第Ⅲ部　結論及び提言

第1章 結 論

本年度は本調査の最終年度にあたり，昨年度までの調査結果に基づいてグザイン地区，ズーハ地区，マケール地区，サラヒ地区において物理探査及びボーリング調査を実施した。各地区の調査結果は以下のように結論付けられる。

(1) グザイン地区

グザイン地区には広い範囲に鉱化作用が認められるが，塊状硫化物鉱体の分布は中央部に限定されることが明らかになった。また，グザイン No.3 鉱体に対するボーリング調査の結果から，鉱体は西側の方が東側より膨らんだ形状を呈し，平均の厚さが厚くなっていること，鉱体が南北方向に 300m の連続性を持つことが判明した。この結果から No.3 鉱体の推定地質鉱量は約 860 万 t，平均銅品位は 1.5%と見積もられた。

(2) ズーハ地区

ズーハ地区には地表徴候としてグザイン地区と同規模のゴッサンが存在し，その周辺部には酸化銅が多く認められる。TDIP 法調査では，ゴッサン周辺からその北方にかけて，鉱床胚胎層準の周辺に高分極率異常が検出された。しかしながら，顕著な低比抵抗異常は検出できなかった。TEM 法調査を TDIP 法調査の高分極率異常に対して実施したが，塊状硫化物鉱体の存在を示す異常は抽出できなかった。また，ゴッサン東方の高分極率異常部で実施したボーリング調査では，下盤の V1-1 層中に優勢な黄鉄鉱化と鉱化変質が認められたのみであった。したがって，本地区には塊状硫化物鉱体は存在しないものと判断される。

(3) マケール地区

マケール地区では，昨年度の調査地域の北方延長部において TDIP 法調査で低比抵抗異常を伴った分極率異常が２ヶ所で検出され，それらのうちの１ヶ所では顕著な TEM 異常が抽出された。しかし，この異常に対するボーリング調査では，下盤中に珪化及び黄鉄鉱化が認められたのみで，塊状硫化物鉱体を捕捉することはできなかった。

(4) サラヒ地区

サラヒ地区はズーハ地区の南に位置し，銅鉱徴や鉱化変質が各所で認められる。本地区における TDIP 法調査では，下盤の V1-1 層及び鉱床胚胎層準の分布域に高分極率異常が認められたものの，それらの範囲内には低比抵抗異常は検出されなかった。したがって，本地区には塊状硫化物鉱体は存在しないものと判断された。

第２章　将来への提言

南バチナコースト地域には各所に鉱化作用が認められるが，経済性を持つ規模の塊状硫化物鉱体の存在はグザイン地区に限られることが明らかになった。このグザイン地区には３つの鉱体が存在し，それらの合計の推定鉱量は約 1,400 万 t に達することから，今後はさらに詳細な調査を行い，その経済性評価を行うことを提言する。

しかしながらグザイン地区の鉱体は深度が深いこと及び金をほとんど伴わないことから，本地区単独での開発は現状では困難であることが予想される。したがって，すでに発見され，まだ未開発である（一部のゴッサン部のみは開発されている）ヤンクル地区の鉱床とセットにして経済性評価を行うことを提言するものである。

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図 表 一 覧

図 一 覧

表 一 覧

巻 末

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Appendix 1

Drilling equipments and consumed materials

Drilling Equipment

	Rig-1	Rig-2	Rig-3
Model	RAMROD-II	VOL-180	N-18(f4L)
Maker	Joy Manufacturing Co. USA	Voltas Ltd. India	Acker Drill Co. USA
Mounting	Truck mounted 4WD	Truck mounted 4WD	Skid Mounted
Drilling capacity with NX size wire Line coring	450 m	650 m	400 m
Angle hole drilling capacity	Upto 60 deg.	Vertical only	Upto 60 deg.
Circulation pump	35 GPM 800 PSI	37 GPM 1000 PSI	35 GPM 800 PSI

Consumed material

Hole No.	MJOB-G40	MJOB-G41	MJOB-G42	MJOB-G43	MJOB-G44	MJOB-Z1	MJOB-M1
Bit: NW	1	1	1	1	1	1	1
Bit: NX	1	1	1	1	1	1	2
Bit: BX	-	-	-	-	-	-	-
Light Oil (l)	30	20	35	20	25	25	35
Mud (kg)	210	160	290	120	180	190	380
Cement (kg)	100	200	250	250	50	100	50

Hole No.	MJOB-M2	MJOB-M3
Bit: NW	1	1
Bit: NX	2	1
Bit: BX	-	-
Light Oil (l)	25	20
Mud (kg)	240	220
Cement (kg)	200	300

Appendix 2

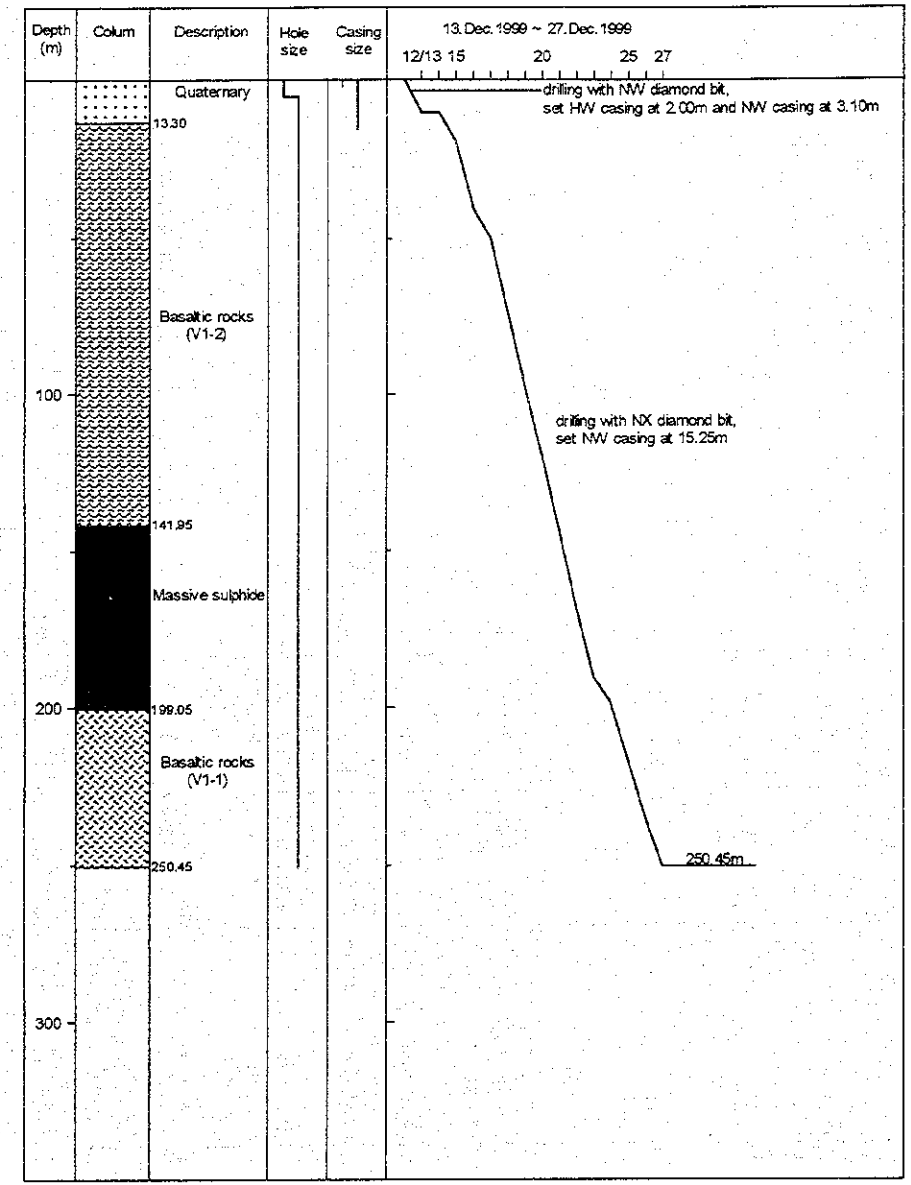
Generalized drilling results and Progress record of drilling

Progress record of drilling

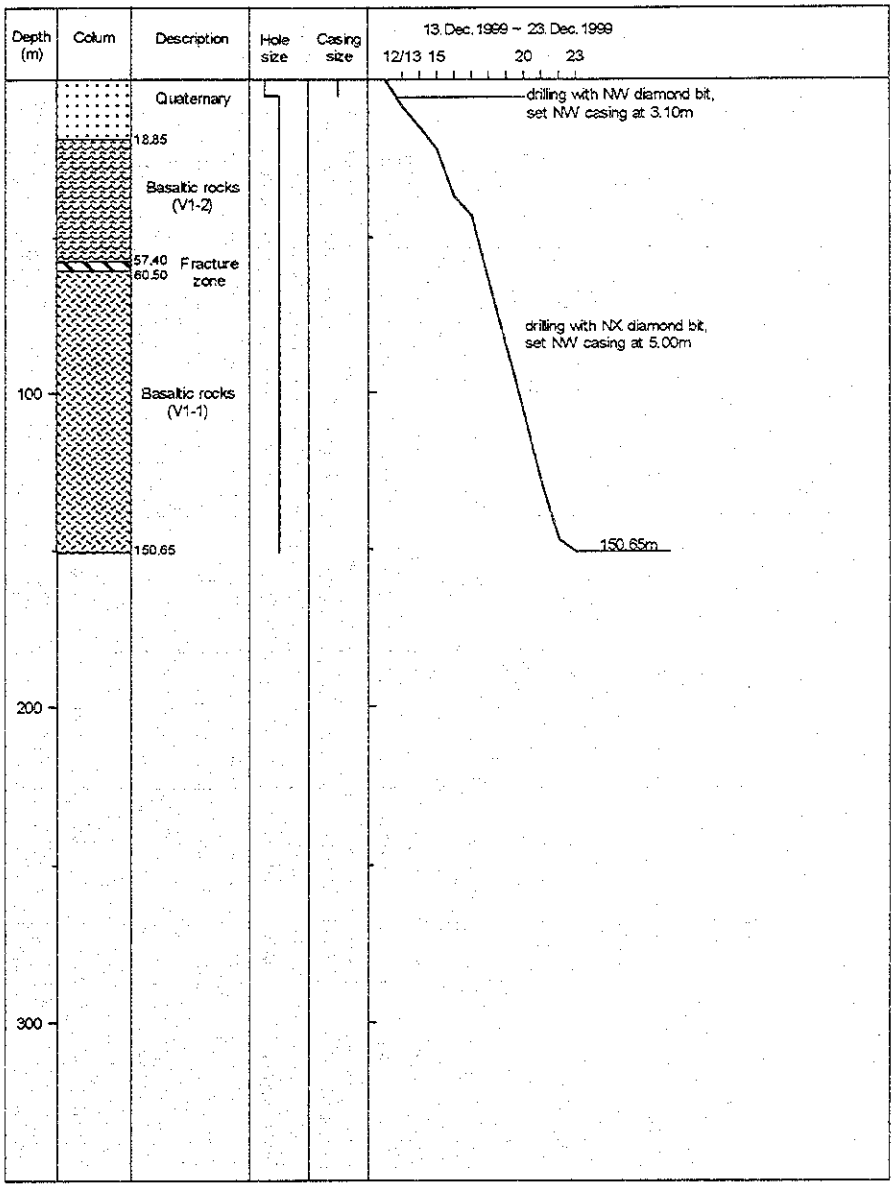
	Hole No.	MJOB-G40	MJOB-G41	MJOB-G42	MJOB-G43	MJOB-G44	MJOB-Z1	MJOB-M1
Drilling Priod	Preparation	12/12	12/12	12/24	12/28	1/10	1/25	2/2
	Days (A)	1	1	1	0.5	1	1	1
	Drilling	12/13 to 12/27	12/13 to 12/23	12/25 to 1/15	12/29 to 1/5	1/11 to 1/23	1/26 to 2/7	2/3 to 2/27
	Days (B)	15	10.5	22	8	13	13	25
	Removing	12/28	12/23	1/16	1/6	1/24	2/8	2/28
	Days (C)	0.5	0.5	1	0.5	1	1	1
	Total days (D)	16.5	12	24	9	15	15	27
Depth	Planned depth (E)	250m	150m	300m	150m	300m	250m	330m
	Drilled depth (F)	250.45m	150.65m	301.80m	150.45m	300.15m	250.90m	330.00m
Recovery	Overburden (G)	13.30m	18.85m	5.50m	16.20m	9.10m	0.00m	2.75m
	Core length (H)	243.25m	144.95m	299.00m	142.95m	295.50m	250.15m	327.70m
	Recovery (H/F)	97%	96%	99%	95%	98%	100%	99%
Casing	HW casing	2.00m	0.00m	0.00m	3.00m	2.00m	0.00m	0.00m
	NW casing	15.25m	5.00m	6.10m	6.15m	15.25m	3.05m	3.00m
	NX casing	-	-	-	-	-	-	-
Rate	meter /day (F/B)	16.70m	14.35m	13.72m	18.81m	23.09m	19.30m	13.20m
	meter/ total day (F/D)	15.18m	12.55m	12.58m	16.72m	20.01m	16.73m	12.22m

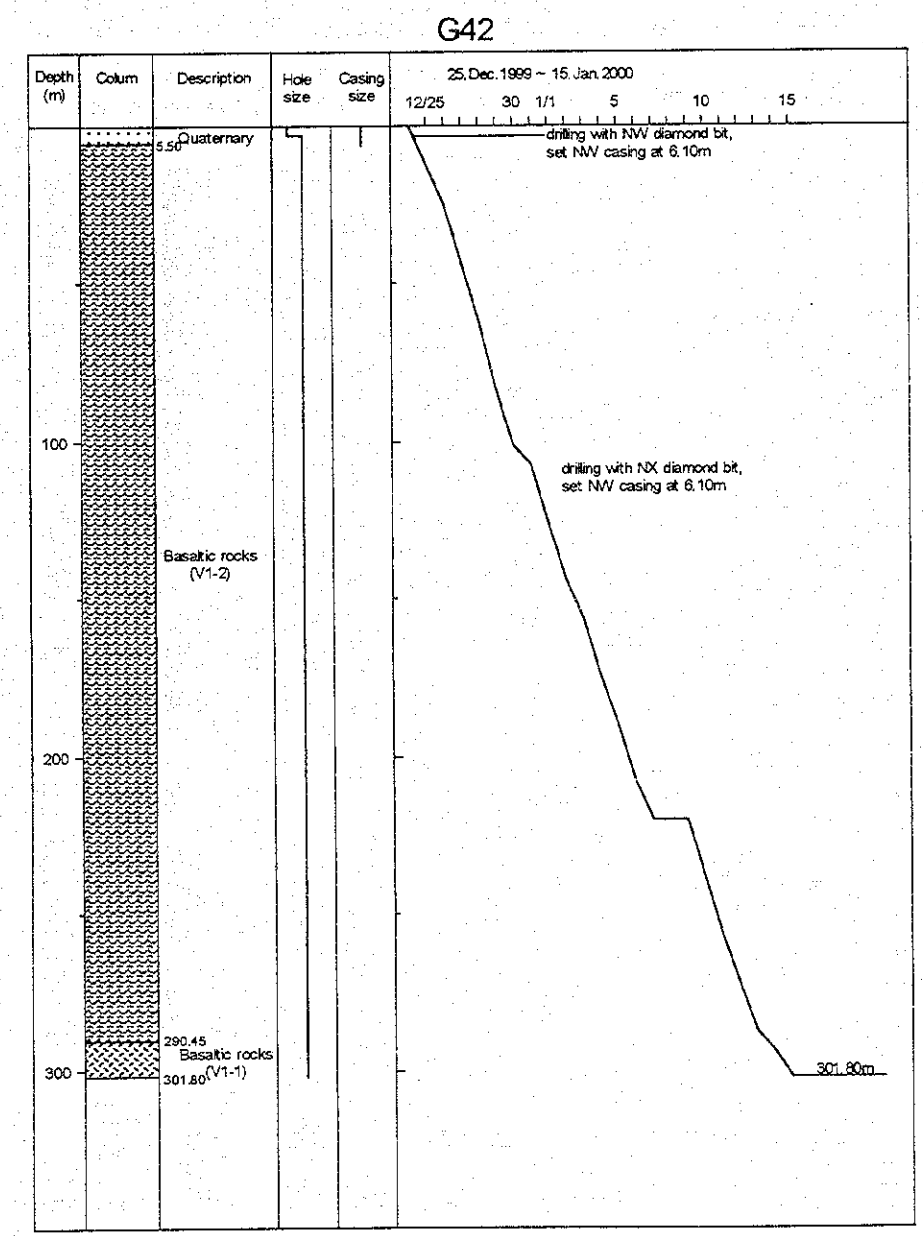
	Hole No.	MJOB-M2	MJOB-M3
Drilling Priod	Preparation	2/9	2/25
	Days (A)	1	1
	Drilling	2/10 to 2/21	2/26 to 3/7
	Days (B)	12	11
	Removing	2/22	3/8
	Days (C)	1	1
	Total days (D)	14	13
Depth	Planned depth (E)	200m	200m
	Drilled depth (F)	201.15m	200.25m
Recovery	Overburden (G)	1.80m	0.00m
	Core length (H)	201.10m	200.25m
	Recovery (H/F)	100%	100%
Casing	HW casing	0.00m	0.00m
	NW casing	3.00m	3.00m
	NX casing		
Rate	meter /day (F/B)	16.76m	18.20m
	meter/ total day (F/D)	14.37m	15.40m

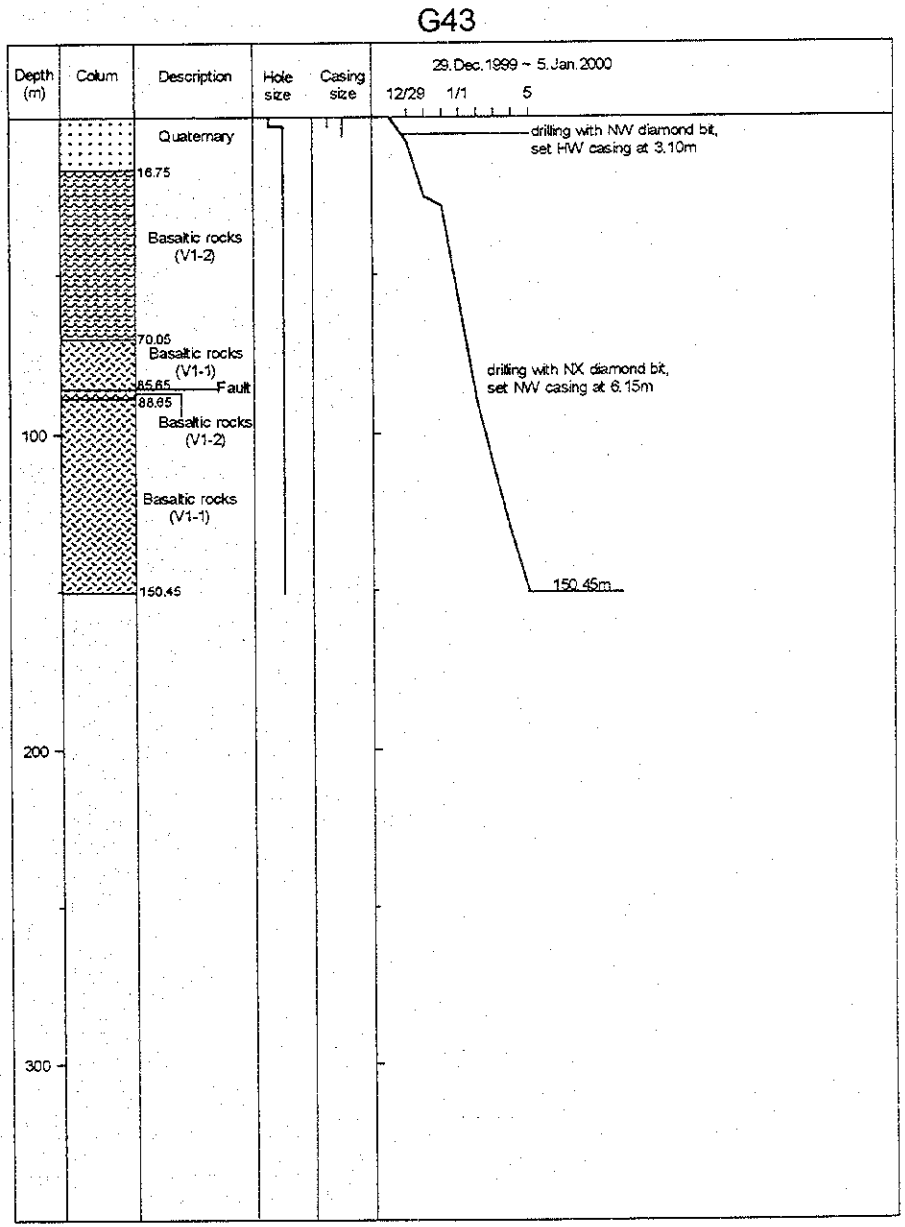
G40


Depth (m)
Colum
Description
Hole size
Casing size
13.Dec.1999 ~ 27.Dec.1999
12/13 15
20
25
27
Quaternary
13.30
Basaltic rocks (V1-2)
141.95
Massive sulphide
199.05
Basaltic rocks (V1-1)
250.45
100
200
300
drilling with NW diamond bit, set HW casing at 2.00m and NW casing at 3.10m
drilling with NX diamond bit, set NW casing at 15.25m
250.45m

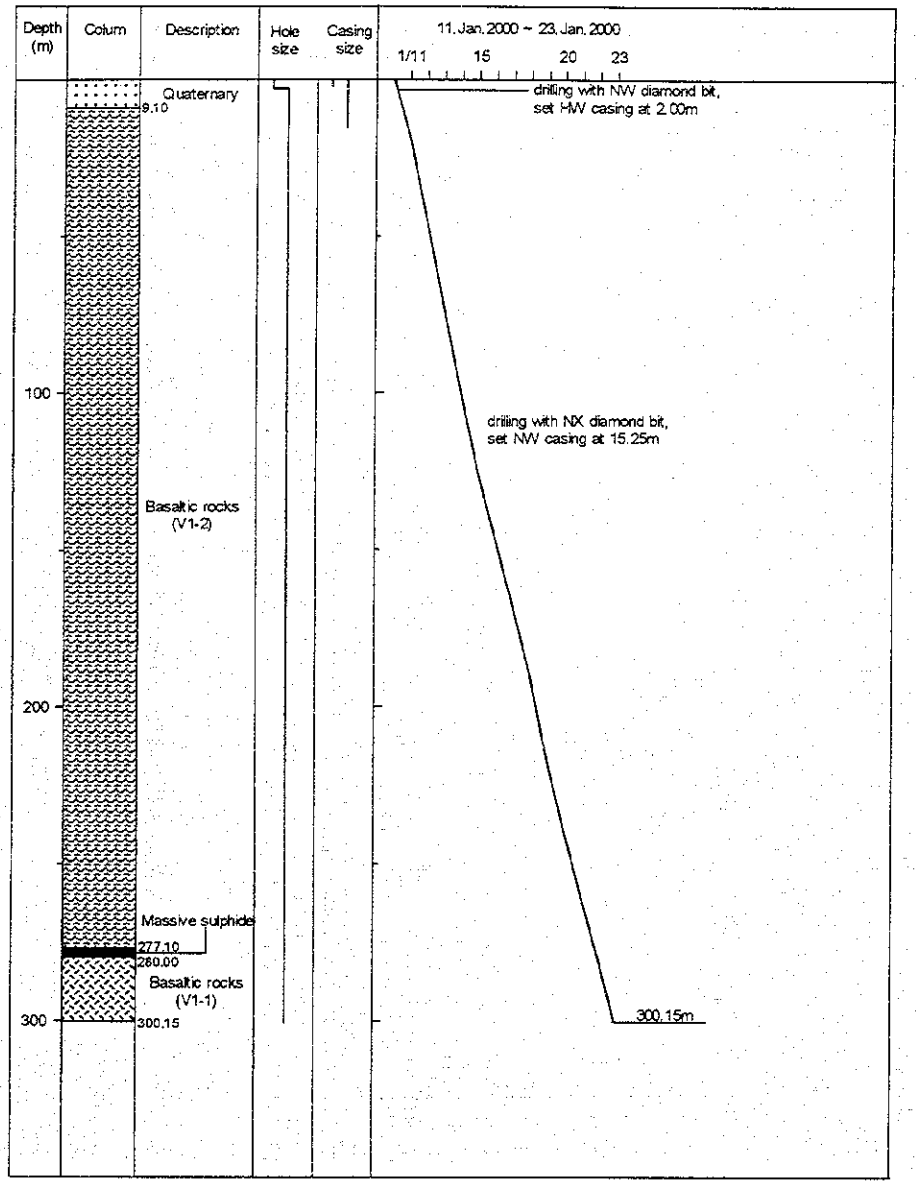
G41


Depth (m)
Colum
Description
Hole size
Casing size
13.Dec.1999 ~ 23.Dec.1999
12/13 15
20
23
Quaternary
18.85
Basaltic rocks (V1-2)
57.40
60.50
Fracture zone
Basaltic rocks (V1-1)
150.65
100
200
300
drilling with NW diamond bit, set NW casing at 3.10m
drilling with NX diamond bit, set NW casing at 5.00m
150.65m

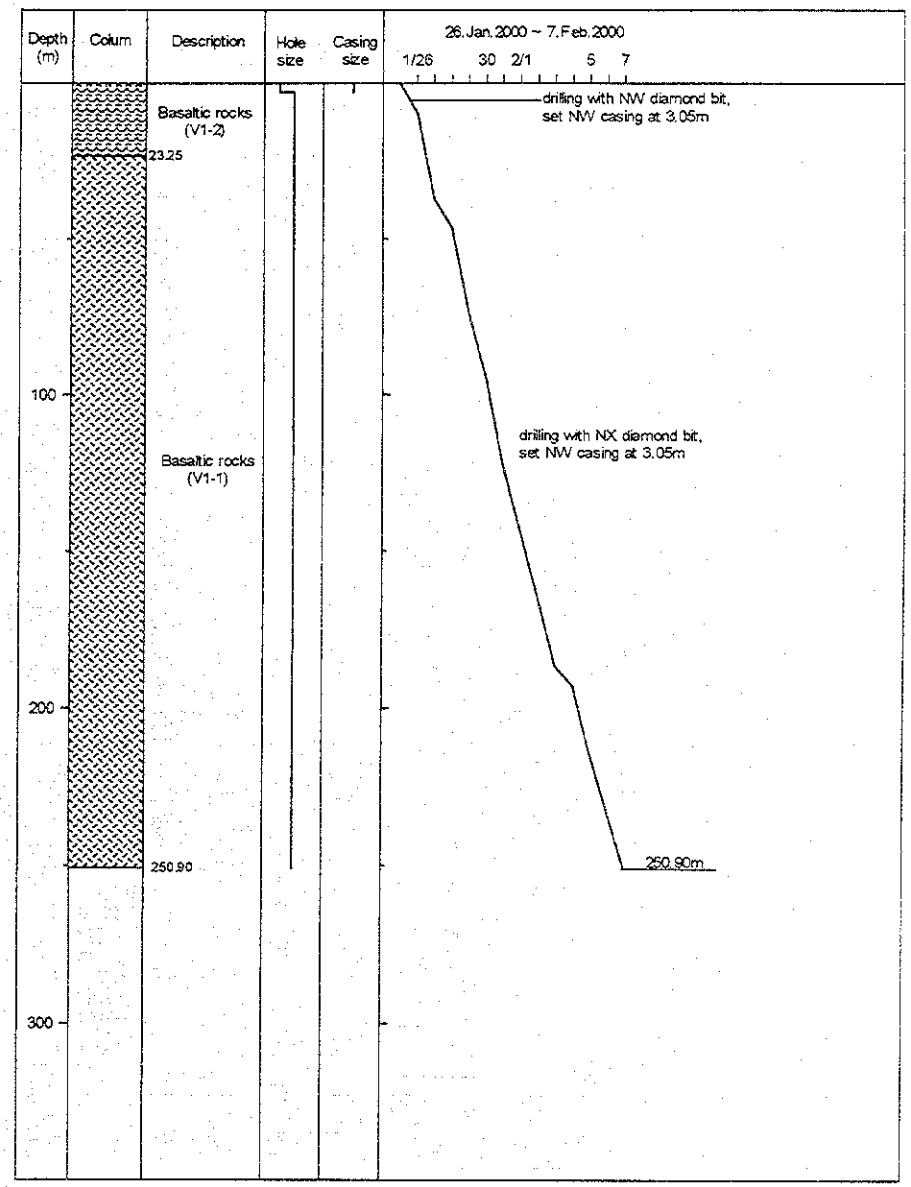

G42
Depth (m)
Colum
Description
Hole size
Casing size
25.Dec.1999 ~ 15.Jan.2000
12/25
30
1/1
5
10
15
Quaternary
5.50
drilling with NW diamond bit, set NW casing at 6.10m
drilling with NX diamond bit, set NW casing at 6.10m
Basaltic rocks (V1-2)
290.45
Basaltic rocks (V1-1)
301.80
301.80m
100
200
300

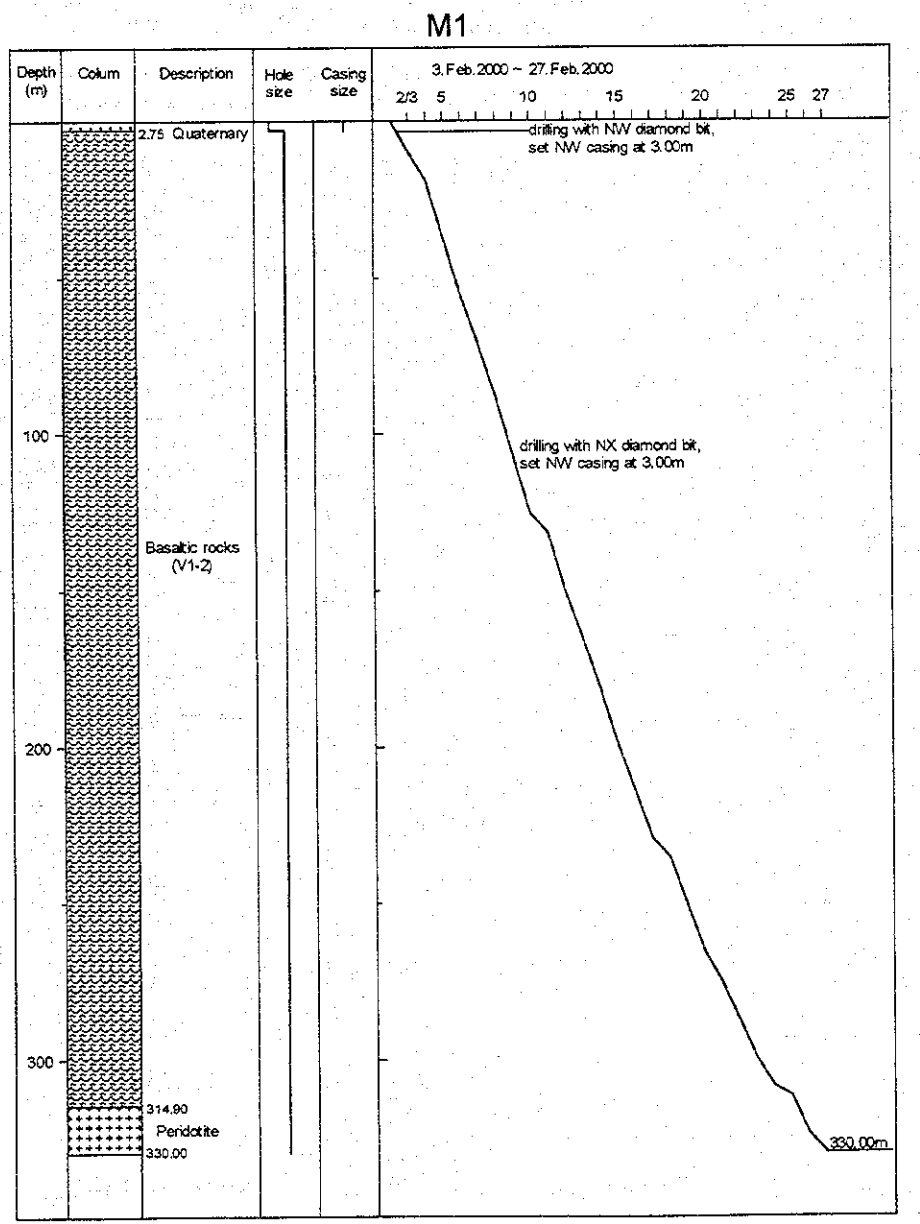

G43
Depth (m)
Colum
Description
Hole size
Casing size
29.Dec.1999 ~ 5.Jan.2000
12/29
1/1
5
Quaternary
16.75
drilling with NW diamond bit, set HW casing at 3.10m
Basaltic rocks (V1-2)
70.05
Basaltic rocks (V1-1)
85.65
Fault
88.65
Basaltic rocks (V1-2)
Basaltic rocks (V1-1)
150.45
drilling with NX diamond bit, set NW casing at 6.15m
150.45m
100
200
300

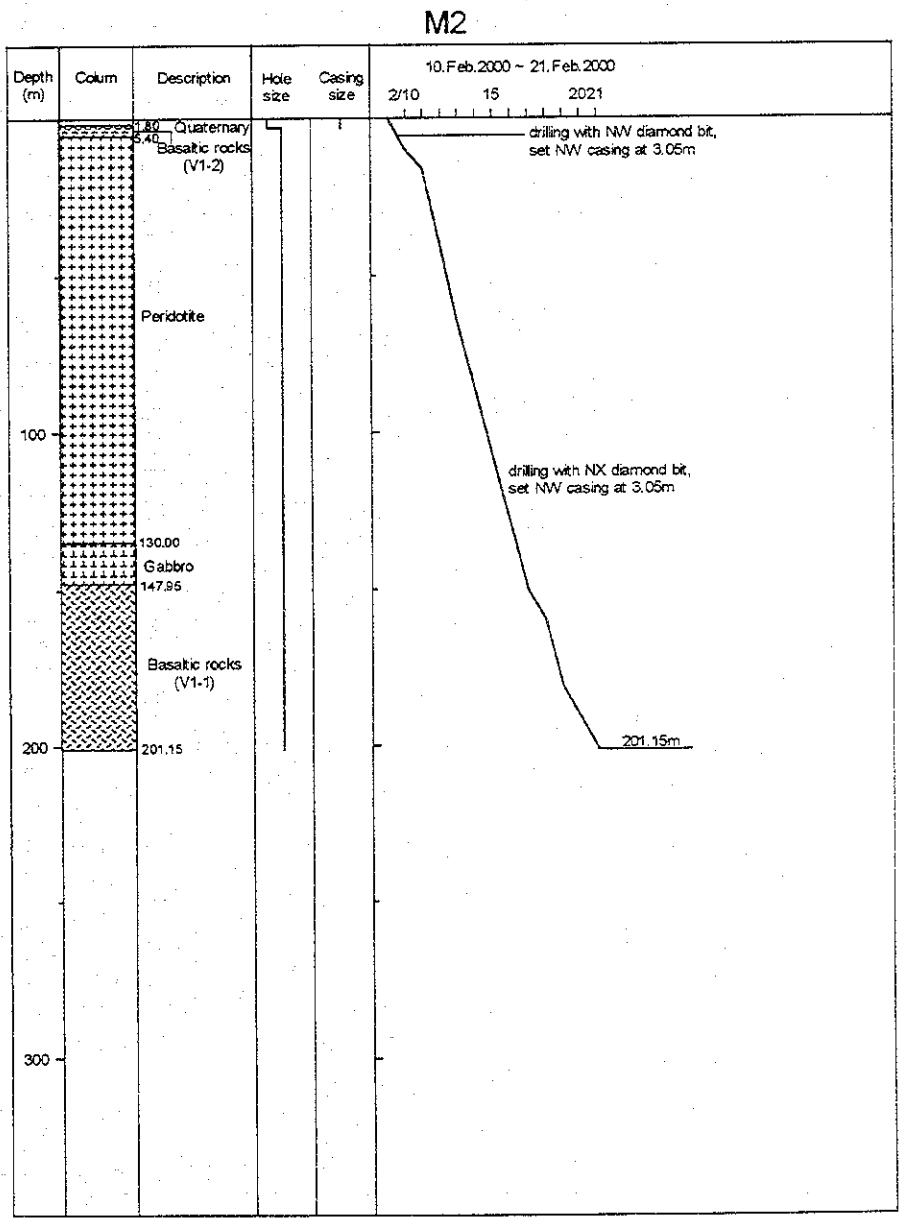
G44


Depth (m)
Colum
Description
Hole size
Casing size
11. Jan. 2000 ~ 23. Jan. 2000
1/11
15
20
23
Quaternary
9.10
drilling with NW diamond bit,
set NW casing at 2.00m
drilling with NX diamond bit,
set NW casing at 15.25m
100
Basaltic rocks
(V1-2)
200
Massive sulphide
277.10
280.00
Basaltic rocks
(V1-1)
300
300.15
300.15m

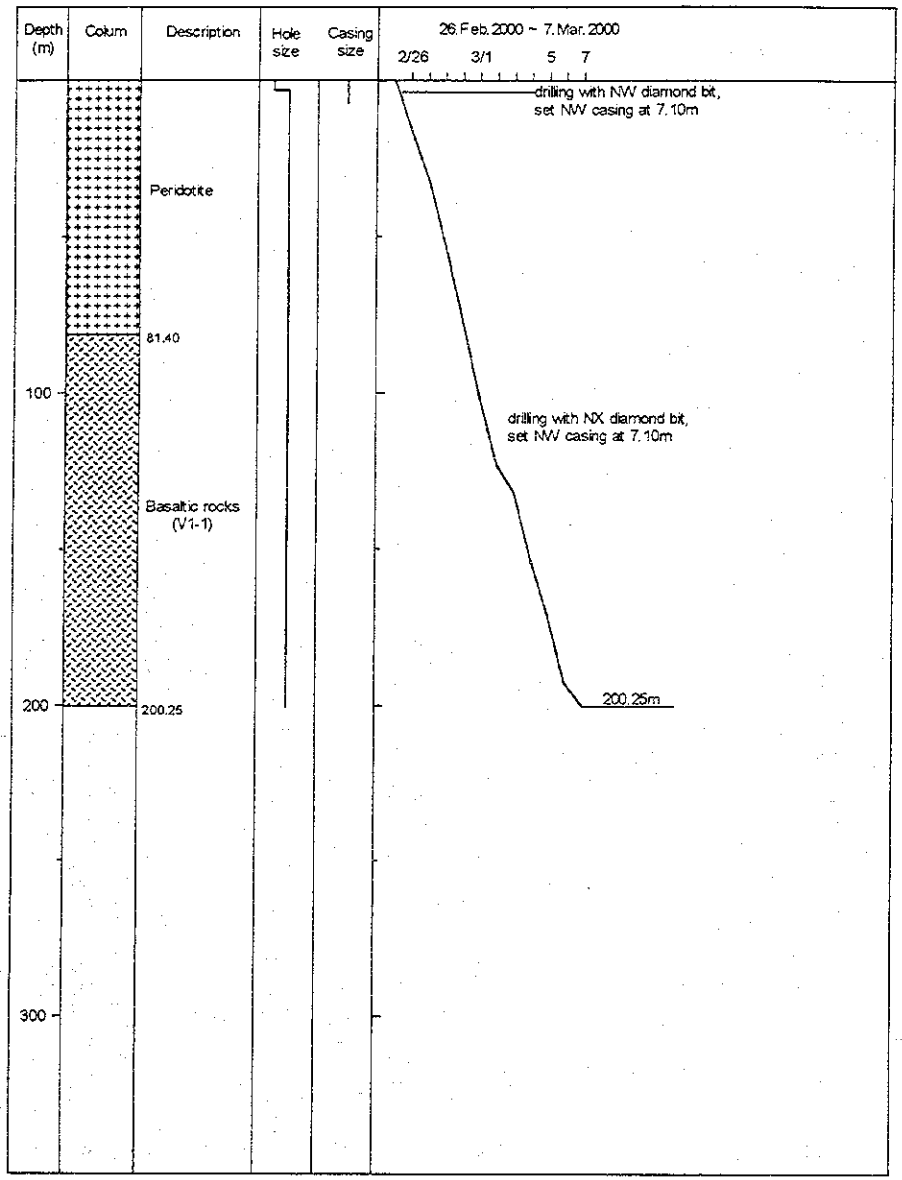
Z1


Depth (m)
Colum
Description
Hole size
Casing size
26. Jan. 2000 ~ 7. Feb. 2000
1/26
30
2/1
5
7
Basaltic rocks
(V1-2)
23.25
drilling with NW diamond bit,
set NW casing at 3.05m
100
Basaltic rocks
(V1-1)
drilling with NX diamond bit,
set NW casing at 3.05m
200
250.90
250.90m
300


M1
Depth (m)
Colum
Description
Hole size
Casing size
3. Feb. 2000 ~ 27. Feb. 2000
2/3 5 10 15 20 25 27
2.75 Quaternary
drilling with NW diamond bit, set NW casing at 3.00m
drilling with NX diamond bit, set NW casing at 3.00m
Basaltic rocks (V1-2)
100
200
300
314.90
Peridotite
330.00
330.00m


M2
Depth (m)
Colum
Description
Hole size
Casing size
10. Feb. 2000 ~ 21. Feb. 2000
2/10 15 2021
1.80 Quaternary
5.40
Basaltic rocks (V1-2)
drilling with NW diamond bit, set NW casing at 3.05m
Peridotite
drilling with NX diamond bit, set NW casing at 3.05m
100
130.00
Gabbro
147.95
Basaltic rocks (V1-1)
200
201.15
201.15m
300

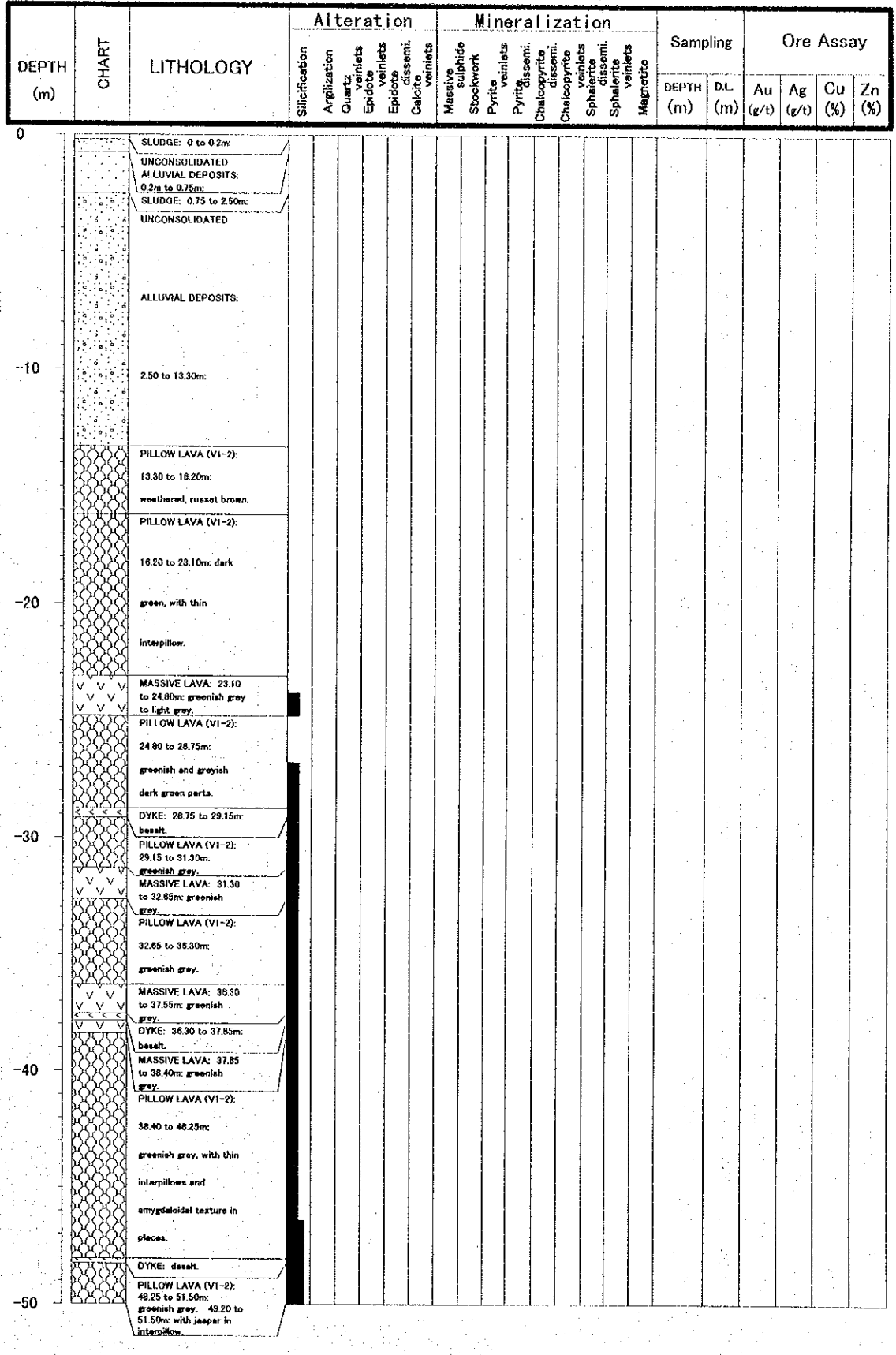
M3


Depth (m)
Colum
Description
Hole size
Casing size
26.Feb.2000 ~ 7.Mar.2000
2/26
3/1
5
7
drilling with NW diamond bit, set NW casing at 7.10m
Peridotite
81.40
100
drilling with NX diamond bit, set NW casing at 7.10m
Basaltic rocks (V1-1)
200
200.25
200.25m
300

Appendix 3

Drilling logs

Hole No. MJOB-G40 (From 0.00 m to -250.45 m)



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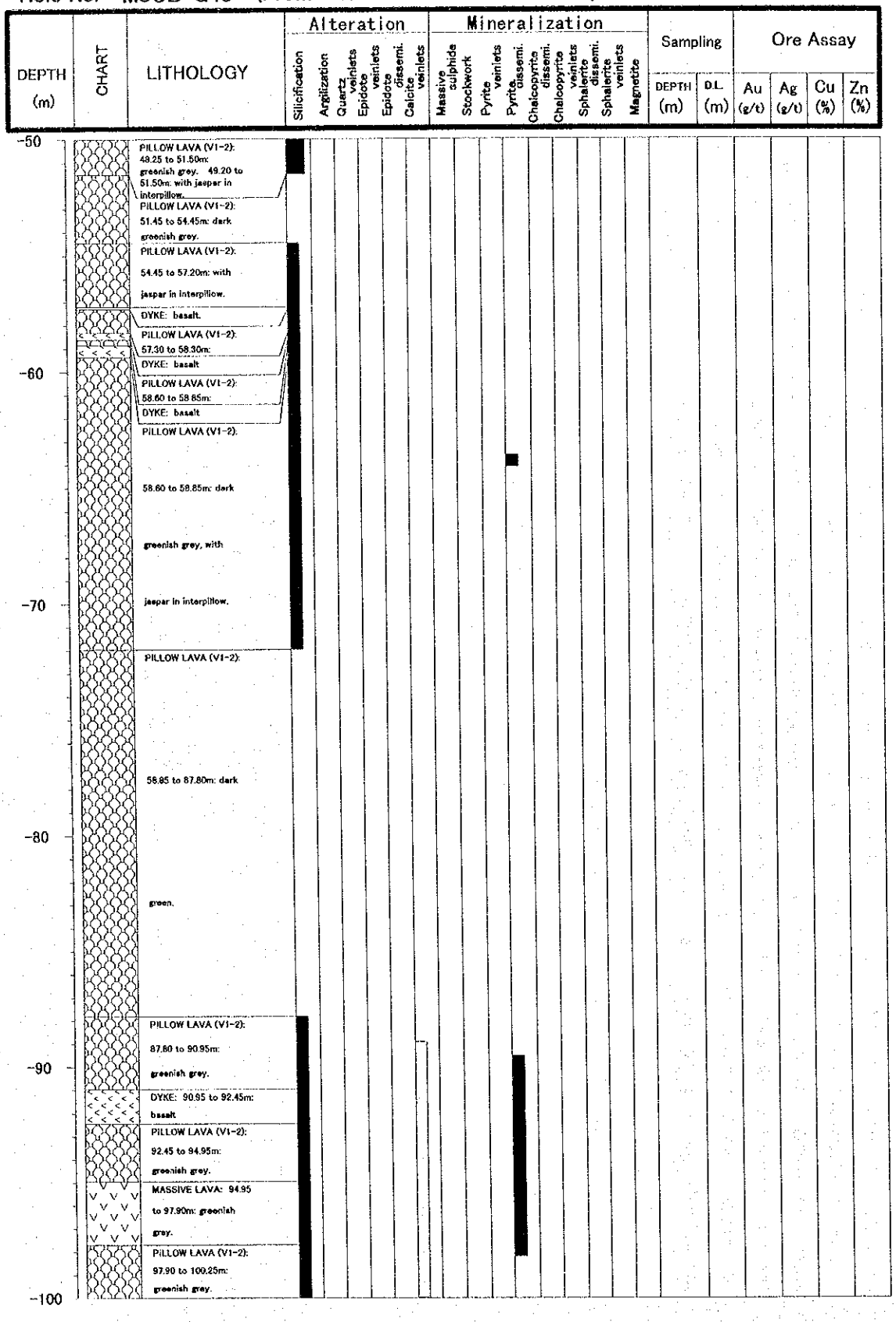

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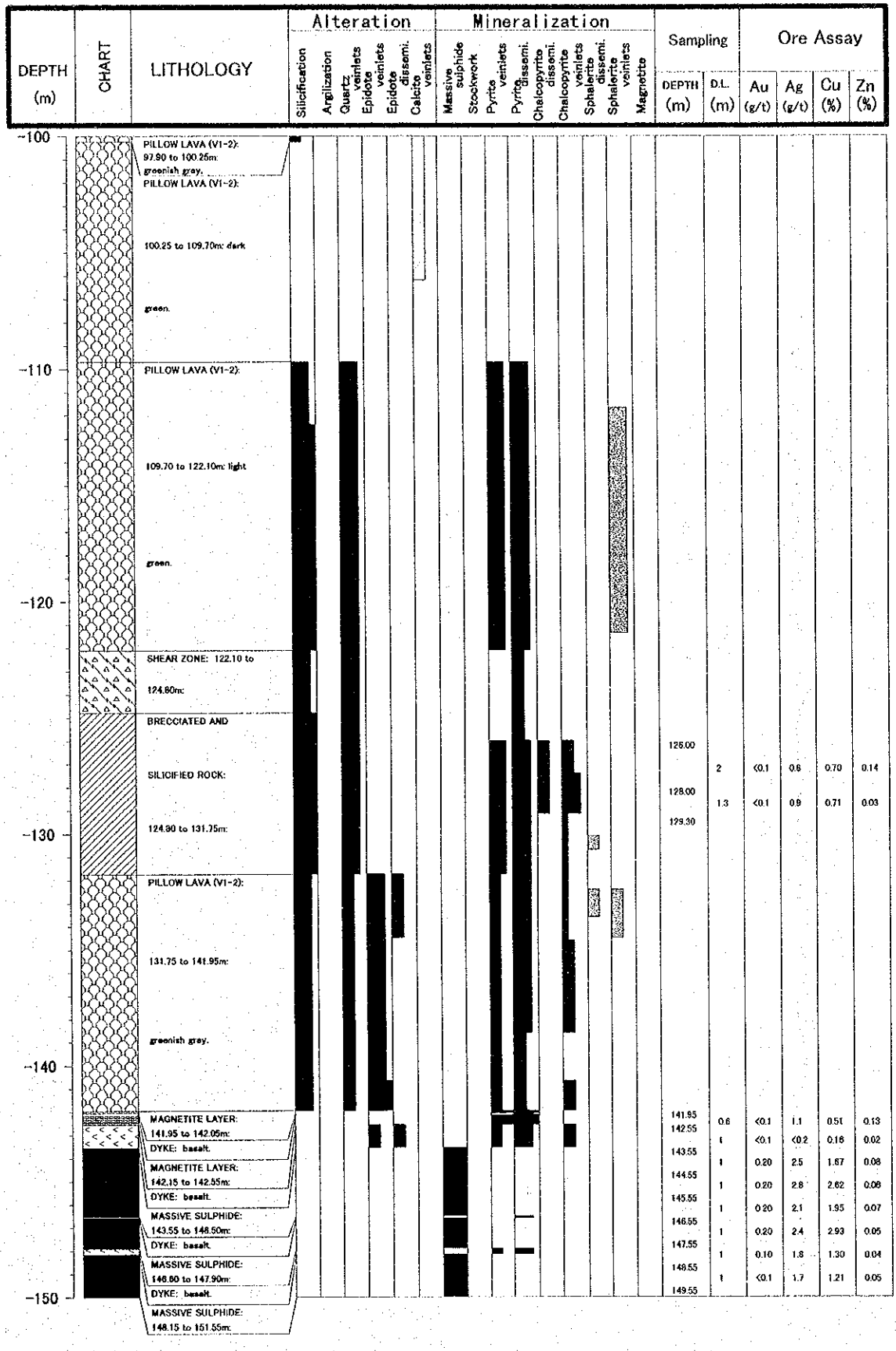

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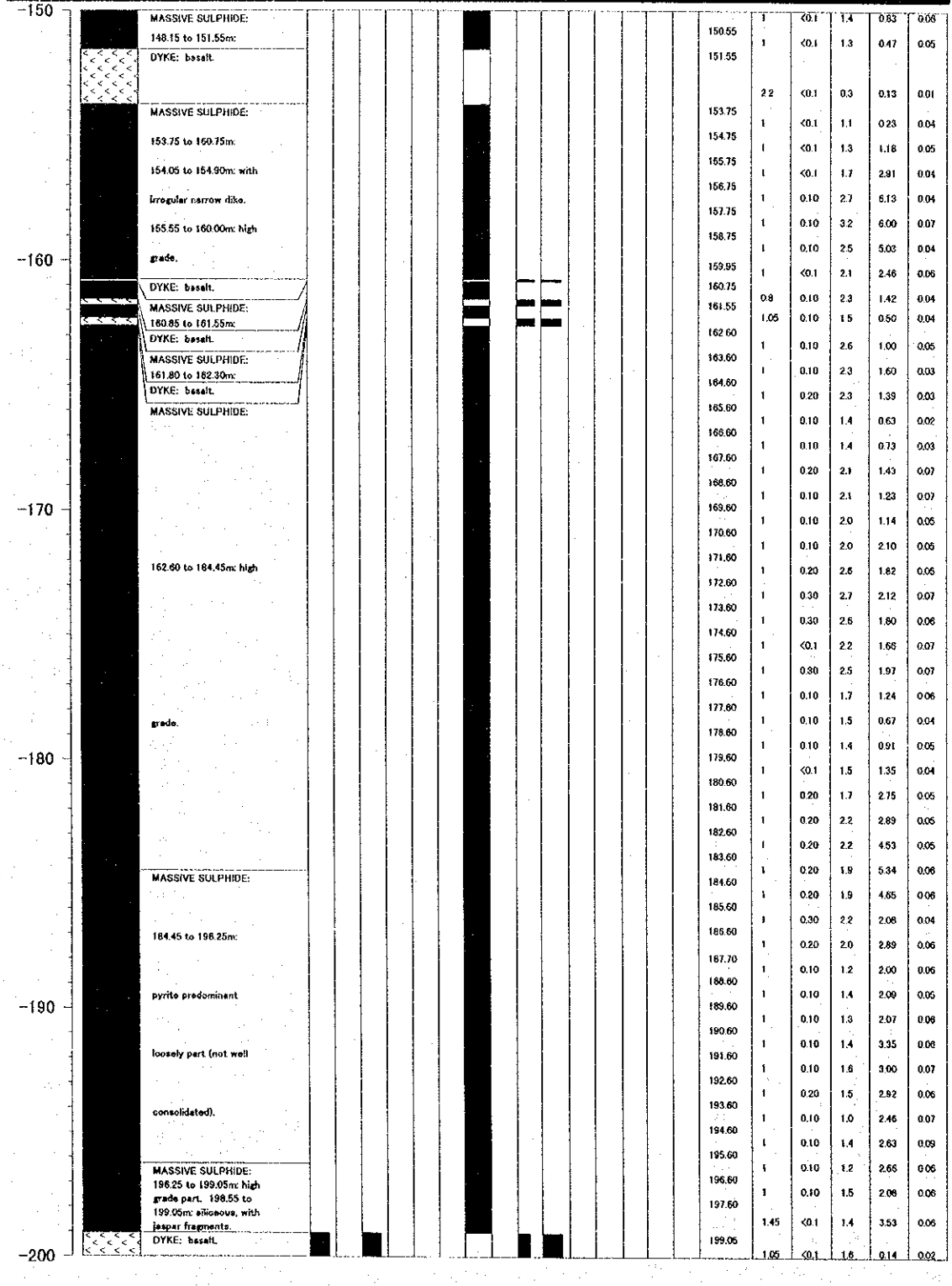
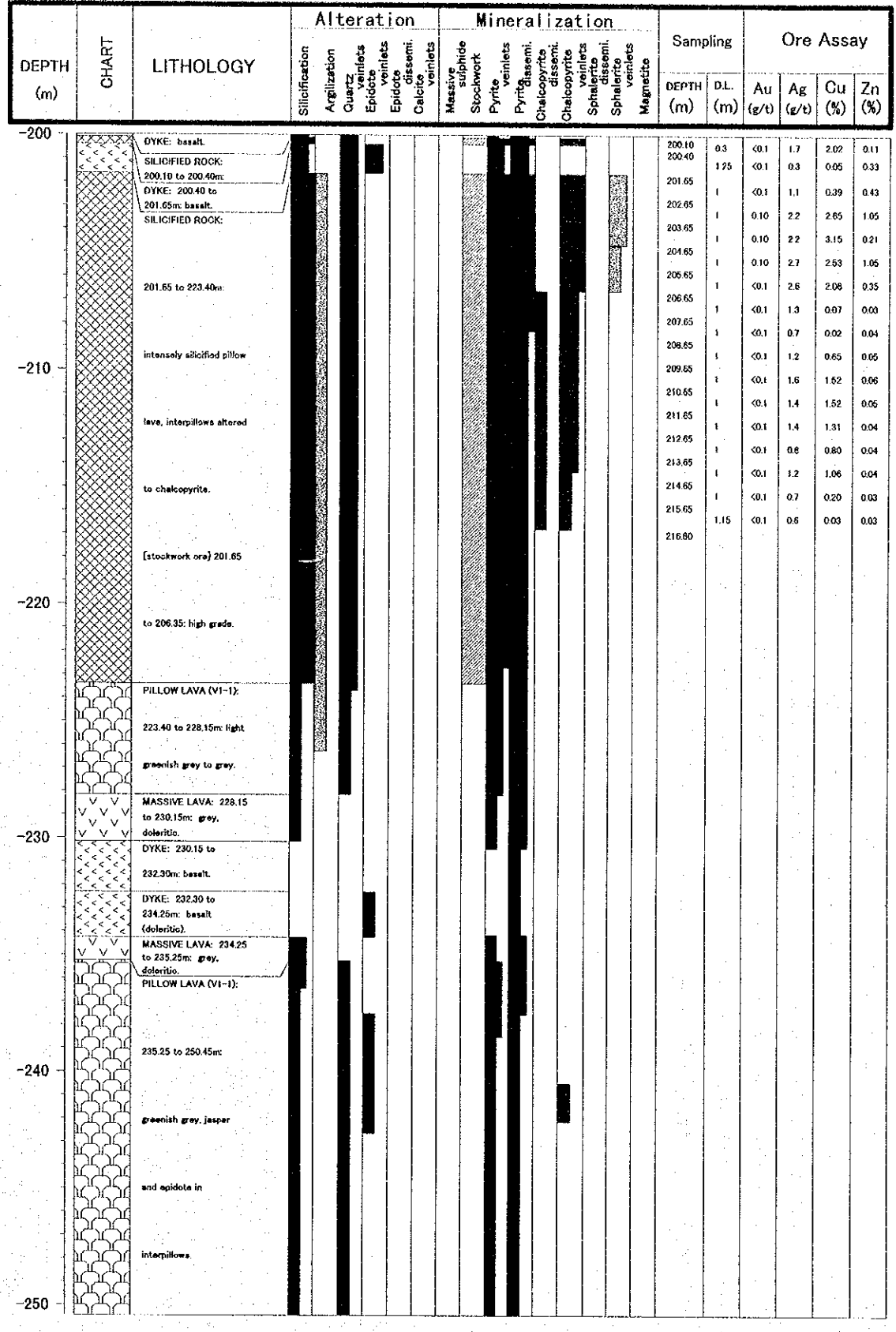


DEPTH (m)	CHART	LITHOLOGY	Alteration: Silicification	Alteration: Argilization	Alteration: Quartz veinlets	Alteration: Epidote veinlets	Alteration: Epidote dissemi.	Alteration: Calcite veinlets	Mineralization: Massive sulphide	Mineralization: Stockwork	Mineralization: Pyrite veinlets	Mineralization: Pyrite dissemi.	Mineralization: Chalcopyrite dissemi.	Mineralization: Chalcopyrite veinlets	Mineralization: Sphalerite dissemi.	Mineralization: Sphalerite veinlets	Mineralization: Magnetite
-150		MASSIVE SULPHIDE: 148.15 to 151.55m:							■								
		DYKE: basalt.															
		MASSIVE SULPHIDE: 153.75 to 160.75m: 154.05 to 154.90m: with irregular narrow dike. 155.55 to 160.00m: high grade.							■								
-160		DYKE: basalt.							■								
		MASSIVE SULPHIDE: 160.85 to 161.55m:							■		■	■					
		DYKE: basalt.															
		MASSIVE SULPHIDE: 161.80 to 162.30m:							■		■	■					
		DYKE: basalt.															
		MASSIVE SULPHIDE: 162.60 to 184.45m: high grade.							■								
-170																	
-180																	
		MASSIVE SULPHIDE: 184.45 to 196.25m: pyrite predominant loosely part (not well consolidated).							■								
-190																	
		MASSIVE SULPHIDE: 196.25 to 199.05m: high grade part. 198.55 to 199.05m: siliceous, with jaspar fragments.							■								
-200		DYKE: basalt.			■						■	■					

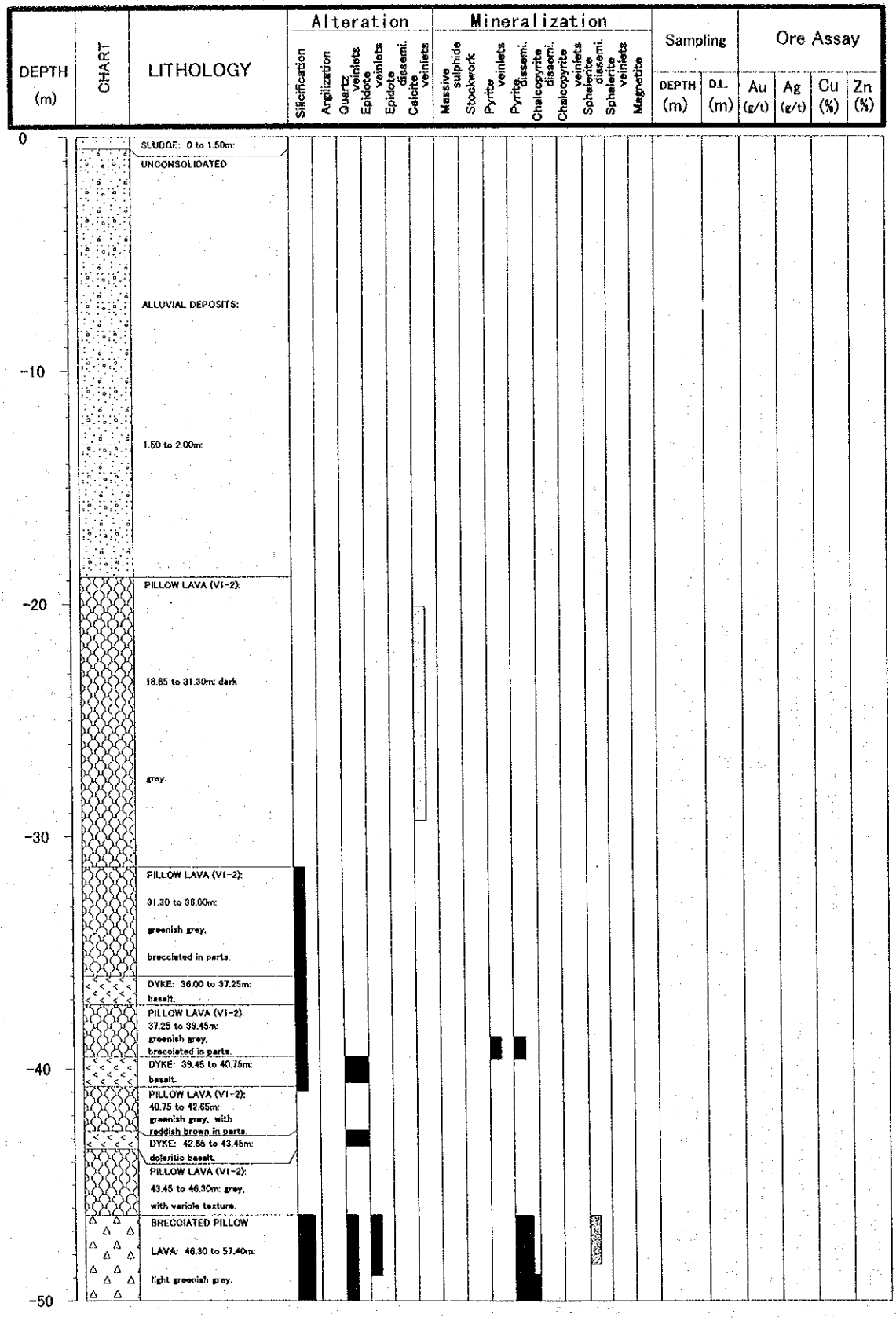
Sampling DEPTH (m)	Sampling D.L. (m)	Ore Assay Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
150.55	1	<0.1	1.4	0.83	0.06
151.55	1	<0.1	1.3	0.47	0.05
	2.2	<0.1	0.3	0.13	0.01
153.75	1	<0.1	1.1	0.23	0.04
154.75	1	<0.1	1.3	1.18	0.05
155.75	1	<0.1	1.7	2.91	0.04
156.75	1	0.10	2.7	6.13	0.04
157.75	1	0.10	3.2	6.00	0.07
158.75	1	0.10	2.5	5.03	0.04
159.95	1	<0.1	2.1	2.46	0.06
160.75	0.8	0.10	2.3	1.42	0.04
161.55	1.05	0.10	1.5	0.50	0.04
162.60	1	0.10	2.6	1.00	0.05
163.60	1	0.10	2.3	1.60	0.03
164.60	1	0.20	2.3	1.39	0.03
165.60	1	0.10	1.4	0.63	0.02
166.60	1	0.10	1.4	0.73	0.03
167.60	1	0.20	2.1	1.43	0.07
168.60	1	0.10	2.1	1.23	0.07
169.60	1	0.10	2.0	1.14	0.05
170.60	1	0.10	2.0	2.10	0.05
171.60	1	0.20	2.5	1.82	0.05
172.60	1	0.30	2.7	2.12	0.07
173.60	1	0.30	2.6	1.80	0.06
174.60	1	<0.1	2.2	1.66	0.07
175.60	1	0.30	2.5	1.97	0.07
176.60	1	0.10	1.7	1.24	0.06
177.60	1	0.10	1.5	0.67	0.04
178.60	1	0.10	1.4	0.91	0.05
179.60	1	<0.1	1.5	1.35	0.04
180.60	1	0.20	1.7	2.75	0.05
181.60	1	0.20	2.2	2.89	0.05
182.60	1	0.20	2.2	4.53	0.05
183.60	1	0.20	1.9	5.34	0.06
184.60	1	0.20	1.9	4.65	0.06
185.60	1	0.30	2.2	2.08	0.04
186.60	1	0.20	2.0	2.89	0.06
187.70	1	0.10	1.2	2.00	0.06
188.60	1	0.10	1.4	2.09	0.05
189.60	1	0.10	1.3	2.07	0.08
190.60	1	0.10	1.4	3.35	0.08
191.60	1	0.10	1.6	3.00	0.07
192.60	1	0.20	1.5	2.92	0.06
193.60	1	0.10	1.0	2.46	0.07
194.60	1	0.10	1.4	2.63	0.09
195.60	1	0.10	1.2	2.66	0.06
196.60	1	0.10	1.5	2.08	0.06
197.60	1.45	<0.1	1.4	3.53	0.06
199.05	1.05	<0.1	1.6	0.14	0.02

Hole No. MJOB-G40 (From 0.00 m to -250.45 m)

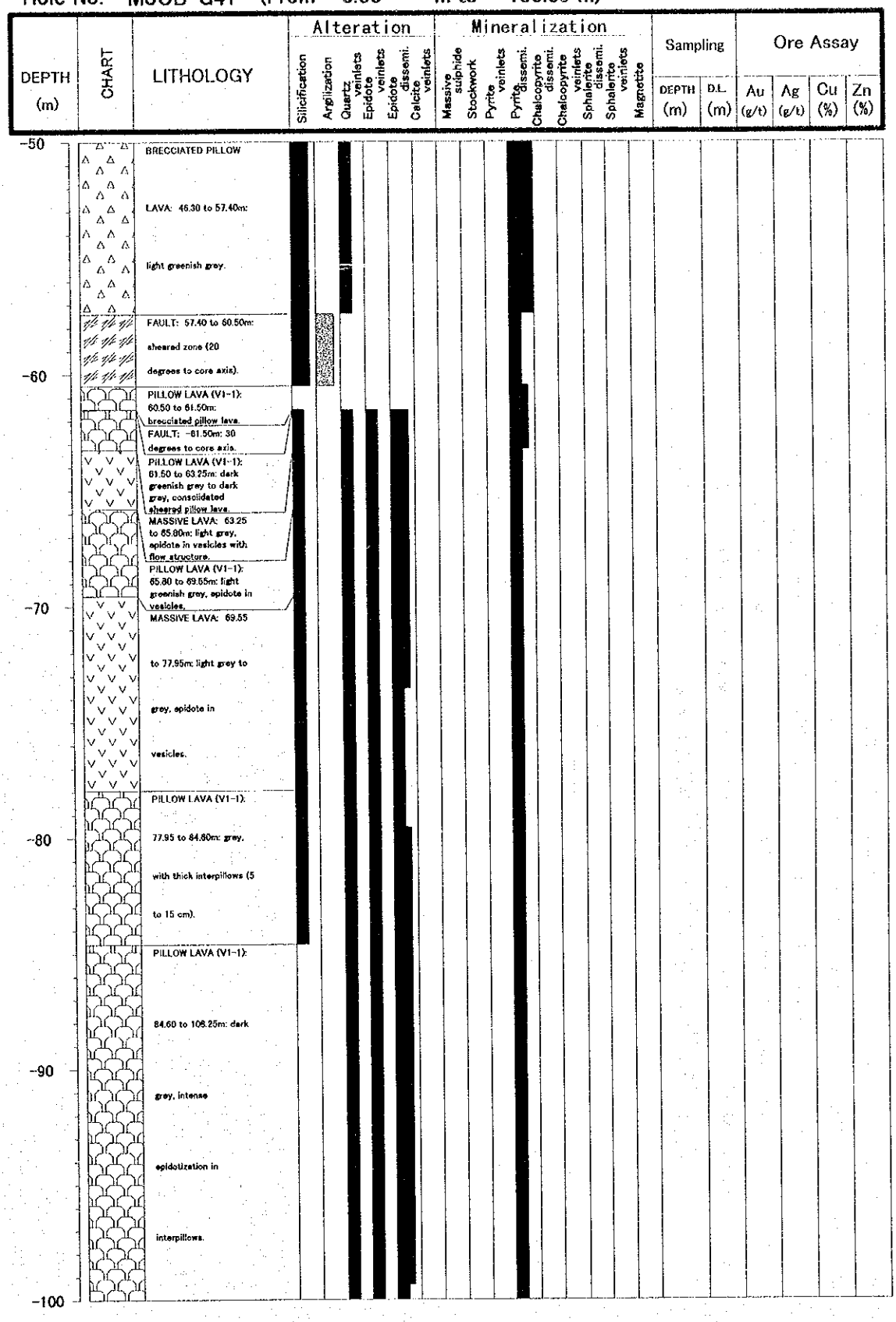


Sampling		Ore Assay			
DEPTH (m)	D.L. (m)	Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
200.10	0.3	<0.1	1.7	2.02	0.11
200.40	1.25	<0.1	0.3	0.05	0.33
201.65	1	<0.1	1.1	0.39	0.43
202.65	1	0.10	2.2	2.65	1.05
203.65	1	0.10	2.2	3.15	0.21
204.65	1	0.10	2.7	2.53	1.05
205.65	1	<0.1	2.6	2.08	0.35
206.65	1	<0.1	1.3	0.07	0.03
207.65	1	<0.1	0.7	0.02	0.04
208.65	1	<0.1	1.2	0.65	0.05
209.65	1	<0.1	1.6	1.52	0.06
210.65	1	<0.1	1.4	1.52	0.05
211.65	1	<0.1	1.4	1.31	0.04
212.65	1	<0.1	0.6	0.80	0.04
213.65	1	<0.1	1.2	1.06	0.04
214.65	1	<0.1	0.7	0.20	0.03
215.65	1.15	<0.1	0.6	0.03	0.03
216.80					

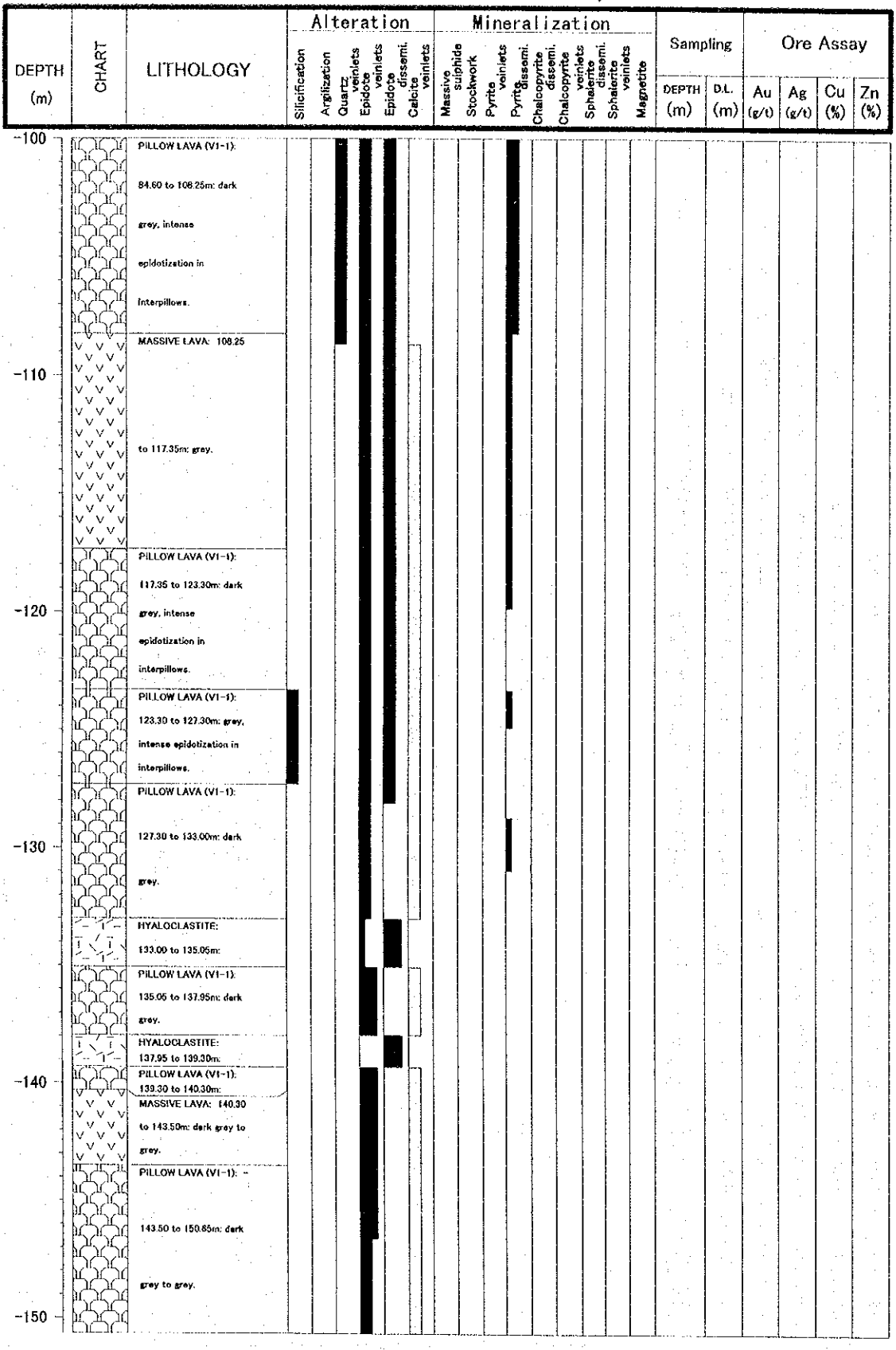
Hole No. MJOB-G41 (From 0.00 m to -150.65 m)



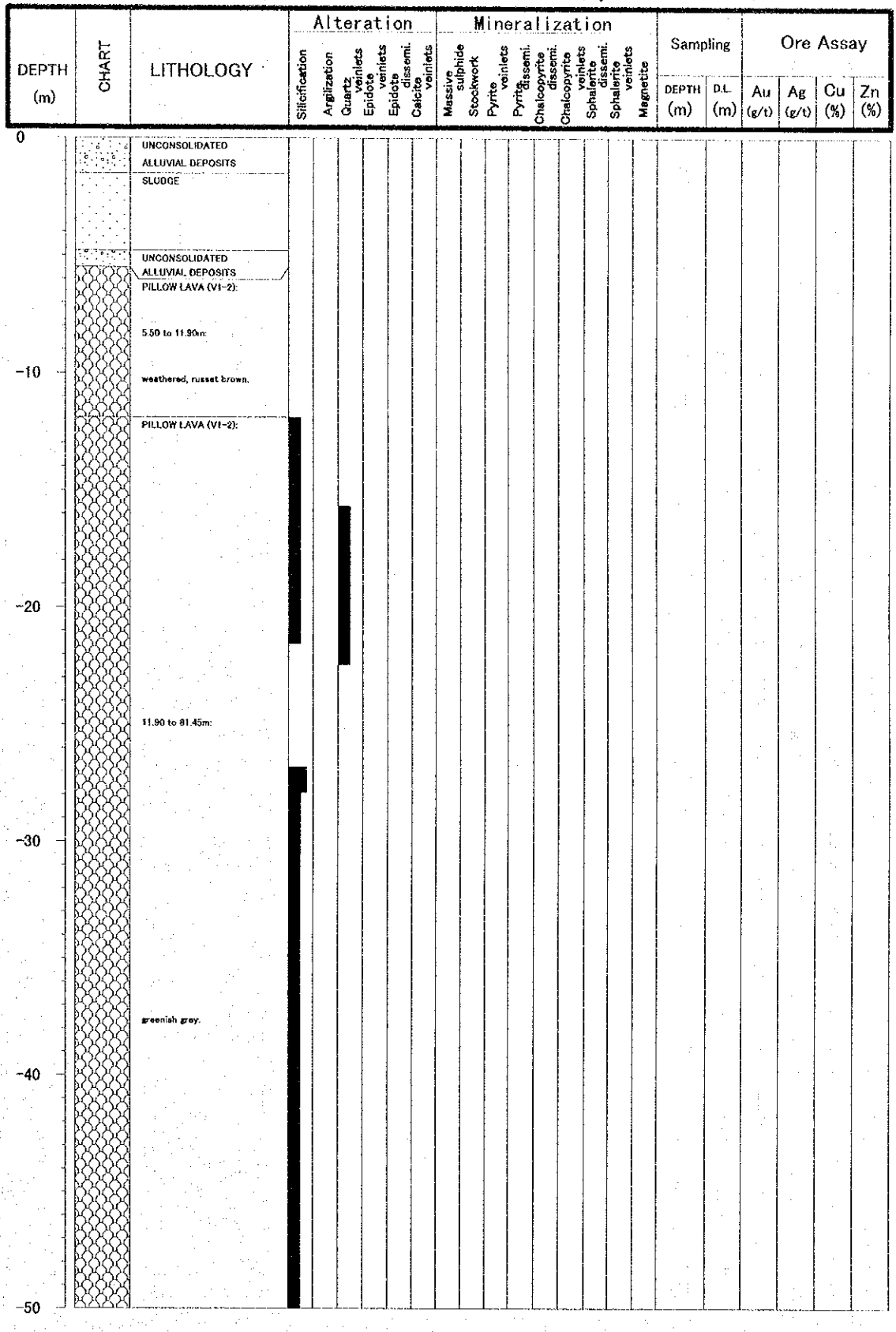
Hole No. MJOB-G41 (From 0.00 m to -150.65 m)



Hole No. MJOB-G41 (From 0.00 m to -150.65 m)



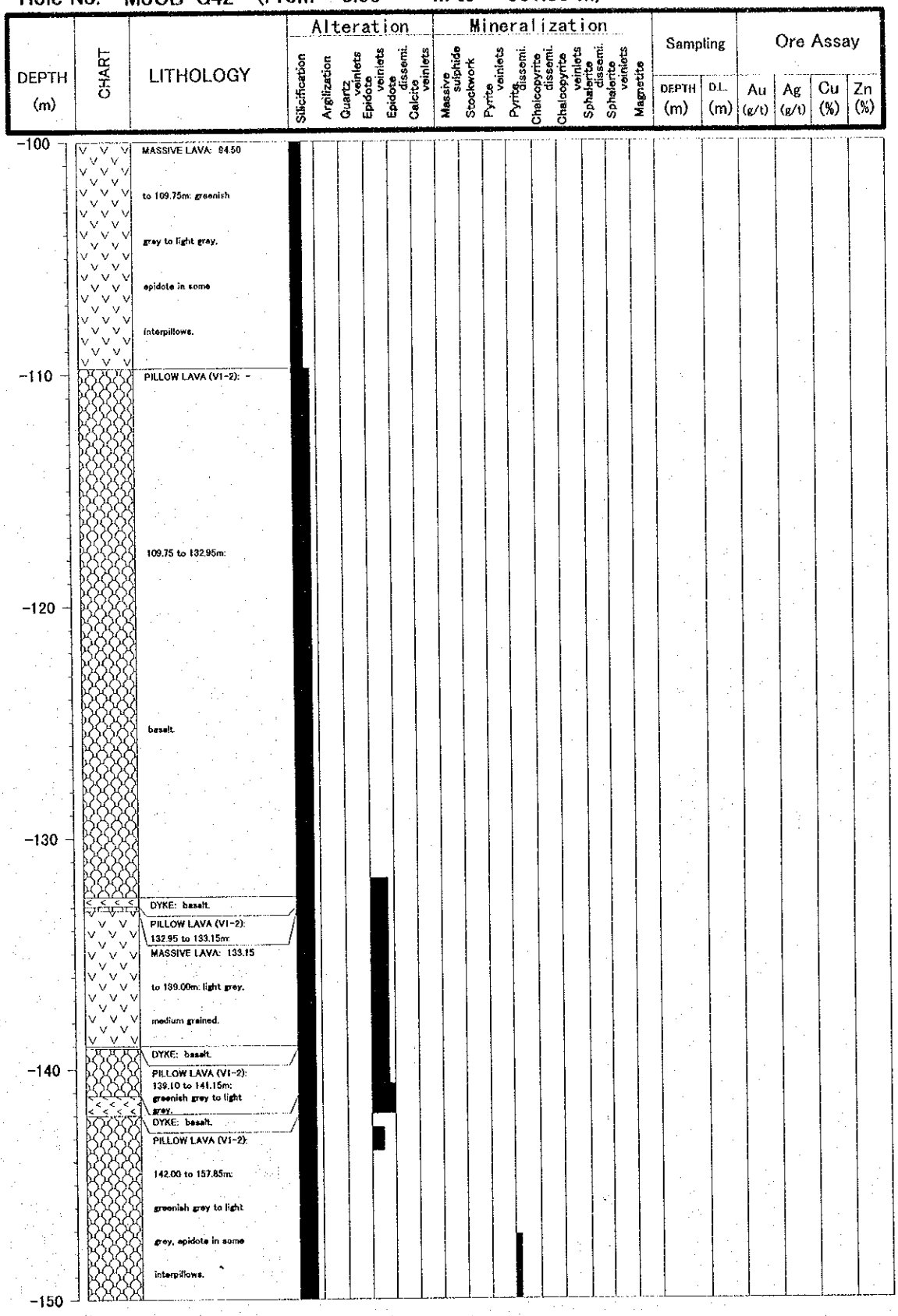
Hole No. MJOB-G42 (From 0.00 m to -301.80 m)



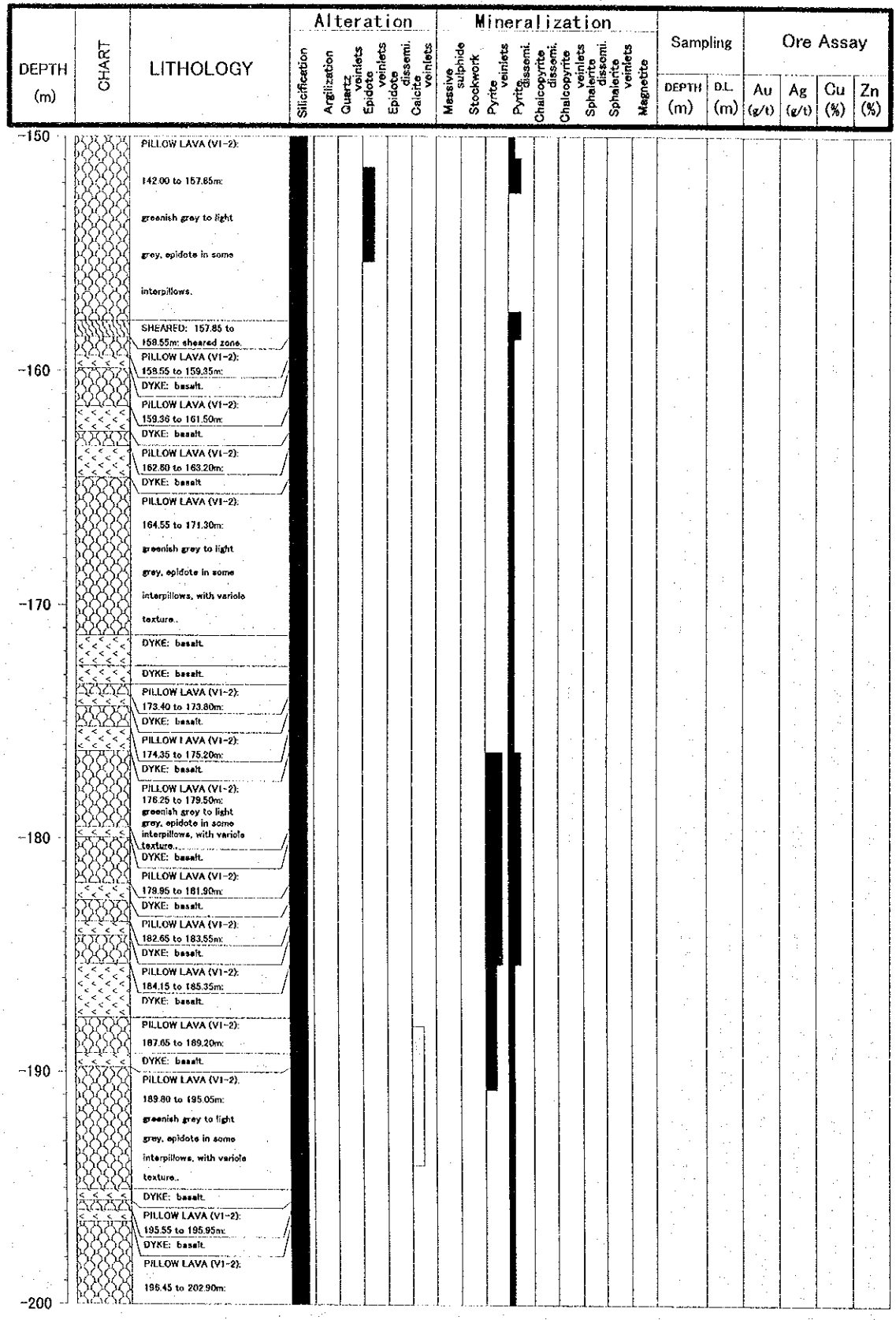
Hole No. MJOB-G42 (From 0.00 m to -301.80 m)

DEPTH (m)	CHART	LITHOLOGY	Alteration: Silicification	Argillization	Quartz veinlets	Epidote veinlets	Epidote disseminated	Calcite veinlets	Mineralization: Massive sulphide	Stockwork	Pyrite veinlets	Pyrite disseminated	Chalcopyrite disseminated	Chalcopyrite veinlets	Sphalerite disseminated	Sphalerite veinlets	Magnetite	Sampling: DEPTH (m)	D.L. (m)	Ore Assay: Au (g/t)	Ag (g/t)	Cu (%)	Zn (%)
-50		PILLOW LAVA (V1-2):																					
		11.90 to 81.45m:																					
-60																							
		greenish grey.																					
-70																							
-80		MASSIVE LAVA: 81.45 to 83.10m: greenish grey.																					
		PILLOW LAVA (V1-2):																					
		83.10 to 94.50m:																					
-90		greenish grey.																					
		MASSIVE LAVA: 94.50 to 109.75m: greenish grey to light grey, epidote in some interpillows.																					
-100																							

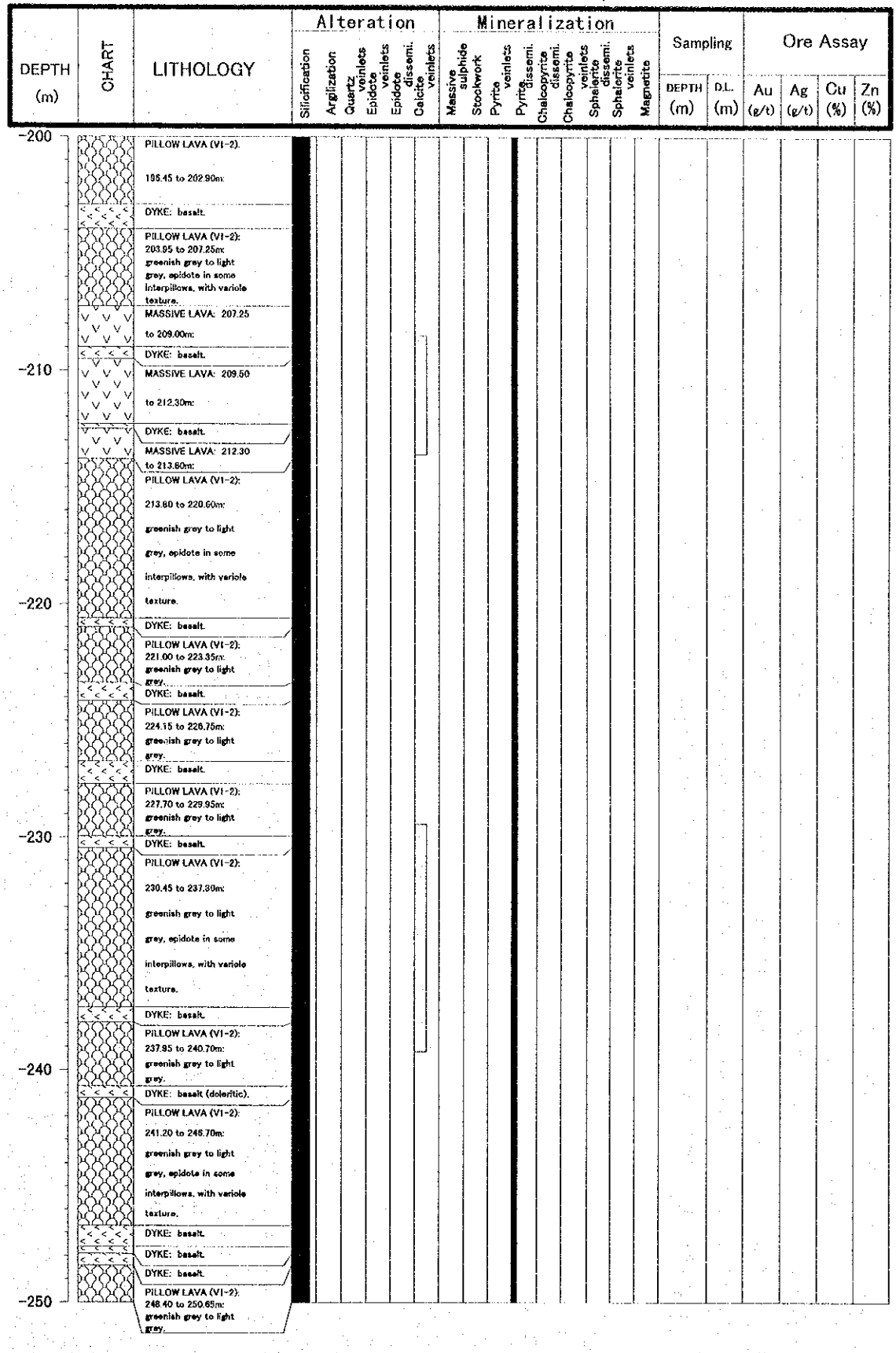
Hole No. MJOB-G42 (From 0.00 m to -301.80 m)



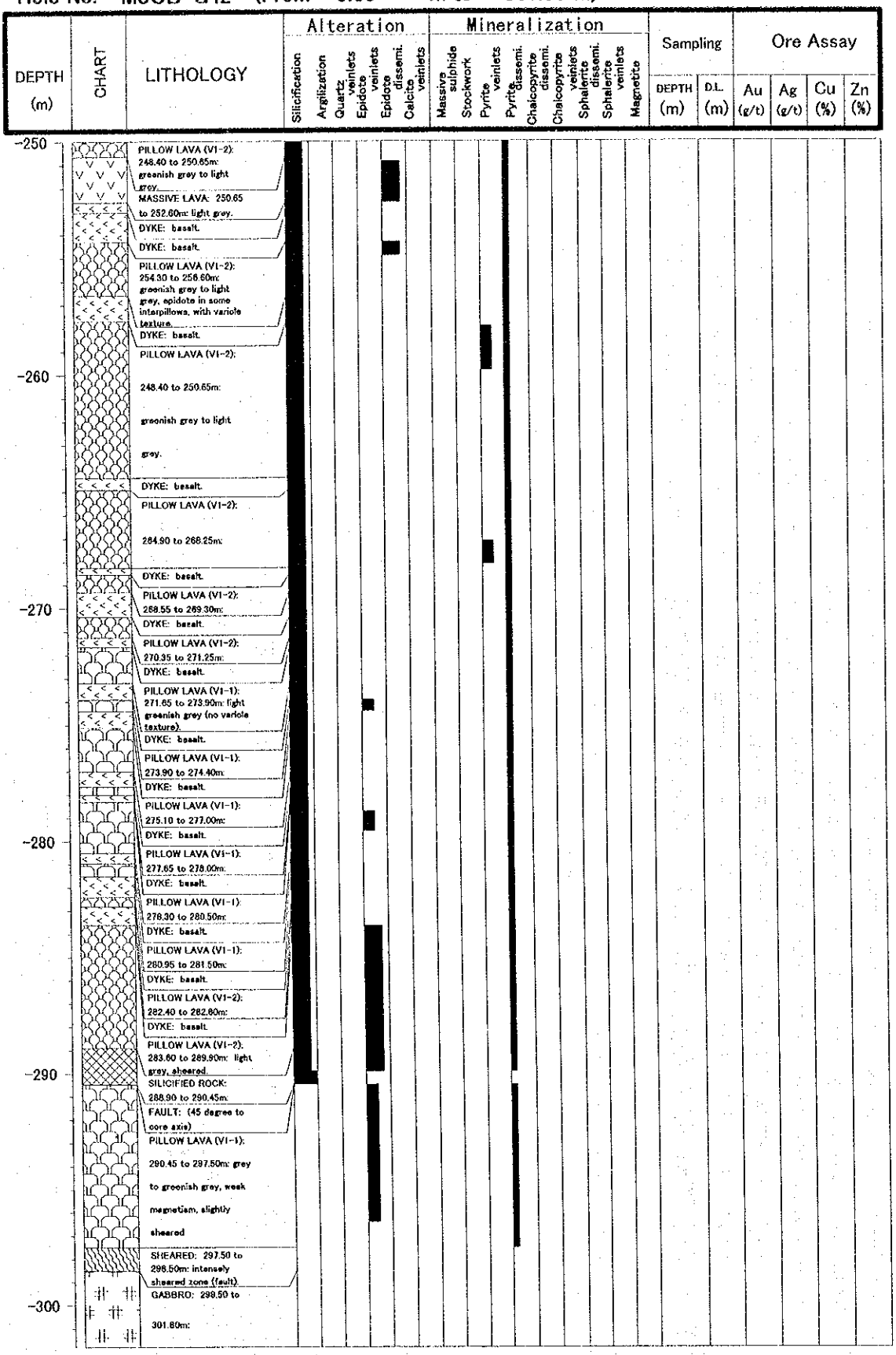
Hole No. MJOB-G42 (From 0.00 m to -301.80 m)



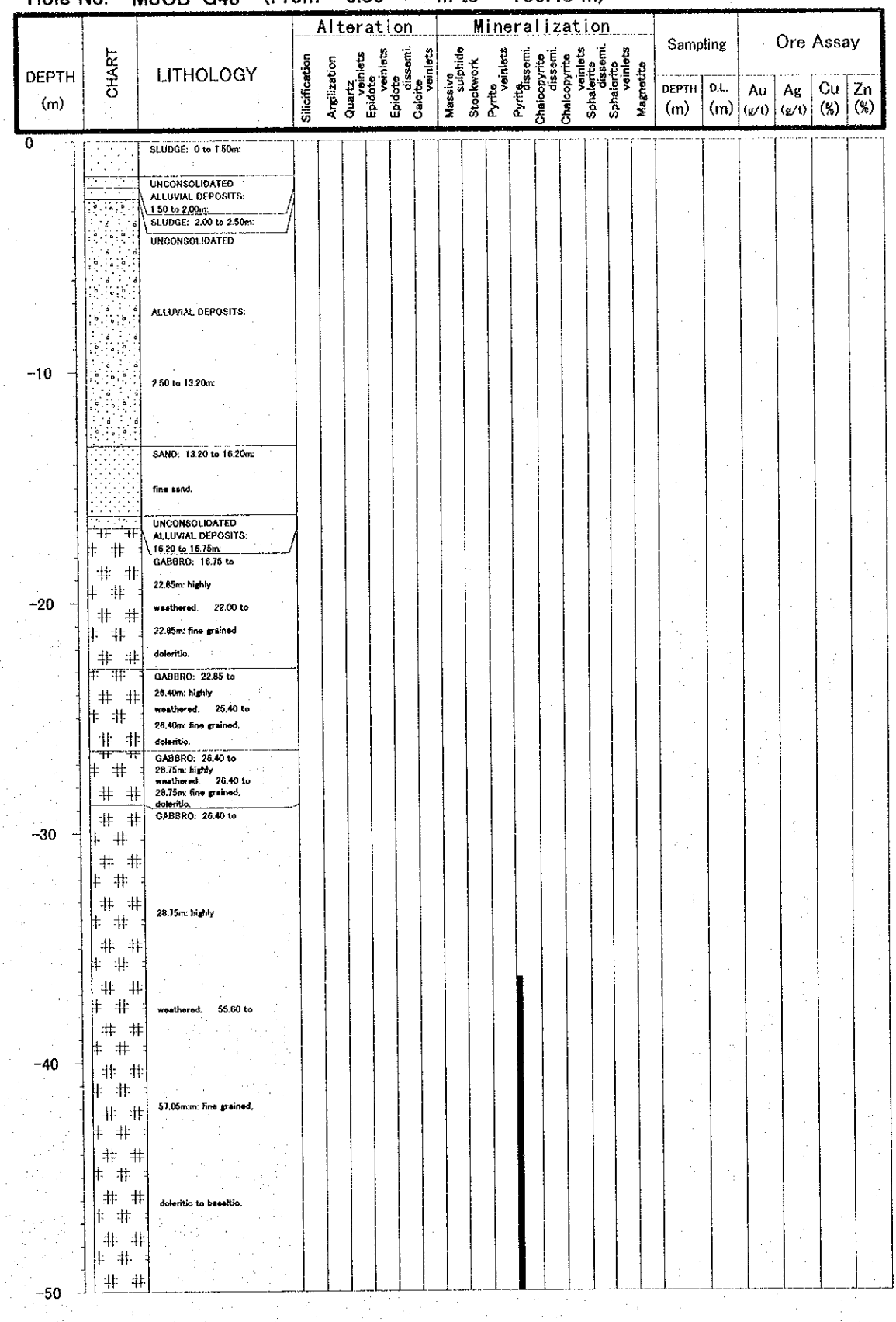
Hole No. MJOB-G42 (From 0.00 m to -301.80 m)



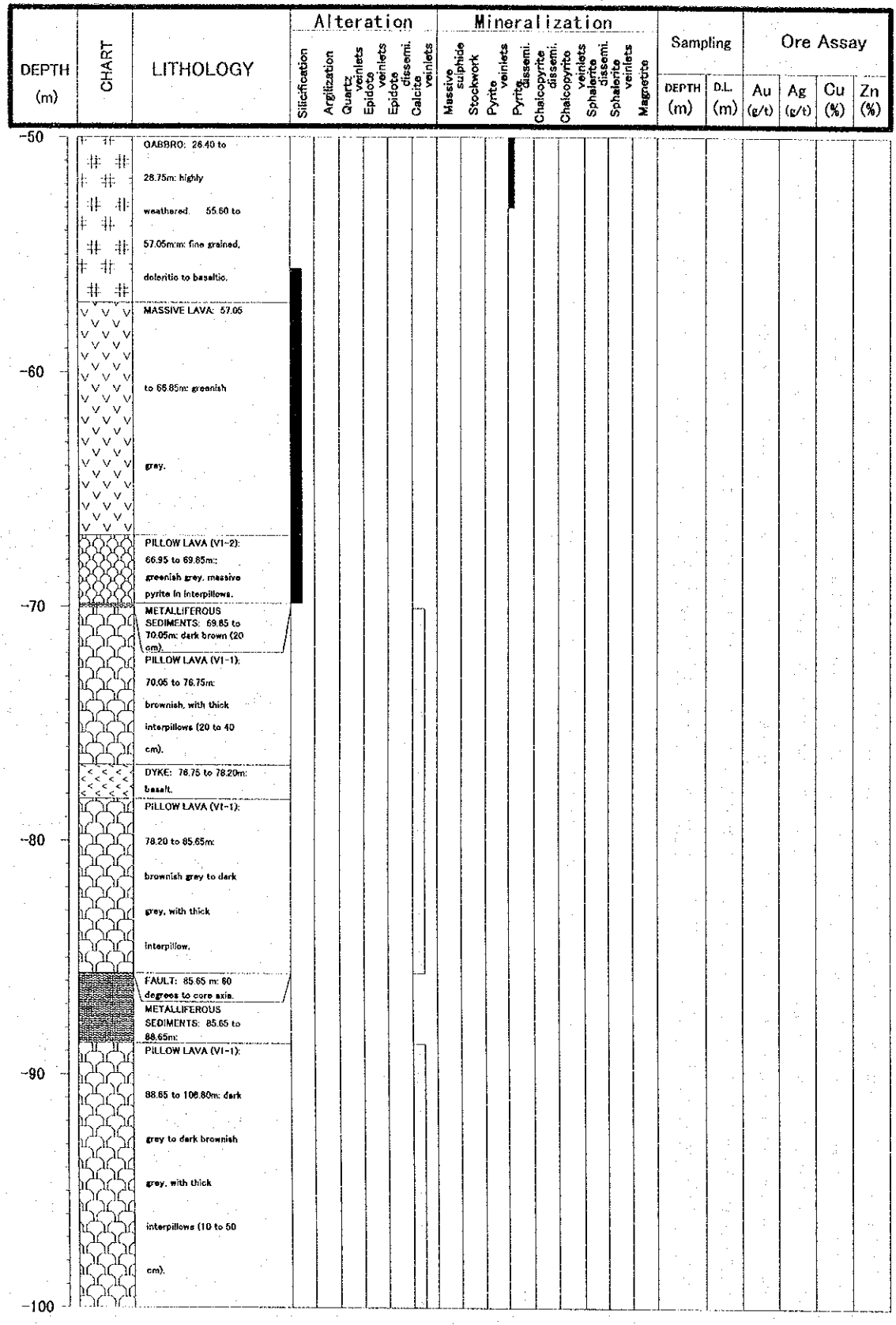
Hole No. MJOB-G42 (From 0.00 m to -301.80 m)



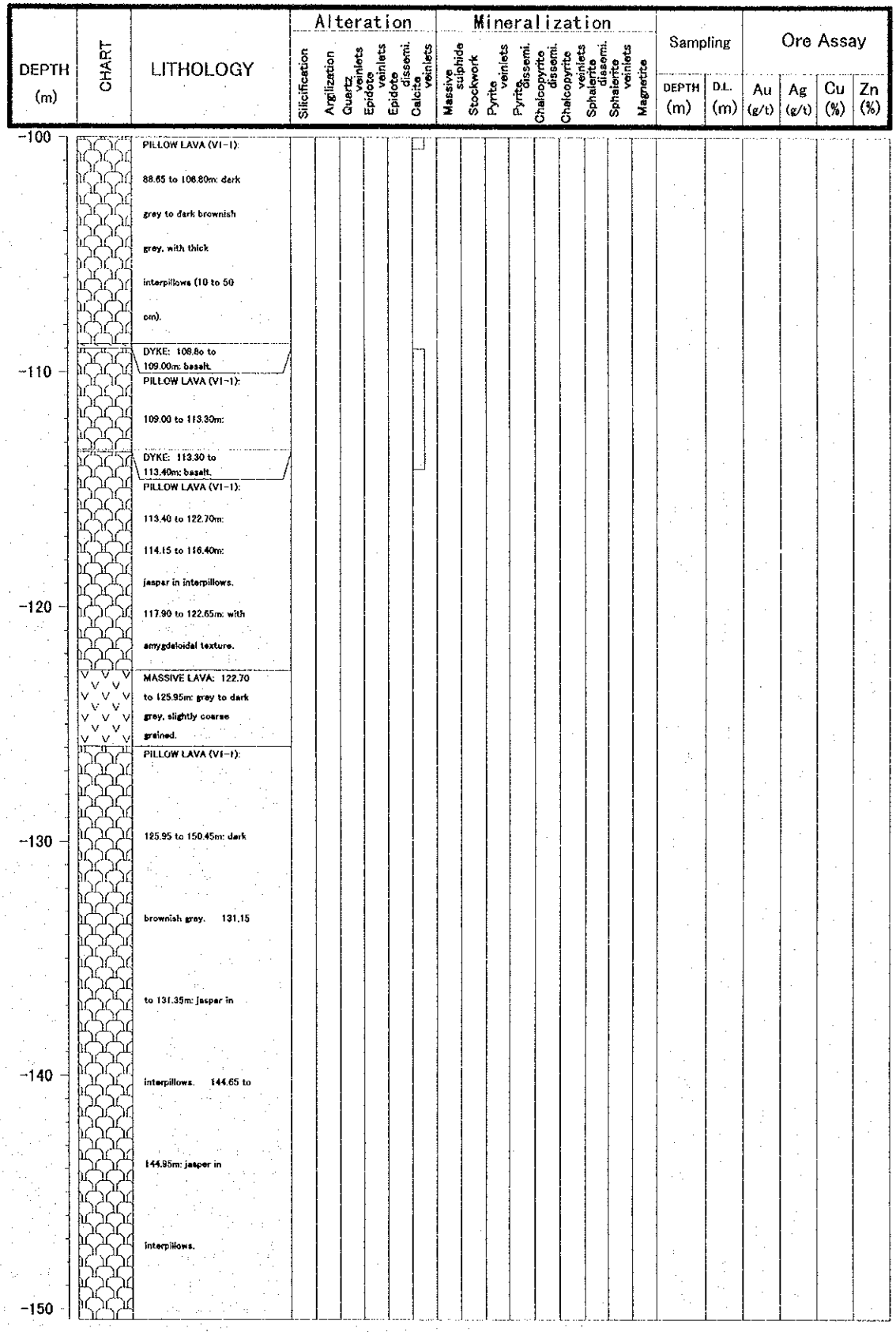
Hole No. MJOB-G43 (From 0.00 m to -150.45 m)



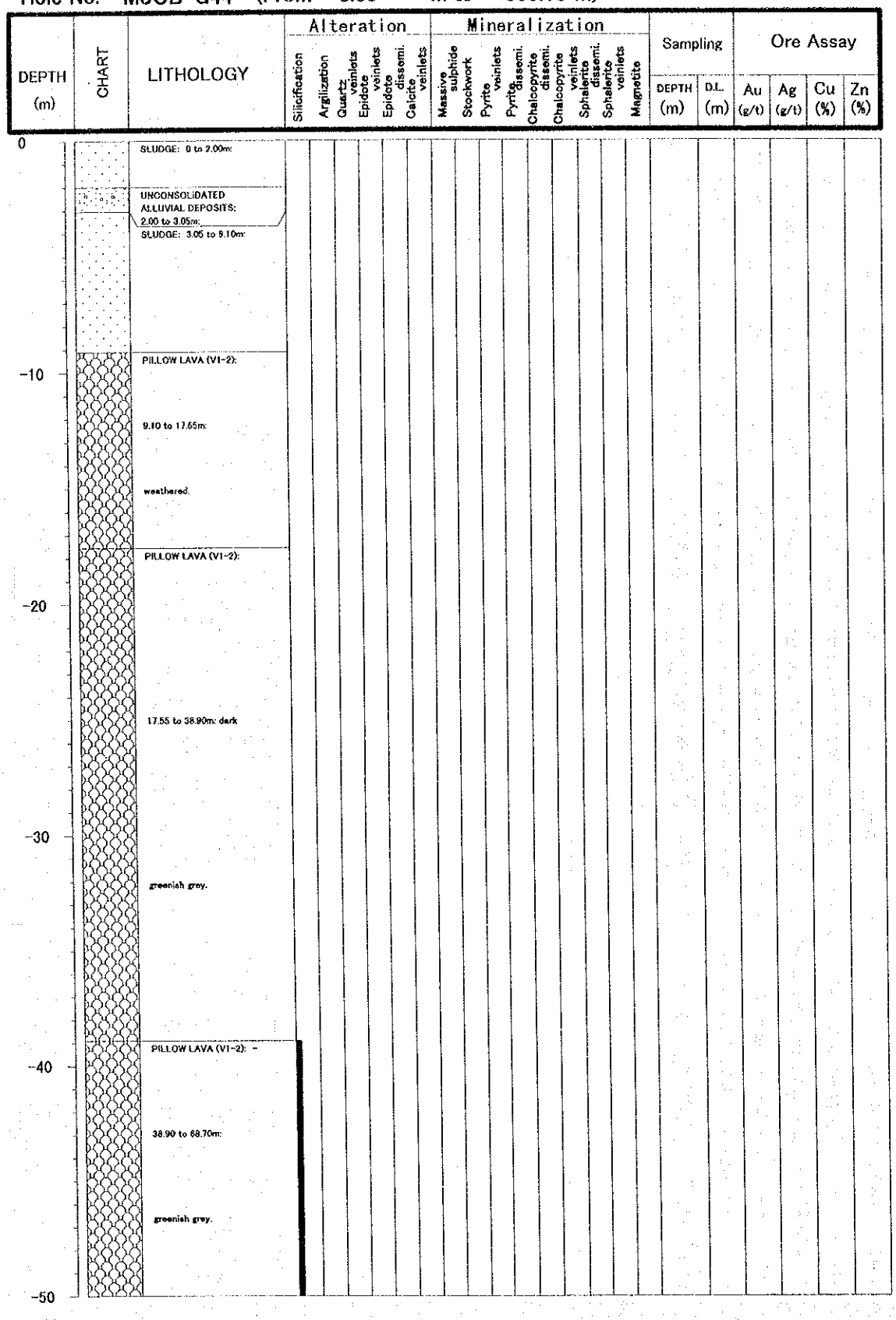
Hole No. MJOB-G43 (From 0.00 m to -150.45 m)



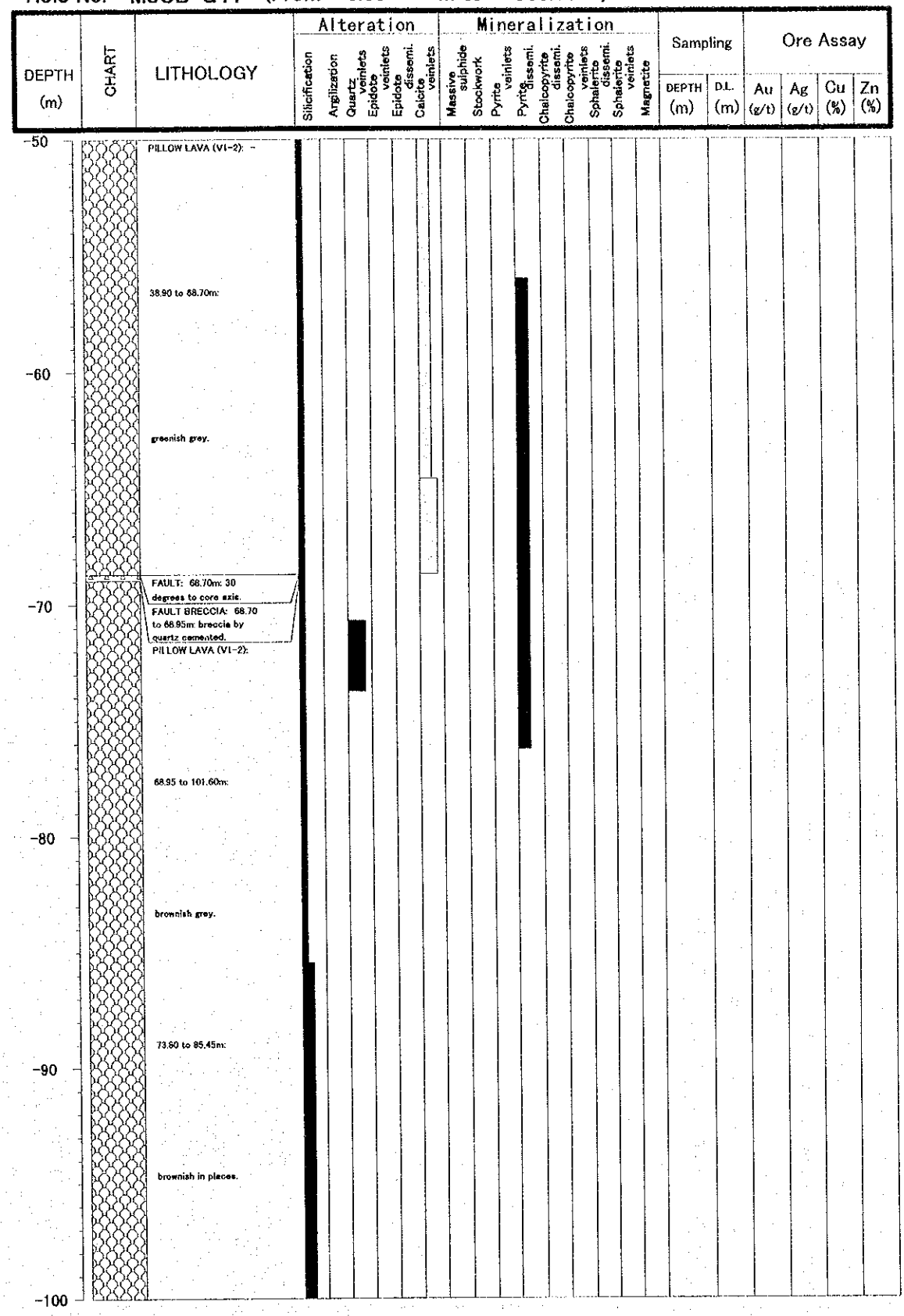
Hole No. MJOB-G43 (From 0.00 m to -150.45 m)



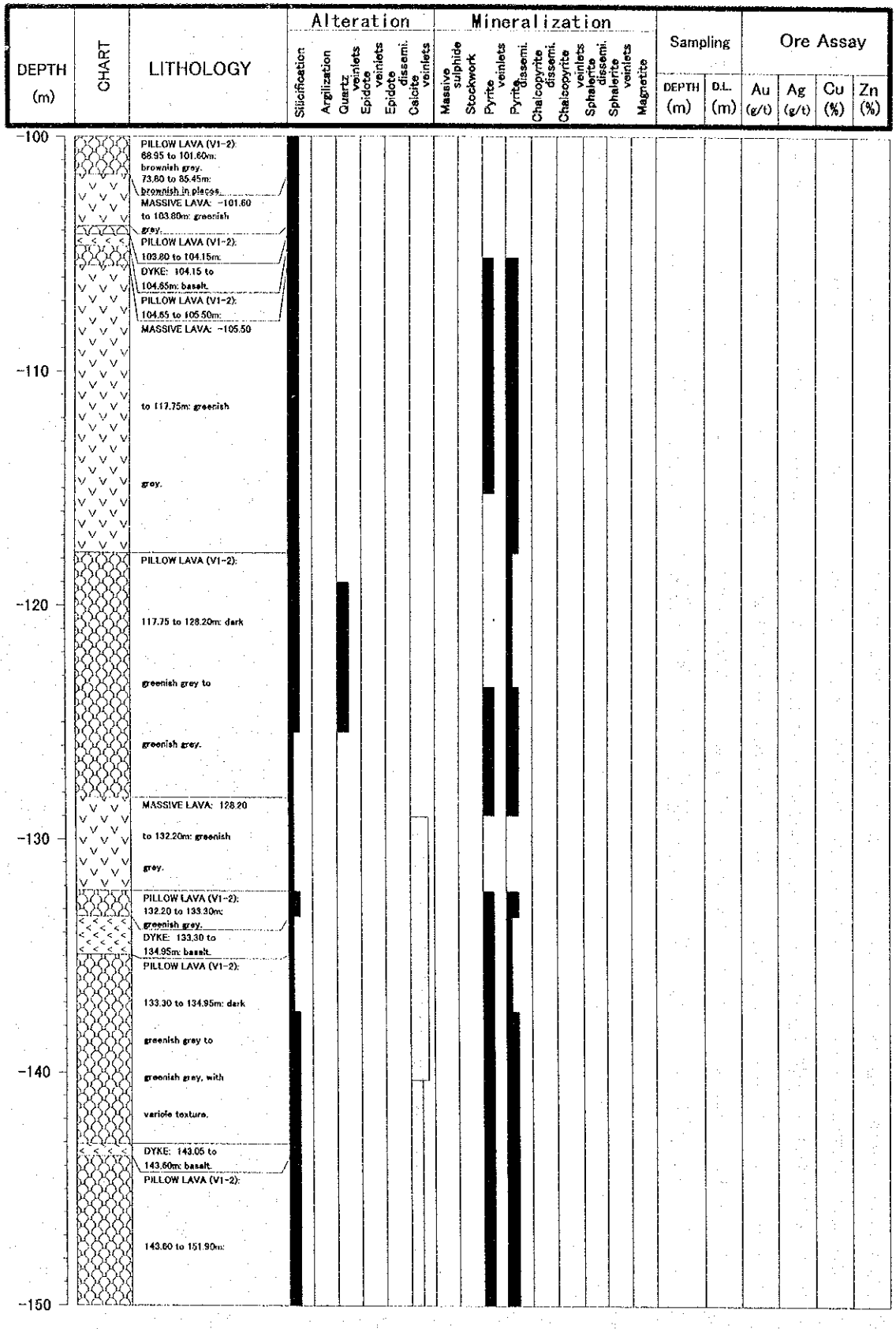
Hole No. MJOB-G44 (From 0.00 m to -300.15 m)



Hole No. MJOB-G44 (From 0.00 m to -300.15 m)



Hole No. MJOB-G44 (From 0.00 m to -300.15 m)



Hole No. MJOB-G44 (From 0.00 m to -300.15 m)