱徴地と同様である。
- ・ 鉱化帯での流体包有物均質化温度は主に 250°C~370°C の温度範囲を示し、金品位が 1.2-2.0g/t を示した石英試料の均質化温度は 221°C~281°C と一般的な金の生成温度 (100°C~250°C) に比べて高い。
- ・ マオリャン地域の含金石英脈は、アクタウ花崗岩類の分布、周辺鉱徴の特徴、ボーリング結果及び均質化温度から、高温環境で、ペグマタイト型鉱化作用の近辺での形成と考えられ、高品位・大規模な金の濃集場としての条件に乏しいと推定される。

第2章 第3年次への提言

1) アルティンサイ地区

- (1) ウズベク側の脈沿いトレンチ (No.40) で確認された北西脈 (No.8 脈) 鉍体 (確認延長:32m, 脈幅:1.35m, 金品位:8.1g/t) は坑内の No.1 脈富鉍部に類似した塊状石英脈である。また, No.1 脈, No.2 脈に比べ露頭の標高 (海拔 860m) が高く, 浸食による鉍体の削剥が進んでいない可能性があり, 下部への連続が期待できる。トレンチ~東側旧坑跡との間 230m と西側延長部の鉍化状況を確認するためにボーリング探鉍を実施することが望ましい。

2) マオリャン地区

- (1) No.1 鉍化帯及び No.2 鉍化帯は, ウズベク側の自主ボーリング探鉍の結果, 地表下 16-90m まで鉍化作用が連続していることが確認された。とくに No.1 鉍化帯は, トレンチによって延長 1,700m 以上にわたって連続することが確認されており, 東方 3km に位置するベシュブラク鉍徴地へ連続すると推定される。ウズベク側がトレンチ及びボーリングで確認した鉍体の東延長部の主として地表下 100m までの鉍化状況を確認するためにボーリング調査を実施することが望ましい。
- (2) No.3 鉍化帯の下部については未探鉍であり, ウズベク側が K-45 トレンチで確認した鉍脈 (幅:1.0m, 金品位:6.8g/t) の下部の鉍化状況を確認するためにボーリング調査を実施することが望ましい。

Collected Data

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2. Chernjavsky, Yu. A. (1961) : Report of the Lyangar exploration in 1960 and copper ore reserves estimation, Samarkandgeology, 154p.
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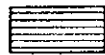

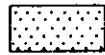
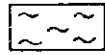


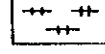

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APPENDICES

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/t), Ag(g/t), As(%)

LAB TEST $\frac{BA\ 11 - 1}{F \cdot T \cdot P \cdot X}$ ----- Laboratory Test $\frac{Sample\ No.}{Samples}$

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 |
| blk | black | tor | tourmaline |
| dk | dark | py | pyrite |
| diss | disseminate | | |
| frac | fracture | int | interval |
| silic | silicified | w | width |

GEOLOGIC CORE LOG OF MJSN-11 (1/6)

1/200

MJSN-11 (1/6) 0 m ~ 50 m

Level 799.00m
 X 60.81925m Direction N10°E
 Y 54.32415m Inclination -75°
 Length 280.10m

LITHO-LOGGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0-11.80m sand w/ pebbles						
	2	0-15.00m 76mm						
	4							
	6							
	8							
	10							
	11.80	11.80-15.00m dk grey silic. ss w/ few gz, limo vls (w=0.1-0.3cm, 5-10um)						
	2							
	4							
	6	16.00-16.80m frac. zone						
	8							
	20							
	22.20	22.3m gz, limo, chl v(w=1cm, 5°)	22.20					
	4		26.40	BA-1101	0.1	3.6	0.02	
	6	26.4-27.0m frac. zone						
	8							
	29.20	29.20-30.00m grey-white str. silic rock w/ gz v.	29.20					
	30.00	30.00-32.00 grey silic. ss w/ gz, tor, py, limo v & vls (w=0.1-2cm, int=2-5cm)	30.00	1102	0.1	tr	0.02	
	32.00	32.00-38.30m few gz, py, tor vls	32.00	1103	tr	tr	0.02	
	4		37.80	1104	0.1	tr	0.02	
	6	33.8-35.40m grey silic. ss w/ gz, tor, py, vls (w=0.1-0.3cm, int=5-10cm)	35.40	1105	0.2	2.4	0.02	
	8							
	38.50	38.50-43.30m grey silic. ss w/ gz, tor, py, limo v & vls (w=0.1-0.8cm, int=2-5cm)	38.50					
	40.50	40.50m gz, py, limo v (w=1cm, 35°)	40.50	1106	tr	3.2	0.02	
	41.8	41.8-42.2m frac. zone	41.8	1107	tr	tr	0.01	
	42.90	42.90m gz, py, limo v. (w=2cm, 60°)	42.90	1108	0.1	tr	0.01	
	43.30	43.30-45.50m grey silic. ss w/ few gz, tor, py, limo vls	43.30	1109	0.2	tr	0.01	
	44.40	44.40-45.00m frac. zone						
	45.50	45.50-47.70m grey silic. ss w/ gz, tor, py, limo vls (w=0.1-0.5cm, int=3-5cm)	45.50					
	45.50	45.50-46.00m frac. zone w/ gz, tor, py vls	46.00	1110	tr	tr	0.01	
	47.70	47.70-48.90m frac. zone w/ gz, py, limo vls	47.70	1111	tr	tr	0.02	
	48.90	48.90-51.10m grey silic. ss w/ gz, py, limo v. vly (w=1-3cm, int=2-5cm)	48.90	1112	tr	tr	0.02	
	50			1113	0.1	tr	0.03	

GEOLOGIC CORE LOG OF MJSN-11 (3/6)

1/200

MJSN-11 (3/6) 100 m ~ 150 m

Level 799.00 m Direction N10°E
 X 60,819.95 m Inclination -75°
 Y 54,384.15 m Length 280.10 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	100	101.80-103.30 m str. g ₂ , tor, py, asp v. & vls	101.80	1148	0.1	tr	0.01	
	2	101.80-102.20 m g ₂ , tor, py, asp v.	102.20	1149	1.2	1.2	0.38	102.60 BA11-1
	4	103.50 m g ₂ , tor, py, asp v. (w=1cm, 30°) 103.70 m g ₂ , tor, py, asp v. (w=2cm, 40°)	103.30	1150	0.4	tr	0.06	(P) X
	6	104.00-104.50 m frac. zone w/g ₂ 104.50-105.60 m dk grey v.f. ss w/few g ₂ , tor, py vls	104.50	1151	0.8	1.8	0.10	
	8	105.60-106.80 m frac. zone w/g ₂ , tor vls 106.80-108.40 m dk grey silic. v.f. ss w/g ₂ , tor, py, asp v. & vls. (w=0.1-0.5cm, Int=1-3cm)	106.80	1152	0.8	tr	0.06	
	10	107.90 m g ₂ , tor v. (w=3cm, 45°)	108.40	1154	0.4	4.8	0.01	
	12	108.40-109.80 m dk grey silic. v.f. ss w/few g ₂ , tor vls	109.80	1155	0.9	tr	0.02	
	14	109.80-111.40 m frac. zone w/g ₂ , tor vls 111.40-115.00 m grey str. silic. ss w/g ₂ , py vls (w=0.1-0.7cm, Int=0.3-2cm)	111.40	1156	0.3	tr	0.01	
	16	112.10-112.90 m frac. zone w/g ₂ , tor. vls.	112.90	1157	0.3	2.8	0.02	
	18	113.70-115.00 m g ₂ , tor, py, asp v.	113.70	1158	0.1	2.4	0.01	
	20	115.00-117.20 m dk grey silic. v.f. ss w/g ₂ , tor, asp v. & vls (w=0.1-1.0cm, Int=5-10cm)	115.00	1159	tr	tr	0.01	
	22	117.20-117.80 m g ₂ , py, asp v.	117.80	1160	tr	3.4	0.08	115.70 P, X
	24	117.80-118.80 m dk grey silic. v.f. ss w/few g ₂ , tor vls.	117.80	1161	0.1	2.8	0.01	117.30 BA11-2
	26	118.80-120.80 m frac. zone w/g ₂	118.80	1162	0.4	2.8	0.02	(T) X
	28	119.70-120.60 m grey str. silic. rock w/g ₂ , py, tor network	119.70	1163	tr	7.6	0.02	
	30	119.70-120.60 m grey silic. v.f. ss w/few g ₂ , py vls	119.70	1164	0.4	tr	0.01	
	32	120.60-126.70 m grey silic. f. ss w/g ₂ , tor, py v. & vls (w=0.1-2cm, Int=0.5-3cm, partly net-work)	120.60	1165	tr	4.6	0.02	
	34	123.00-123.60 m frac. zone w/g ₂ , tor, py v. & vls	123.60	1166	tr	1.8	0.02	
	36	123.60-124.70 m g ₂ , py, asp v. (w=3cm, 15°)	123.60	1167	tr	2.8	0.02	
	38	124.70-125.80 m g ₂ , py, asp v. (w=3cm, 50°)	124.70	1168	0.1	1.8	0.02	
	40	125.80-126.70 m few g ₂ , tor, py vls	125.80	1169	0.6	tr	0.06	
	42	126.70-128.20 m frac. zone	126.70	1170	1.6	4.2	0.05	
	44	127.50-130.10 m grey silic. ss w/g ₂ , tor, py, asp v. & vls (w=0.1-2cm, Int=1-3cm)	127.50	1171	0.8	tr	0.02	
	46	128.20-133.70 m grey silic. ss w/g ₂ , tor, py, asp v. & vls (w=0.1-0.5cm, Int=2-5cm)	128.20	1172	0.4	tr	0.03	
	48	133.70-136.10 m light grey str. silic. ss w/g ₂ , tor, py, asp v. & vls (w=0.1-3cm, Int=1-3cm, partly network)	130.10	1173	0.4	1.8	0.01	
	50	136.10-137.20 m g ₂ , tor, py v. (w=3cm, 20°)	131.60	1174	tr	1.8	0.04	
	52	137.20-140.60 m frac. zone w/g ₂ , tor, py vls	132.60	1175	1.0	1.4	0.11	
	54	140.60-142.50 m g ₂ , tor, chl, py v. (w=2cm, 35°)	133.70	1176	0.8	3.2	0.15	
	56	142.50-144.50 m str g ₂ , tor, py, asp v. & vls (network)	134.90	1177	0.6	1.2	0.04	
	58	144.50-147.00 m frac. zone w/g ₂ , tor, py vls	136.10	1178	0.4	1.6	0.01	
	60	147.00-148.30 m " " " "	137.20	1179	0.4	tr	0.06	
	62	148.30-149.30 m " " " "	138.70	1180	0.6	tr	0.06	
	64		140.60	1181	tr	3.6	0.02	
	66		141.50	1182	0.2	2.8	0.02	
	68		142.50	1183	0.8	tr	0.02	
	70		143.50	1184	0.2	2.8	0.08	
	72		144.60	1185	0.1	1.6	0.04	
	74		145.90	1186	tr	3.6	0.02	
	76		147.00	1187	1.2	2.6	0.12	
	78		147.90	1188	0.6	3.4	0.07	
	80		148.30	1189	tr	2.8	0.02	
	82		149.60	1190	0.6	1.8	<0.01	

GEOLOGIC CORE LOG OF MJSN-11 (4/6)

1/200

MJSN-11 (4/6) 150 m ~ 200 m

Level 799.00 m Direction N10°E
 X 60,819.95 m Inclination -75°
 Y 54,384.15 m Length 280.10 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	150.00	151.60m g ₂ , tor, py, asp v (w=2cm, 35°)	151.60	BA-1190	0.6	1.8	<0.01	
	152.40	152.40~153.60m grey silic. ss w/ few g ₂ , tor, py vls (w=0.1-0.3cm, Int=3-5cm)	152.40	1191	0.4	1.6	0.05	
	154.00		154.00	1192	tr	2.8	0.02	
	155.60	155.60-160.00m grey silic. ss w/g ₂ , tor, py vls (w=0.1-1cm, Int=2-8cm)	155.60	1193	tr	tr	<0.01	
	157.00		157.00	1194	tr	2.8	<0.01	
	158.70	157.40m g ₂ , tor, py, chl v (w=1cm, 60°)	158.70	1195	0.2	tr	<0.01	
	160.00	158.70-162.80m frac zone w/g ₂ vls	160.00	1196	0.8	tr	0.09	
	162.40	160.00-163.4m dk grey sl w/ few g ₂ , tor, vls						
	163.40	163.40-165.30m grey silic ss w/g ₂ , tor, py vls (w=0.1-0.5cm, Int=3-10cm)	163.40					
	164.10	163.40-164.10m frac. zone w/g ₂ vls.						
	165.30	165.30-168.80m grey silic. ss w/ few g ₂ , tor vls	165.30	1197	0.4	1.4	0.03	
	166.70	166.70-167.20m frac. zone						
	168.80	168.80-173.90m grey silic. ss w/g ₂ , tor, py, asp v. & vls (w=0.1-2cm, Int=1-3cm)	168.80					
	169.40	168.80-169.40m frac zone w/g ₂ , tor vls	170.00	1198	tr	tr	0.04	
	170.00	170.00-172.00m frac zone w/g ₂ , tor vls	171.30	1199	0.2	1.8	<0.01	
	170.70	170.70m g ₂ , tor, py v (w=1cm, 40°)	172.50	11100	0.2	1.8	<0.01	
	173.80	173.80m g ₂ , tor, py v (w=2cm, 20°)	173.90	11101	tr	3.4	0.02	
	173.90	173.90-176.20m silic. ss w/ few g ₂ , tor, vls						
	175.70	175.70cm g ₂ , tor, py, asp v (w=3cm)						
	176.20	176.20-177.30cm dk grey frac. sl.	177.30					
	177.30	177.30-180.00m frac. silic. ss w/g ₂ , tor, py vls	178.50	11102	tr	1.8	<0.01	
	180.00	180.00-185.10m grey silic. ss w/g ₂ , tor, py v. & vls (w=0.1-0.5cm, Int=1-5cm)	180.00	11103	tr	3.2	<0.01	
	181.20		181.20	11104	0.6	tr	0.01	
	182.60		182.60	11105	0.6	2.8	0.02	
	185.80		185.80	11106	0.2	2.6	0.02	
	185.10	185.10-191.30m dk grey silic. sl. w/g ₂ , tor, py vls (w=0.1-0.5cm, Int=1-2cm)	185.10	11107	tr	1.8	0.02	
	186.70		186.70	11108	tr	1.8	0.02	
	187.40	187.00-187.40m frac. zone w/g ₂ vls	188.50	11109	tr	3.4	0.03	
	191.30	191.30-192.70m dk grey silic. ss	190.00	11110	tr	tr	0.03	
	192.70	192.70-195.60m dk grey silic. ss w/g ₂ , tor, py vls (w=0.1-1cm, Int=1-5cm)	191.30	11111	tr	1.8	0.02	
	193.10	193.10m g ₂ , tor, py v (w=2cm, 30°)	192.70					
	195.60	195.60-199.40m grey silic. sl w/ few g ₂ vls	194.30	11112	0.6	2.8	0.04	
	197.80	197.80m g ₂ , tor v (w=1cm, 27°)	195.60	11113	tr	tr	0.03	
	199.40	199.40-214.20m dk grey silic. vf. ss w/ few g ₂ , tor vls						

GEOLOGIC CORE LOG OF MJSN-11 (5/6)

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MJSN-11 (5/6) 200 m ~ 250 m

Level 799.00 m Direction N10°E
 X 60,819.95m Inclination -95°
 Y 54,384.15m Length 280.10 m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	200							
	2							
	4							
	6	206.0-206.8m frac. zone						
	8							
	210	209.10-210.50m grey silic. vf. ss w/gz, tor, py vls (w=0.1-0.5cm, Int=1-5cm)	209.10					
			210.50	BA-1114	tr	tr	0.03	
	2							
	4	214.20-223.50m grey silic. vf. ss w/gz, tor, py v & vls (w=0.1-1cm, Int=1-5cm)	214.20					
	6		215.40	1115	tr	1.8	0.03	
	8	217.00m gz, py, tor, chl v (w=1cm, 30°)	216.80	1116	tr	1.2	0.02	
	220	218.40-219.80m str. gz, tor, py, asp v & vls (w=0.1-4cm, network)	218.40	1117	tr	1.8	0.02	
			219.80	1118	tr	3.8	0.03	
	2	222.80m gz, tor, py v (w=1cm, 20°)	221.20	1119	tr	3.6	0.12	
	4	223.50-224.70m grey silic. ss w/gz, tor, py, limo v. vls (w=0.1-2cm, network)	222.70	1120	tr	2.8	0.04	
	6	224.70-227.20m gz, tor, py v & vls (w=0.1-1.8cm, Int=1-5cm)	223.50	1121	tr	3.7	0.01	
	8	225.20-225.70m frac. zone w/gz vls (w=0.1-1.8cm, Int=1-5cm)	224.70	1122	tr	tr	0.02	
	230	226.30m gz, tor v (w=1.8cm, 30°)	225.80	1123	tr	1.6	0.01	
		227.20-228.80m str. silic. ss w/gz, tot. chl, py v. & vls (w=0.1-0.5cm, network)	227.20	1124	tr	tr	0.01	
	2	228.80-229.50m frac. zone w/gz vls	228.80	1125	0.2	3.6	0.01	
	4	229.50-232.00m grey silic. ss w/gz, tor, py vls (w=0.1-0.5cm, Int=1-2cm, partly network)	229.80					
	6	232.00-233.70m grey silic. ss	231.00	1126	tr	tr	0.01	
	8	233.70-237.30m grey silic. ss w/gz, tor, py v & vls (w=0.1-2cm, Int=1-10cm)	232.00	1127	tr	tr	0.01	
	240	234.40m gz, tor, py v (w=2cm, 25°)	233.70					
			235.00	1128	1.2	4.8	0.05	
	2		236.00	1129	tr	2.4	0.02	
	4		237.30	1130	0.1	tr	0.01	
	6	237.30-239.30m grey silic. ss w/str gz, tor, py, asp v & vls (w=0.1-1cm, network)	237.30	1131	0.2	tr	0.02	
	8	239.30-240.40m grey silic. ss w/gz, tor, py v & vls (w=0.1-0.8cm, Int=0.5-3cm, partly network)	239.30	1132	0.3	tr	0.02	(P) (B) (X) BA11-3
	240	240.40-242.80m str. silic. rock w/gz, tor, py vls	240.40	1133	tr	2.4	0.01	
	2	242.80-243.70m grey silic. ss w/gz, tor, py vls (w=0.1-0.5cm, Int=1-5cm)	241.80	1134	0.1	tr	0.02	
	4	244.70-244.50m gz, tor, py v (30°)	242.80	1135	0.2	tr	0.02	242.50 R.K.
	6	244.5-247.00m grey silic. ss w/gz, tor, py vls (w=0.1-0.8cm, Int=1-3cm, partly network)	244.70	1136	0.2	1.2	0.01	
	8	247.00-248.50m dk grey silic. sl w/few gz, tor vls	245.60	1137	0.1	tr	0.02	
	250	248.40-250.50m grey silic. ss w/gz, tor, py vls (w=0.1-0.5cm, Int=0.5-3cm, partly network)	247.00	1138	3.0	tr	0.01	
			248.40	1139	0.2	tr	0.01	
			249.40	1140	tr	tr	0.01	
				1141	0.1	tr	0.01	

GEOLOGIC CORE LOG OF MJSN-11 (6/6)

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MJSN-11 (6/6) 250 m ~ 280.1 m

Level 799.00 m Direction N10°E
 X 60,819.95 m Inclination -75°
 Y 54,384.15 m Length 280.10 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	250.50	250.50 - 251.80 m frac zone w/few gz, tor, py vls	250.50	BA-11141	0.7	tr	0.01	
	251.80	251.80 - 253.00 grey silic. ss w/few gz tor, py vls	251.80	11142	0.1	tr	0.01	
	252.80	252.80 - 253.60 m frac zone	253.00	11143	0.1	tr	0.02	
	254.60	254.60 - 255.60 m frac zone						
	256.20	256.20 - 261.30 m frac zone w/few gz, py vls	256.20					
	258.50		258.50	11144	tr	1.8	<0.01	
	261.30		261.30	11145	tr	tr	0.02	
	263.10	262.00 - 263.10 m frac zone w/few gz vls	263.10	11146	tr	tr	<0.01	
	264.70	263.20 - 264.70 m frac zone						
	266.20	265.70 - 266.20 m frac zone						
	267.70	266.40 - 267.70 m frac zone						
	269.40	268.00 - 269.40 m frac zone						
	269.20	269.20 - 273.00 m grey silic. ss w/few gz, tor vls (w=0.1-0.3 cm, Int=1-5 cm)	269.20					
	271.00	269.60 - 270.80 m frac zone	271.00	11147	0.2	tr	<0.01	
	273.00	271.50 - 273.00 m frac. zone	273.00	11148	0.1	1.6	0.04	
	273.40	273.00 - 273.40 m grey silic. ss						
	276.80	273.40 - 276.80 m frac. zone w/few gz, tor vls	275.00	11149	0.1	tr	<0.01	
	279.40	276.80 - 279.40 m grey silic. ss w/few gz vls (w=0.1-0.3 cm, Int=1-3 cm)	276.80	11150	0.1	1.8	0.01	
	278.00		278.00	11151	0.4	tr	0.01	
	279.40		279.40	11152	0.3	1.8	0.01	
	280.10	280.10 m Bottom of the hole						

GEOLOGIC CORE LOG OF MJSN-12 (1/5)

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MJSN-12 (1/5) 0 m ~ 50 m

Level 788.79m
 X 60.89630m Direction 510°W
 Y 54.57877m Inclination -75°
 Length 220.00m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0-1.50	0-5.0m 76mm 0-1.5m sand w/pebbles						
	1.50-6.50	1.5-6.5m dk grey silic ss (hor) w/few gz, py limo vls (w=0.1-0.3cm, int=5-10cm)						
	6.50-8.10	5.0m → 59mm 6.5-11.2m grey silic. ss (hor) w/ gz, py, limo vls (w=0.1-0.3cm, int=5-10cm)	6.50					
	8.10-8.40	7.4-8.1m frac. zone	8.10	BA-1201	0.1	tr	0.02	
	8.40-9.70	8.4-9.7m frac. zone	9.70	1202	tr	tr	0.02	
	10.8-11.20	10.8-11.20m frac. zone	11.20	1203	0.8	tr	0.03	
	11.20-17.30	11.20-17.30m grey silic. ss (hor) w/few gz, py vls 12.20 j w/limo, 40°						
	17.30-18.20	16.80m j w/limo, 20°	17.30					
	18.20-19.40	17.30-20.70m grey silic ss w/gz, py, tor, limo vls 18.20-19.40m str. silic. rock w/gz, py, limo (w=1-3cm)	18.20	1204	0.1	tr	0.02	
	20.70-23.90	20.40m gz (w=0.3cm, 60°) 20.70-27.00m grey silic ss w/few gz, tor, py vls	19.40	1205	tr	tr	0.03	19.10 T.X
	23.90-27.00	23.90-24.30m gz, tor, py v (w=2-4cm)	20.70	1206	0.1	tr	0.02	
	27.00-29.00	27.0-29.0m grey silic. ss w/gz, tor, py vls (w=0.1-2.0cm, int=5-10cm)	23.90	1207	1.2	tr	0.03	
	29.00-30.0	27.0m gz, py, tor v. (w=1cm, 40°)	24.30					
	30.0-34.60	30.0-34.60m grey silic. ss w/gz, tor, py, limo v & vls (w=0.1-0.3cm, int=10-20cm)	27.00	1208	2.0	tr	0.02	
	34.60-36.80	34.60-36.80m grey silic. ss w/gz, py, tor, chl, limo v. vls (w=0.1-2cm, int=5-10cm, partly network)	29.00	1209	0.1	2.8	0.02	
	36.80-37.05	36.80-37.05m brownish grey phy w/gz, py v & vls	30.00	1210	0.1	2.8	0.02	
	37.05-41.20	37.05-41.20m brownish grey phy w/few gz vls	31.20	1211	0.1	3.2	0.03	
	40.20-40.70	40.20-40.70m frac. zone	32.20	1212	tr	3.6	0.02	
	40.70-41.20	40.20m py, limo v (w=0.4cm, 45°)	33.60	1213	tr	1.2	0.02	
	41.20-47.20	41.20-47.20m grey silic. ss w/gz, py, tor, limo vls (w=0.1-1.0cm, int=2-5cm)	34.60	1214	tr	tr	0.01	
	47.20-47.90	47.20-47.90m brownish grey phy w/gz, py, limo vls	36.00	1215	0.2	tr	0.01	35.20 F
	47.90-50.0	47.9-50.0m grey silic. ss w/few gz, py, tor	37.05	1216	0.1	tr	0.01	37.30 T.X
			40.20					
			41.20	1217	0.4	tr	0.03	
			42.70	1218	0.6	tr	0.02	
			44.20	1219	tr	tr	0.01	
			45.80	1220	tr	3.6	0.01	
			47.20	1221	tr	tr	0.01	

GEOLOGIC CORE LOG OF MJSN-12 (2/5)

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MJSN-12 (2/5) 50 m ~ 100 m

Level 788.79 m Direction S 10° W
 X 60, 894.30 m Inclination -75°
 Y 54, 518.79 m Length 220.00 m

LITHOLOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
+ #	50	52.00-59.00m grey silic ss w/gz, py, limo vls (w=0.1-0.5cm, int=5-10cm)	50.00	BA-1222	0.4	1.2	0.01	0
			51.00		1.4	tr	0.02	
+ #	2		52.00	1223	0.1	tr	0.01	2
			53.00	1224	0.4	tr	0.01	
+ #	4		54.30	1225	0.4	tr	0.01	4
			55.20	1226	0.4	tr	0.02	
+ #	6	56.60-59.00m whitish grey str. silic. ss w/gz, py, limo vls	56.30	1227	0.4	tr	0.02	6
			57.70	1228	0.1	tr	0.01	
+ #	8	59.00-64.60m grey silic ss w/few gz, py, limo vls	59.00	1229	0.4	tr	0.02	8
+ #	60						0	
+ #	2						2	
+ #	4	63.8m gz, tor, py v (w=1cm, 40°) 64.6-66.20m whitish grey str. silic ss w/gz, tor, py, limo v, vls	63.80				4	
			64.60					
+ #	6	65.40m gz - tor v (w=1.5cm, 25°) 66.20-66.70m str. silic rock w/gz, tor, py v	65.40	1230	0.3	tr	0.06	6
			66.10	1231	0.1	tr	0.03	
+ #	8	66.7-71.20m grey silic ss w/gz, tor, py v & vls (w=0.1-1.0cm, int=2-5cm)	66.70	1232	4.6	1.8	0.05	6
			68.20	1233	0.1	tr	0.04	
+ #	70	69.4-68.9m frac. zone partly netiooric	69.40	1234	0.4	tr	0.01	8
			69.90					
+ #	2	71.20-72.00m few gz, py, tor vls	71.20	1235	0.5	tr	0.01	0
			72.00	1236	0.2	tr	0.03	
+ #	4	72.00-76.90m grey silic. ss w/gz, tor, py 72.3m gz v (w=4cm, 40°) asp vls 74.3m gz v (w=1cm, 5°) (w=0.1-2cm, int=2-5cm)	72.00	1237	0.1	tr	0.02	2
			72.30	1238	0.5	3.6	0.01	
+ #	6	75.6m gz v (w=2cm, 10°)	75.60	1239	tr	tr	0.04	6
			76.90	1240	0.6	tr	0.01	
+ #	8	76.90-81.10m grey silic. ss w/few gz, tor. vls					8	
+ #	80	78.3-78.8m frac. zone					0	
+ #	2	81.10-81.90m grey silic. ss w/gz, tor, py vls (w=0.1-1.0cm, int=2-3cm)	81.10				2	
			81.90	1241	0.4	4.2		0.03
+ #	4						4	
+ #	6	86.20-90.90m frac. zone 87.00-92.10m blk massive sl w/py.					6	
+ #	8						8	
+ #	90	92.10-93.80m grey silic. ss w/gz, tor, py vls (w=0.1-0.5cm, int=5-10cm)					0	
+ #	2	92.15m, gz, tor, py v. (w=0.5cm, 35°)	92.10				2	
			92.20					
+ #	4	92.55-92.8m blk sl 93.80-95.80m silic. ss w/few gz, tor, py vls	92.50	1242	0.2	4.4	0.02	4
			92.80	1243	tr	tr	0.02	
+ #	6	94.8-95.4m frac. zone 95.8-97.40m gz, py, tor, (asp) v	94.80	1244	0.1	4.4	0.02	6
			95.80	1245	0.1	1.8	0.02	
+ #	8	97.40-100.60m grey silic. ss w/gz, py limo (asp) v & vls (w=0.1-3cm, int=3-6cm)	97.40	1246	0.1	tr	0.03	8
			98.40	1247	1.4	tr	0.03	
+ #	100	99.00m gz, tor, asp v (w=3cm, 15°)	99.00	1248	tr	tr	0.03	0
				1249	1.6	tr	0.02	

GEOLOGIC CORE LOG OF MJSN-12 (3/5)

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MJSN-12 (3/5) 100 m ~ 150 m

Level 788.79 m Direction S10°W
 X 60,899.30m Inclination -75°
 Y 54,518.99m Length 220.00 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	100.60	100.60-101.80m	100.60	BA1-1249				0
		blk sl w/ss bands, w/gz, tor, py, li mo v & vls (w=0.1-1.5cm, int=2-5cm)	101.90	1250	tr	tr	0.02	
			102.90	1251	tr	1.8	0.02	2
			103.90	1252	0.1	tr	0.01	
		104.30m gz, tor, py v (w=2cm, 25°)	104.90	1253	0.2	tr	0.09	4
		104.80-105.50m blk sl w/ss bands	105.90	1254	tr	tr	0.02	
		105.50-105.90m frac. zone	106.60	1255	0.2	tr	0.03	6
		105.90-106.60m whitish gray str. silic. ss w/gz, py, tor vls	107.90	1256	0.2	tr	0.01	
		106.60-110.30m gray silic. ss w/gz, tor, py vls	109.30	1257	tr	tr	0.01	8
		108.40m gz, tor v. (w=2cm, 20°) (w=0.1-2cm, int=3-4cm)	110.30	1258	tr	tr	0.01	0
		109.30m gz, py, tor v (w=1cm, 20°)						
		110.30-111.90m blk sl w/ss bands w/few gz vls						
			112.90					2
		111.90-112.20m grey silic. ss						
		112.20-112.70m frac. zone	113.90	1259	0.8	tr	0.01	4
		112.70-115.80m grey silic. ss w/gz, py, tor, li mo v & vls (w=0.1-3cm, int=2-3cm, partly network)	114.90	1260	tr	tr	0.02	
		113.90-114.90m frac. zone	115.80	1261	tr	tr	0.02	6
		115.80-118.60m grey silic. ss w/gz, py, tor, vls (w=0.1-1cm, int=5-10cm)	117.50	1262	0.1	tr	0.01	
		118.30-118.50m gz, py, tor, asp v (25°)	118.60	1263	1.2	tr	0.10	8
		118.60-123.30m dk grey ss w/few gz, py, tor vls						0
			123.30					2
		123.30-124.30m grey silic. ss w/gz, tor v & vls (w=0.1-3, int=3-7cm)	124.00					4
		124.0-124.30m gz, tor, py asp v (5-10°)	124.30	1264	1.6	tr	0.14	BA12-3
		124.3-126.7m grey ss w/few gz, py, chl, tor v & vls	125.40	1265	4.8	tr	0.04	Pix
		126.7-130.6m greenish grey silic. ss w/gz, py, tor, chl v & vls (w=0.1-2cm, int=1-3cm)	126.70	1266	0.8	tr	0.01	6
		128.0-128.4m frac. zone	129.90	1267	0.1	tr	0.05	8
		129.0-133.5m frac. zone	129.90	1268	tr	1.8	0.01	
		130.60-135.50m grey silic. ss w/gz, py, tor vls (w=0.1-0.3cm, int=5-10cm)	130.60	1269	tr	tr	0.01	0
			132.00	1270	0.1	tr	0.01	2
			133.50	1271	tr	1.8	0.02	4
		135.5-136.90m green-grey str. silic. rock w/gz, py, tor, chl, asp v & vls (partly network)	135.50	1272	0.3	1.6	0.02	6
			136.90	1273	0.7	1.2	0.10	8
		136.50-140.70m grey silic. ss w/gz, py, tor, chl v & vls	138.00	1274	0.8	tr	0.02	Pix
		138.20m gz, py v (w=1cm, 25°) (w=0.1-1cm, int=2-3cm)	139.50	1275	1.0	tr	0.06	0
		138.30-138.80m frac. zone	140.70	1276	0.2	tr	0.02	2
		140.70-142.0m green-grey str. silic. rock w/gz, tor, py, asp v & vls (network gz)	142.00	1277	0.8	tr	0.14	4
		142.0-145.50m green-grey silic. ss w/gz, tor, py, chl v & vls (w=0.1-3cm, int=2-5cm)	143.20	1278	0.1	tr	0.04	6
		143.2m gz, tor v (w=3cm, 22°)	144.50	1279	0.1	tr	0.03	8
		145.5-147.1m green-grey silic. ss w/gz, tor, py, chl v & vls (w=0.1-3cm, int=1-3cm)	145.50	1280	0.4	tr	0.14	0
		145.5m gz, tor v. (w=1cm, 2°)	147.10	1281	0.1	tr	0.05	2
		147.10-148.70m grey silic. ss w/gz, tor, py, asp vls (w=0.1-5cm, int=1-3cm, partly network)	148.70	1282	0.8	tr	0.16	4
		148.70-164.70m grey silic. ss w/gz, tor, py vls (w=0.1-1cm, int=3-10cm)		1283	0.1	tr	0.02	6
								8
								0

GEOLOGIC CORE LOG OF MJSN-12 (4/5)

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MJSN-12 (4/5) 150m ~ 200m

Level 788.77m
 X 60, 84.70m Direction 910°W
 Y 54, 518.99m Inclination -75°
 Length 220.00m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
[Lithology symbols]	150	grey silic. ss w/ g2, py, tor. vls (w=0.1-0.5cm, Int=3-10cm)	150.10	BA-1284	0.1	tr	0.01	0
	151.30							
[Lithology symbols]	2	153.4-154.5m grey alt (ss) sl	152.50	1285	tr	2.4	0.01	2
	153.40		1286	tr	tr	0.11		
[Lithology symbols]	4	154.90-155.60m g2, tor, py v.	154.90	1287	0.3	tr	0.20	4
	154.90		1288	1.2	tr	0.02		
[Lithology symbols]	6	158.50m tor. g2 v (w=3cm, 50°) 159.00m g2, tor v (w=1cm, 20°)	156.70	1289	tr	tr	0.02	6
	157.60		1290	1.4	tr	0.02		
[Lithology symbols]	8	160.40-161.30m g2, tor, chl v (w=2cm, 20°) 160.40-162.30m grey silic ss w/ str. g2, tor, py, asp v. & vls	158.20	1291	0.1	tr	0.04	8
	160.40		1292	0.8	tr	0.01		
[Lithology symbols]	160	164.70-166.30m grey silic ss w/ few g2, py, tor, vls 166.30m g2, tor, asp v (w=3cm, 30°) 166.60m g2, tor, py v (w=2cm, 20°)	161.30	1293	tr	1.8	0.01	0
	162.30		1294	tr	tr	0.09		
[Lithology symbols]	2	166.30-169.30m grey silic. ss w/ g2, py, tor, v & vls (w=0.1-3cm, Int=5-15cm)	162.30	1295	0.6	tr	0.02	2
	163.50		1296	0.4	tr	0.01		
[Lithology symbols]	4	169.30m g2, tor, py v (w=1cm, 30°)	164.70	1297	0.4	4.8	0.04	4
	166.30		1298	0.1	tr	0.01		
[Lithology symbols]	6	175.40-176.70m grey silic ss w/ g2, tor, py, asp vls (w=0.1-0.3cm Int=3-7cm)	169.30					6
	175.40							
[Lithology symbols]	8	176.70-180.30m grey silic. ss w/ str. tor, py, g2, asp vls (w=0.1-2cm, Int=1-3cm, partly network)	176.70	1299	tr	tr	0.02	8
	176.70		12100	tr	2.4	0.01		
[Lithology symbols]	180	180.30m g2, py v (w=4cm, 50°) 182.00-185.20m grey silic. ss w/ few g2, tor, asp vls	179.00	12101	tr	1.8	0.04	0
	179.00		12102	tr	4.4	0.01		
[Lithology symbols]	2	185.20-187.90m grey silic. ss	180.30	12103	tr	tr	0.01	2
	182.00		12104	tr	2.4	0.01		
[Lithology symbols]	4	187.90-189.30m frac. zone 188.90-189.70m grey silic. ss w/ g2, tor, py, vls	183.50	12105	tr	tr	<0.01	4
	185.20		12106	tr	2.8	<0.01		
[Lithology symbols]	6	189.70-191.90m frac. zone 193.50-194.10m frac. zone	187.90					6
	189.70							
[Lithology symbols]	8	196.20m g2, py tor v (w=0.5cm, 20°) 196.50m g2, py, asp v (w=0.5-1cm, 15°)	189.70	12107	tr	1.8	0.08	8
	189.70							
[Lithology symbols]	190	196.50m g2, py, asp v (w=0.5-1cm, 15°) 198.00-198.70m frac. zone	191.90					0
	192.90							
[Lithology symbols]	2	198.00-199.30m silic. ss w/ few g2 vls 199.30m g2, tor, py, asp v (w=2cm, 25°)	196.20					2
	193.50							
[Lithology symbols]	4	199.30m g2, tor, py, asp v (w=2cm, 25°)	196.20					4
	196.20							
[Lithology symbols]	6	199.30m g2, tor, py, asp v (w=2cm, 25°)	196.20	12108	tr	1.6	<0.01	6
	196.20							
[Lithology symbols]	8	199.30m g2, tor, py, asp v (w=2cm, 25°)	198.00					8
	198.00							
[Lithology symbols]	200	199.30m g2, tor, py, asp v (w=2cm, 25°)	199.30	12109				0
	199.30							

GEOLOGIC CORE LOG OF MJSN-12 (5/5)

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MJSN-12 (5/5) 200 m ~ 220 m

Level 788.79 m Direction S10°W
 X 60,844.30 m Inclination -75°
 Y 54,578.99 m Length 220.00 m

LITHO LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
+ / +	200.90	200.9-202.00m grey silic. ss w/ g ₂ , py, tor vls (w=0.1-0.8cm, Int=3-5cm)	200.90	BA-12109	tr	tr	<0.01	
	202.00		12110	tr	1.2	<0.01		
+ / +	202.30	200.0-202.30 m g ₂ , tor, py asp V.	202.00	12111	0.4	2.9	0.01	
	202.30							
+ / +	205.20	204.00m g ₂ , tor, py. v (w=3cm, 40°)	205.20					
	206.90							
+ / +	208.40	205.70-206.90m grey silic. ss w/ few g ₂ , py, tor vls	205.70					
	206.90		12112	tr	7.2	0.10		
+ / +	209.70	208.40-209.70m grey silic. ss w/ g ₂ , py, tor vls (w=0.1-1cm, Int=2-5cm)	208.40					
	209.70		12113	tr	tr	0.01		
+ / +	212.50	209.70-210.40m frac. zone w/ g ₂ , tor, py vls	210.40	12114	tr	1.8	0.01	
	212.50							
+ / +	215.30	212.50-215.30m grey silic. ss w/ g ₂ , py, tor v & vls (w=0.1-1cm, Int=1-5cm)	212.50					
	213.70		12115	1.0	tr	0.02		
+ / +	215.30	215.10m g ₂ , tor v (w=1cm, 25°)	215.30	12116	tr	1.6	0.06	
	220.00	220.00m Bottom of the hole						

GEOLOGIC CORE LOG OF MJSN-13 (1/3)

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MJSN-13 (1/3) 0 m ~ 50 m

Level 188.02 m Direction S80°E
 X 60,769.97 m Inclination -95°
 Y 54,523.67 m Length 728.00 m

LITHO LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0-5.80m Sand w/ pebbles						
	2	0-10.0m; $\phi = 76\mu\text{m}$						
	4	10.0m - ; $\phi = 59\mu\text{m}$						
	5.80	5.80-14.80m grey silic. ss						
	10.00	10.00-11.20m frac. zone						
	11.20							
	11.50	11.50-13.00m frac. zone						
	13.00							
	14.80	14.80-17.80m brownish grey silic ss w/ g ₂ , tor. py vls	14.80					
	16.00	($w = 0.1-0.5\text{cm}$, Int = 1-3cm)	16.00	BA-1301	0.8	tr	0.01	
	17.00		17.00	1302	0.5	3.6	0.01	
	17.80	15.50m g ₂ , tor. py, limo v. ($w = 3\text{cm}$, 15°)	17.80	1303	1.2	3.6	0.01	
	17.80	17.70-19.80m g ₂ , tor. py v						
	19.00	17.80-20.00m brow-grey sl w/ g ₂ , tor. py vls	19.00	1304	0.8	2.8	0.01	
	20.00	20.00-20.10m str. silic. rock w/ abu. g ₂ , tor. py vls	20.00	1305	0.4	tr	0.06	
	20.30	20.30-21.50m frac. zone						
	21.50	21.45-21.50m g ₂ , tor. py v. w/ ss frags.	21.50	1306	0.8	3.8	0.01	21.40 R
	21.50	21.50-23.90m grey silic. ss w/ few g ₂ vls						
	23.90	23.90-26.90m grey silic. ss w/ g ₂ , tor. py, limo vls	23.90					
	25.40	($w = 0.1-0.5\text{cm}$, Int = 2-10cm)	25.40	1307	0.4	3.8	0.01	
	26.90	26.90-31.60m grey silic. ss	26.90	1308	0.4	7.2	0.01	
	31.60	31.60-33.90m grey silic. ss w/ g ₂ , tor. py, limo v. vls	31.60					
	32.60	($w = 0.1-3\text{cm}$, Int = 3-10cm)	32.60	1309	0.4	2.4	0.01	
	33.90	32.6m g ₂ , tor v. ($w = 3\text{cm}$, 20°)						
	34.80	33.90m g ₂ , tor v. ($w = 2\text{cm}$, 30°)	33.90	1310	0.2	tr	0.01	
	35.40	34.80-35.40m frac. zone						
	38.30	38.30-42.50m grey v.f. ss w/ g ₂ , tor. py, limo vls	38.30					
	40.00	($w = 0.1-3\text{cm}$ Int = 3-10cm)	40.00	1311	0.2	tr	0.01	
	41.20	38.30m g ₂ , py. v. ($w = 3\text{cm}$, 45°)	41.20	1312	0.1	tr	0.02	
	42.50	42.20m g ₂ , py v. ($w = 1\text{cm}$, 40°)	42.50	1313	0.4	1.6	0.01	
	46.30	46.30-46.50m silic. ss w/ g ₂ , Tor vls						
	47.70	47.70-51.50m grey silic. ss w/ g ₂ , tor. py, limo vls	47.70					
	49.10	($w = 0.1-2\text{cm}$, Int = 1-5cm)	49.10	1314	0.1	3.8	0.02	
	49.60	49.60m g ₂ , tor. py, chl v. ($w = 2\text{cm}$, 25°)						
	50			1315	tr	2.4	0.01	

GEOLOGIC CORE LOG OF MJSN-13 (2/3)

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MJSN-13 (2/3) 50 m ~ 100 m

Level 788.02m Direction S80°E
 X 60,769.91m Inclination -95°
 Y 57,523.63m Length 128.00 m

LITHO LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	50.00	50.00m g _z , py V (w=2cm, dip?)	50.50	BA1313	tr	2.4	0.01	
	51.50	51.50-53.70m grey silic. ss w/few g _z , limo vls	51.50	1316	0.1	tr	0.03	
	52.50		52.50	1317	0.2	2.6	0.11	
	53.70	53.70-55.00m dk grey sl w/few g _z , limo vls	53.70	1318	tr	4.8	0.03	
	55.00	55.00-57.50m dk grey sl	55.00	1319	0.2	tr	0.07	
	57.50	57.50-58.40m frac. silic. ss w/g _z vls	57.50					
	58.40	58.40-59.60m grey silic. ss w/g _z vls (w=0.1-0.3cm, Int=1-5cm, partly net-work)	58.60	1320	0.1	tr	0.04	
	59.60		59.60	1321	tr	1.4	0.02	
	60.40	59.60-60.40m frac. zone w/g _z , tor, py, asp 60.40-64.20m dk grey silic. sl w/g _z , tor, py, chl, vls (w=0.1-5cm, Int=1-3cm, partly network)	60.40	1322	0.2	2.8	0.04	
	61.80	61.75m g _z , tor, py, chl, asp V. (w=5cm, 30°)	61.80	1323	tr	2.8	0.02	
	63.40	63.25-63.40m g _z , tor, py, chl, asp V (20°)	63.40	1324	0.2	tr	0.02	6170
	65.00	64.20-65.00m grey silic. ss w/g _z , tor, py V & vls (w=0.1-1cm, Int=1-5cm, partly net work)	65.00	1325	0.1	1.8	0.01	6270 P10X
	65.80		65.80					6270
	66.80	65.80-67.80m silic. ss w/g _z , py, vls (w=1-3cm, Int=1-3cm, partly network)	66.80	1326	tr	tr	0.01	
	67.80	67.60m g _z , tor, py V (w=3cm, 35°)	67.80	1327	0.1	2.4	0.01	
	69.00	67.80-70.20m silic. ss w/g _z , tor, py vls (w=0.1-0.5cm, Int=1-5cm)	69.00	1328	tr	2.4	0.04	
	70.20	70.20-81.50m grey silic. ss	70.20	1329	0.4	tr	0.02	
	73.70	73.70m g _z , py V (w=0.8cm, 35°)						
	81.50	81.50-85.00m g _z , tor, py vls (w=0.1-1cm, Int=1-5cm)	81.50					
	82.50	81.90m g _z , tor, py V (w=1cm, 30°)	82.50	1330	0.1	tr	0.05	
	83.50	82.30-83.50m frac. zone w/clay						
	85.00	83.50-85.00m grey sl w/few g _z vls	83.90	1331	tr	tr	0.02	
	86.00	85.00m g _z V (w=0.5cm)	85.00	1332	tr	tr	0.04	
	87.50	87.50-89.10m grey silic. ss w/few g _z , py, tor vls						
	89.10	88.65m g _z , tor, py V (w=1cm, 25°)						
	90.50	89.10-90.50m frac. zone w/few g _z , py, tor vls						
	94.40	94.40-94.70m network g _z , tor, py vls	94.40					
	95.50	95.50m g _z , tor, py, asp V. (w=1cm, 50°)	95.50	1333	0.3	tr	0.02	

GEOLOGIC CORE LOG OF MJSN-13 (3/3)

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MJSN-13 (3/3) 100 m ~ 128 m

Level 788.02 m Direction S 80° E
 X 60,969.97 m Inclination -75°
 Y 54,523.63 m Length 128.00 m

LITHO LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0							
	2	102.40-104.70m grey silic. ss w/ g ₂ , tor, py vls (w=0.1-1cm, Int=1-3cm)	102.40					
	4	104.10m g ₂ , tor, py V (w=3cm, 40°)	104.10	1335	0.1	tr	0.03	
	6							
	8	107.10-111.70m grey ss w/ g ₂ , tor, py vls (w=0.1-0.5cm, Int=1-5cm)	107.10					
	10							
	11							
	12							
	13							
	14	112.80-113.15m g ₂ , tor, py, asp V	112.80					
	15	113.15-114.60m grey silic. ss w/ g ₂ , tor, py vls (w=0.1-1cm, Int=1-5cm)	113.15	1339	2.0	tr	0.16	BA13-3
	16	114.00-114.60m frac zone w/ g ₂ , tor vls	114.60	1340	0.9	tr	0.10	
	17							
	18	116.90m g ₂ , tor, py V (w=1cm, 30°)						BA13-4
	19							
	20	118.20-122.20m grey silic. ss w/ g ₂ , tor, py vls (w=0.1-1cm, Int=1-3cm)	118.20					
	21							
	22							
	23							
	24	122.20-122.80m g ₂ , tor, py, asp V.	122.20					
	25	122.80-125.50m grey silic. ss w/ few g ₂ , tor, py vls (w=0.1-1cm, Int=2-5cm)	122.80	1343	0.4	tr	0.02	
	26							
	27	125.30-125.50m frac zone w/ clay	125.30	1344	1.0	tr	0.09	
	28							
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	127							
	128	128.00m Bottom of the hole						

GEOLOGIC CORE LOG OF MJSN-14 (1/4)

1/200

MJSN-14 (1/4) 0 m ~ 50 m

Level 725.27 m Direction S10° W
 X 60.763.37 m Inclination -75°
 Y 54.826.65 m Length 167.36 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	0	0-6.0m $\phi=76$ mm						
	2	0-4.0m sand w/ pebbles						
	4	4.00-8.00m dk gray silic f. ss (horn) w/ g ₂ vls (w=0.1-0.2cm, int=5-10cm)	4.00					
	5		5.00	BA-1401	tr	tr	0.01	
	6	6.0m → 59mm						
	6.5	6.5-8.0m frac. zone	6.50	1402	tr	tr	0.01	
	8	8.0-10.5m alt (dk gray sl) f. ss w/ few g ₂ vls	8.00	1403	tr	2.8	0.02	
	8.5	8.50-9.50m frac. zone						
	10	10.50-16.10m	10.50					
	11	gray silic f. ss (hor) w/ g ₂ , py, limo vls (w=0.1-0.3cm, int=0.15-0.2m)	11.30	1404	tr	tr	tr	
	11.3	11.30m g ₂ V (w=0.3cm, 40°)	12.00	1405	tr	tr	tr	
	13.3	13.3-14.4m frac. zone	13.30	1406	tr	tr	0.01	
	14		15.00	1407	tr	1.6	0.01	
	16	16.10-17.30m	16.10	1408	tr	tr	0.02	
	17	gray str silic ss w/ g ₂ , py, limo v & vls (w=0.1-1cm) partly network g ₂ w/ tor, chl, asp	17.30	1409	tr	tr	0.01	
	17.3	17.30-19.50m	18.50	1410	tr	tr	0.02	
	19.5	gray silic ss w/ few g ₂ vls	19.50	1411	tr	2.8	0.02	
	20	19.50-20.80m	20.80	1412	tr	tr	0.01	
	21	gray str silic. f. ss w/ g ₂ , tor, py, limo vls partly network	22.00	1413	tr	tr	0.01	
	22	20.80-23.20m gray silic ss w/ few g ₂ , py vls	23.20	1414	tr	1.2	0.02	
	23	23.2-32.2m	24.40	1415	tr	2.4	0.02	
	24	gray silic. f. ss w/ g ₂ , tor, asp vls (w=0.1-0.3cm, int=0.15-0.2m)	25.40	1416	tr	4.8	0.02	
	24.4	g ₂ , tor, py v. (w=2.0cm, 45°)	26.60	1417	tr	tr	0.02	
	26.6	26.6-26.75m g ₂ , py network zone, 30°	27.30	1418	0.1	2.4	0.02	
	27.3	g ₂ , py, tor, asp v. (w=2cm, 40°)	30.50	1419	tr	tr	0.01	
	30	30.5m g ₂ , py, asp v. (w=3cm, 40°)	31.35	1420	0.5	tr	0.02	
	31.35	g ₂ , py, chl, asp v. (w=1cm, 25°)	31.40	1421	tr	3.2	0.02	
	31.40	31.40-32.00m frac. zone	32.20	1422	0.4	tr	0.02	
	32	32.2-48.2m	32.50	1423	tr	2.8	0.02	
	32.2	gray silic. f. ss w/ g ₂ , tor, py, chl, limo, asp v & vls (w=0.1-3cm, int=5-10cm, partly network)	34.00	1424	tr	2.4	0.02	
	34	g ₂ , py v (w=3cm, 12°)	35.00	1425	tr	4.4	0.02	
	36	36.70m g ₂ , py, limo v (w=1cm, 10°)	36.00	1426	tr	tr	0.02	
	37	37.7m g ₂ , py, limo v (w=1cm, 40°)	38.00	1427	tr	tr	0.03	
	38		38.20	1428	tr	tr	0.02	
	40		40.00	1429	tr	4.4	0.02	
	42	42.0-43.10m str silic rock w/ g ₂ , py, asp	42.00	1430	0.1	tr	0.02	
	43	42.0m g ₂ , tor, py, asp v (w=3cm, 20°)	43.10	1431	0.1	tr	0.02	BA14-1
	43.1		43.50	1432	0.2	1.6	0.03	Fix
	44	44.5-44.75m str. silic. rock w/ g ₂ , py vls	44.00	1433	1.2	tr	0.02	
	44.5		45.00	1434	0.4	tr	0.02	
	46		46.00	1435	1.4	1.8	0.02	
	48	48.20-48.2m str. silic rock w/ g ₂ , py vls	48.00	1436	2.0	tr	0.07	
	48.2	48.2-50.8m	48.20	1437	0.4	tr	tr	
	50	gray silic ss (horn) w/ few g ₂ , py, tor vls (w=0.1-0.3cm, int=0.1-0.2cm)	48.50	1438	0.8	tr	tr	
			49.50	1439				

GEOLOGIC CORE LOG OF MJSN-14 (2/4)

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MJSN-14 (2/4) 50 m ~ 100 m

Level 725.27m
 X 60.763.37m
 Y 59.876.65m
 Direction S 10° W
 Inclination 75°
 Length 162.30 m

LITHO-LOGY	DEPTH (m)	DESCRIPTIONS	DEPTH (m)	SAMPLE No.	ASSAY RESULT			LAB. TEST
					Au	Ag	As	
	50.80	50.80m g ₂ , tor, py V (w=6cm, 30°)	50.80	BA-1439	tr	1.2	tr	0
	52.8-59.9m	grey silic ss (horn) w/ g ₂ , py, chl, asp v & vls (w=0.1-2cm, int=2-5cm, partly network)	52.00	1440	0.2	tr	tr	2
			52.00	1441	tr	tr	tr	2
			58.00	1442	1.4	tr	0.02	4
			55.00	1443	0.4	tr	0.05	4
			56.00	1444	0.4	4.4	tr	6
		59.0m g ₂ , tor, py, asp V. (w=6cm, 20°)	57.00	1445	0.5	tr	0.07	6
			58.00	1446	2.0	tr	0.18	8
			59.00	1447	0.4	tr	0.04	8
	59.9-62.80m	grey ss w/ few g ₂ , py, tor vls)	59.90	1448	0.6	2.6	0.02	0
			61.40	1449	0.6	1.4	0.03	0
	62.8-64.0m	grey silic ss w/ g ₂ , py, tor, asp v & vls	62.80	1450	0.4	tr	0.03	2
	64.0-67.0m	grey silic ss w/ few g ₂ , py, tor, asp vls	64.00	1451	0.6	2.6	0.10	2
			65.40	1452	0.6	1.4	0.04	4
	67.0-68.40m	grey silic. ss w/ g ₂ , py, tor, asp v & vls (w=0.1-5cm, int=2-5cm, partly net work)	67.00	1453	0.4	2.8	0.03	6
	67.2m		68.40	1454	0.6	2.6	0.04	8
	68.40-69.60m	few g ₂ , py vls (w=0.1-0.3cm)	69.60	1455	0.2	3.6	0.05	8
	69.6-71.50m	grey silic ss w/ g ₂ , py, asp, chl v & vls (w=0.1-4.0cm, int=2-10cm)	70.50	1456	10.4	tr	0.04	0
	71.50-72.40m	g ₂ , tor, py, asp V (w=4cm, 20°)	71.50	1457	2.0	4.6	0.02	2
	72.40-72.70m	few, g ₂ , py vls	72.70	1458	tr	1.8	0.03	2
	72.70-74.30m	grey silic. ss w/ g ₂ , py, tor vls	74.30	1459	0.2	3.2	0.02	4
	74.30-75.40m	frac. zone	75.40	1460	tr	tr	tr	4
	75.40-76.60m	blk sl	76.60	1461	tr	tr	tr	6
	76.60-80.55m	grey silic. ss w/ g ₂ , py, tor, chl, asp v & vls (w=0.1-3cm, int=2-5cm, partly network)	78.10	1462	tr	tr	0.04	8
	80.55m	g ₂ , py, chl V. (w=3cm, 20°)	80.55	1463	tr	1.2	0.01	0
	81.30-102.80m	grey silic. ss w/ few g ₂ , py, chl, (asp) vls (w=0.1-0.5cm, int=5-20cm)	81.30	1464	0.1	tr	0.01	2
			82.60	1465	tr	tr	0.01	2
			83.70	1466	tr	tr	0.02	4
			85.70	1467	tr	tr	0.01	4
			87.00	1468	tr	tr	0.02	6
	88.40m	g ₂ , chl, tor, asp V (w=0.5cm, 35°)	88.30	1469	tr	tr	0.01	8
	90.60-92.2m	frac. zone	89.80	1470	tr	tr	0.01	0
	94.60-95.70m	frac. zone	91.60	1471	tr	1.6	0.02	0
			92.90	1472	tr	tr	0.02	2
			94.60	1473	1.2	tr	0.02	4
			95.70	1474	tr	tr	0.02	4
			97.10	1475	1.2	tr	0.02	6
	99.20m	g ₂ V (w=0.3cm, 45°)	98.90	1476	0.1	tr	0.01	8
	99.30-100.00	frac. zone	99.30	1477	tr	tr	0.01	0