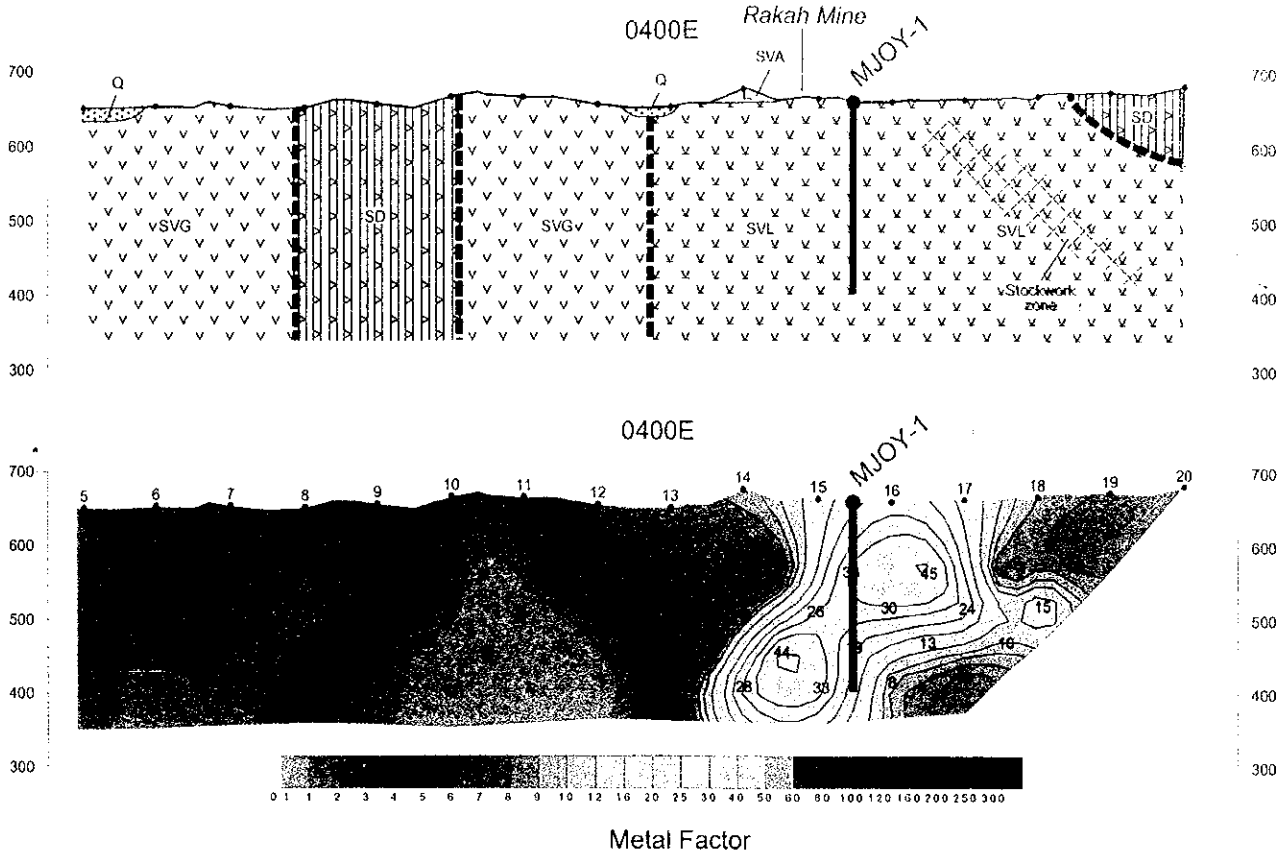

Fig. II-7-2 Cross section of borehole site in Rakah area; comparison with IP pseudo-section

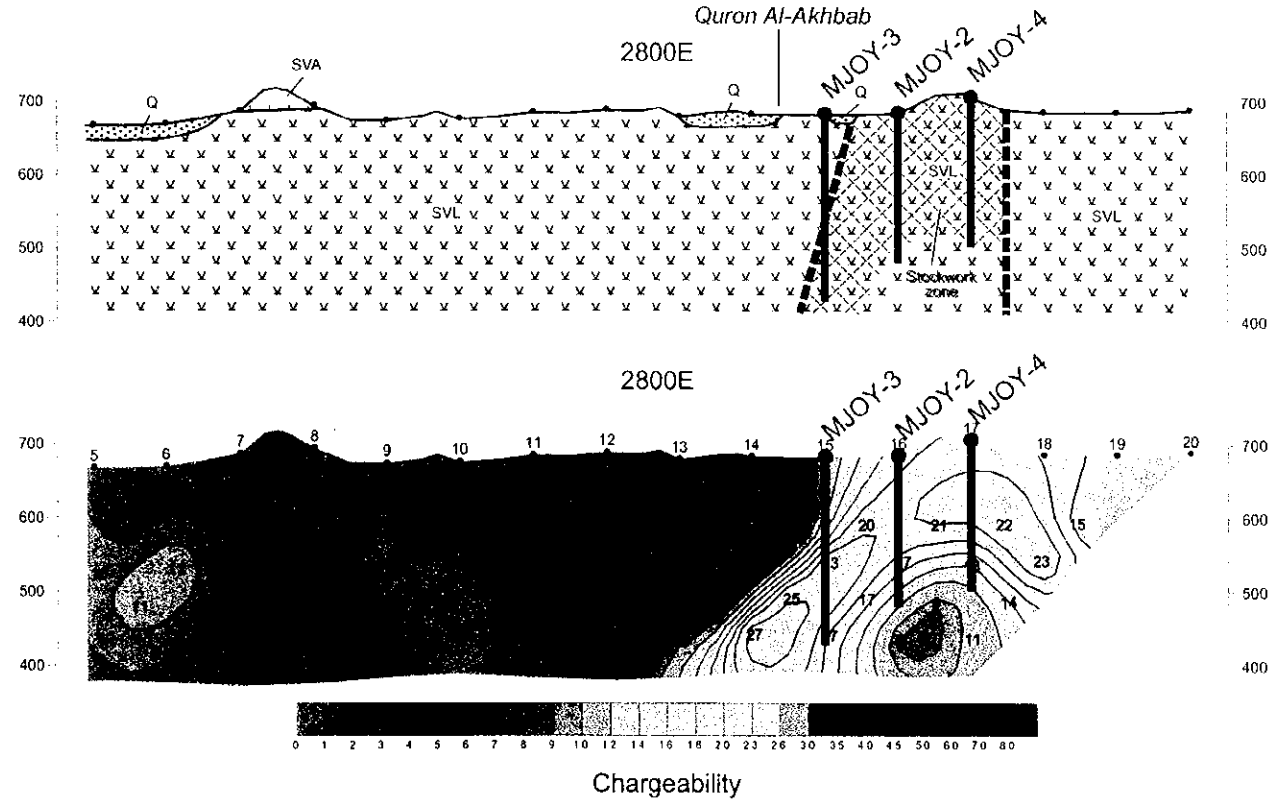

Fig. II-7-3 Cross section of borehole site in Quron Al-Akhbab area; comparison with IP pseudo-section

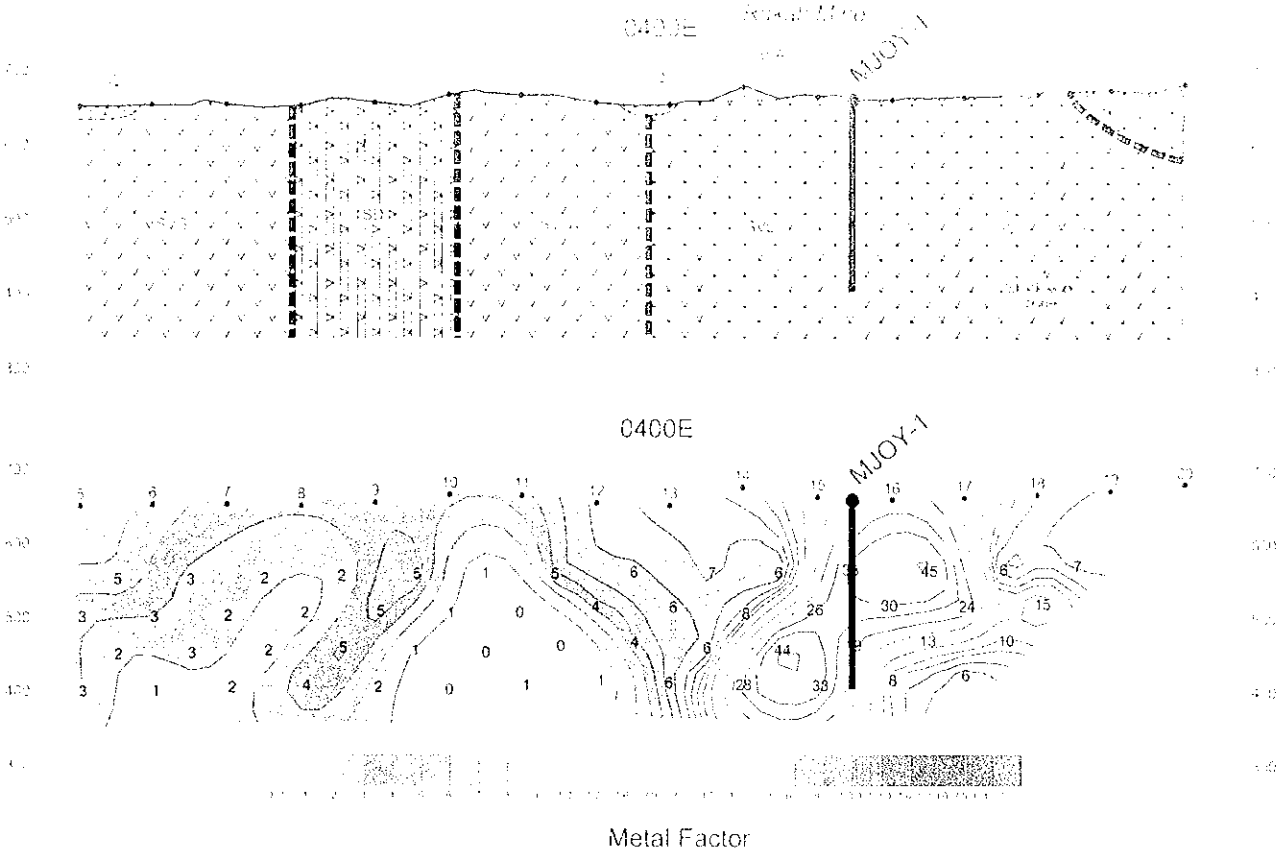

Fig. II-7-2 Cross section of borehole site in Rakah area: comparison with IP pseudo-section

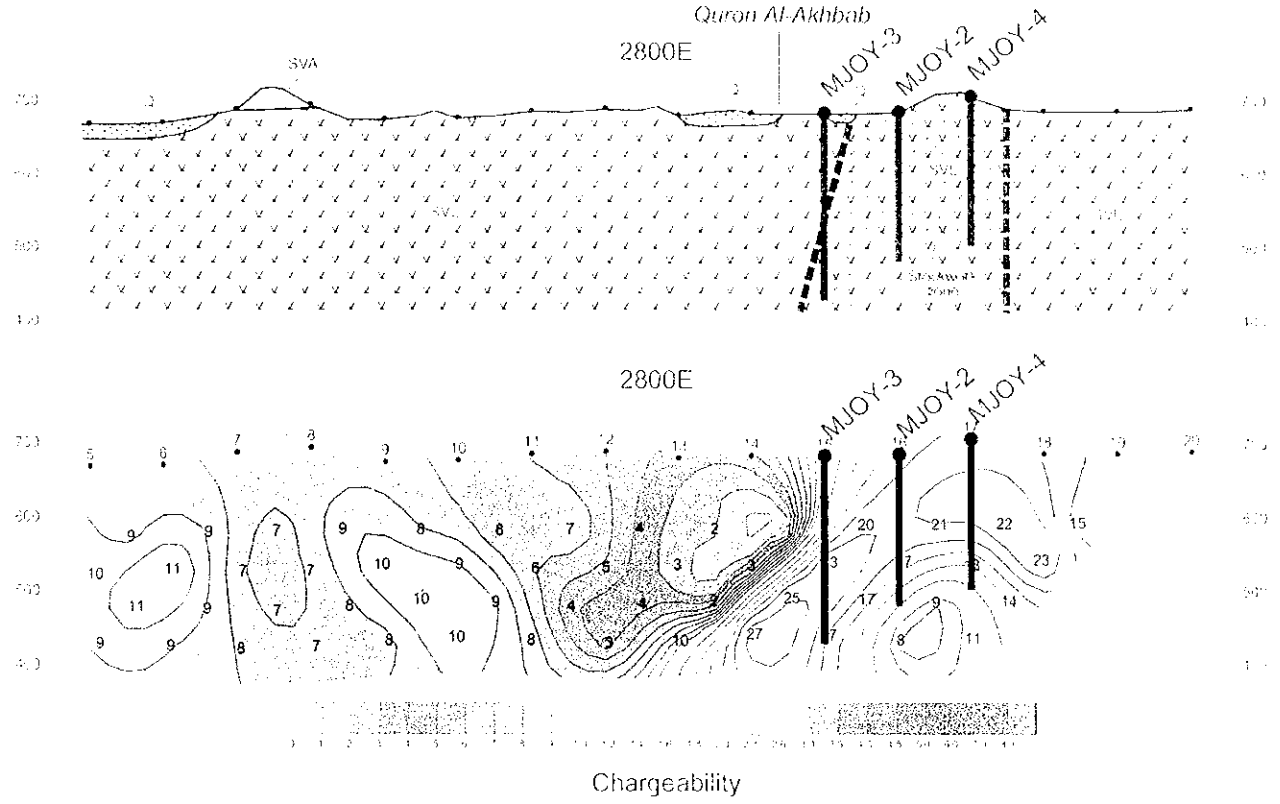

Fig. II-7-3 Cross section of borehole site in Quron Al-Akhbab area: comparison with IP pseudo-section

Table II-7-2 Summary of results on drilling survey in Phase I

Area Name	Bore Hole NO.	Type of Ore	Depth (m)		Thickness (m)	Average Grade	
			from	to		Cu(%)	Au(g/t)
Quron Al-Akhbab	MJOY-2	stockwork	17.70	89.70	72.00	0.83	0.35
		stockwork	89.70	127.70	38.00	0.37	0.34
		stockwork	127.70	160.75	33.05	0.29	0.36
	MJOY-3	stockwork	170.10	216.20	46.10	0.50	0.29
		stockwork	221.90	225.90	4.00	0.16	0.11
		stockwork	240.50	245.45	4.95	0.34	0.26
	MJOY-4	stockwork	15.60	41.30	25.70	0.07	0.03
		stockwork	61.00	92.45	31.45	0.11	0.06
		stockwork	131.15	139.50	8.35	0.15	0.07
	MJOY-5	stockwork	120.25	149.05	28.80	0.23	0.06
	MJOY-6	stockwork	23.35	71.35	48.00	0.29	0.08
		stockwork	71.35	98.15	26.80	0.32	0.05
		stockwork	98.15	114.15	16.00	0.46	0.07
		stockwork	114.15	165.05	50.90	0.76	0.04
Tawi Rakah	MJOY-7	stockwork	14.90	40.50	25.60	0.16	0.05
		stockwork	48.80	54.80	6.00	0.10	0.09
		stockwork	71.00	83.35	12.35	0.16	0.03
		stockwork	90.95	101.00	10.05	0.22	0.03

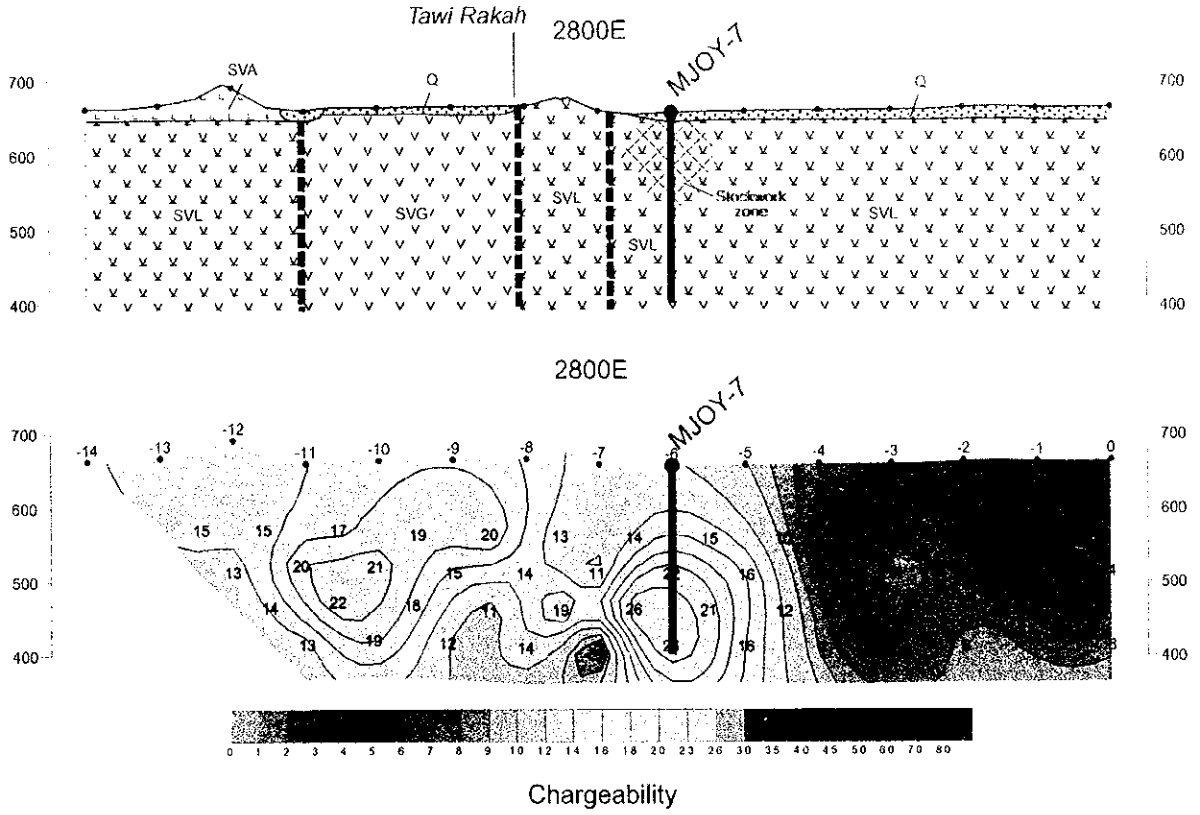

Fig. II-7-4 Cross section of borehole site in Tawi Rakah area; comparison with IP pseudo-section

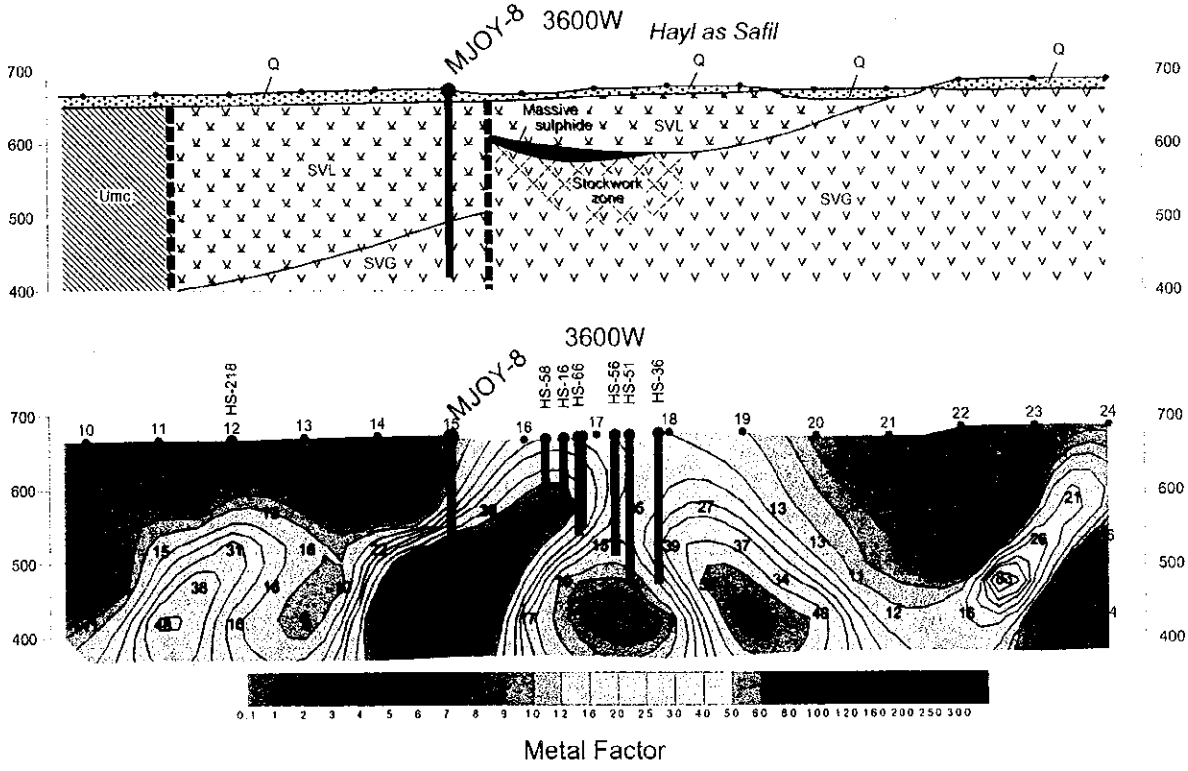

Fig. II-7-5 Cross section of borehole site in Hayl as Safil area; comparison with IP pseudo-section

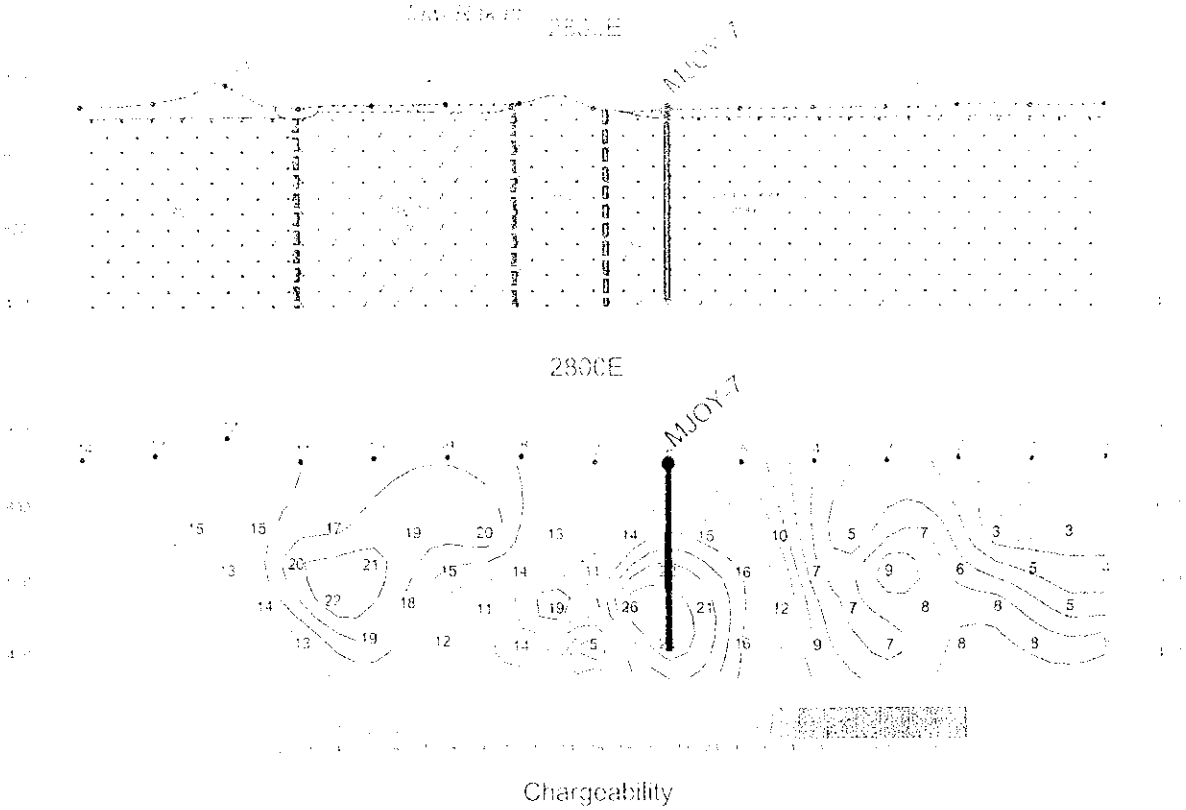

Fig. II-7-4 Cross section of borehole site in Tawi Rakah area; comparison with IP pseudo-section

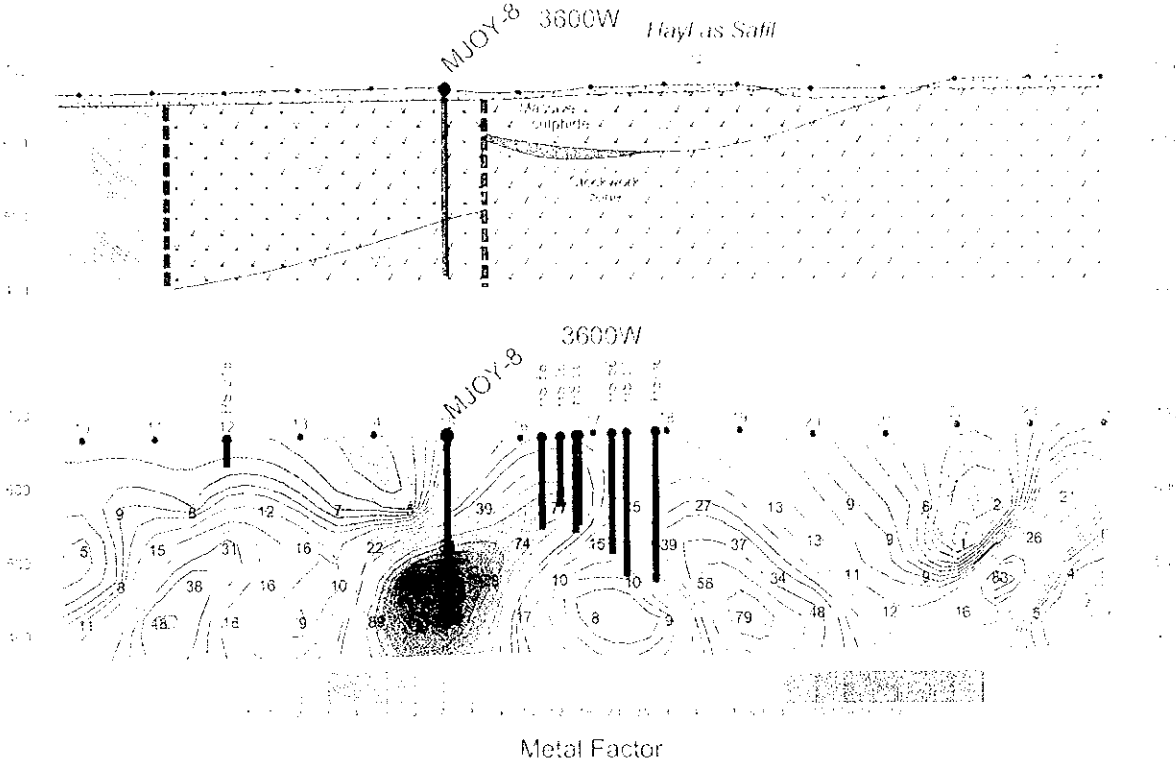

Fig. II-7-5 Cross section of borehole site in Hayl as Safil area; comparison with IP pseudo-section

7-5-4 ハイル・アス・サフィール地区

本鉱床では，ゴッサン付近に非常に顕著な分極率異常が検出され（総論の Fig. I -4-3 参照），その異常の南部では低比抵抗も伴われており，そこでは高いメタルファクターを示した。この高メタルファクターの範囲内の，いまだボーリング調査が行われていない部分でボーリングを実施したが，強い珪化が認められたのみで鉱化はほとんど認められなかった。Fig. II -7-5 に断面図を示す。既知の鉱体と物理探査結果を比較すると，Fig. I -4-3 で明らかなように，IP 法の浅部データ（N=1）の高メタルファクター部と鉱体の位置が良く一致し，塊状鉱の分布と TEM 法の高磁場異常の位置が非常に良く一致していることが示された。本鉱床ではハイル・アス・サフィール鉱体の周辺部及びその北方には未だボーリング調査が行われていない異常が存在することから，なお探鉱余地が残されているものと考えられる。

第Ⅲ部　結論及び提言

第1章　結　論

ヤンキル地区を対象とした本年度の調査では，①選鉱試験による金の実収率及び銅精鉱の品位向上の可能性の検討と選鉱計画の策定，②既存データの再検討及び新規探査による可採鉱量の増大，③環境影響評価のための基礎データの取得，を調査の重点課題とした。

本年度の調査結果は以下のように結論付けられる。

(1) 選鉱調査

① 銅実収率は，ストックワーク鉱については粗選／精掃の段階で94～96%に変動し，ラカー鉱体の塊状鉱とビシャーラ鉱体の角礫鉱が80～90%であった。銅精鉱品位も同様に変動が大きく，第一粗選精鉱でラカー塊状鉱が約42%，他の試料は22～25%であった。

② 今回の試験での重要な成果は，全試料が同じ補集剤で良好な反応を示し，ただ最適条件を得るためのpHだけが鉱種間で異なるということである。

③ 鉱物試験の結果からは，再磨鉱のレベルが超微粉砕技術を使わずに達成できることが明らかになった。したがって，通常のタワーミルあるいはボールミルで十分用が足りるものと考えられる。再磨鉱のレベルの決定は，次年度の選鉱試験の中心課題となる。

④ 黄鉄鉱の浮選精鉱のリーチング率はほぼ30%と低調であった。再磨した精鉱では，それぞれ40%，45%に上昇し，焙焼後ではラカー塊状鉱が85%，ビシャーラ角礫鉱が66%と最高のリーチング率が得られた。しかしながら，青化ソーダの消費量はかなり多く，黄鉄鉱精鉱からのリーチングによる金の回収は現段階では経済的ではないと判断される。

(2) 環境調査

① ラカー鉱床及びハイル・アス・サフィール鉱床周辺において地下水の挙動，透水性及び水質を調査するため，5孔のボーリングを掘削し，水位回復試験，水質分析等を実施した。

② 今回掘削した井戸はいずれもワジ内にあるが，近年雨量が少ないこともあって地下水量は少なかった。

③ 水質は、日本の河川水に比べてpHがやや高く微弱アルカリ性を示す。TDSは200～1,200mg/lもあり，硬度成分が高い。以前のデータと比較すると，硝酸性窒素が著しく増えている。

(3) 既存データ解析

① 地質鉱量及び可採鉱量を確定させるためには，詳細な地質及び鉱体のモデルの構築，鉱種毎の分布，地質鉱量及び平均品位の把握，本地域の鉱体に最も妥当な鉱量計算手法の検討，鉱量計算における適正な諸条件の設定，が必要である。

② ヤンクル地域の鉱体における鉱種は，ストックワーク鉱を主とし，塊状鉱及び角礫鉱を伴う。

(4) 鉱床探査

① 物理探査の結果，既知の鉱化帯を含む以下の５ヶ所（クルン・アル・アクバブ地区，タウィ・ラカー鉱徴地，ラカー金鉱山，ナジャイド地区，ハイル・アス・サフィール鉱床）で異常を検出した。

② それらのうちのクルン・アル・アクバブ地区で有望な銅鉱化帯（ストックワーク鉱化帯）を捕捉した。

③ ハイル・アス・サフィール鉱床における物理探査の結果，IP 異常が既知鉱体の位置を良く反映し，塊状鉱の分布と TEM 法の高磁場異常の位置が非常に良く一致していることが示された。

第２章　将来への提言

第２年次は本地域開発調査の最終年次であり，総合評価まで実施する必要がある。このため以下のような各項目について具体的な作業を行うことを提言する。

(1) 選鉱関係

・選鉱方式の確定と選鉱場の設計

・そのための補足的選鉱試験

(2) 採鉱関係

・可採鉱量の確定（鉱種別）

・ピット設計

・採掘計画及び生産計画の策定

(3) インフラストラクチャー

・廃さい堆積場の設計

・そのための環境対策の検討

・電力及び用水についての調査

・ワジ及び道路切替えの検討

・付帯設備の検討

(4) 環境調査

(5) 起業費・操業費の算出

(6) 鉱床探査

・鉱量確保のための探査として，クルン・アル・アクバブ地区での精密調査を行う。

・物理探査で異常地として抽出されたその他の地区において，ポテンシャル評価のための精密物理探査とボーリング調査を実施する。施設建設予定地についてのポテンシャル評価もあわせて行う。

(7) 総合評価

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Appendix 1

Drilling equipments and consumed materials

Drilling Equipment-(1) Exploration and metallurgical test

	Rig-1	Rig-2
Model	RAMROD-II	VOL-180
Maker	Joy Manufacturing Co. USA	Voltas Ltd. India
Mounting	Truck mounted 4WD	Truck mounted 4WD
Drilling capacity with NX size wire line coring	450 m	650 m
Angle hole drilling capacity	Upto 60 deg.	Vertical only
Circulation pump	35 GPM 800 PSI	37 GPM 1000 PSI

Drilling for metallurgical test: Rig-1

Mineral exploration drilling: Rig-1 and Rig-2

Drilling Equipment-(2) Environmental survey

No.	DESCRIPTION	SPECIFICATION
1	Model - As per manufacturer's	Ingersoll Rand , T4W HP 900
2	Mast Rating / Max.Static Hook Load	31,750 Kgs
3	Draw Weight / Pull Back	17,000 Kgs
4	Pipe Racking System/Capacity	Swing In / Out Carousel ; 76.0 Mtr
5	Power Pack Engine Type / Capacity	GM 12V 71 TA ; 530 HP
6	Foam Injection Pump Type/Capacity/Pressure	Triplex single acting ; 95.0 Ltr/Min ; 3791.7 kPa
7	Rotary table / Type	Top Head Drive ; Hydraulic
8	Max.Torque /RPM	9763 Nm / 80 RPM
9	Table Opening	20 "
10	Levelling Jack	Two at drilling end & One at front
11	Tank volumes - Fuel	600 Litres
12	Working Clearance - below crown	8.2 Metres
13	Compressor for Air/Foam drilling , Type/Output	Screw Type ; 2412.9 kPa / 425 Lps
14	Power Source	Direct drive from Diesel engine
15	Overall Weight - Tonnes	24 T
16	Overall Length - Metres	10.7 M
17	Overall Width - Metres	2.4 M
18	Overall Height When Travelling - Metres	3.9 M
19	Is Rig Carrier or Trailer or Skid Mounted	Carrier Mounted
20	Carrier Engine - Type / Capacity	Cummins L1OC ; 240 HP @2100 RPM
21	No. of Front Axles	One
22	No. of Front Driving Axles	None
23	No. of Rear Axles	Two
24	No. of Rear Driving Axles	Two
25	Transport speed on graded roads	50 Km/Hr
26	Drill pipe	4 1/2" dia Internal up set , 25' long

Consumed material-(1) Exploration

Hole No.	MJOY-1	MJOY-2	MJOY-3	MJOY-4	MJOY-5	MJOY-6
Bit: NW	1	1	1	1	1	1
Bit: NX	1	1	1	1	1	1
Bit: BX	-	-	-	-	-	-
Light Oil (l)	30	25	30	30	35	30
Mud (kg)	240	210	260	200	280	260
Cement (kg)	100	100	150	100	150	150

Hole No.	MJOY-7	MJOY-8
Bit: NW	1	1
Bit: NX	1	1
Bit: BX	-	-
Light Oil (l)	30	30
Mud (kg)	220	260
Cement (kg)	150	150

Consumed material-(2) Metallurgical test

Hole No.	MJOY-P1	MJOY-P2	MJOY-P3	MJOY-P4	MJOY-P5
Bit: NC	1	1	1	1	1
Bit: NW	1	1	1	1	1
Bit: NX	-	-	-	-	-
Light Oil (l)	20	20	20	20	20
Mud (kg)	120	100	150	150	170
Cement (kg)	150	100	160	200	150

Appendix 2

Generalized drilling results and progress record of drilling

Progress record of drilling-(1) Exploration

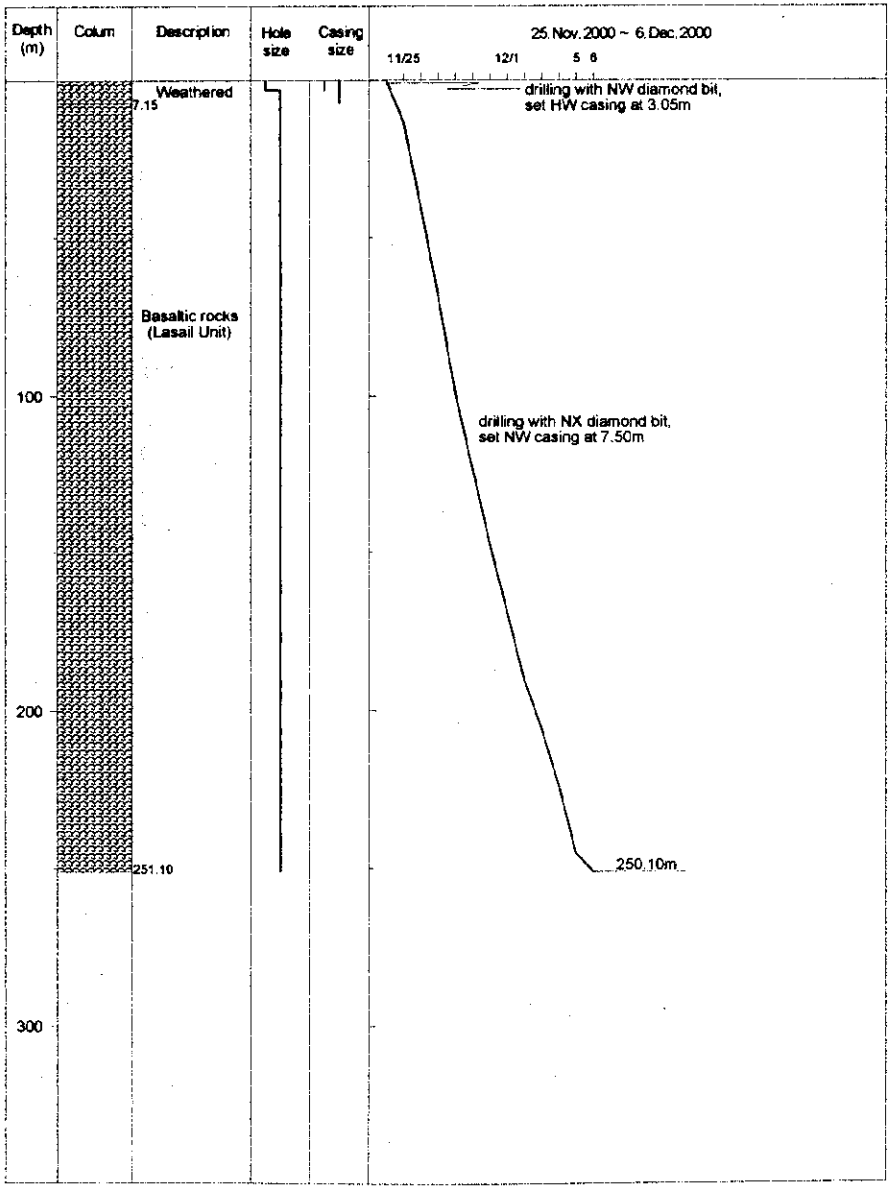
	Hole No.	MJOY-1	MJOY-2	MJOY-3	MJOY-4	MJOY-5
Drilling Priod	Preparation	11/24	12/24	12/7	1/1	12/30
	Days (A)	1	0.5	0.5	0.5	0.5
	Drilling	11/25 to 12/6	12/24 to 12/31	12/7 to 12/19	1/2 to 1/10	12/30 to 1/9
	Days (B)	11.5	7.5	11	8.5	10.5
	Removing	12/6	1/1	12/19	1/10	1/10
	Days (C)	0.5	0.5	0.5	0.5	0.5
	Total days (D)	13	8.5	12	9.5	11.5
Depth	Planned depth (E)	250m	200m	250m	200m	250m
	Drilled depth (F)	251.10m	200.35m	251.10m	200.10m	250.10m
Recovery	Overburden (G)	0.00m	0.00m	0.00m	0.00m	2.00m
	Core length (H)	251.10m	199.25m	251.10m	198.90m	248.10m
	Recovery (H/F)	100%	99%	100%	99%	99%
Casing	HW casing	3.05m	-	-	-	-
	NW casing	7.50m	6.50m	3.50m	3.40m	3.40m
	NX casing	-	-	-	-	-
Rate	meter /day (F/B)	21.83m	26.71m	22.83m	23.54m	23.82m
	meter/ total day (F/D)	19.32m	23.57m	20.93m	21.06m	21.75m

	Hole No.	MJOY-6	MJOY-7	MJOY-8
Drilling Priod	Preparation	1/10	1/11	1/23
	Days (A)	0.5	0.5	0.5
	Drilling	1/11 to 1/23	1/11 to 1/22	1/23 to 2/3
	Days (B)	12.5	11	11.5
	Removing	1/23	1/22	2/3
	Days (C)	0.5	0.5	0.5
	Total days (D)	13.5	12	12.5
Depth	Planned depth (E)	250m	250m	250m
	Drilled depth (F)	250.65m	250.60m	250.25m
Recovery	Overburden (G)	0.00m	2.50m	2.00m
	Core length (H)	250.45m	247.80m	243.70m
	Recovery (H/F)	100%	99%	97%
Casing	HW casing	-	-	-
	NW casing	11.75m	12.50m	18.50m
	NX casing	-	-	-
Rate	meter /day (F/B)	20.05m	22.78m	21.76m
	meter/ total day (F/D)	18.57m	20.88m	20.02m

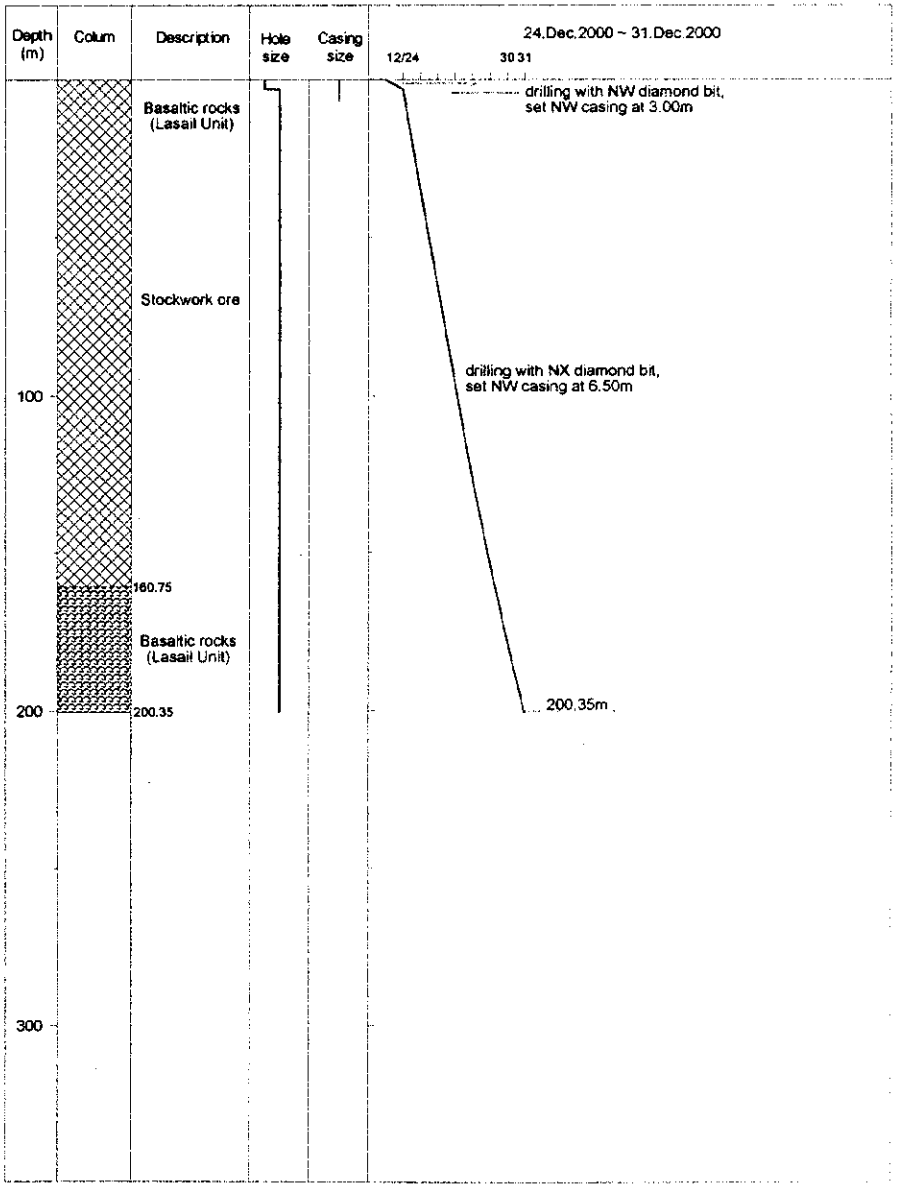
Progress record of drilling-(2) Metallurgical test

	Hole No.	MJOY-P1	MJOY-P2	MJOY-P3	MJOY-P4	MJOY-P5
Drilling Priod	Preparation	9/8	9/17	9/25	10/8	10/19
	Days (A)	1	0.5	0.5	0.5	0.5
	Drilling	9/9 to 9/16	9/18 to 9/24	9/26 to 10/7	10/8 to 10/18	10/20 to 10/29
	Days (B)	8	7	11.5	10.5	10
	Removing	9/17	9/25	10/7	10/19	10/30
	Days (C)	0.5	0.5	0.5	0.5	0.5
	Total days (D)	9.5	8	12.5	11.5	11
Depth	Planned depth (E)	125m	125m	125m	125m	125m
	Drilled depth (F)	125.65m	125.80m	125.65m	137.55m	126.00m
Recovery	Overburden (G)	0.00m	1.00m	1.00m	1.00m	0.75m
	Core length (H)	116.40m	123.95m	120.25m	125.70m	122.90m
	Recovery (H/F)	93%	99%	96%	91%	98%
Casing	HW casing	8.25m	4.00m	3.00m	14.25m	7.10m
	NW casing	-	-	-	-	-
	NX casing	-	-	-	-	-
Rate	meter /day (F/B)	15.71m	17.97m	10.93m	13.10m	12.60m
	meter/ total day (F/D)	13.23m	15.73m	10.05m	11.96m	11.45m

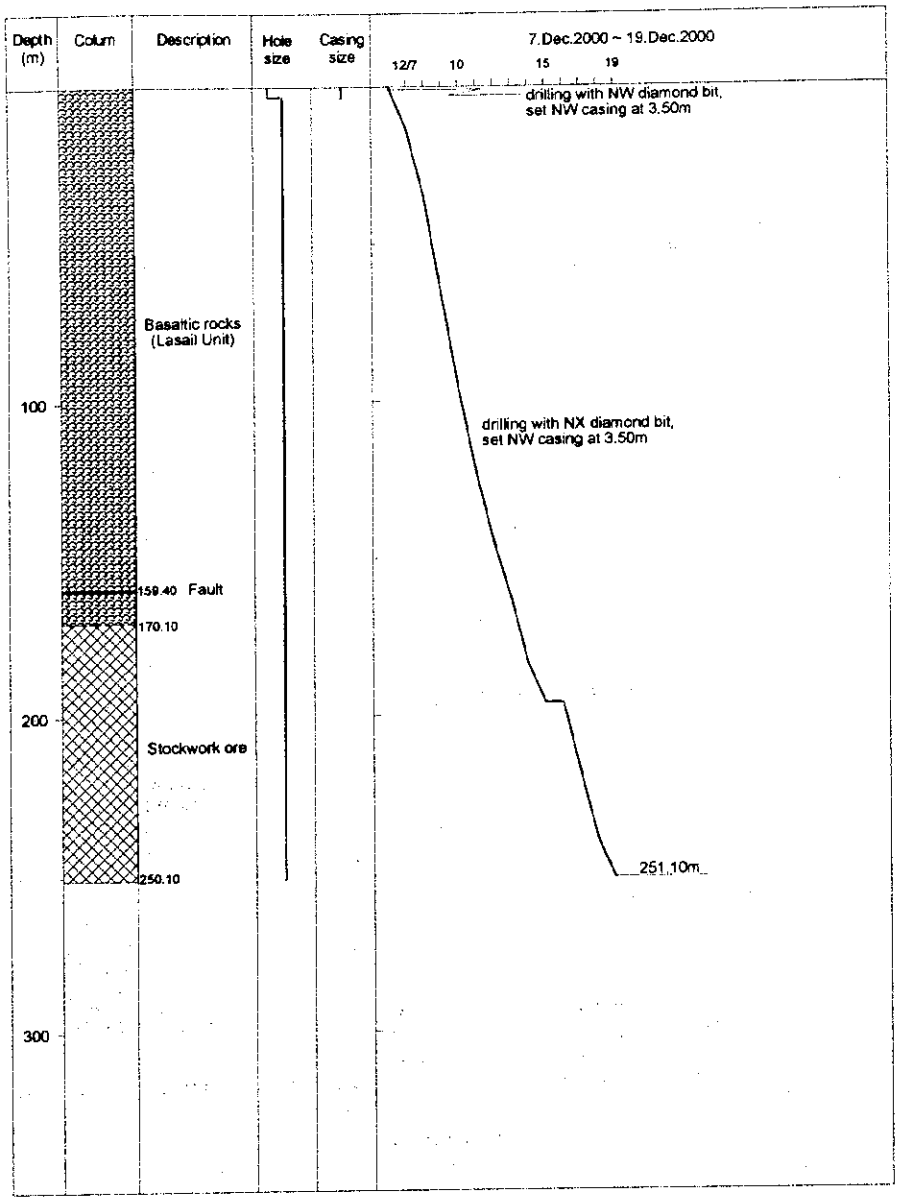
MJOY-1


Depth (m)
Colum
Description
Hole size
Casing size
25.Nov.2000 ~ 6.Dec.2000
11/25
12/1
5 6
Weathered
7.15
Basaltic rocks (Lasail Unit)
drilling with NW diamond bit, set HW casing at 3.05m
drilling with NX diamond bit, set NW casing at 7.50m
251.10
250.10m
100
200
300

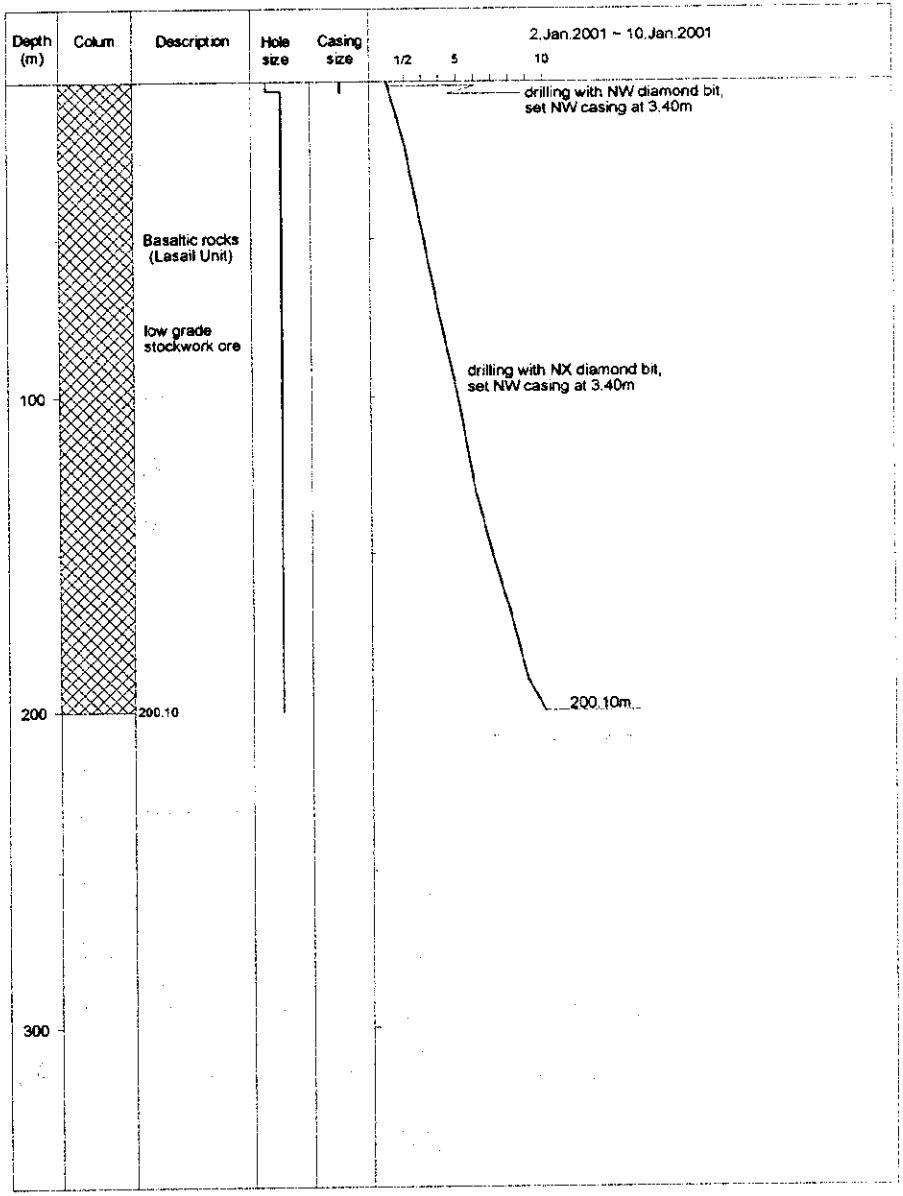
MJOY-2


Depth (m)
Colum
Description
Hole size
Casing size
24.Dec.2000 ~ 31.Dec.2000
12/24
30 31
Basaltic rocks (Lasail Unit)
drilling with NW diamond bit, set NW casing at 3.00m
Stockwork ore
drilling with NX diamond bit, set NW casing at 6.50m
160.75
Basaltic rocks (Lasail Unit)
200.35
200.35m
100
200
300

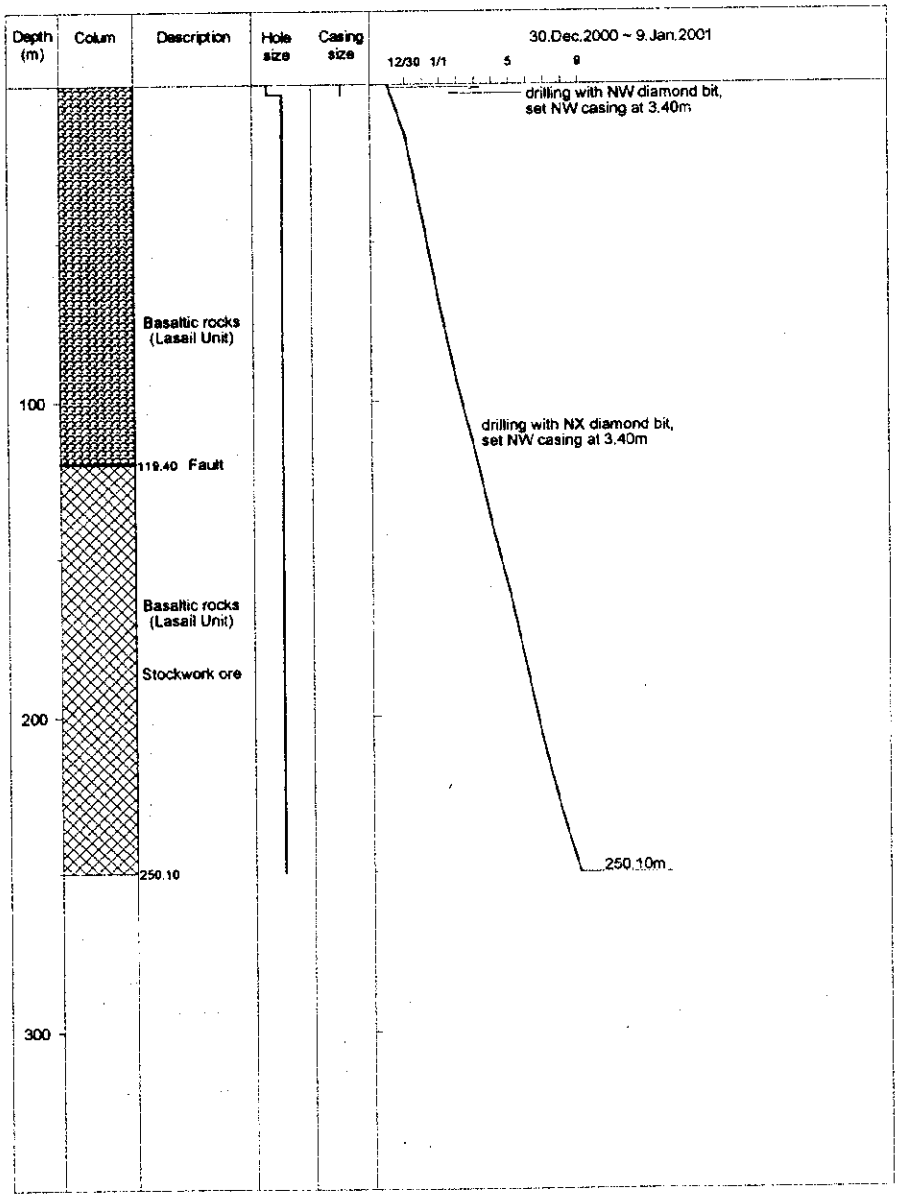
MJOY-3


Depth (m)
Colum
Description
Hole size
Casing size
7.Dec.2000 ~ 19.Dec.2000
12/7
10
15
19
drilling with NW diamond bit, set NW casing at 3.50m
Basaltic rocks (Lasail Unit)
drilling with NX diamond bit, set NW casing at 3.50m
159.40 Fault
170.10
Stockwork ore
251.10m
250.10
100
200
300

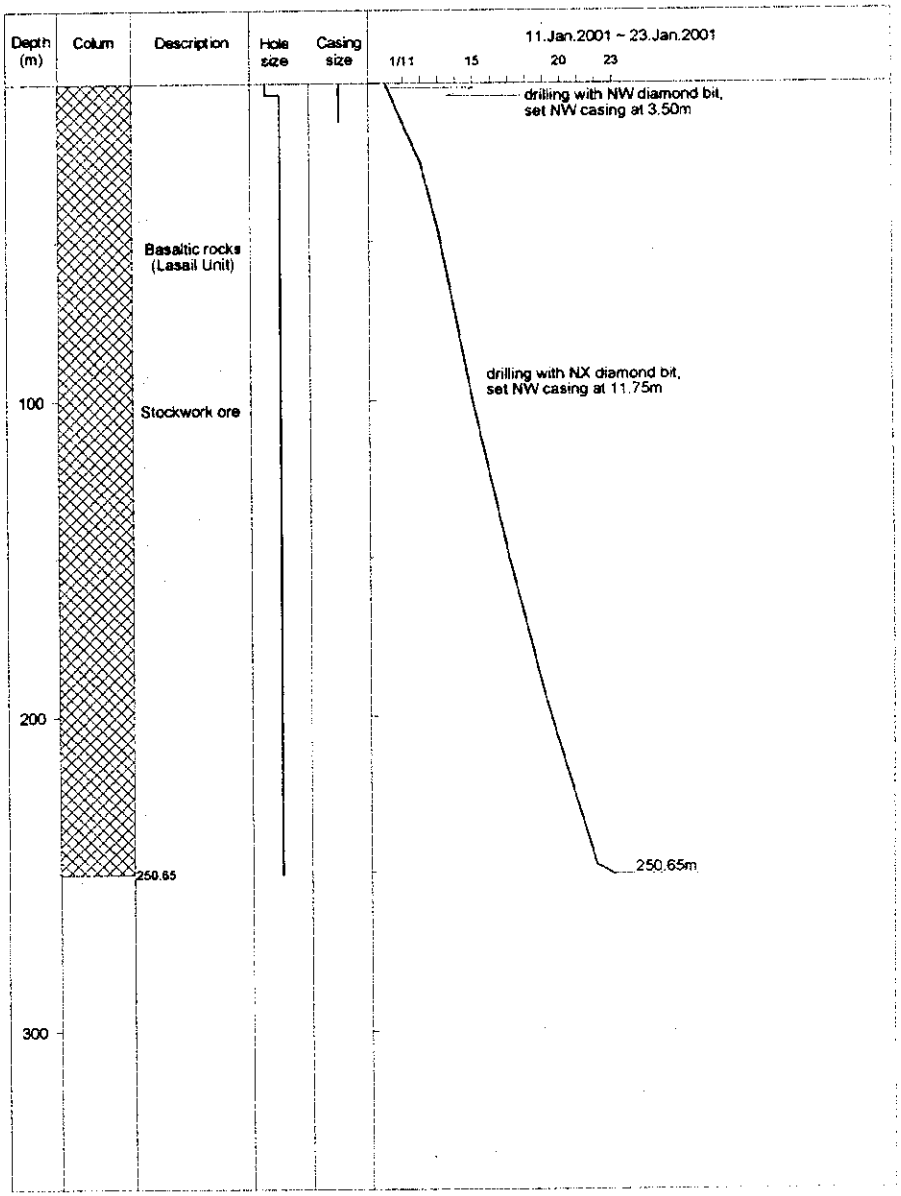
MJOY-4


Depth (m)
Colum
Description
Hole size
Casing size
2.Jan.2001 ~ 10.Jan.2001
1/2
5
10
drilling with NW diamond bit, set NW casing at 3.40m
Basaltic rocks (Lasail Unit)
low grade stockwork ore
drilling with NX diamond bit, set NW casing at 3.40m
200.10m
200.10
100
200
300

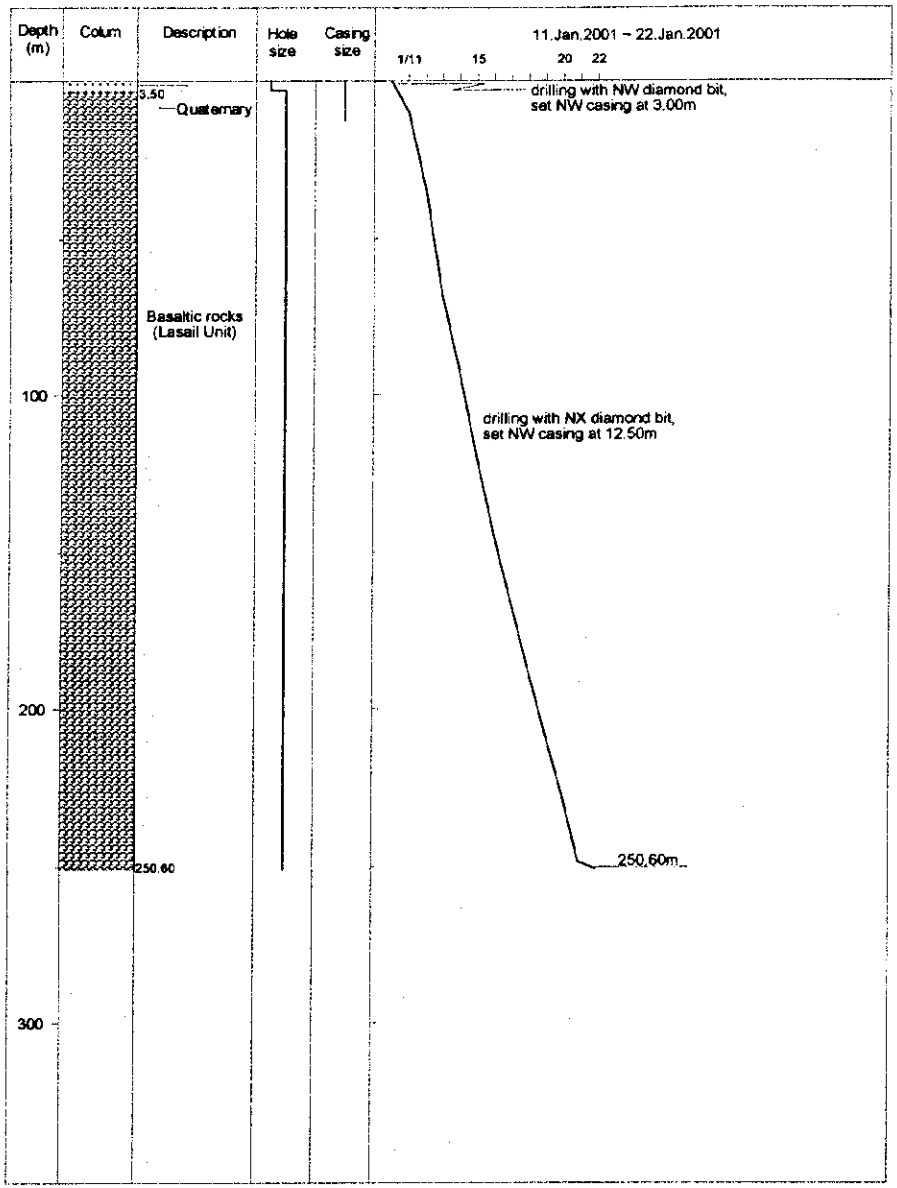
MJOY-5


Depth (m)
Colum
Description
Hole size
Casing size
30.Dec.2000 ~ 9.Jan.2001
12/30
1/1
5
9
drilling with NW diamond bit, set NW casing at 3.40m
Basaltic rocks (Lasail Unit)
drilling with NX diamond bit, set NW casing at 3.40m
100
119.40 Fault
Basaltic rocks (Lasail Unit)
Stockwork ore
200
250.10
250.10m
300

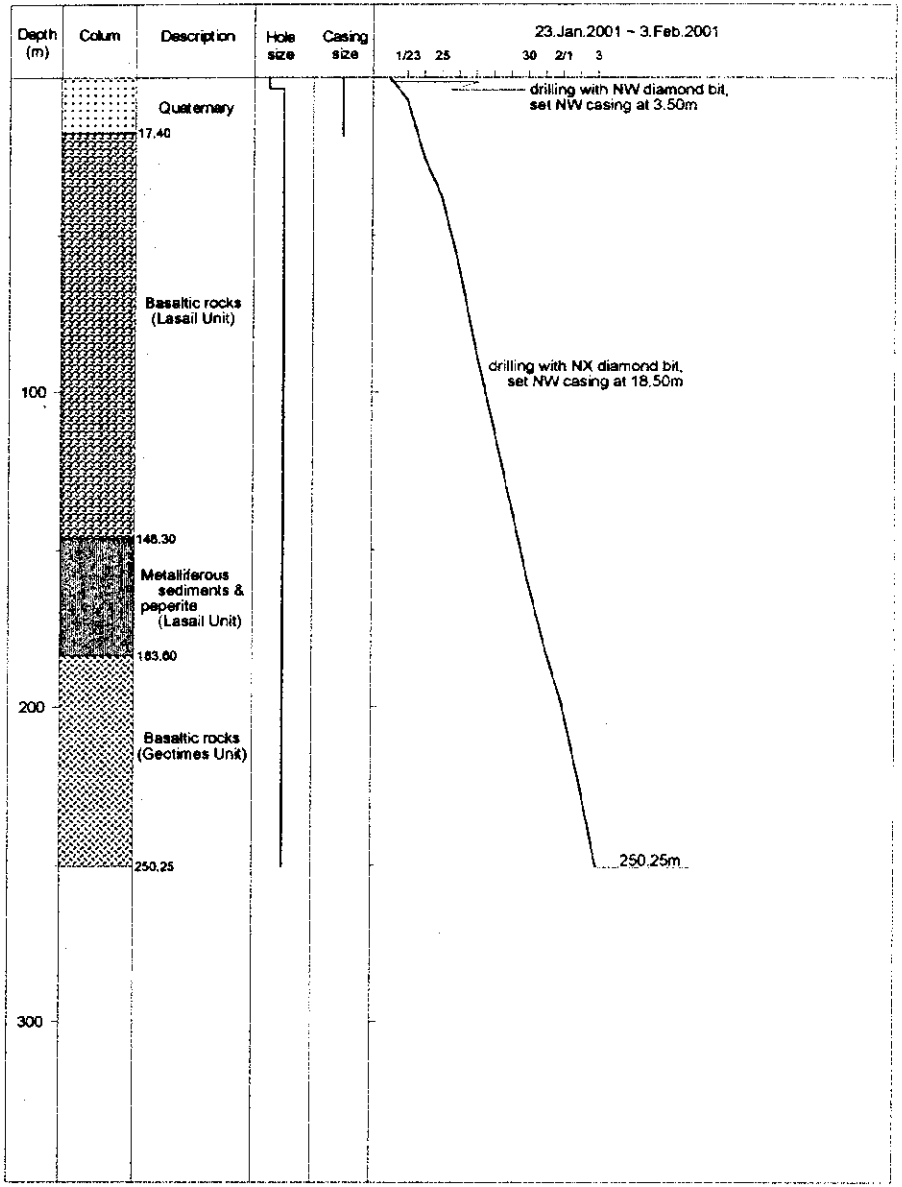
MJOY-6


Depth (m)
Colum
Description
Hole size
Casing size
11.Jan.2001 ~ 23.Jan.2001
1/11
15
20
23
drilling with NW diamond bit, set NW casing at 3.50m
Basaltic rocks (Lasail Unit)
drilling with NX diamond bit, set NW casing at 11.75m
100
Stockwork ore
200
250.65
250.65m
300

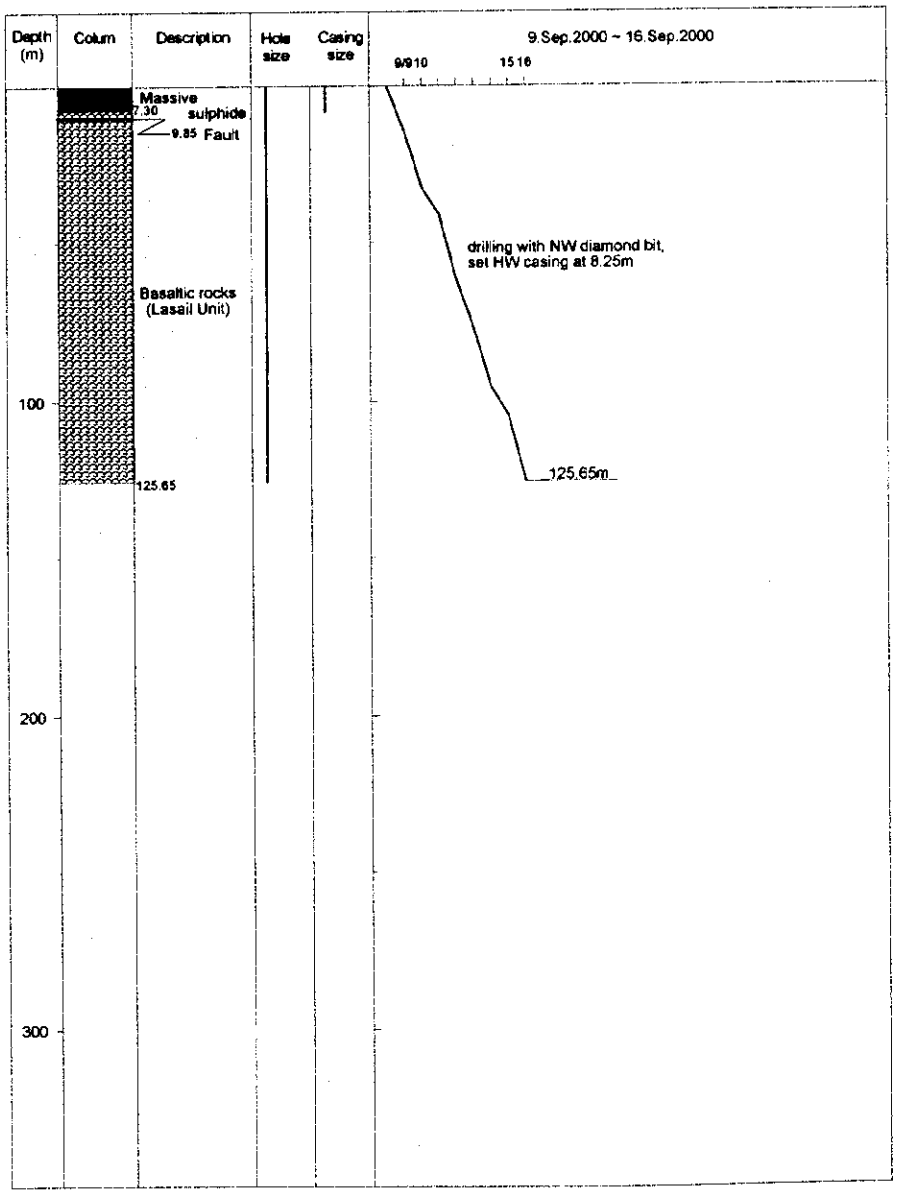
MJOY-7


Depth (m)
Colum
Description
Hole size
Casing size
11.Jan.2001 ~ 22.Jan.2001
1/11
15
20
22
3.50
Quaternary
Basaltic rocks (Lasail Unit)
250.60
100
200
300
drilling with NW diamond bit, set NW casing at 3.00m
drilling with NX diamond bit, set NW casing at 12.50m
250.60m

MJOY-8


Depth (m)
Colum
Description
Hole size
Casing size
23.Jan.2001 ~ 3.Feb.2001
1/23
25
30
2/1
3
Quaternary
17.40
Basaltic rocks (Lasail Unit)
148.30
Metalliferous sediments & peperite (Lasail Unit)
183.00
Basaltic rocks (Geotimes Unit)
250.25
100
200
300
drilling with NW diamond bit, set NW casing at 3.50m
drilling with NX diamond bit, set NW casing at 18.50m
250.25m

MJOY-P1



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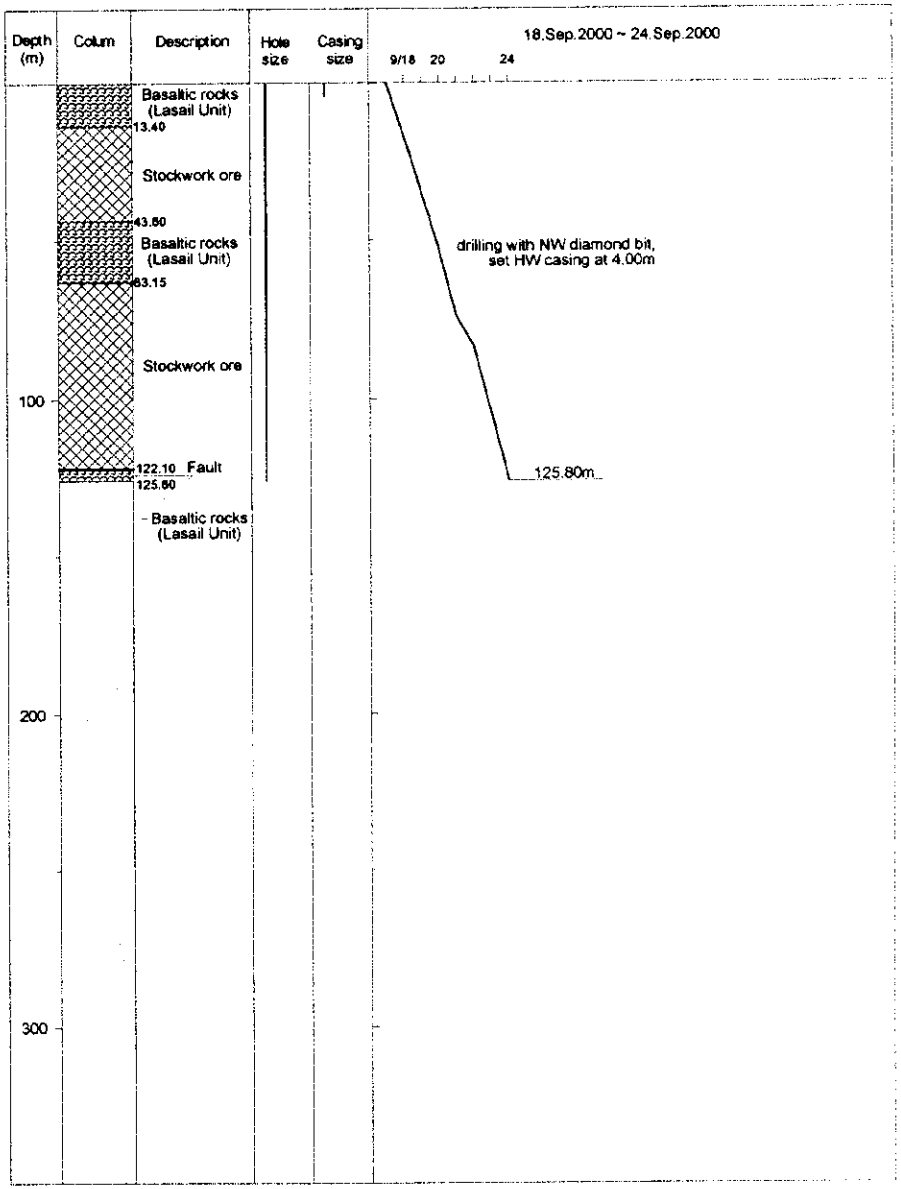

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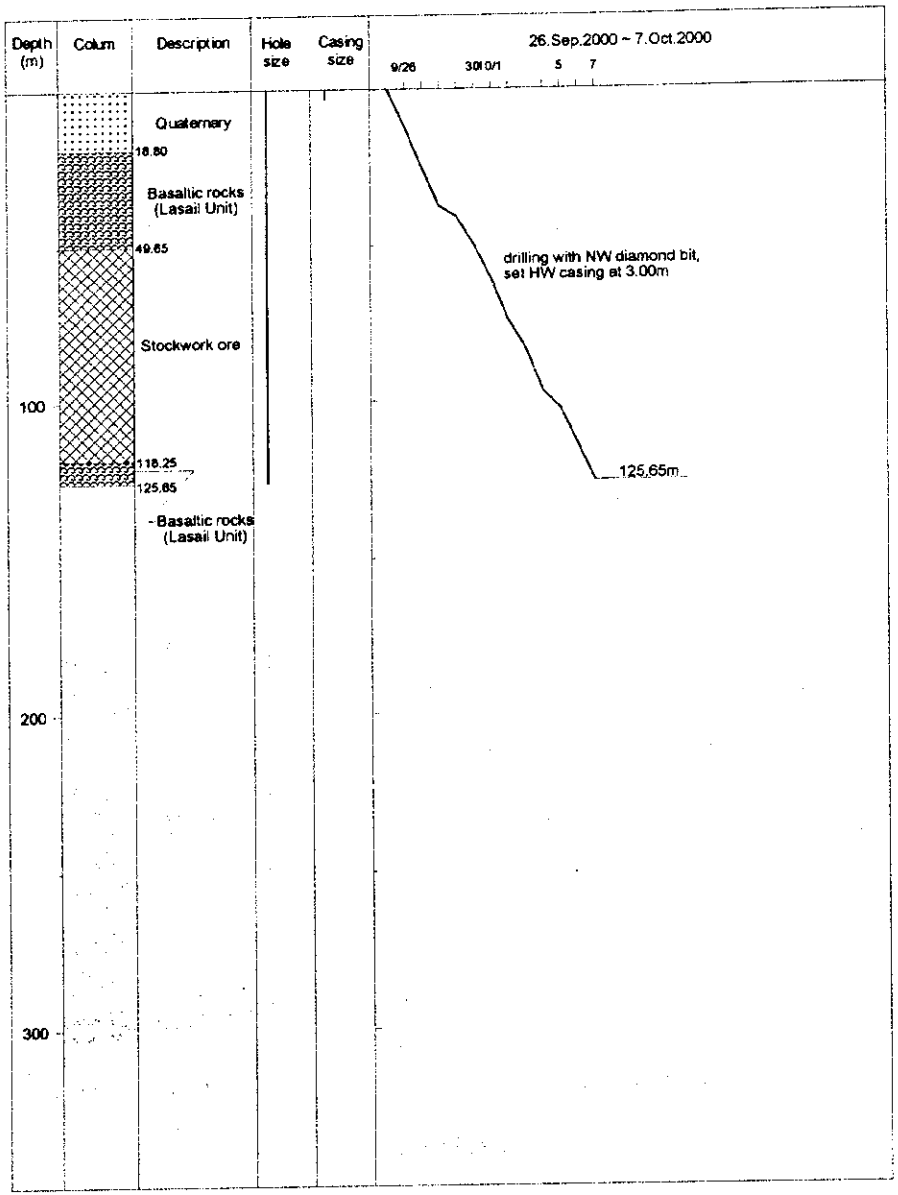

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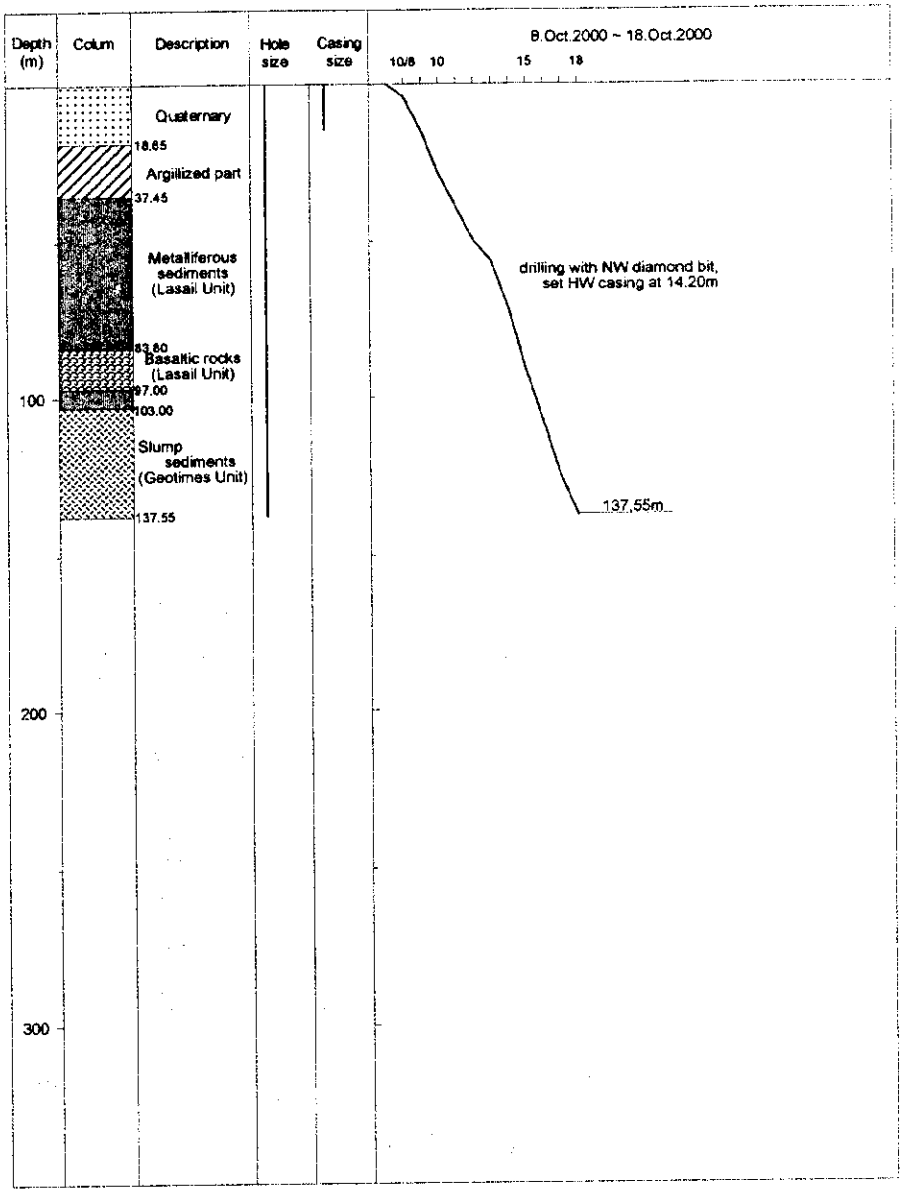

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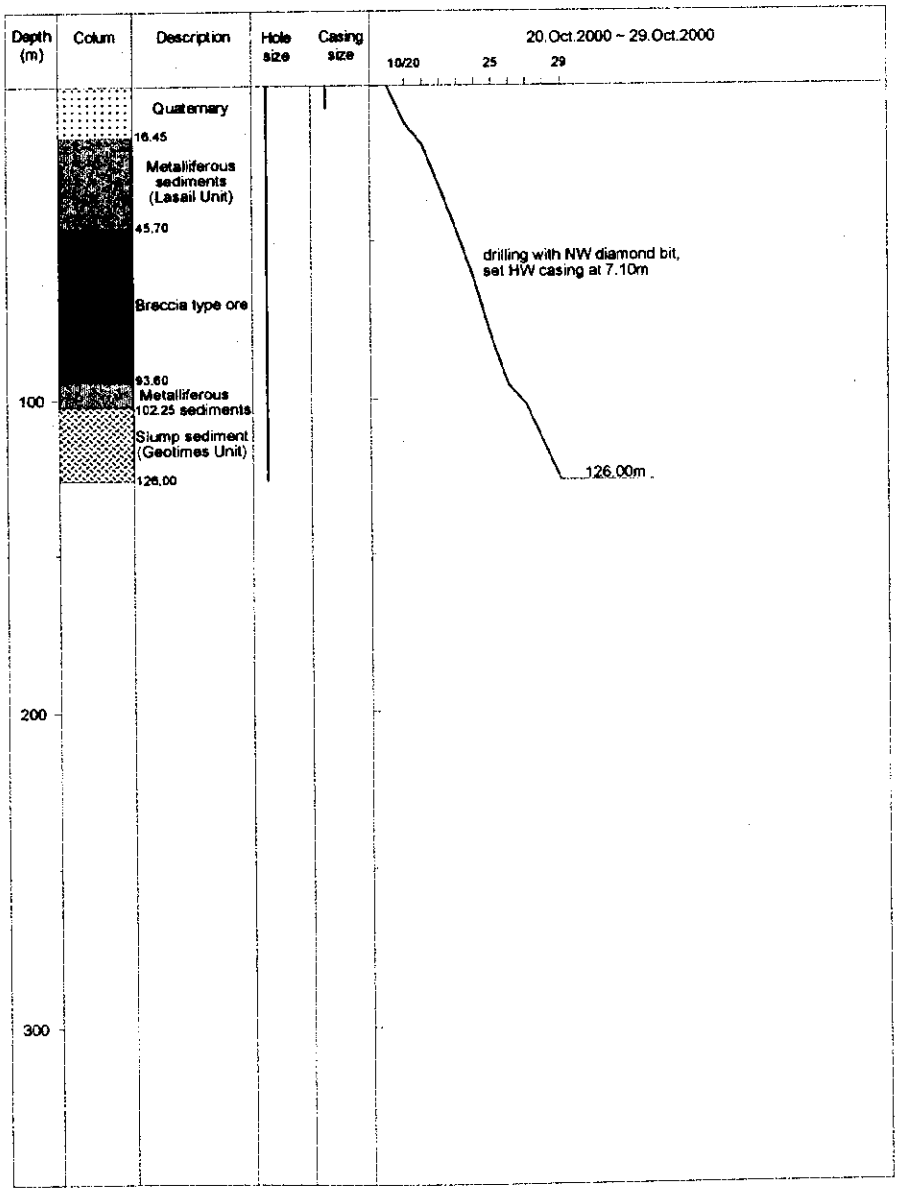

Depth (m)
Colum
Description
Hole size
Casing size
20.Oct.2000 ~ 29.Oct.2000
10/20
25
29
Quaternary
16.45
Metalliferous sediments (Lasail Unit)
45.70
Breccia type ore
93.60
Metalliferous sediments
102.25
Slump sediment (Geolimes Unit)
126.00
drilling with NW diamond bit, set HW casing at 7.10m
126.00m
100
200
300

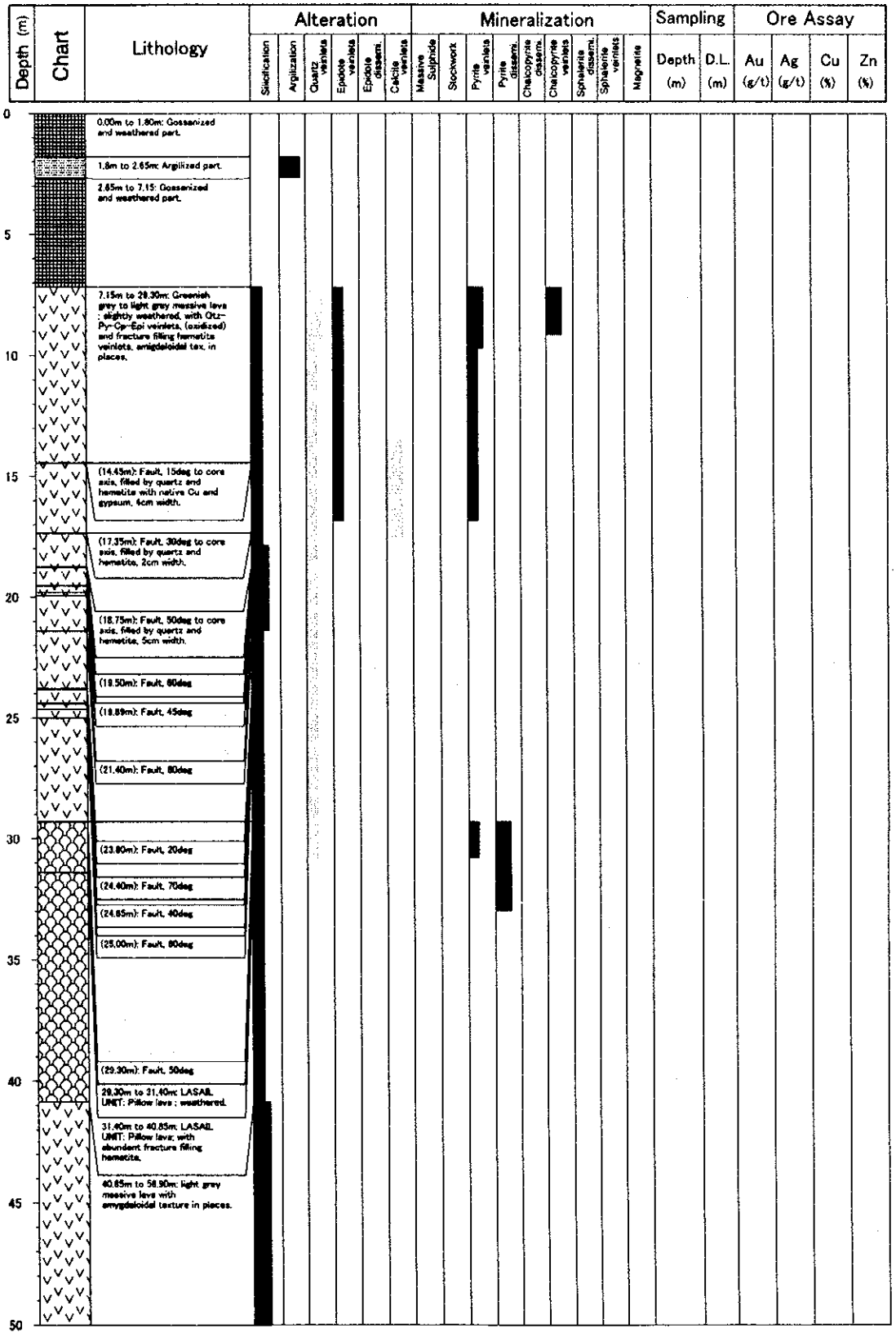
Appendix 3

Geologic core logs

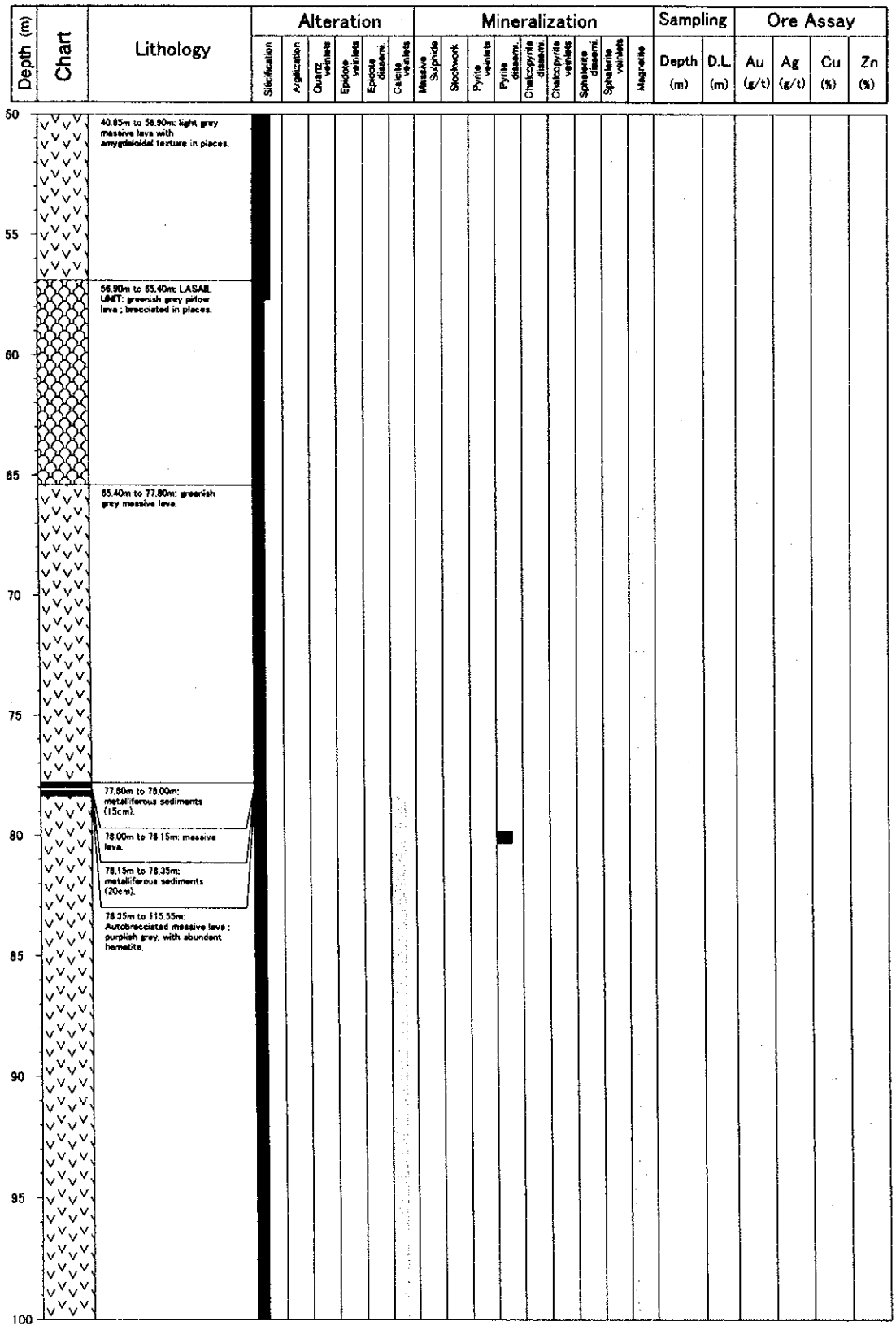
Appendix 3A

Geologic core logs for the drill holes of exploration work

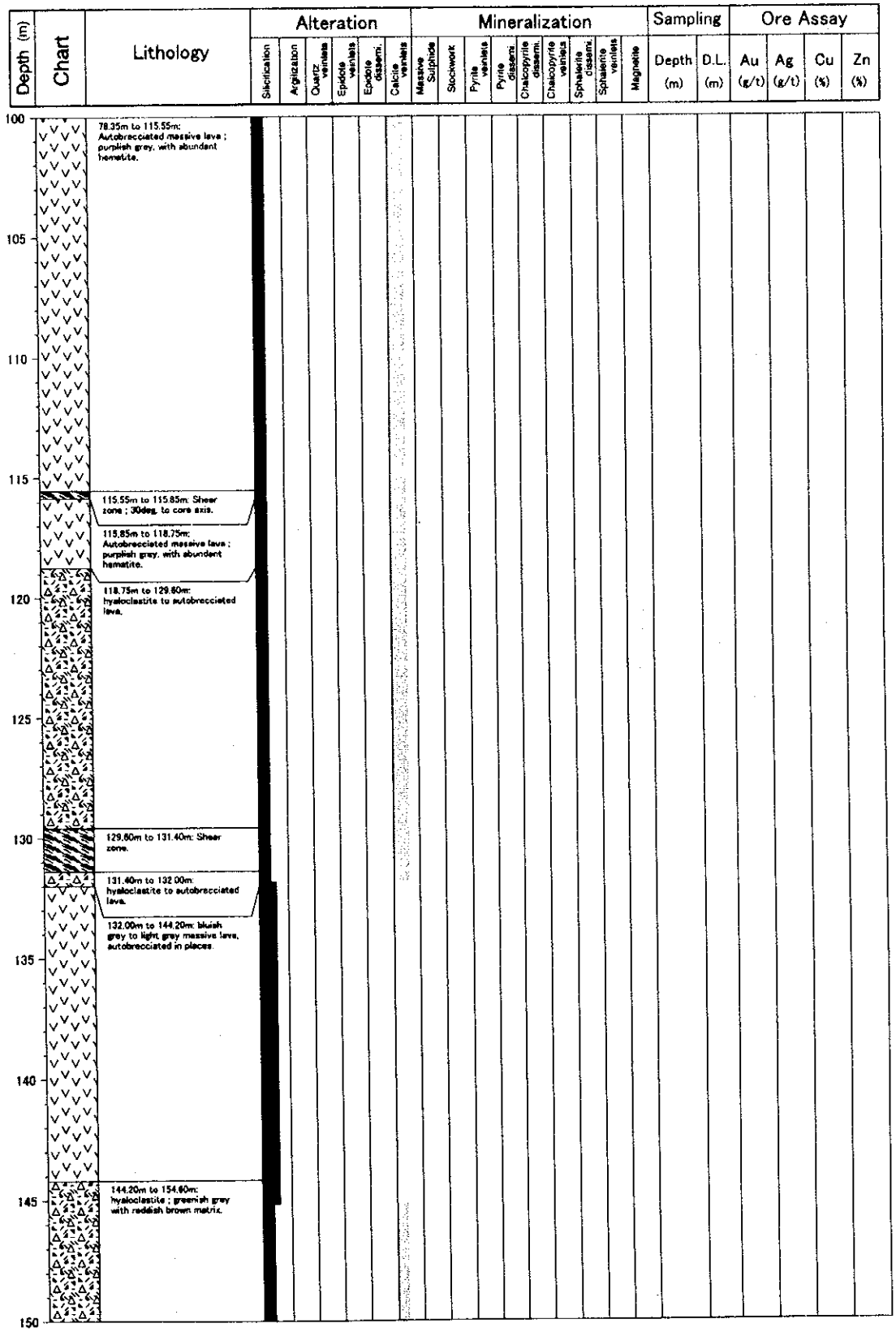
Hole No. MJOY-1 (251.10m ; from 0.00 m to 50.00 m)



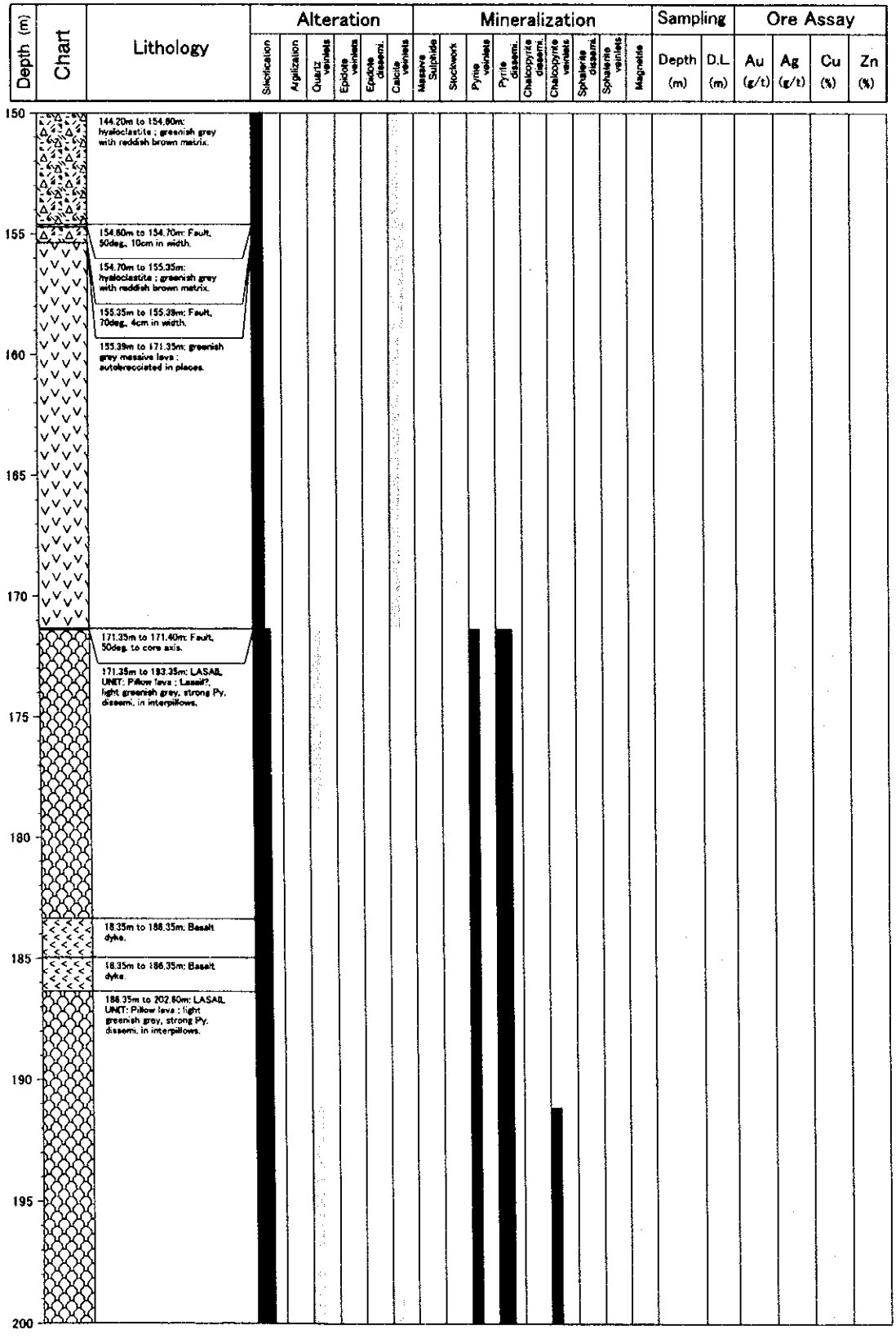
Hole No. MJOY-1 (251.10m ; from 50.00 m to 100.00 m)



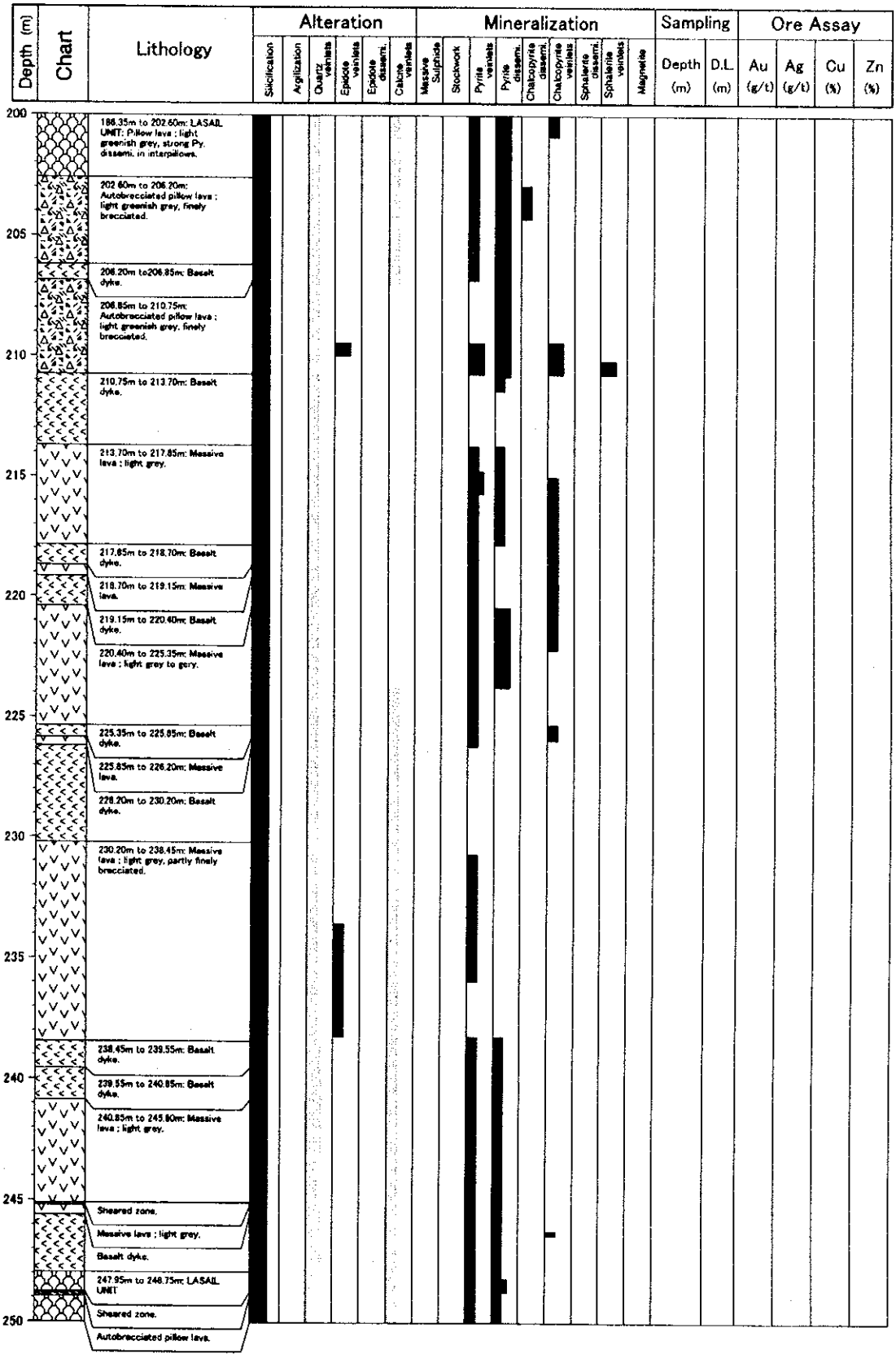
Hole No. MJOY-1 (251.10m ; from 100.00 m to 150.00 m)



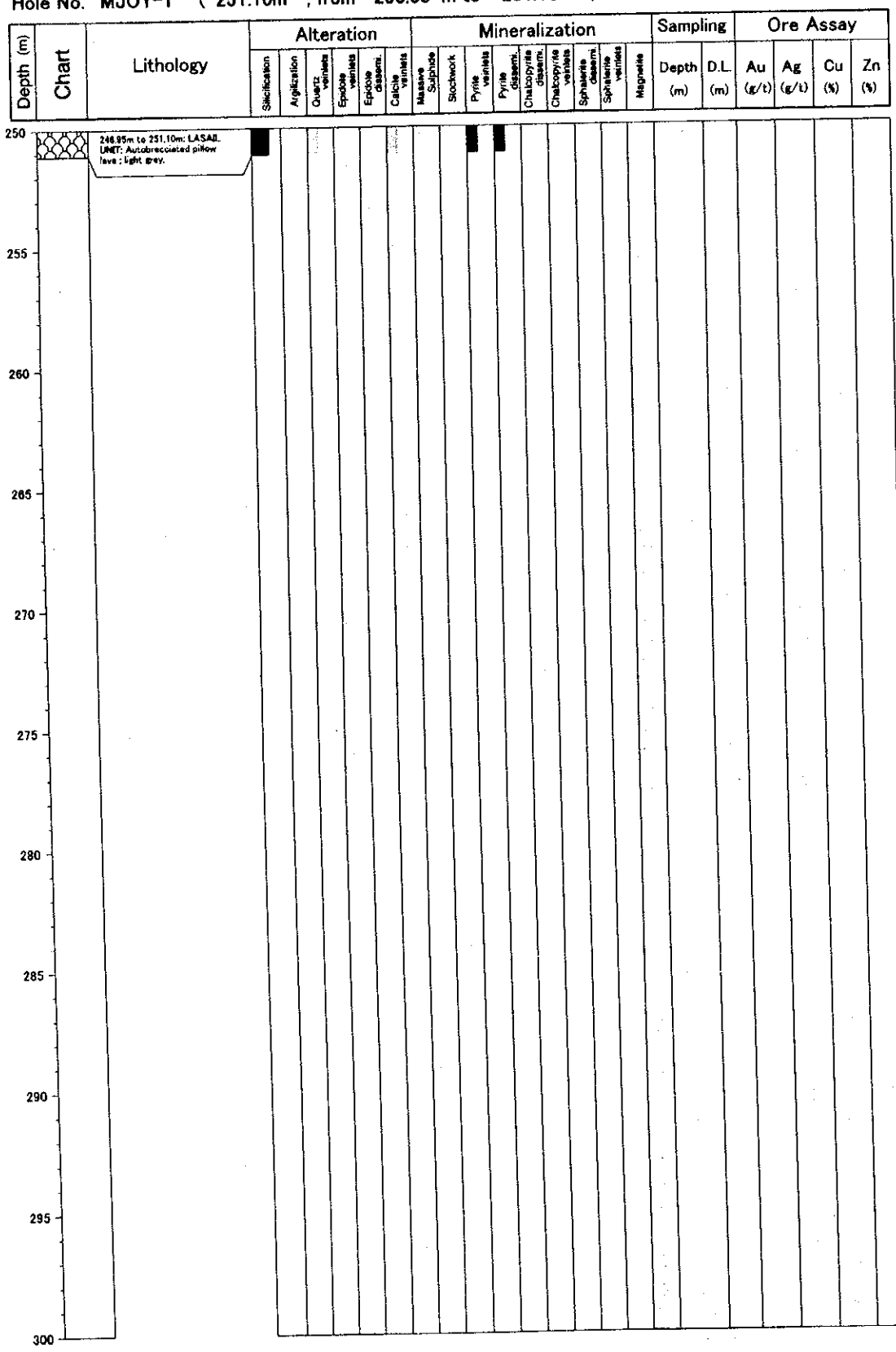
Hole No. MJOY-1 (251.10m ; from 150.00 m to 200.00 m)



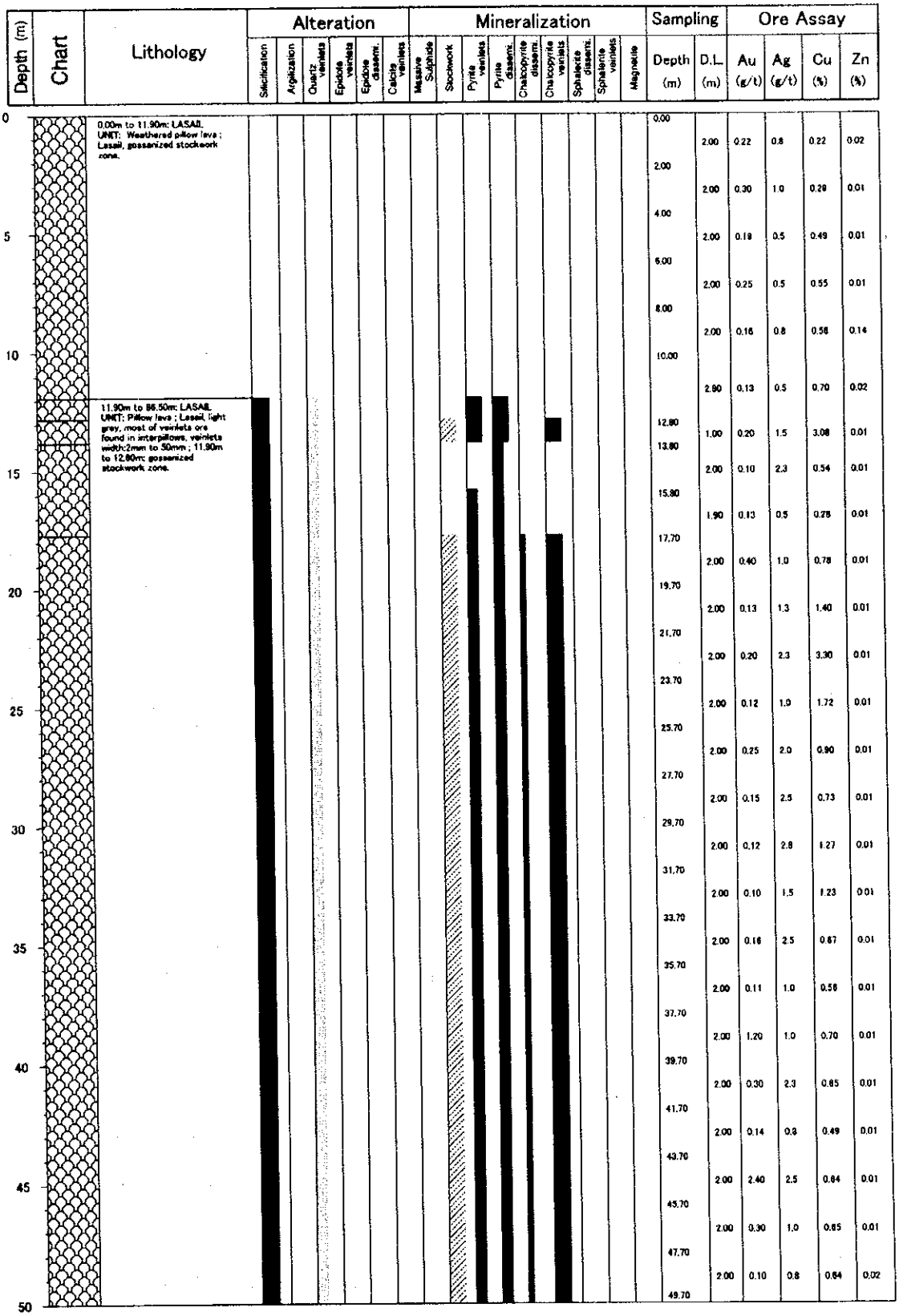
Hole No. MJOY-1 (251.10m ; from 200.00 m to 250.00 m)



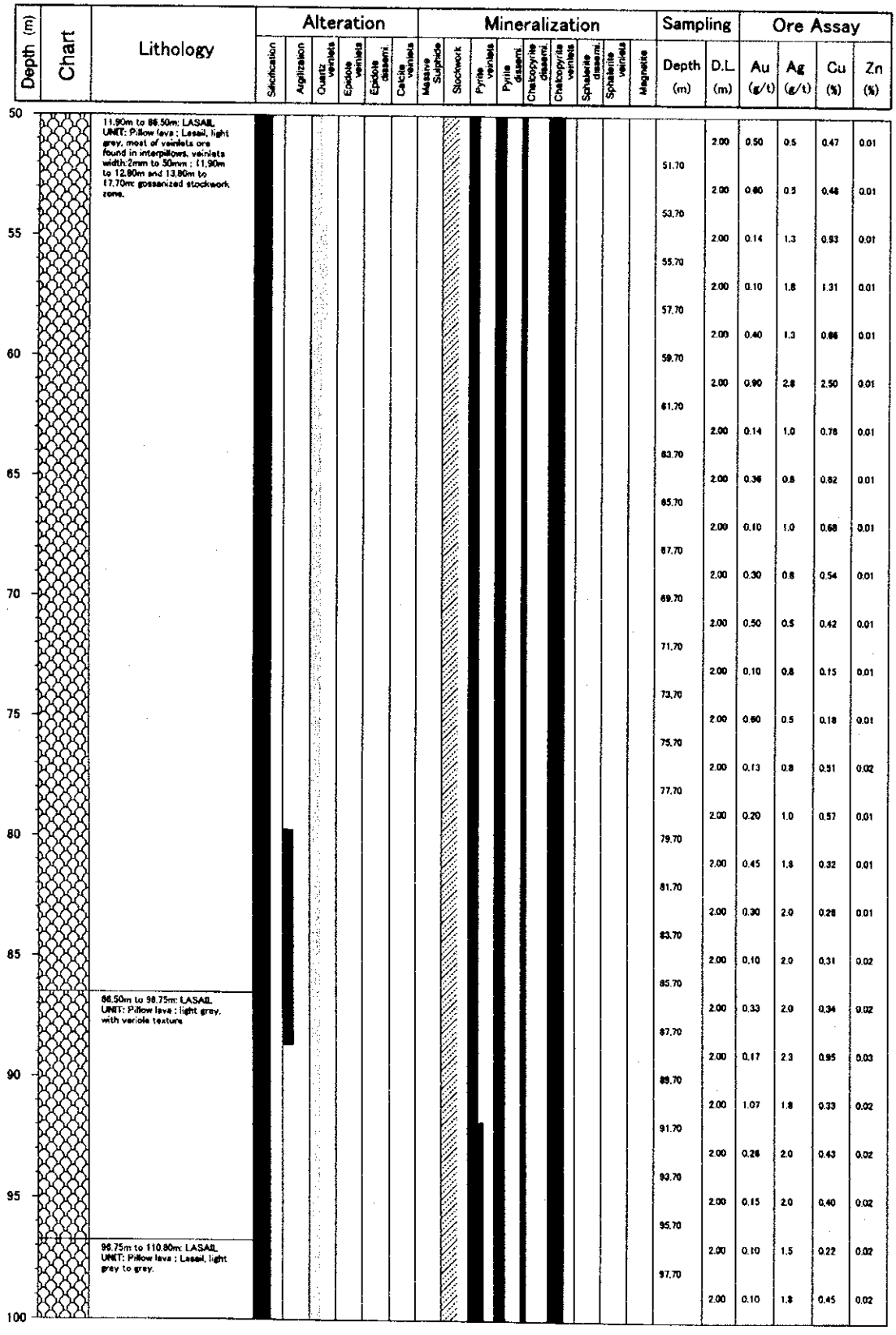
Hole No. MJOY-1 (251.10m ; from 250.00 m to 251.10 m)



Hole No. MJOY-2 (200.35m ; from 0.00 m to 50.00 m)

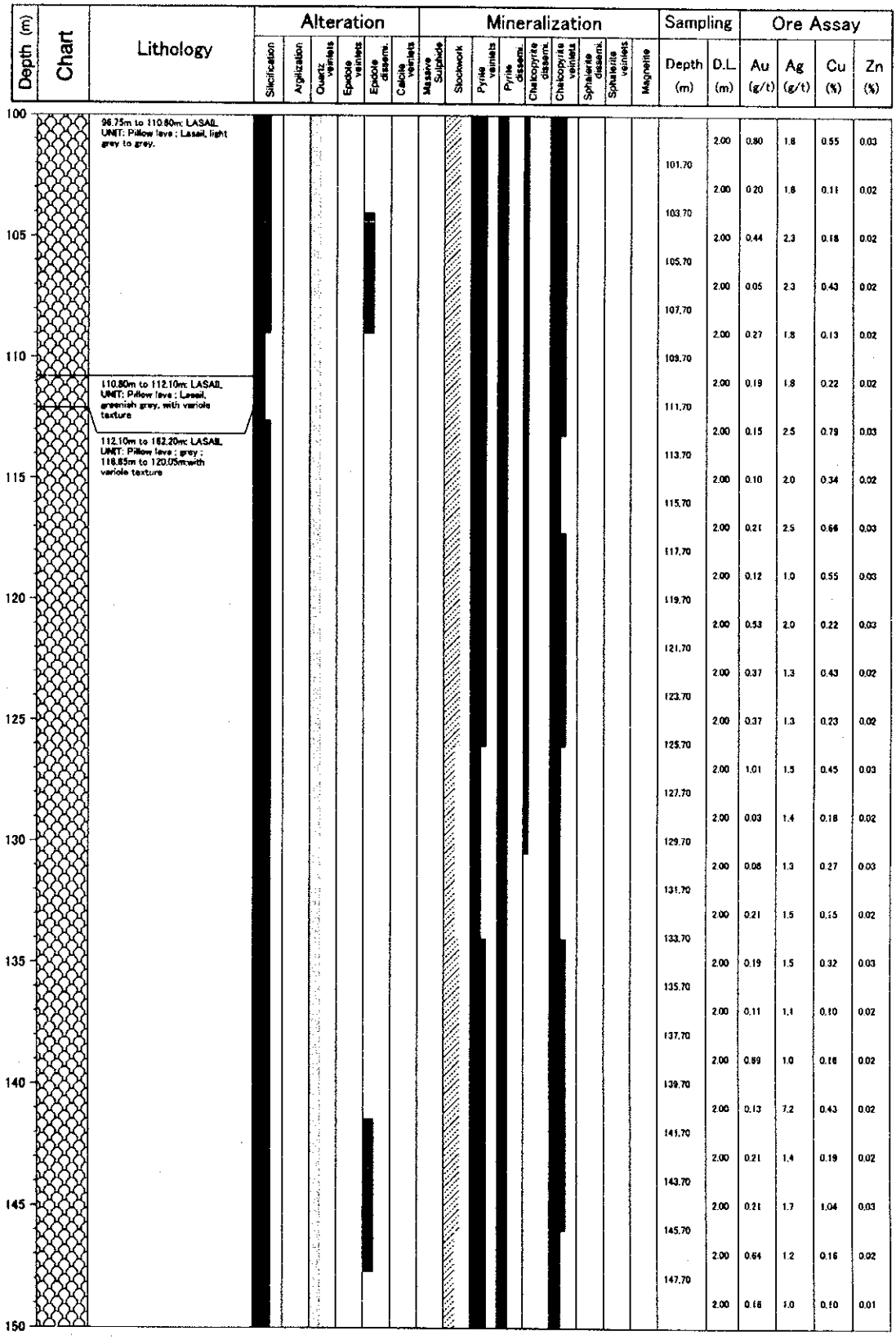


Hole No. MJOY-2 (200.35m ; from 50.00 m to 100.00 m)



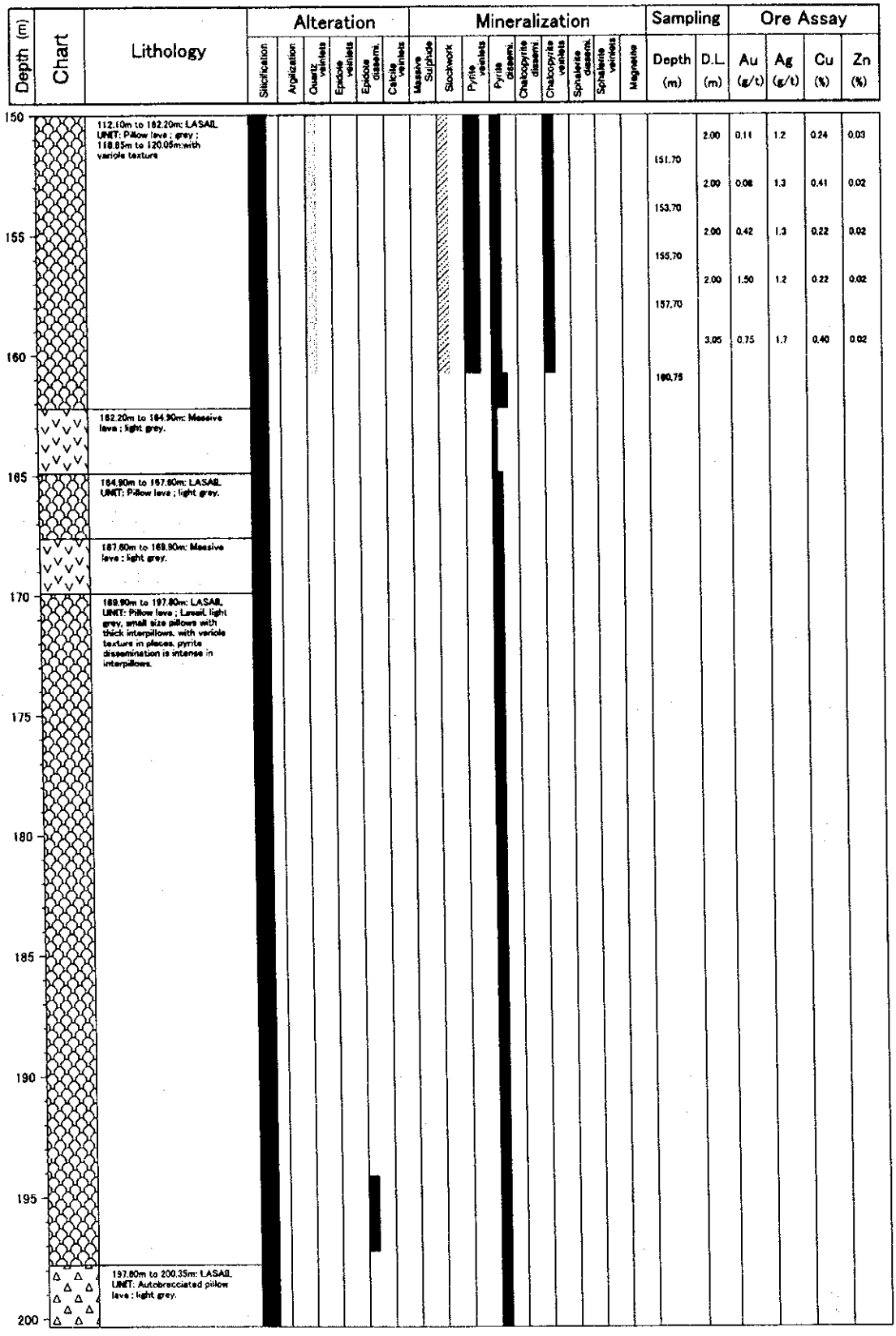
Sampling		Ore Assay			
Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
51.70	2.00	0.50	0.5	0.47	0.01
53.70	2.00	0.60	0.5	0.48	0.01
55.70	2.00	0.14	1.3	0.83	0.01
57.70	2.00	0.10	1.8	1.31	0.01
59.70	2.00	0.40	1.3	0.66	0.01
61.70	2.00	0.90	2.8	2.50	0.01
63.70	2.00	0.14	1.0	0.78	0.01
65.70	2.00	0.36	0.8	0.82	0.01
67.70	2.00	0.10	1.0	0.68	0.01
69.70	2.00	0.30	0.8	0.54	0.01
71.70	2.00	0.50	0.5	0.42	0.01
73.70	2.00	0.10	0.8	0.15	0.01
75.70	2.00	0.60	0.5	0.18	0.01
77.70	2.00	0.13	0.8	0.51	0.02
79.70	2.00	0.20	1.0	0.57	0.01
81.70	2.00	0.45	1.8	0.32	0.01
83.70	2.00	0.30	2.0	0.28	0.01
85.70	2.00	0.10	2.0	0.31	0.02
87.70	2.00	0.33	2.0	0.34	0.02
89.70	2.00	0.17	2.3	0.95	0.03
91.70	2.00	1.07	1.8	0.33	0.02
93.70	2.00	0.26	2.0	0.43	0.02
95.70	2.00	0.15	2.0	0.40	0.02
97.70	2.00	0.10	1.5	0.22	0.02
	2.00	0.10	1.8	0.45	0.02

Hole No. MJOY-2 (200.35m ; from 100.00 m to 150.00 m)

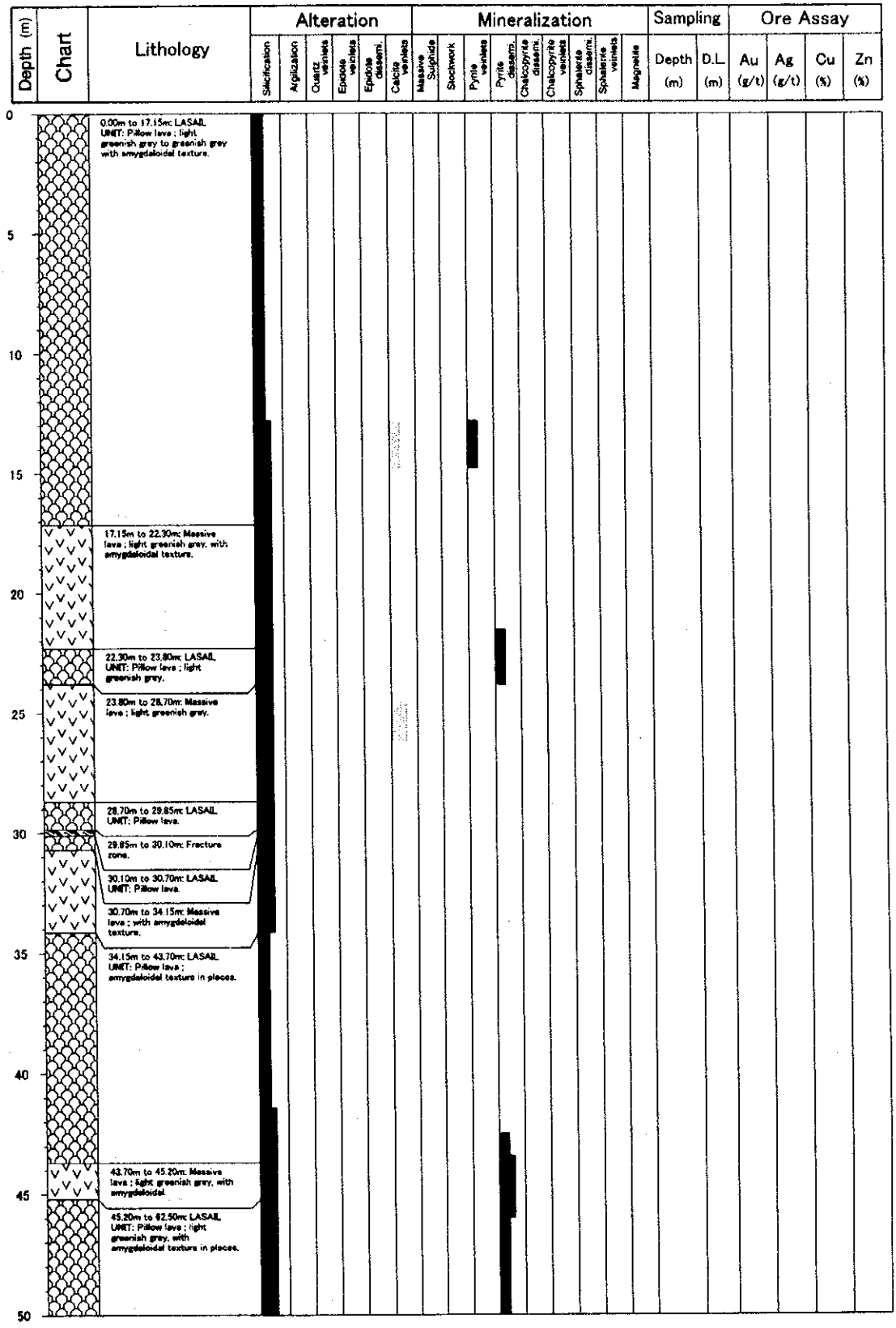


Sampling		Ore Assay			
Depth (m)	D.L (m)	Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
	2.00	0.80	1.8	0.55	0.03
101.70					
	2.00	0.20	1.8	0.11	0.02
103.70					
	2.00	0.44	2.3	0.18	0.02
105.70					
	2.00	0.05	2.3	0.43	0.02
107.70					
	2.00	0.27	1.8	0.13	0.02
109.70					
	2.00	0.19	1.8	0.22	0.02
111.70					
	2.00	0.15	2.5	0.79	0.03
113.70					
	2.00	0.10	2.0	0.34	0.02
115.70					
	2.00	0.21	2.5	0.66	0.03
117.70					
	2.00	0.12	1.0	0.55	0.03
119.70					
	2.00	0.53	2.0	0.22	0.03
121.70					
	2.00	0.37	1.3	0.43	0.02
123.70					
	2.00	0.37	1.3	0.23	0.02
125.70					
	2.00	1.01	1.5	0.45	0.03
127.70					
	2.00	0.03	1.4	0.18	0.02
129.70					
	2.00	0.06	1.3	0.27	0.03
131.70					
	2.00	0.21	1.5	0.55	0.02
133.70					
	2.00	0.19	1.5	0.32	0.03
135.70					
	2.00	0.11	1.1	0.10	0.02
137.70					
	2.00	0.89	1.0	0.16	0.02
139.70					
	2.00	0.13	7.2	0.43	0.02
141.70					
	2.00	0.21	1.4	0.19	0.02
143.70					
	2.00	0.21	1.7	1.04	0.03
145.70					
	2.00	0.64	1.2	0.16	0.02
147.70					
	2.00	0.16	1.0	0.10	0.01

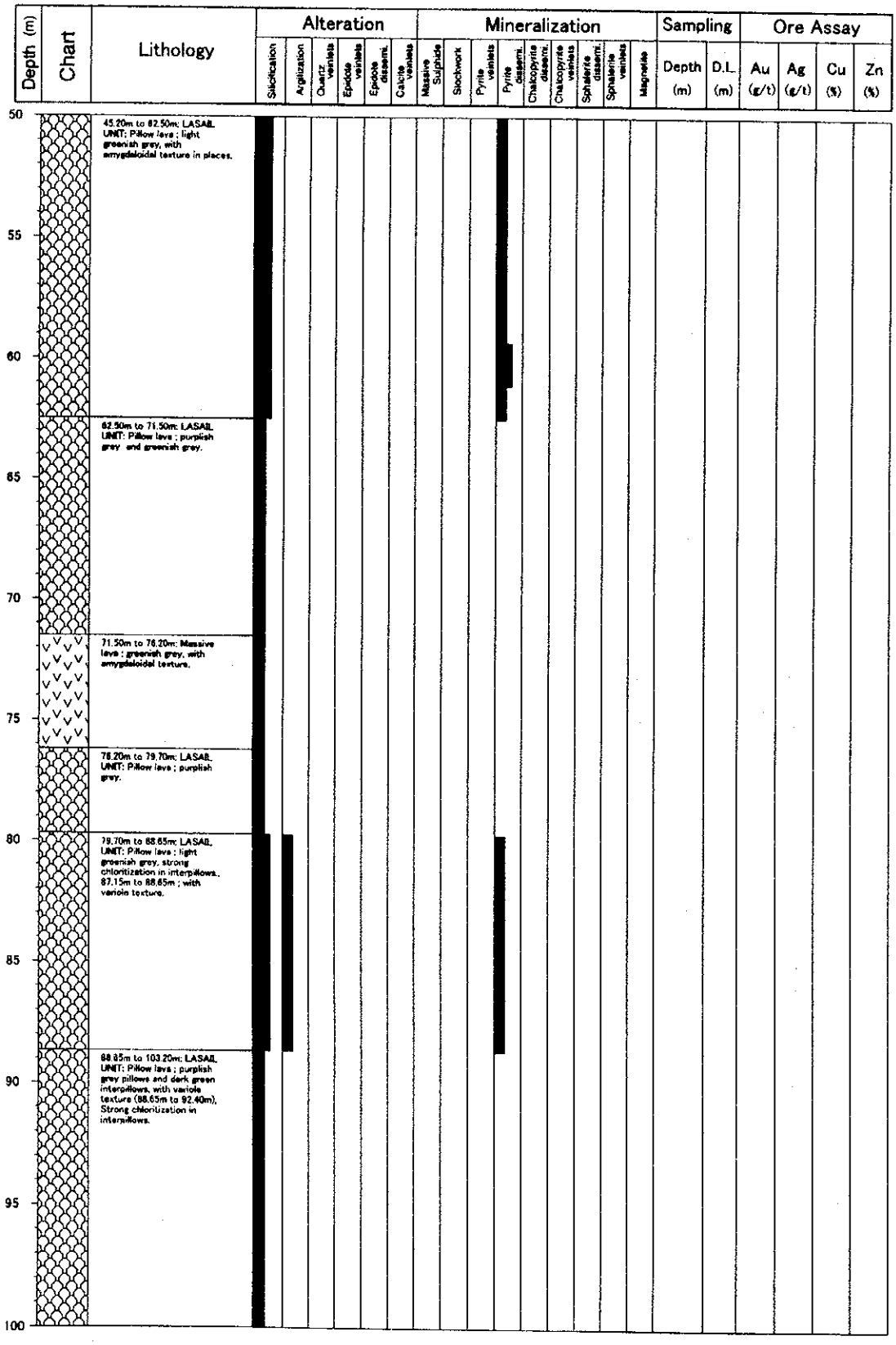
Hole No. MJOY-2 (200.35m ; from 150.00 m to 200.35 m)



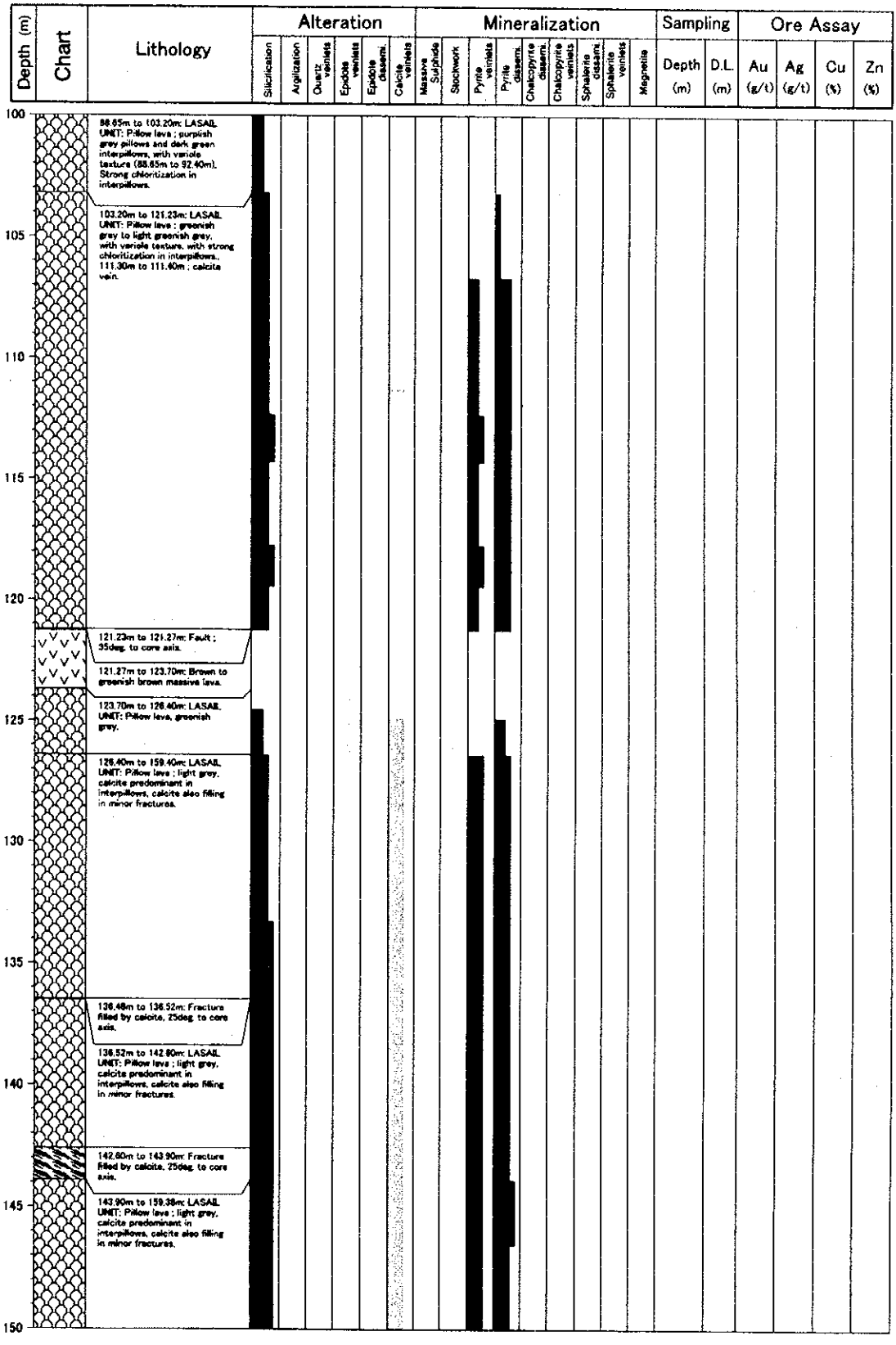
Hole No. MJOY-3 (251.10m ; from 0.00 m to 50.00 m)



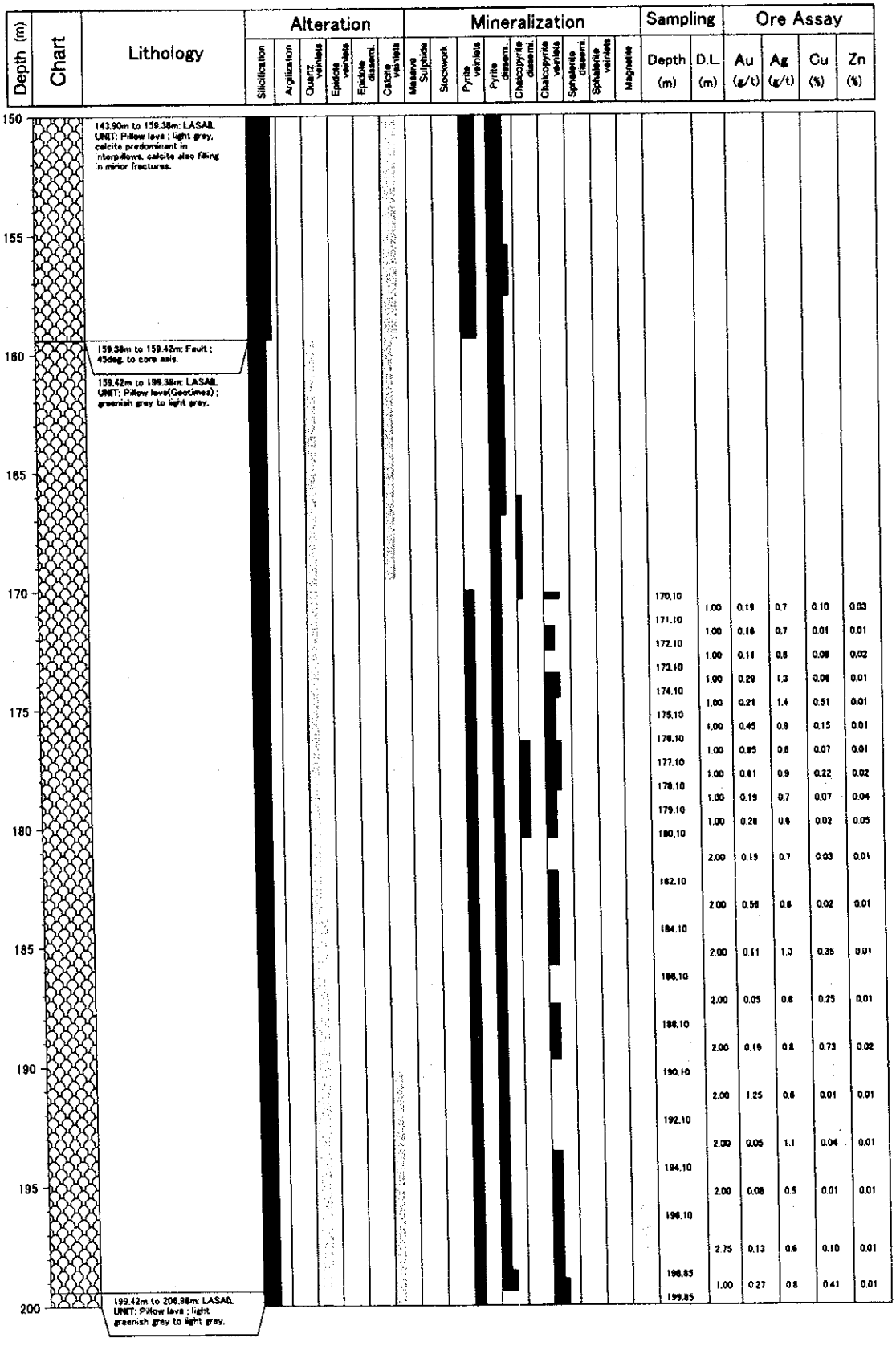
Hole No. MJOY-3 (251.10m ; from 50.00 m to 100.00 m)



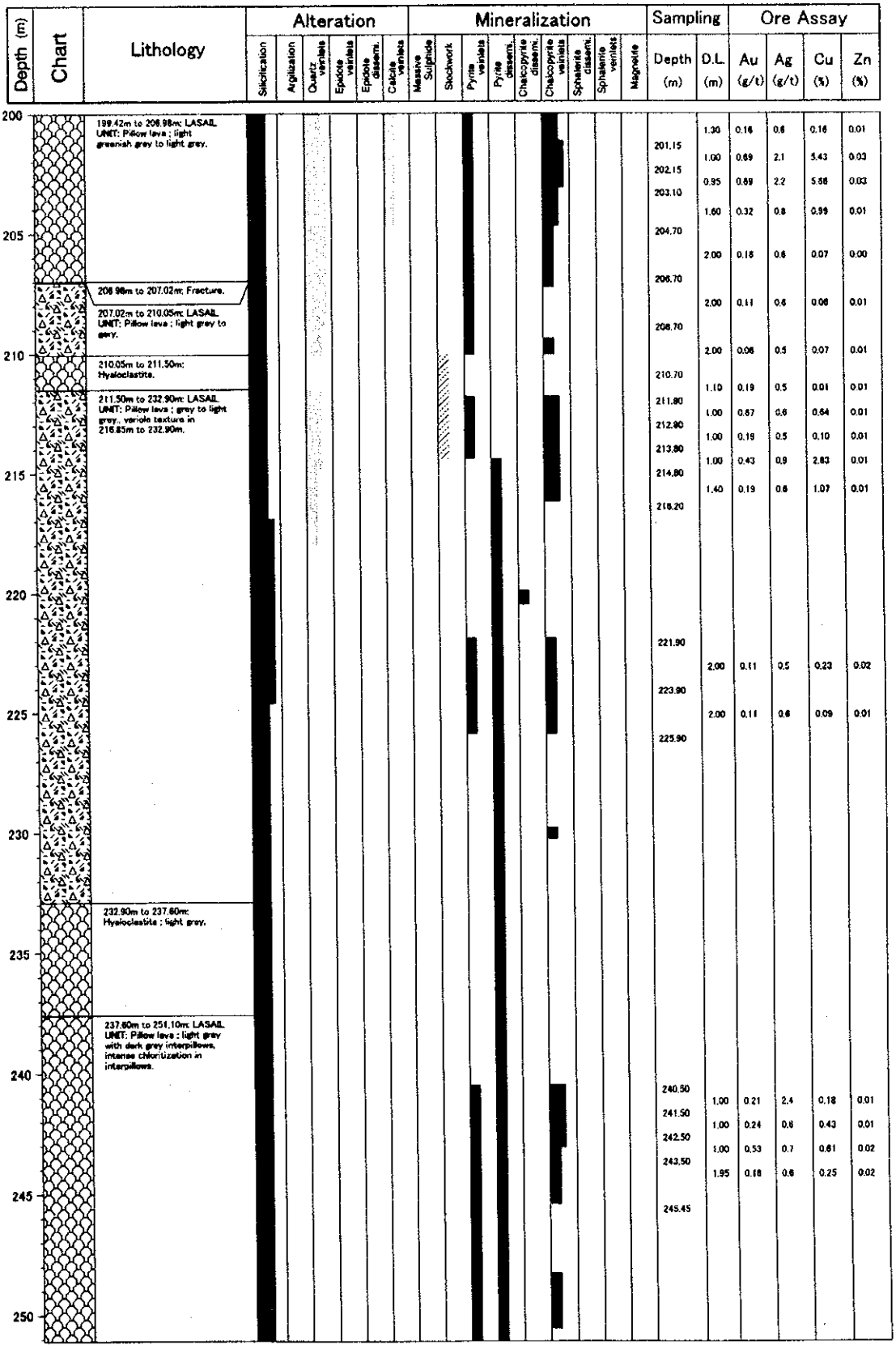
Hole No. MJOY-3 (251.10m ; from 100.00 m to 150.00 m)



Hole No. MJOY-3 (251.10m ; from 150.00 m to 200.00 m)

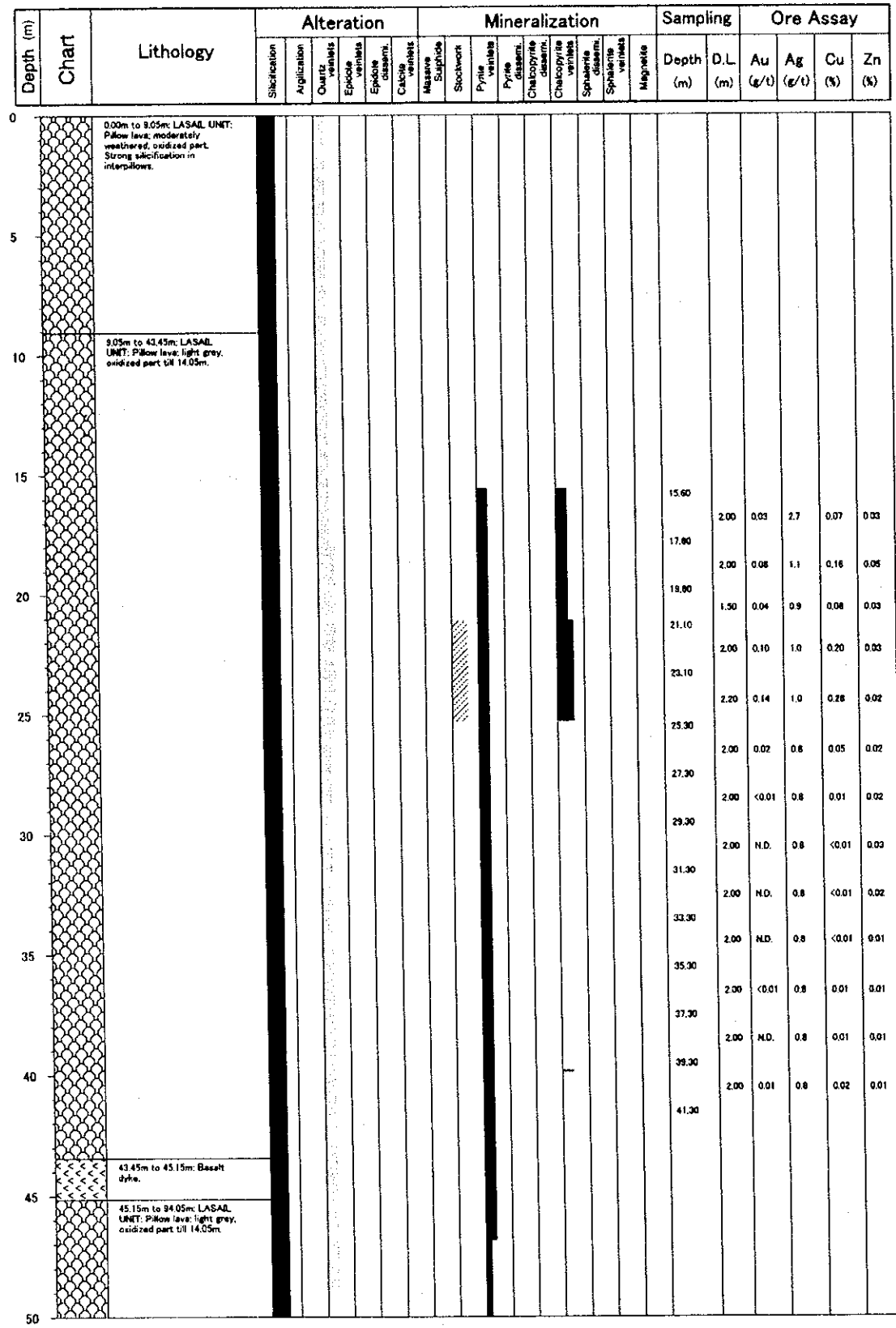


Hole No. MJOY-3 (251.10m ; from 200.00 m to 251.10 m)

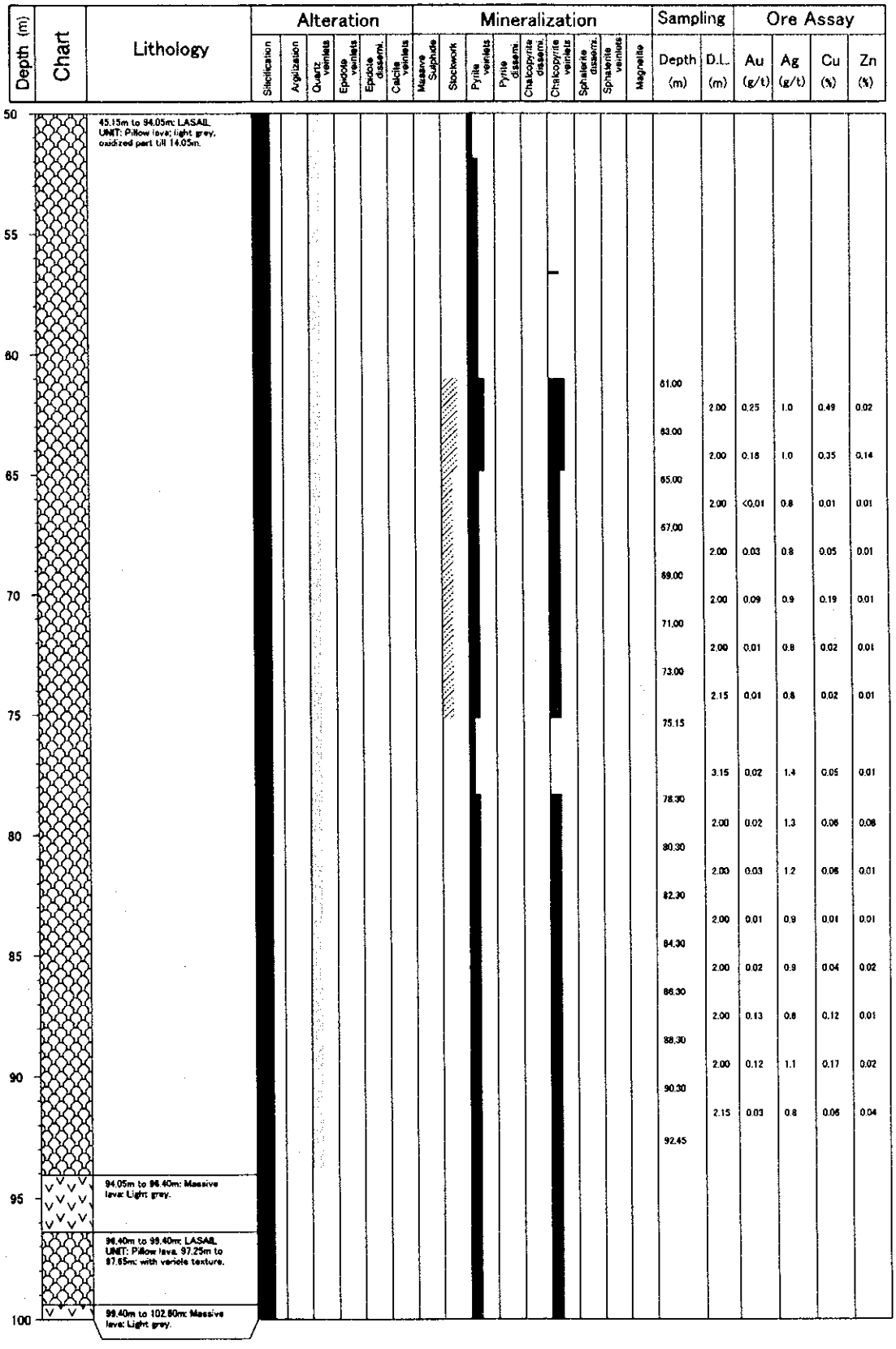


Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
201.15	1.30	0.16	0.6	0.16	0.01
202.15	1.00	0.69	2.1	5.43	0.03
203.10	0.95	0.69	2.2	5.66	0.03
204.70	1.60	0.32	0.8	0.99	0.01
206.70	2.00	0.18	0.6	0.07	0.00
208.70	2.00	0.11	0.6	0.06	0.01
210.70	2.00	0.06	0.5	0.07	0.01
211.80	1.10	0.19	0.5	0.01	0.01
212.80	1.00	0.67	0.6	0.64	0.01
213.80	1.00	0.19	0.5	0.10	0.01
214.80	1.00	0.43	0.9	2.83	0.01
216.20	1.40	0.19	0.6	1.07	0.01
221.90	2.00	0.11	0.5	0.23	0.02
223.90	2.00	0.11	0.6	0.09	0.01
225.90					
240.50	1.00	0.21	2.4	0.18	0.01
241.50	1.00	0.24	0.6	0.43	0.01
242.50	1.00	0.53	0.7	0.61	0.02
243.50	1.95	0.18	0.6	0.25	0.02
245.45					

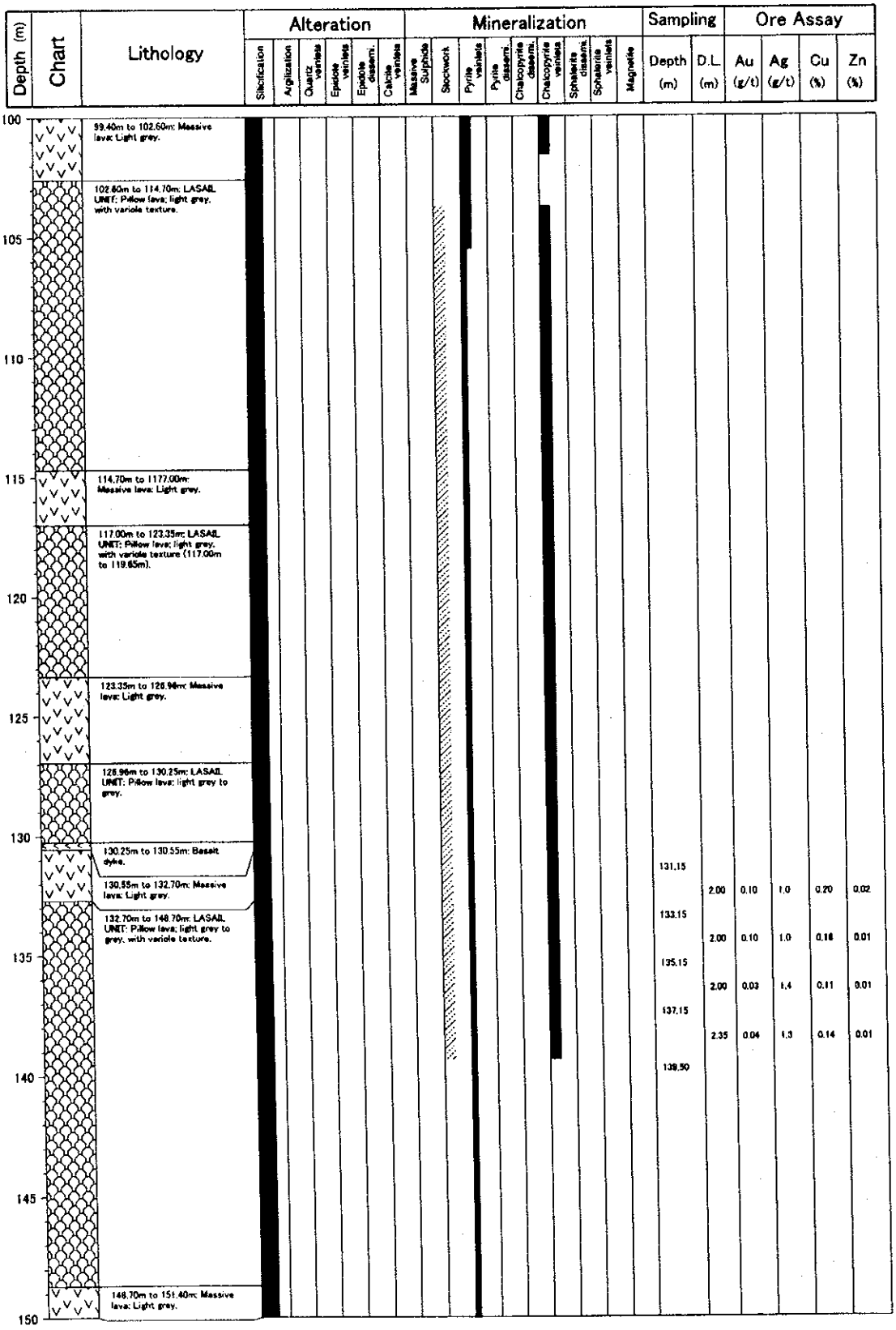
Hole No. MJOY-4 (200.10m ; from 0.00 m to 50.00 m)



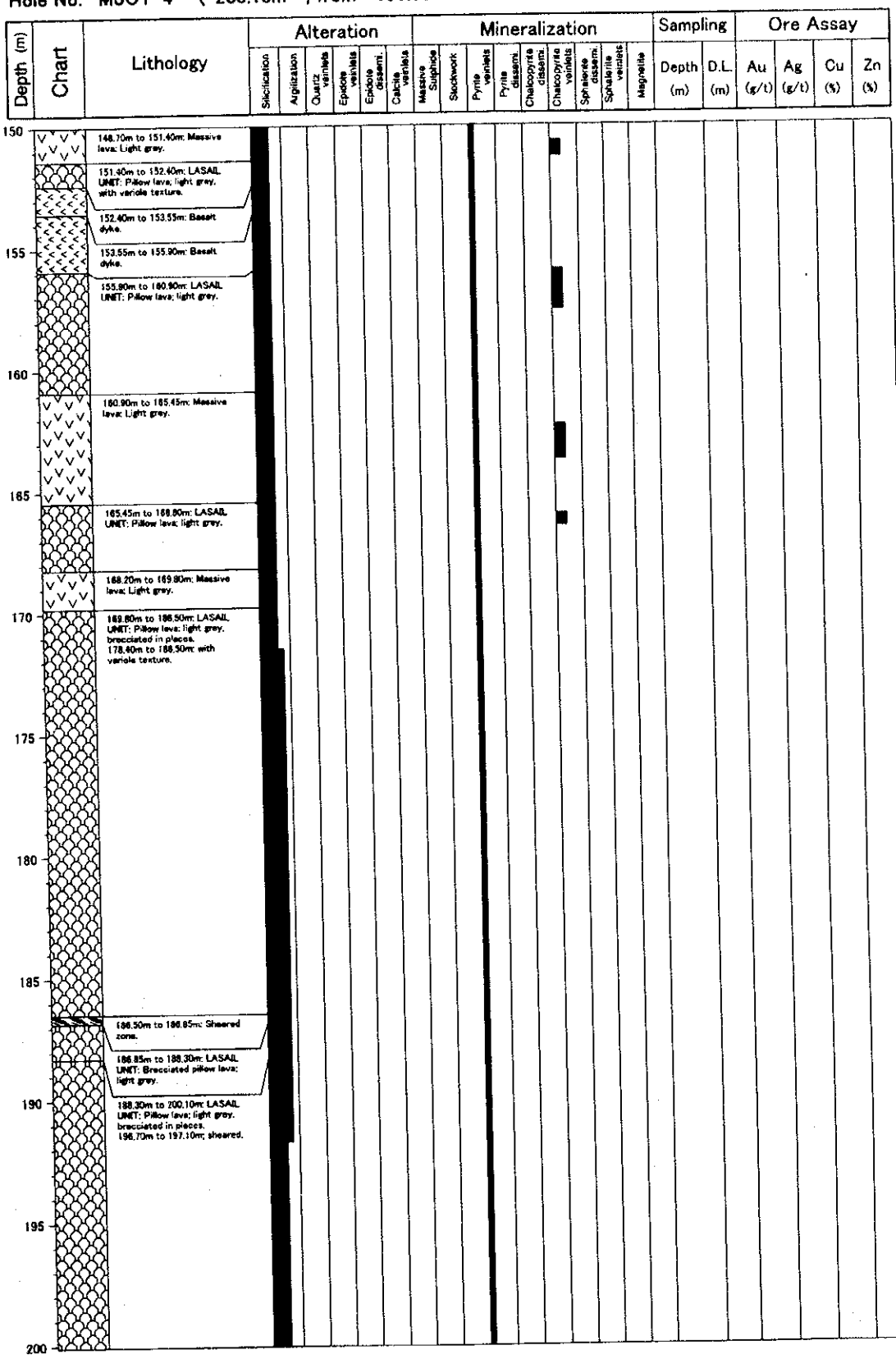
Hole No. MJOY-4 (200.10m ; from 50.00 m to 100.00 m)



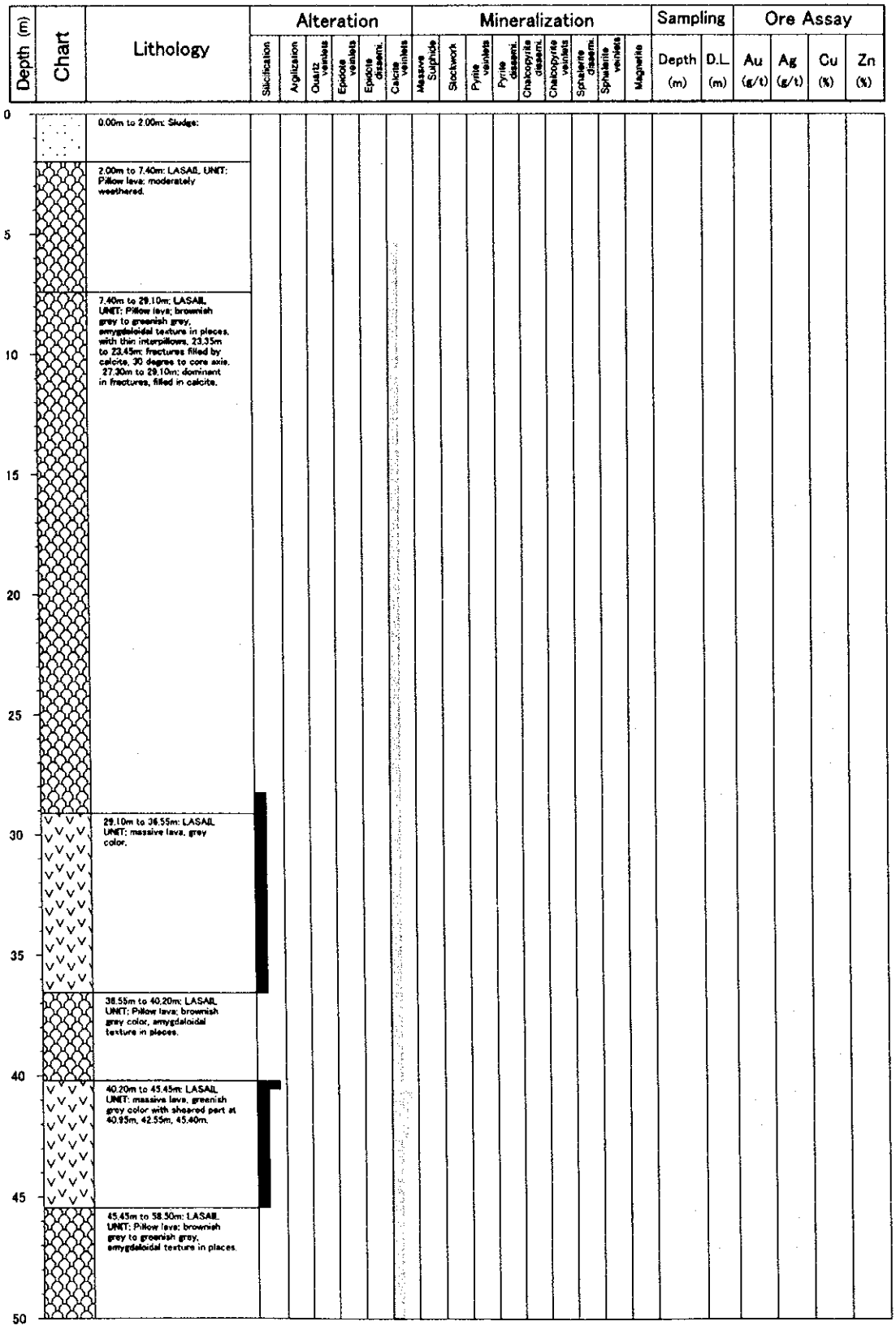
Hole No. MJOY-4 (200.10m ; from 100.00 m to 150.00 m)



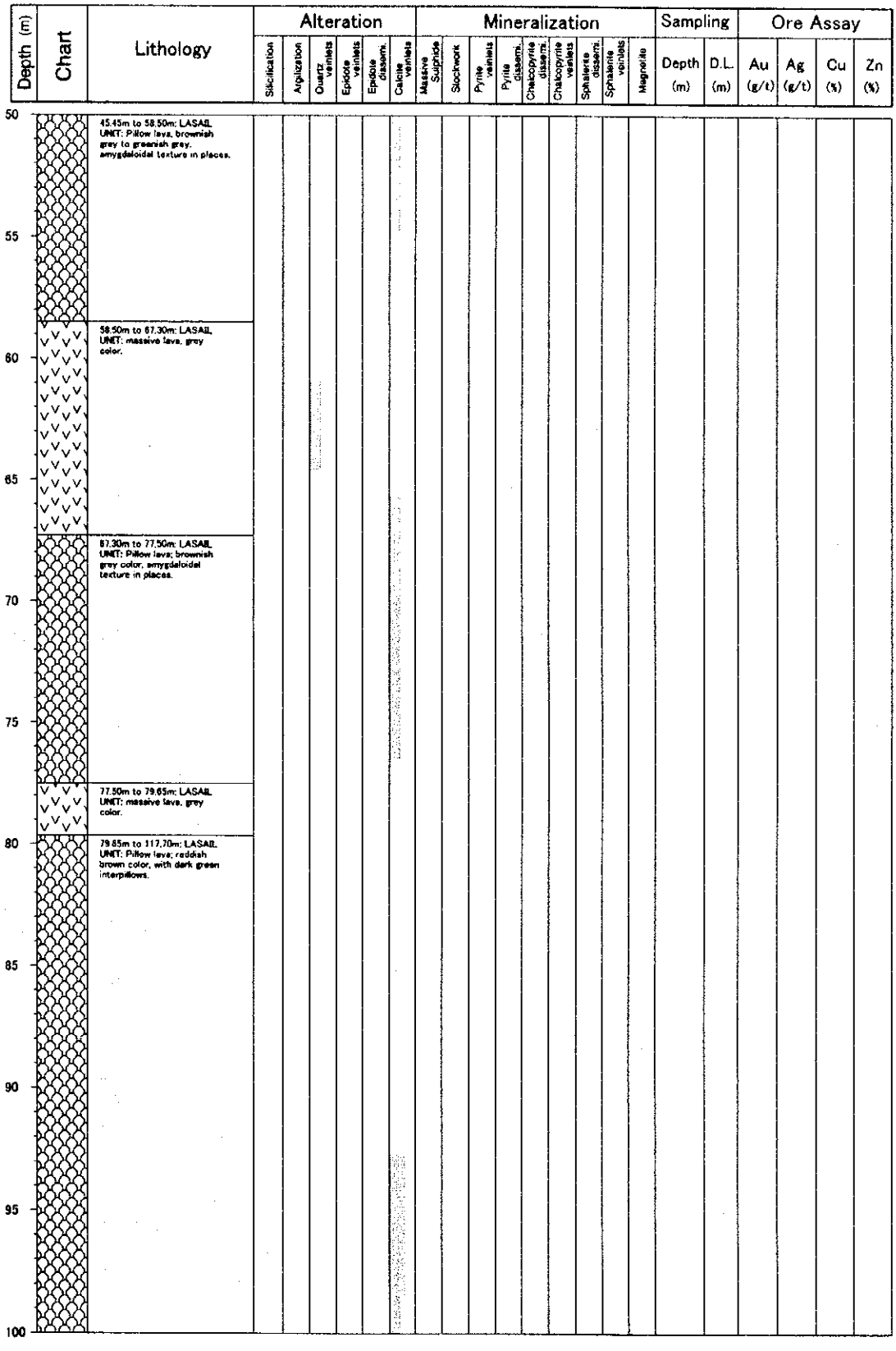
Hole No. MJOY-4 (200.10m ; from 150.00 m to 200.10 m)



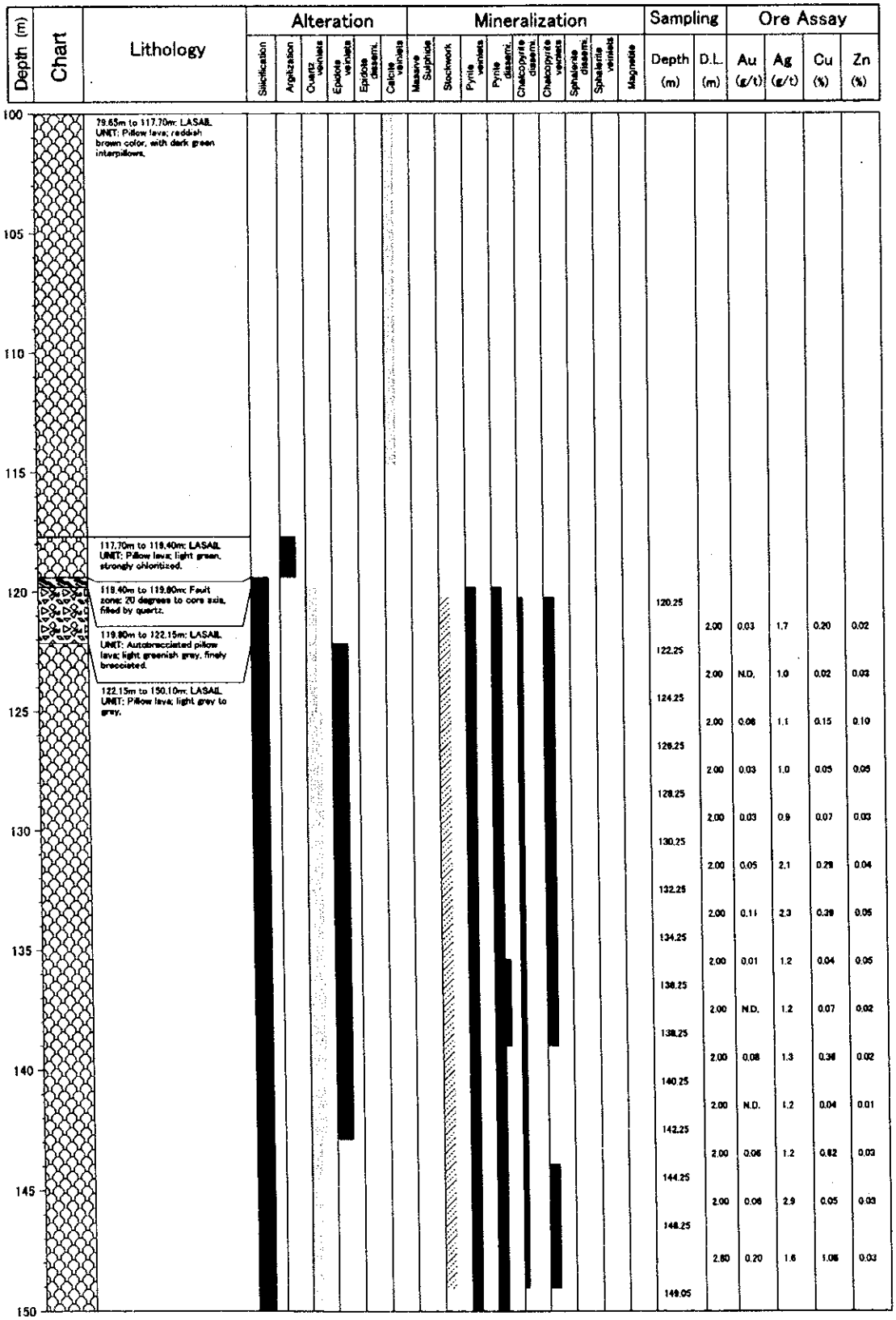
Hole No. MJOY-5 (250.10m ; from 0.00 m to 50.00 m)



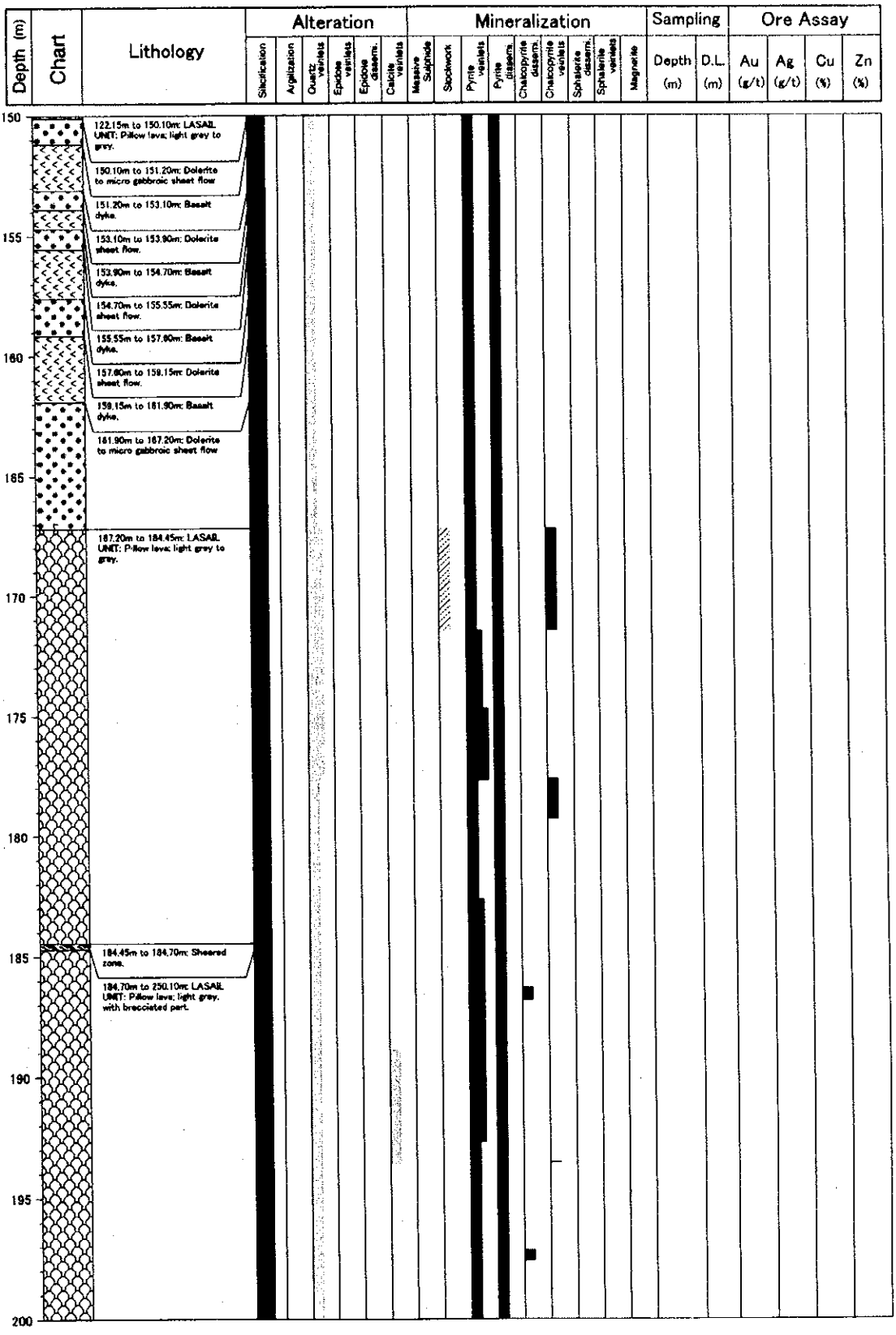
Hole No. MJOY-5 (250.10m ; from 50.00 m to 100.00 m)



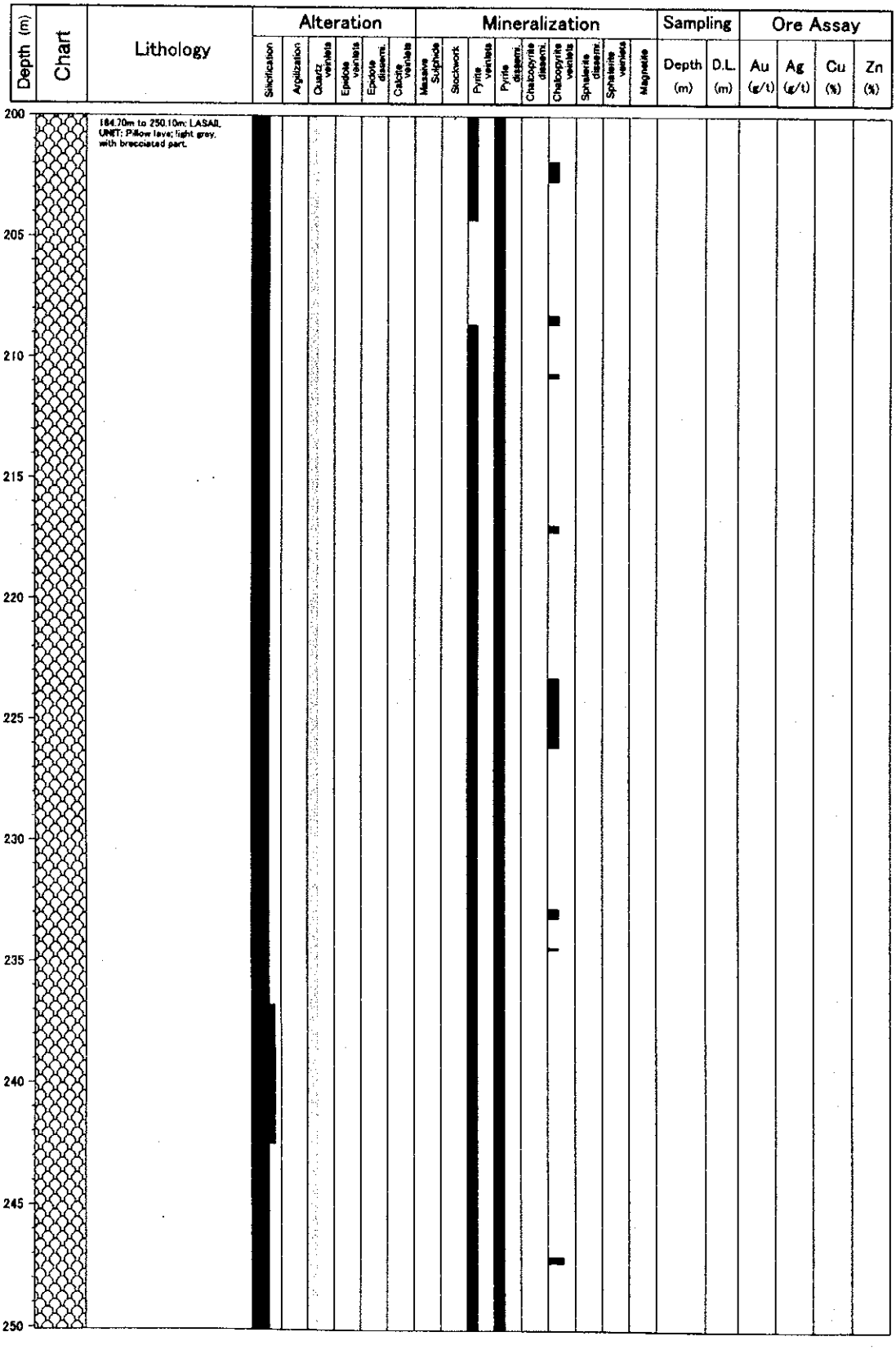
Hole No. MJOY-5 (250.10m ; from 100.00 m to 150.00 m)



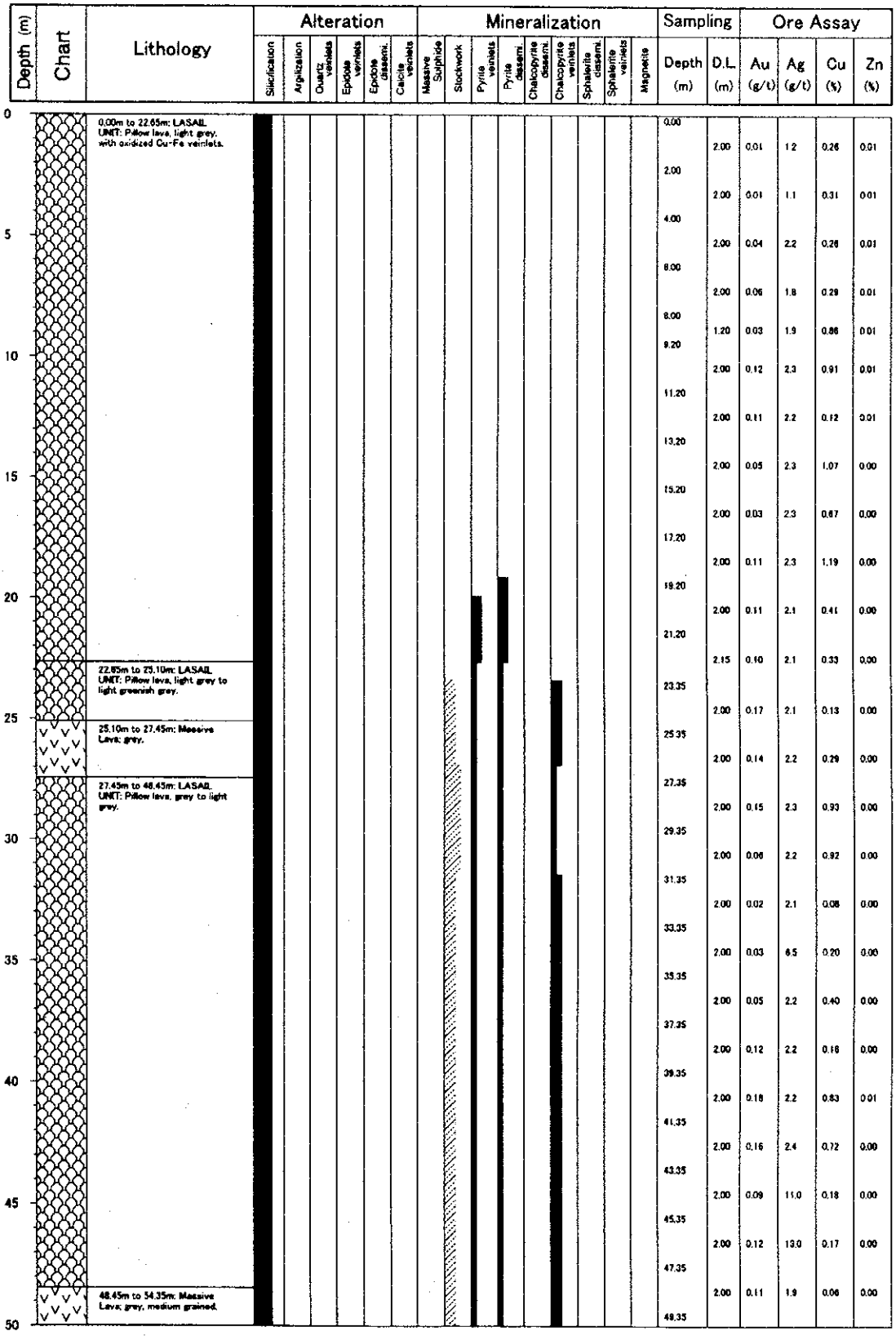
Hole No. MJOY-5 (250.10m ; from 150.00 m to 200.00 m)



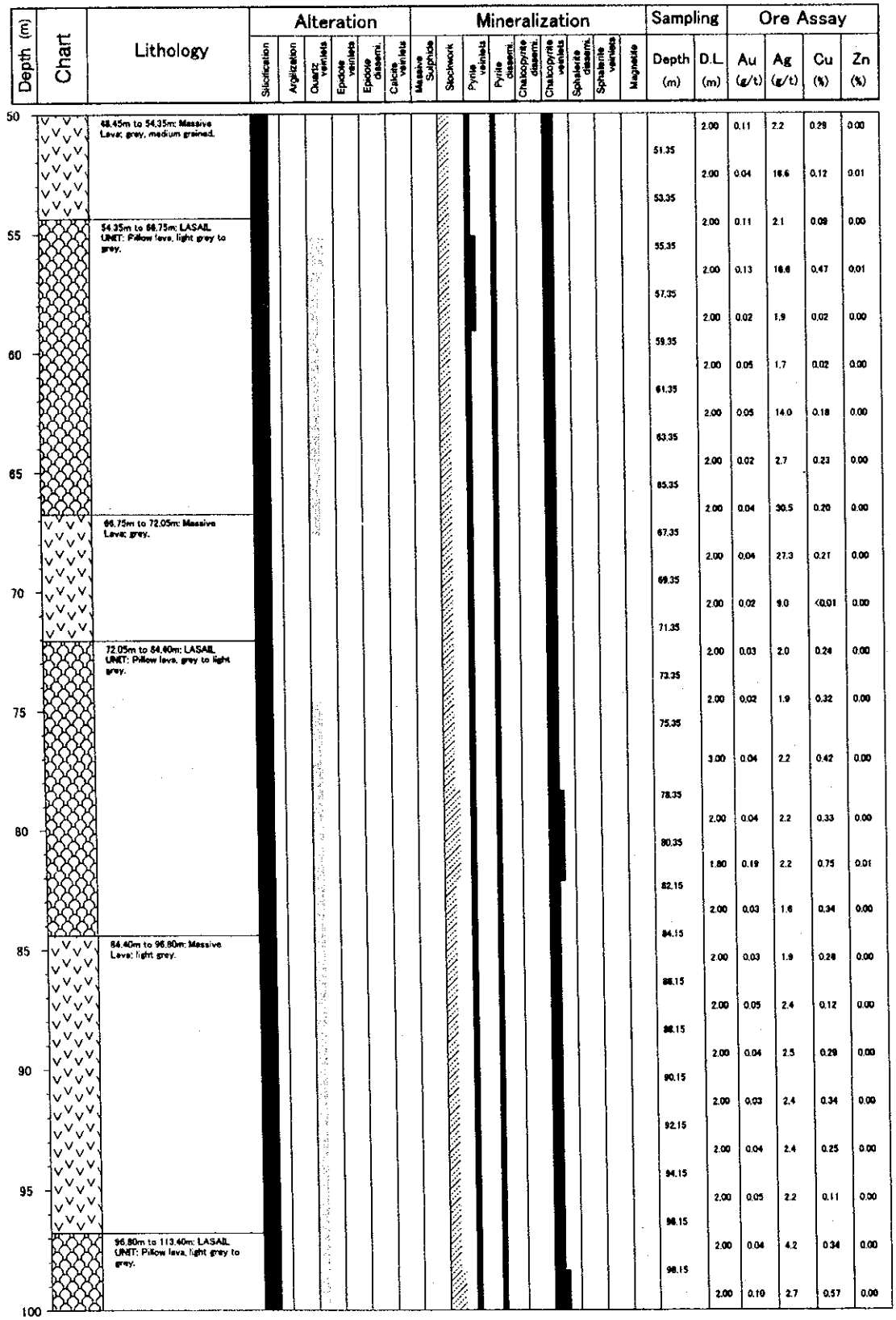
Hole No. MJOY-5 (250.10m ; from 200.00 m to 250.10 m)



Hole No. MJOY-6 (250.65m ; from 0.00 m to 50.00 m)

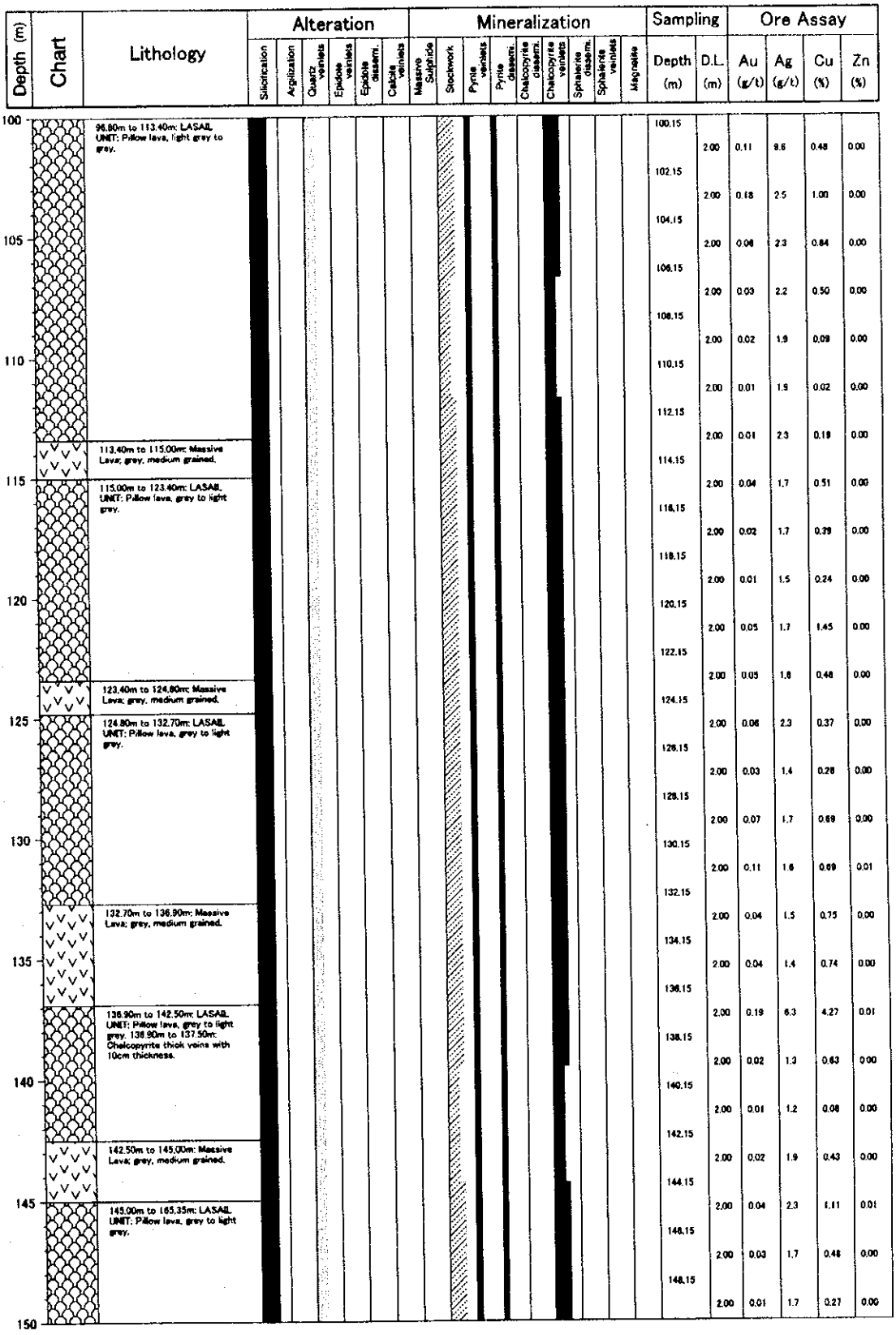


Hole No. MJOY-6 (250.65m ; from 50.00 m to 100.00 m)



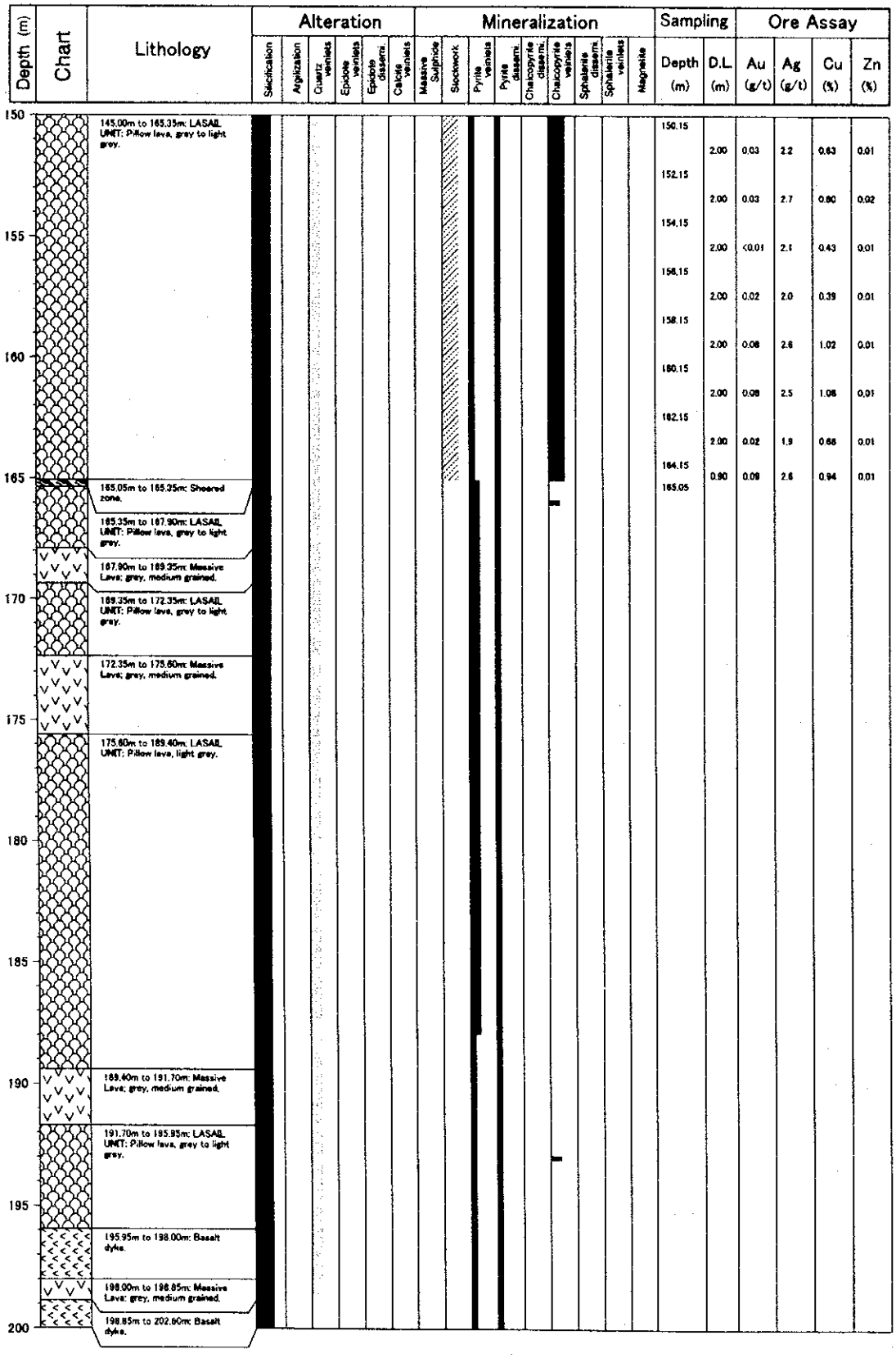
Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
51.35	2.00	0.11	2.2	0.29	0.00
	2.00	0.04	16.6	0.12	0.01
53.35	2.00	0.11	2.1	0.09	0.00
55.35	2.00	0.13	16.6	0.47	0.01
57.35	2.00	0.02	1.9	0.02	0.00
59.35	2.00	0.05	1.7	0.02	0.00
61.35	2.00	0.05	14.0	0.18	0.00
63.35	2.00	0.02	2.7	0.23	0.00
65.35	2.00	0.04	30.5	0.20	0.00
67.35	2.00	0.04	27.3	0.21	0.00
69.35	2.00	0.02	9.0	<0.01	0.00
71.35	2.00	0.03	2.0	0.24	0.00
73.35	2.00	0.02	1.9	0.32	0.00
75.35	3.00	0.04	2.2	0.42	0.00
78.35	2.00	0.04	2.2	0.33	0.00
80.35	1.80	0.19	2.2	0.75	0.01
82.15	2.00	0.03	1.6	0.34	0.00
84.15	2.00	0.03	1.9	0.28	0.00
86.15	2.00	0.05	2.4	0.12	0.00
88.15	2.00	0.04	2.5	0.29	0.00
90.15	2.00	0.03	2.4	0.34	0.00
92.15	2.00	0.04	2.4	0.25	0.00
94.15	2.00	0.05	2.2	0.11	0.00
96.15	2.00	0.04	4.2	0.34	0.00
98.15	2.00	0.10	2.7	0.57	0.00

Hole No. MJOY-6 (250.65m ; from 100.00 m to 150.00 m)

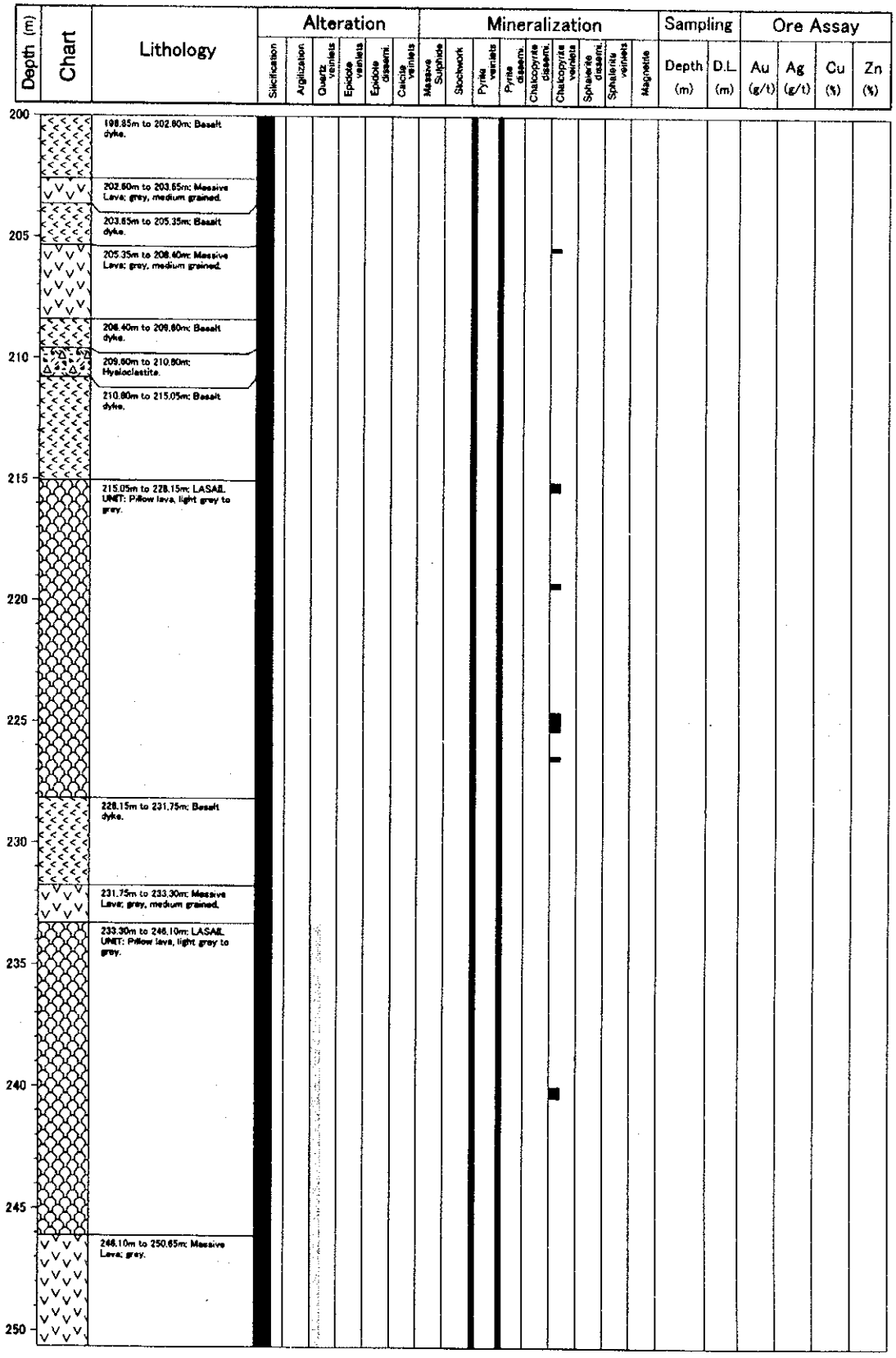


Depth (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
100.15	2.00	0.11	9.6	0.48	0.00
102.15	2.00	0.18	2.5	1.00	0.00
104.15	2.00	0.06	2.3	0.84	0.00
106.15	2.00	0.03	2.2	0.50	0.00
108.15	2.00	0.02	1.9	0.09	0.00
110.15	2.00	0.01	1.9	0.02	0.00
112.15	2.00	0.01	2.3	0.19	0.00
114.15	2.00	0.04	1.7	0.51	0.00
116.15	2.00	0.02	1.7	0.39	0.00
118.15	2.00	0.01	1.5	0.24	0.00
120.15	2.00	0.05	1.7	1.45	0.00
122.15	2.00	0.05	1.8	0.48	0.00
124.15	2.00	0.06	2.3	0.37	0.00
126.15	2.00	0.03	1.4	0.28	0.00
128.15	2.00	0.07	1.7	0.69	0.00
130.15	2.00	0.11	1.8	0.69	0.01
132.15	2.00	0.04	1.5	0.75	0.00
134.15	2.00	0.04	1.4	0.74	0.00
136.15	2.00	0.19	6.3	4.27	0.01
138.15	2.00	0.02	1.3	0.63	0.00
140.15	2.00	0.01	1.2	0.08	0.00
142.15	2.00	0.02	1.9	0.43	0.00
144.15	2.00	0.04	2.3	1.11	0.01
146.15	2.00	0.03	1.7	0.48	0.00
148.15	2.00	0.01	1.7	0.27	0.00

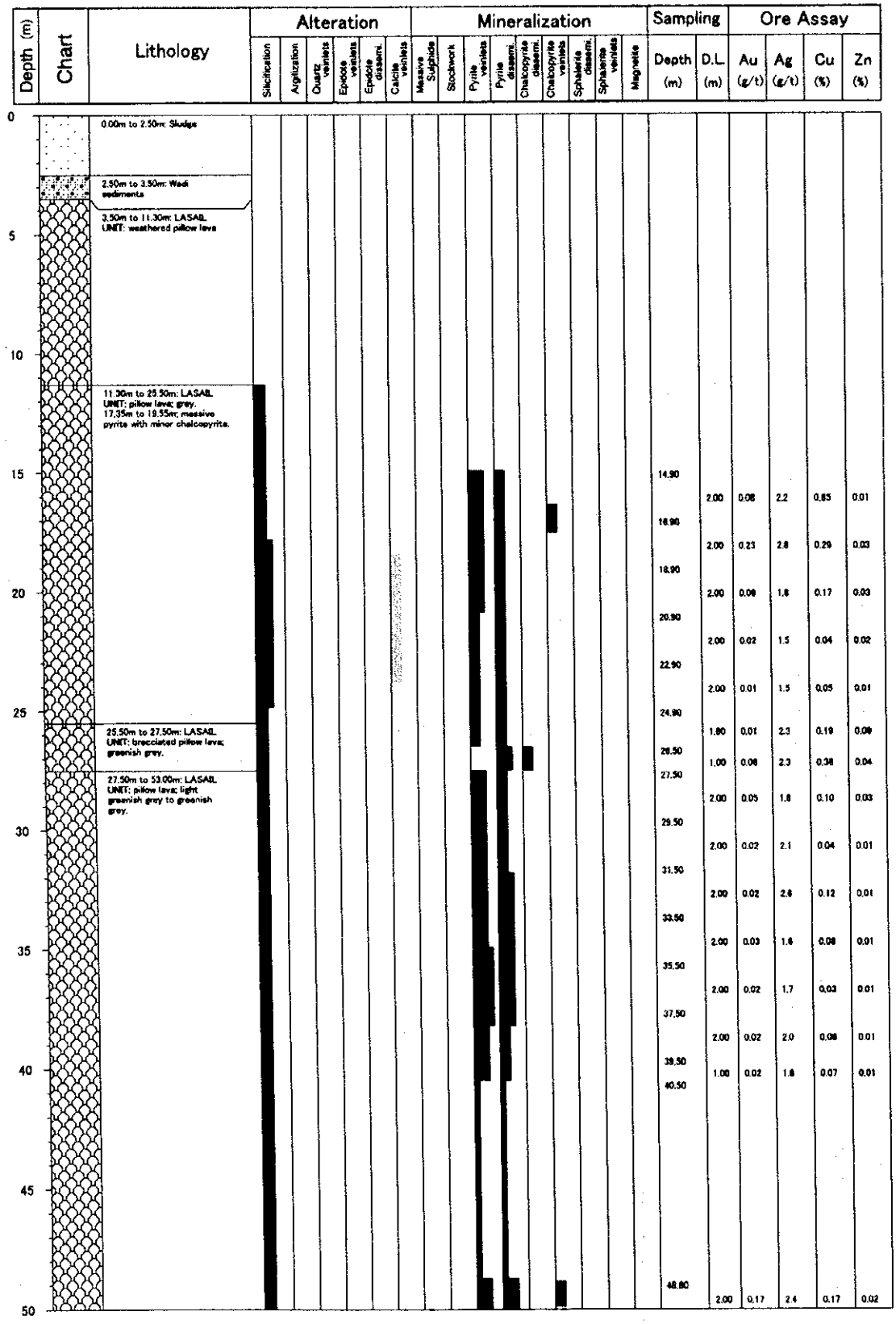
Hole No. MJOY-6 (250.65m ; from 150.00 m to 200.00 m)



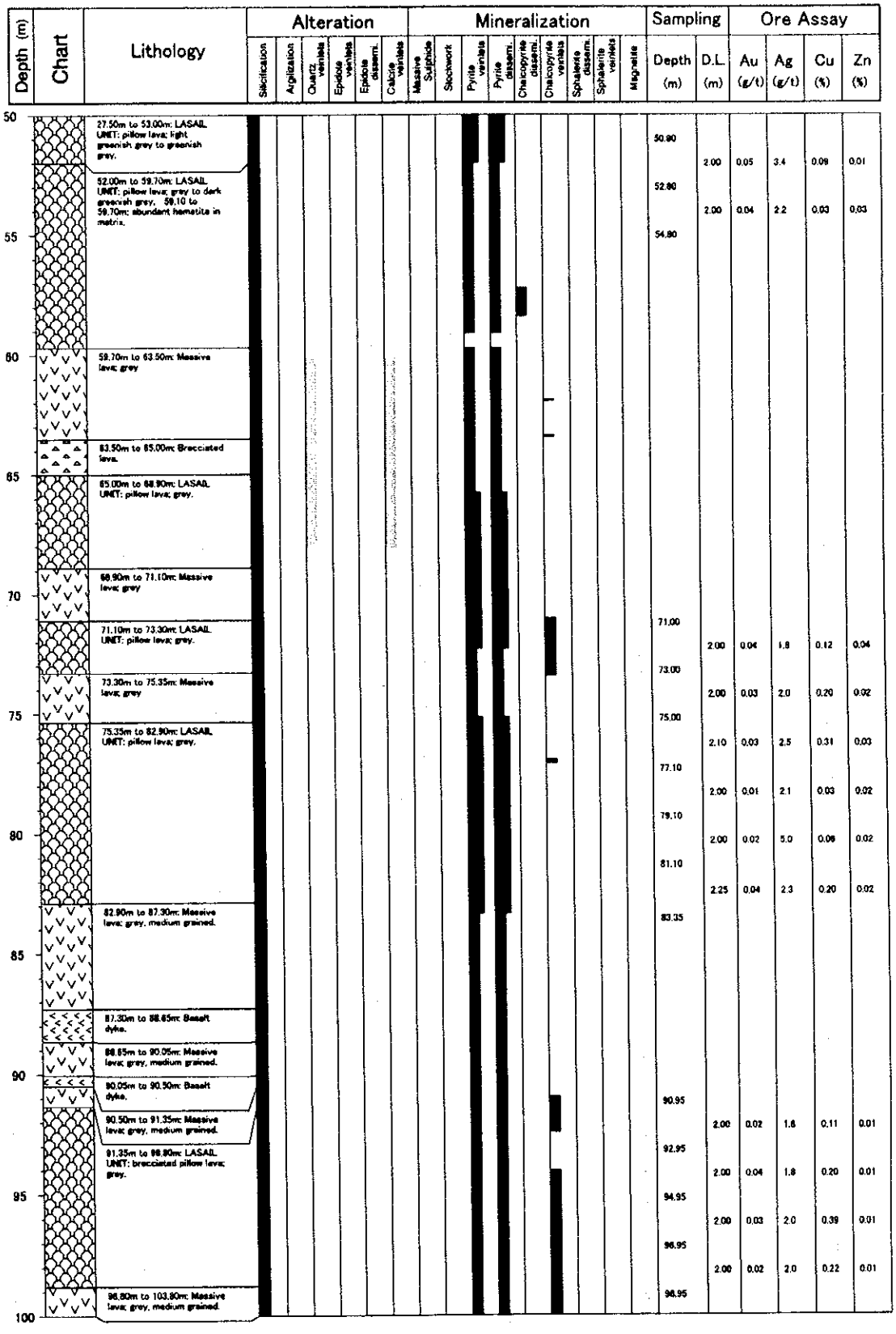
Hole No. MJOY-6 (250.65m ; from 200.00 m to 250.65 m)



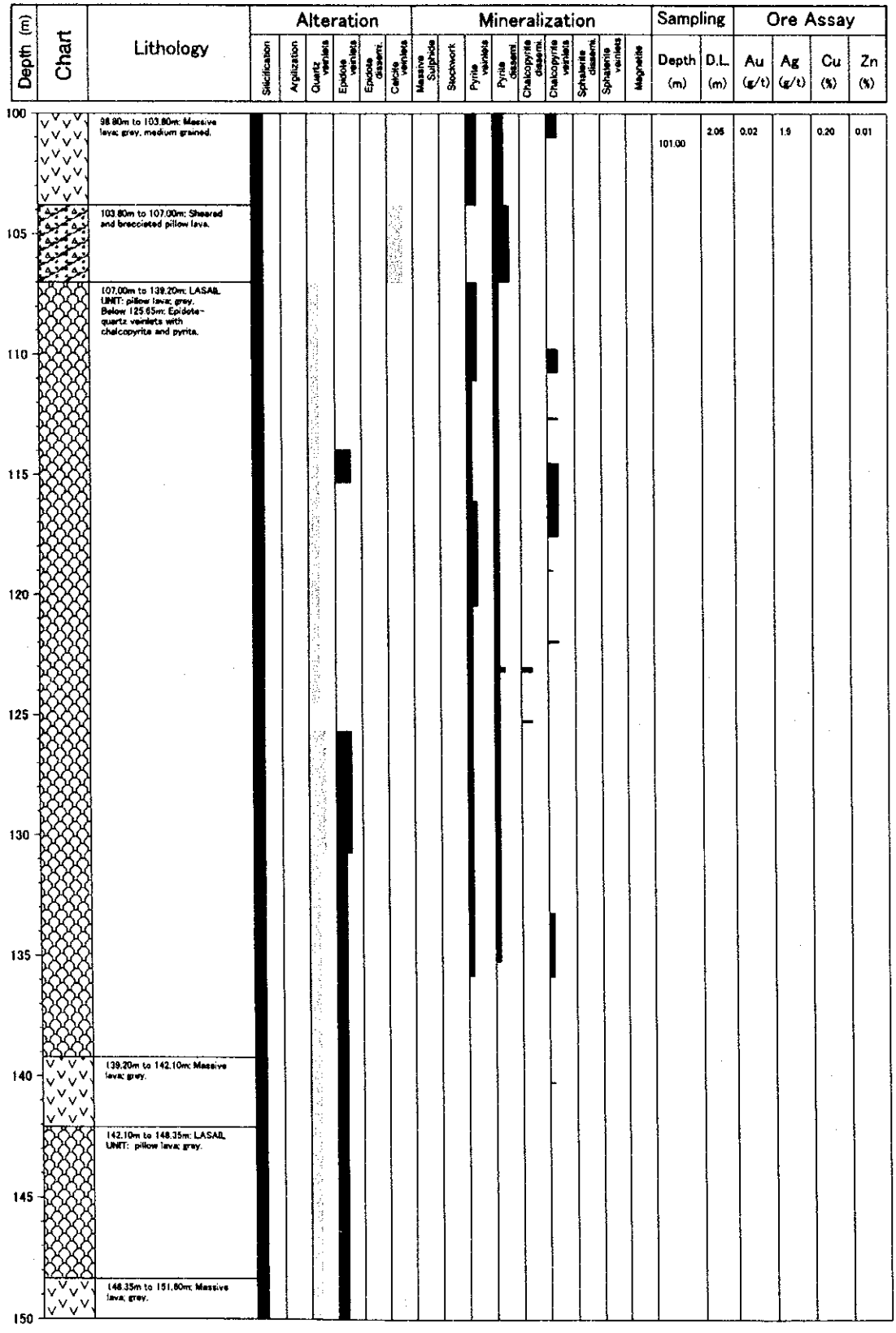
Hole No. MJOY-7 (250.60m ; from 0.00 m to 50.00 m)



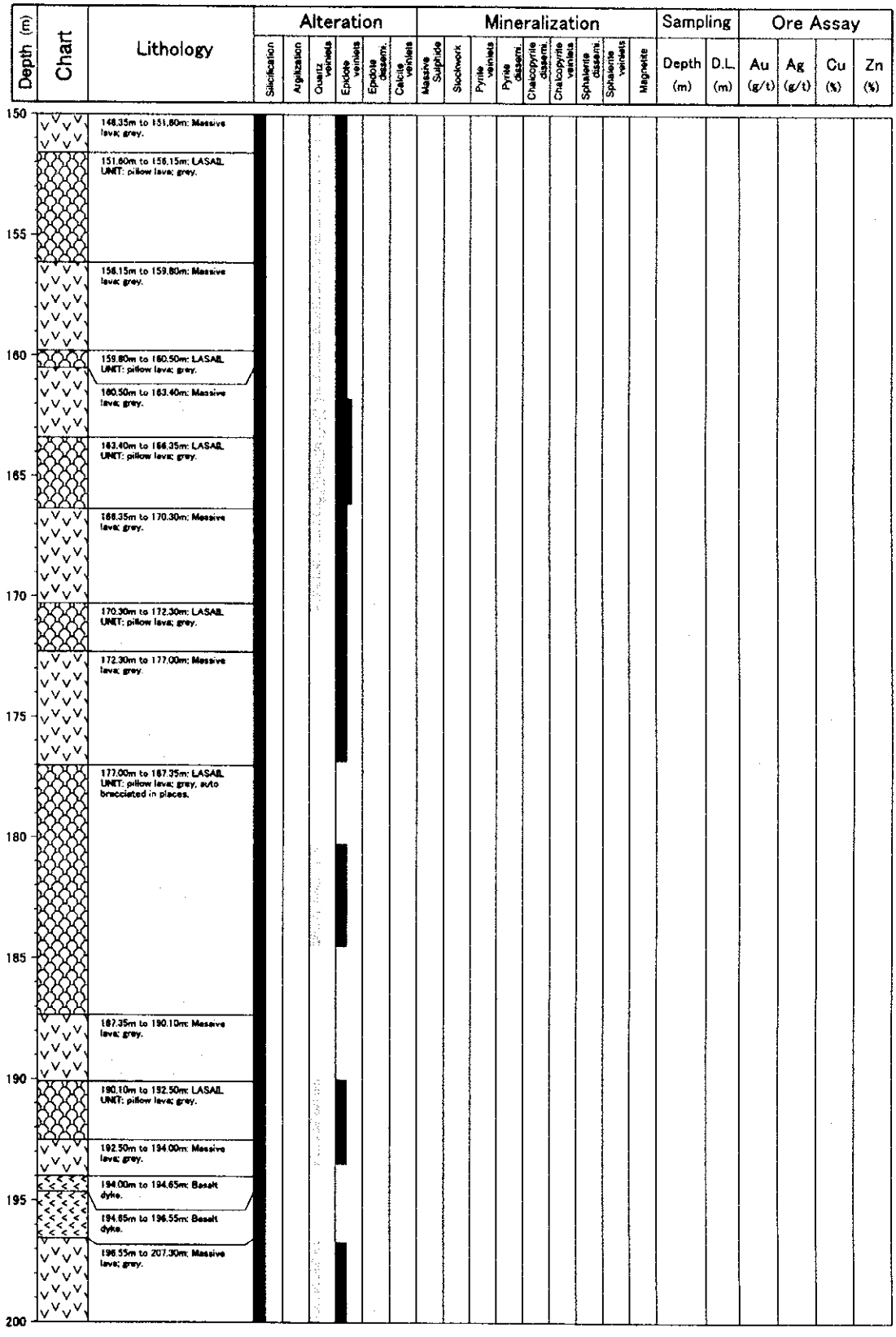
Hole No. MJOY-7 (250.60m ; from 50.00 m to 100.00 m)



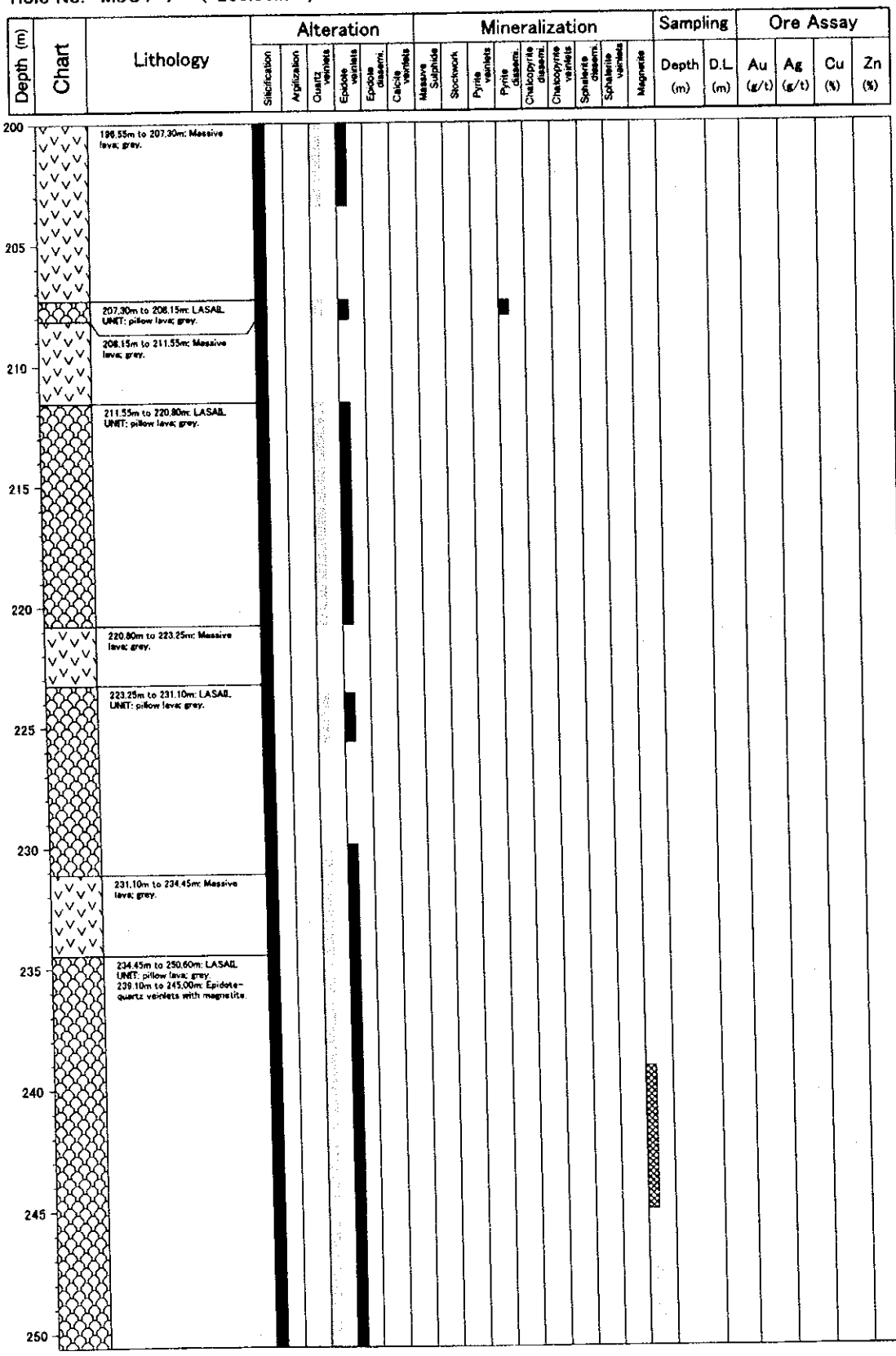
Hole No. MJOY-7 (250.60m ; from 100.00 m to 150.00 m)



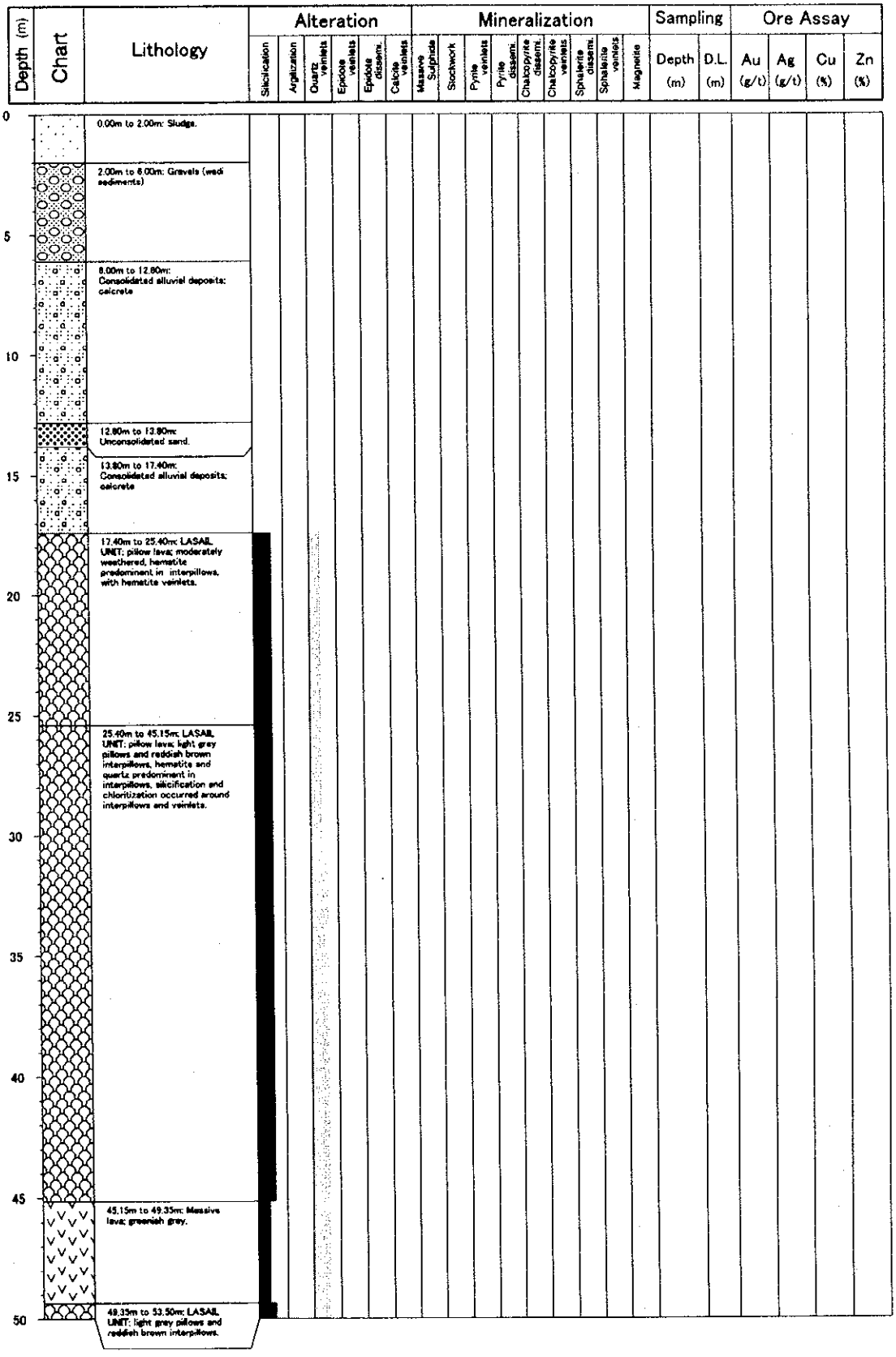
Hole No. MJOY-7 (250.60m ; from 150.00 m to 200.00 m)



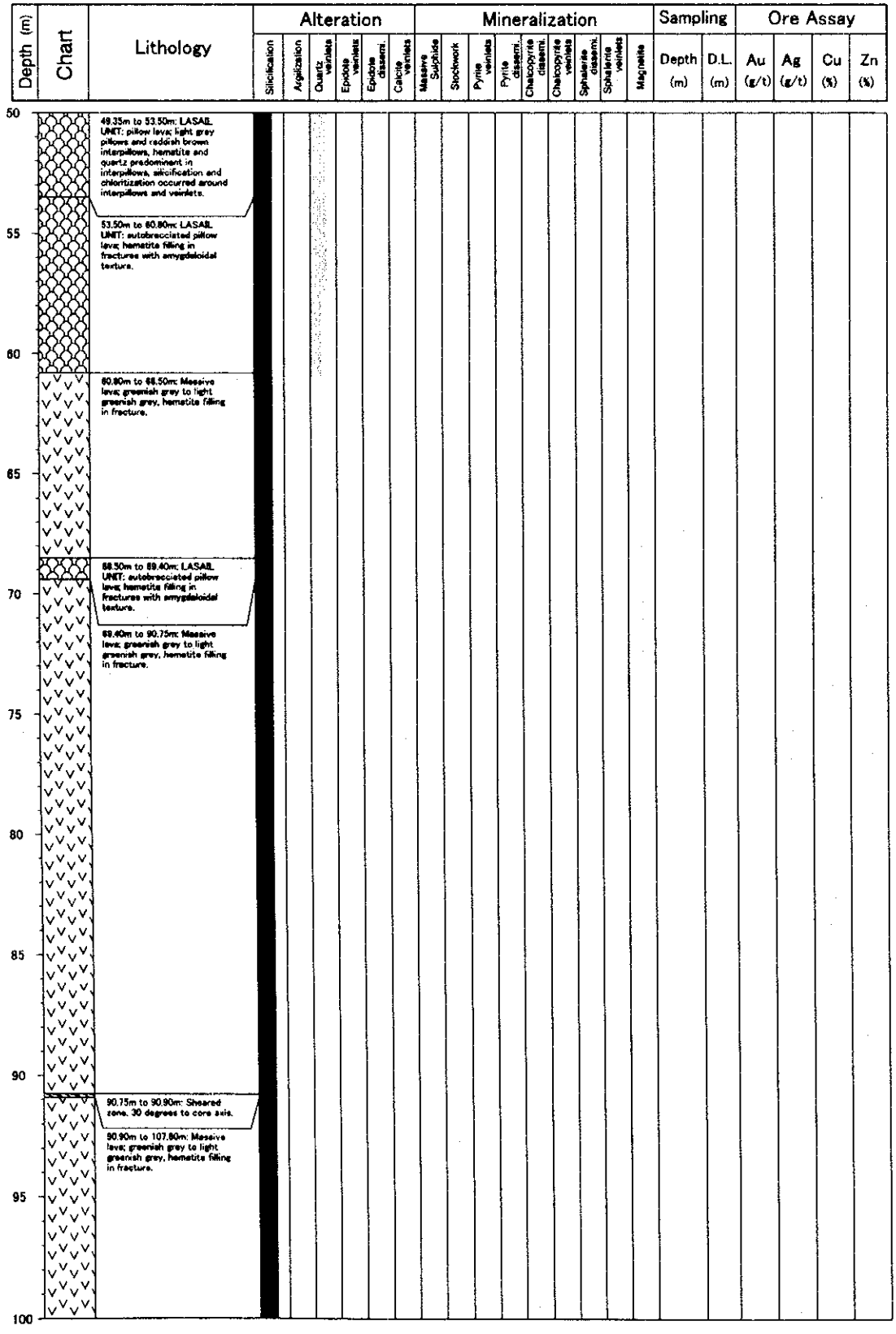
Hole No. MJOY-7 (250.60m ; from 200.00 m to 250.60 m)



Hole No. MJOY-8 (250.25m ; from 0.00 m to 50.00 m)



Hole No. MJOY-8 (250.25m ; from 50.00 m to 100.00 m)



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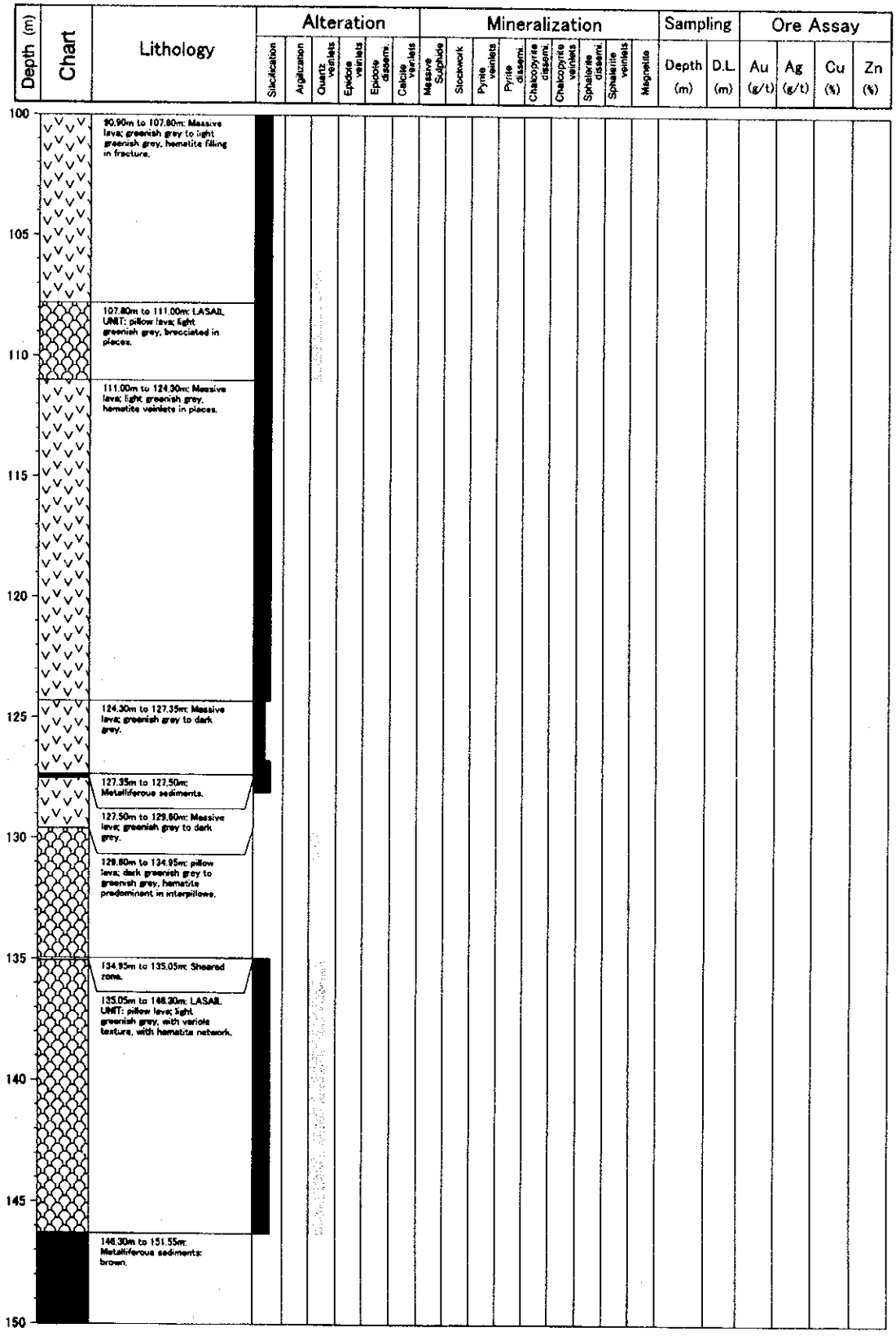

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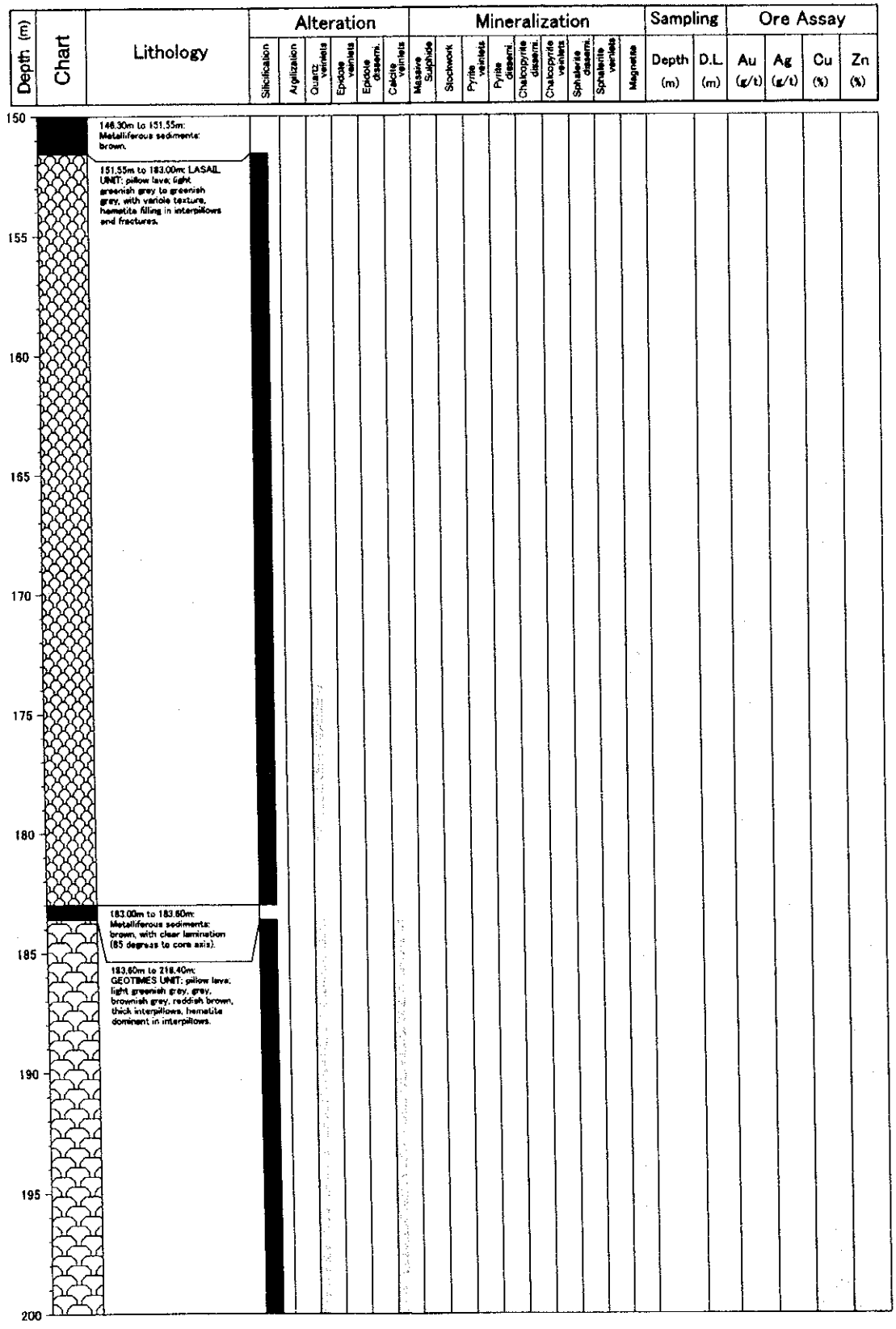
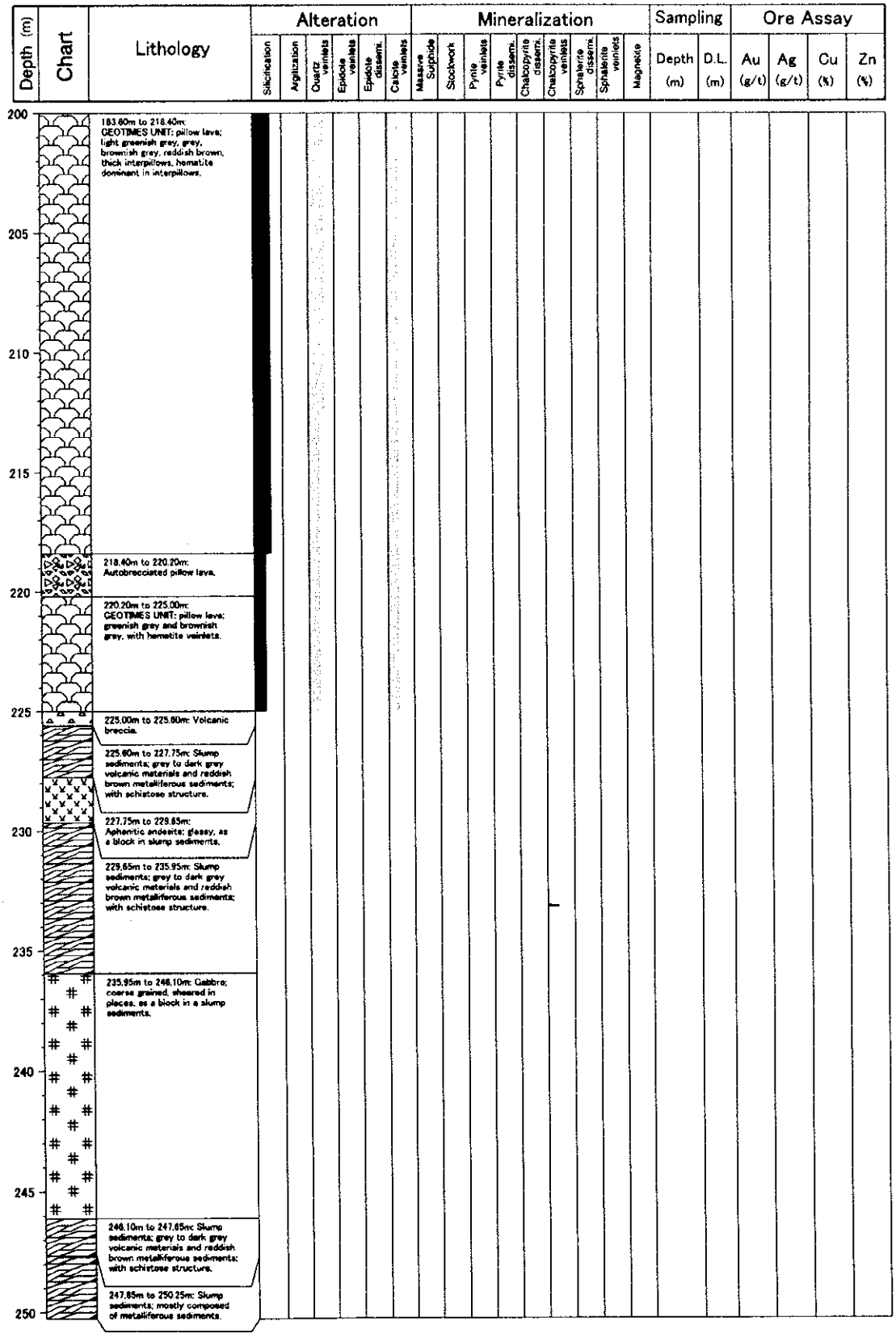
Hole No. MJOY-8 (250.25m ; from 200.00 m to 250.25 m)