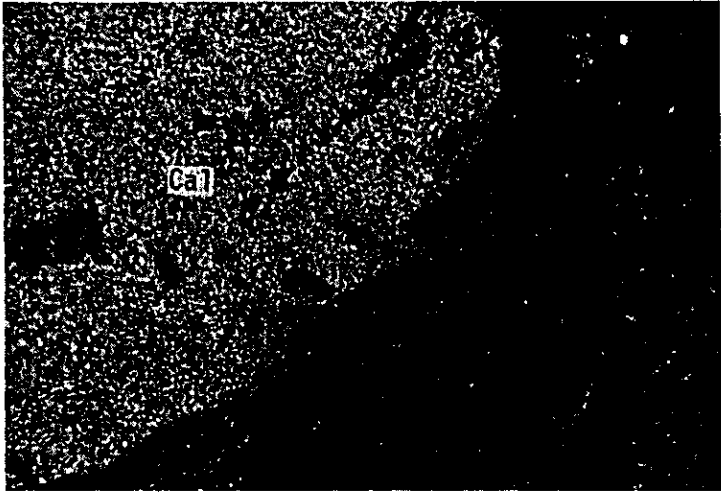


No. 20  
Sample No. T-25  
Rock Name: Oolite

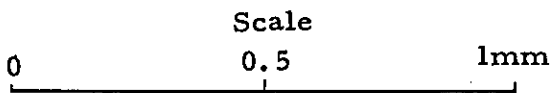


Open nicol



Crossed nicol

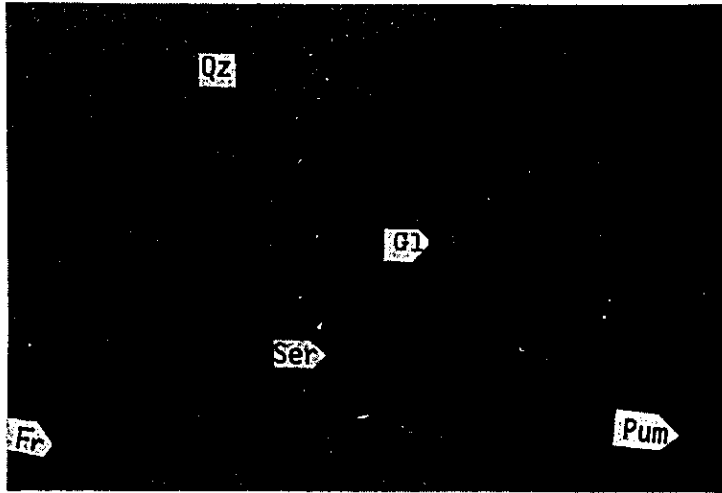
Cal : Calcite  
Qz : Quartz



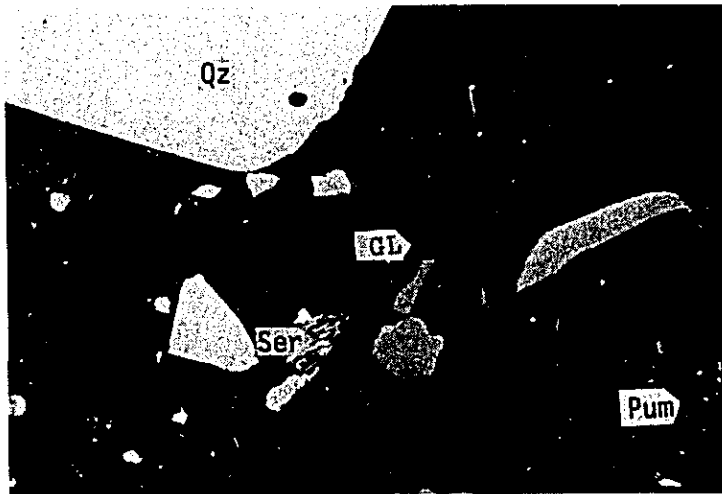
The rock is mainly composed of calcareous material (calcite) which showing oolitic texture. Small amounts of fragmental quartz and alkali-feldspars are included in calcareous materials.

No. 21

Sample No. T-26



Open nicol



Crossed nicols

Qz : Quartz  
Ser : Sericite  
Gi : Glass  
Fr : Fragment  
Pum: Pumice

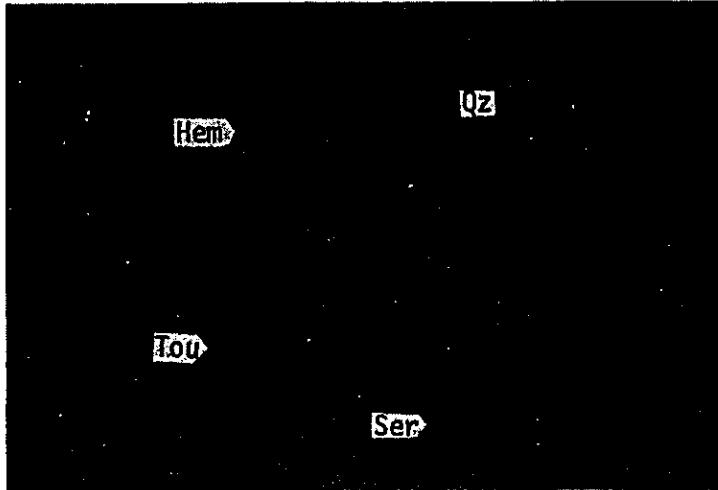
Scale  
0.5 1mm

**Altered tuff**

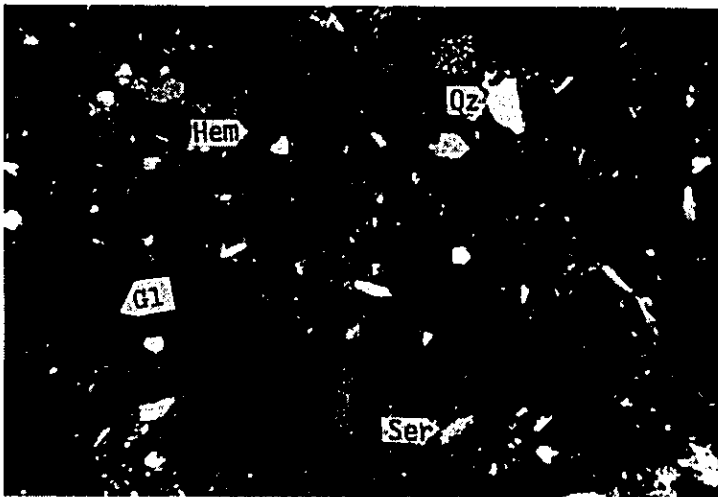
Phenocrystic corroded quartz and fragmental quartz are dominant, and small fragments of volcanic rock is sometimes observed. Matrix is fine grained quartz, sericite, clay minerals and ore. Glass and pumiceous fragments are devitrified. Xenomorphic aggregates of quartz are observed. Sericitization is distinctive.

No. 22

Sample No. T-31



Open nicol



Crossed nicols

Hem : Hematite

Tou : Tourmaline

Ser : Sericite

Qz : Quartz

Scale

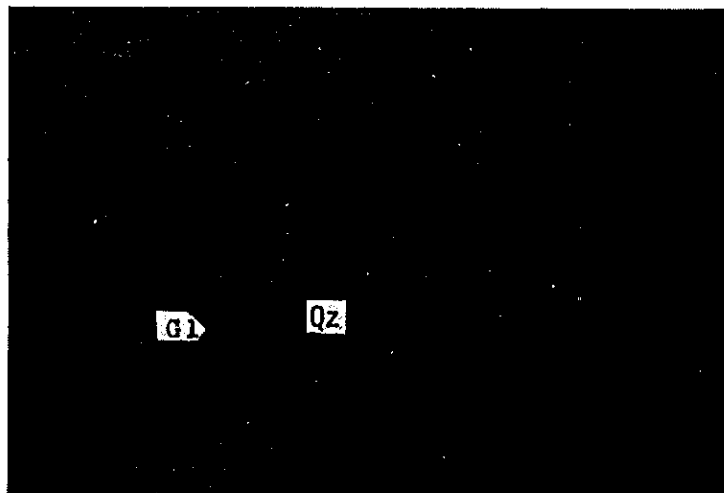
0.5

1.0mm

**Fine tuff**

It is composed of subangular and fragmental quartz, fragmental glass hematite like ore, sericite, chlorite and kaoline(?) in glassy matrix. Devitrification and argillization of glassy parts are remarkable, thus original constituents and texture are uncertain. Tourmaline is rarely observed.

No. 23  
Sample No. T-32

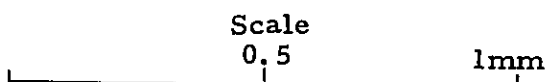


Open nicol



Crossed nicols

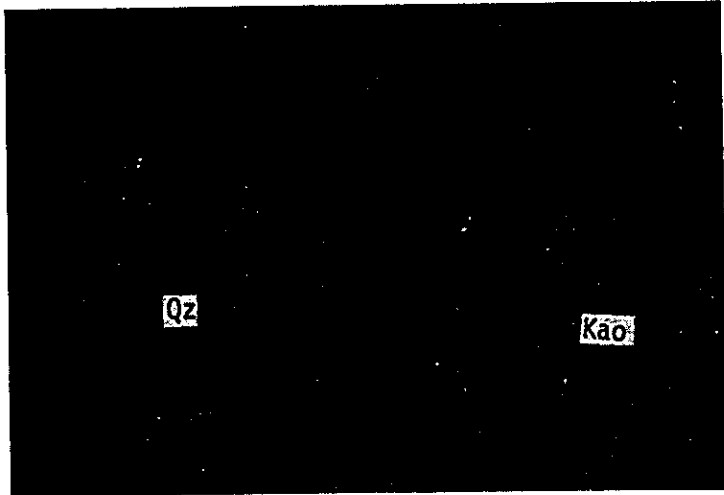
Gl : Glass  
Qz : Quartz



**Tuffaceous sandstone**

It is composed of fragmental quartz and glass and fine grained crystallized quartz. Clay mineral occur as the secondary constituents. Devitrification and argillization of glass and matrix are remarkable, thus exact petrography is impossible. Zircon is rarely included as detrital origin. Sometimes, fine grained part is observed as small lenticular shape, however, its composition is the same as that of coarse grained part.

No. 24  
Sample No. T-49



Open nicol



Crossed nicols

Kao : Kaoline

Qz : Quartz

Scale  
0.5                      1mm

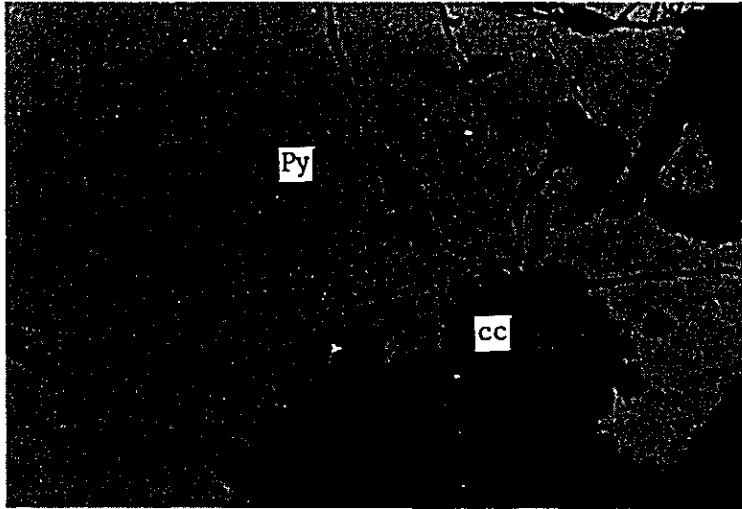
**Altered tuff**

The rock is mainly composed of idiomorphic, corroded or fragmental quartz and fine matrix. Crystallized xenomorphic quartz crystals occurs as aggregates. Small fragments of volcanic rock is sometimes observed. Aggregates of kaoline(?) may be the products from feldspars. Sericitization and chloritization of rock fragments are observed. Weakly devitrified glass fragments are sometimes included.

No. 25

Sample No. DDH. JS - 5  
(33<sup>m</sup> - 35<sup>m</sup>)

Location : Sabedaung

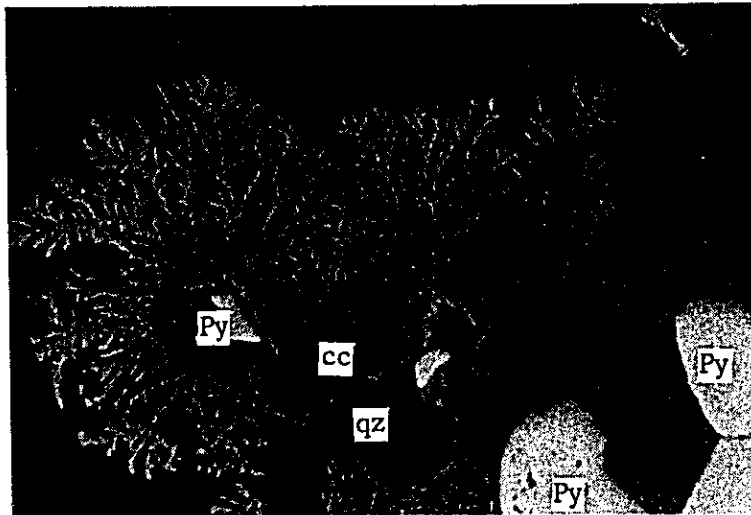


cc: chalcocite      0      50 u  
Py: pyrite

No. 26

Sample No. DDH. JS - 5  
(70<sup>m</sup> - 71<sup>m</sup>)

Location : Sabedaung



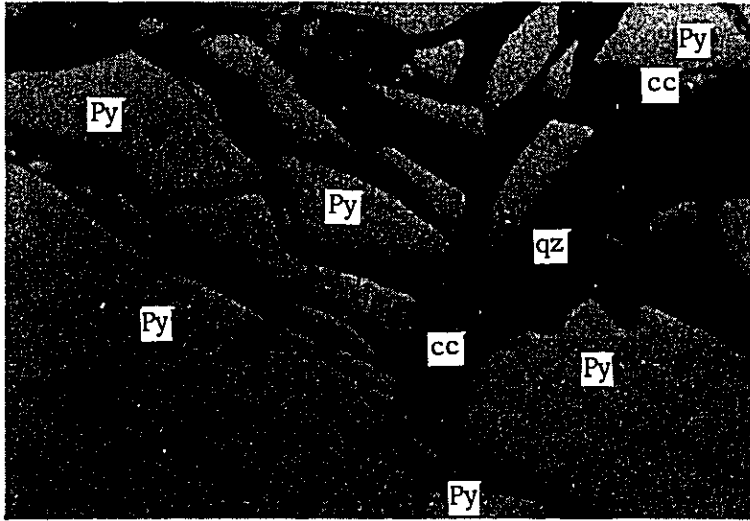
0      50 u

cc: chalcocite  
Py: pyrite  
qz: quartz  
chalcocite---dendrite texture

No. 27

Sample No. DDH. JS - 5  
(92m - 93m)

Location : Sabedaung



cc: chalcocite

0 50 u

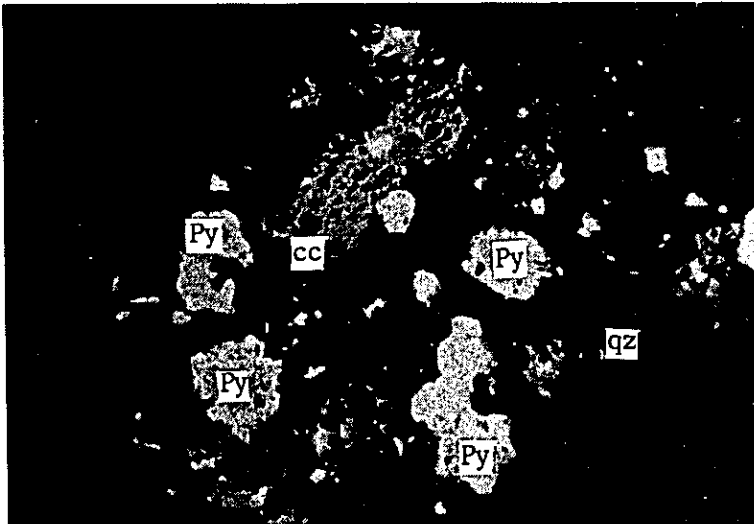
Py: pyrite

qz: quartz

No. 28

Sample No. DDH. JS - 5  
(107m - 108m)

Location : Sabedaung



cc: chalcocite

Py: pyrite

qz: quartz

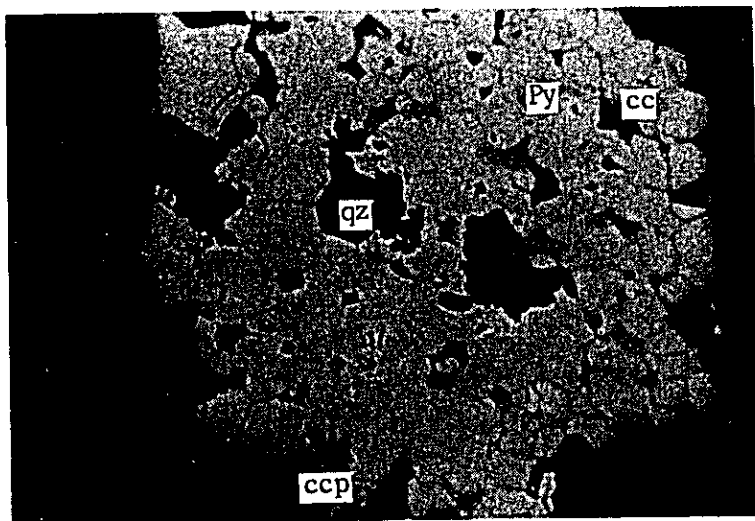
pyrite----corroded texture

0 50 u

No. 29

Sample No. DDH. JS - 2  
(127<sup>m</sup> - 128<sup>m</sup>)

Location : Sabedaung



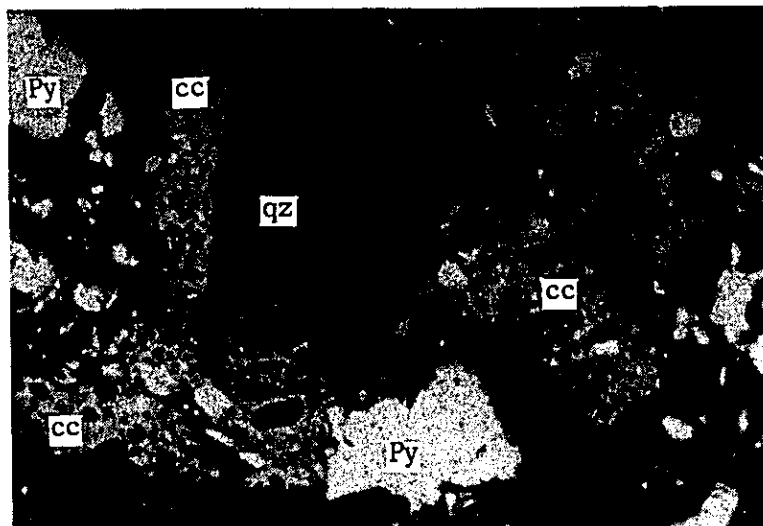
Py : pyrite  
cc: chalcocite  
ccp: chalcopyrite  
qz : quartz

0 50 u

No. 30

Sample No. DDH. JS - 8  
(129<sup>m</sup> - 130<sup>m</sup>)

Location : Sabedaung



cc: chalcocite  
Py: pyrite  
qz: quartz

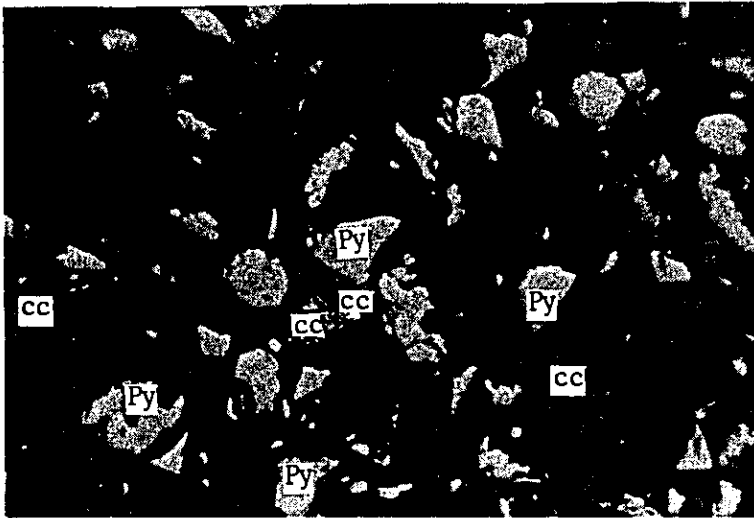
0 50 u



No. 31

Sample No. Flotation test No. 1

Location : Sabedaung



Concentration

cc : chalcocite

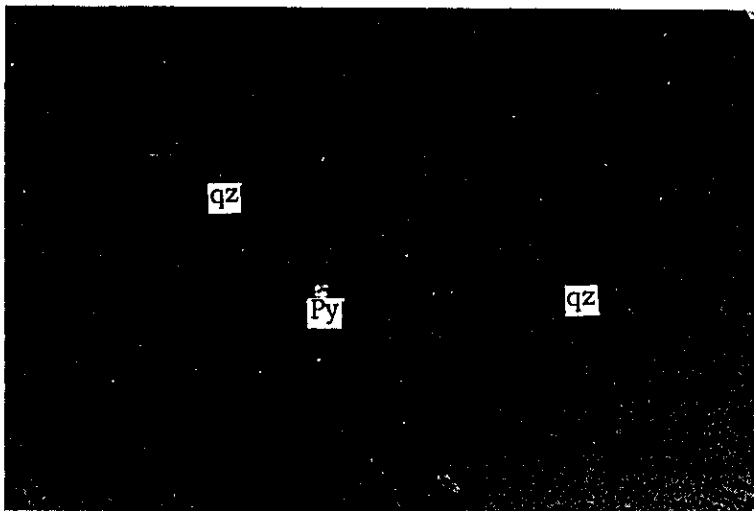
Py: pyrite

0 50 u

No. 32

Sample No. Flotation test No. 1

Location : Sabedaung

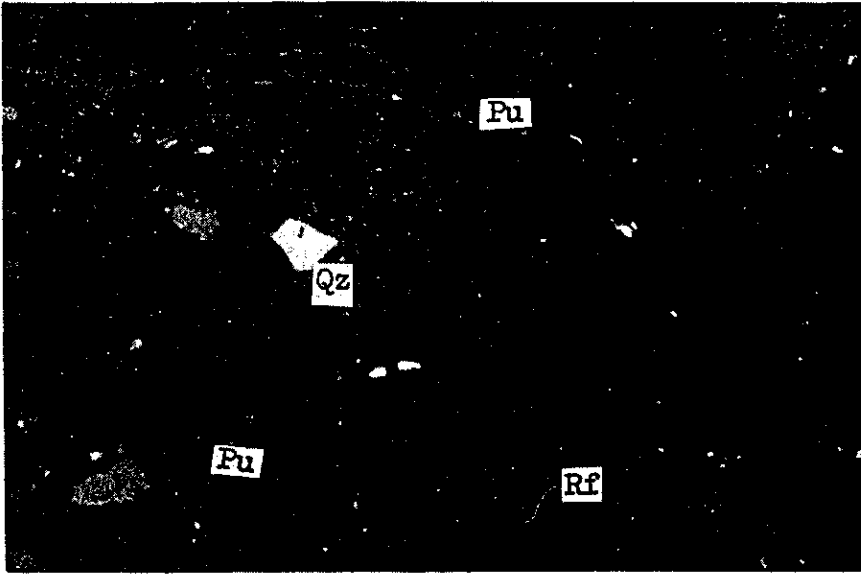


Tailing

qz : quartz

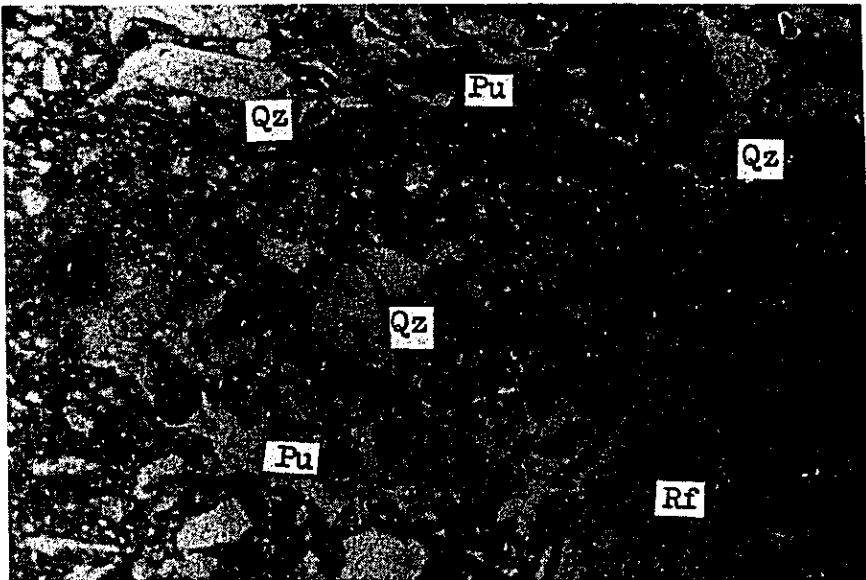
Py: pyrite

0 50 u



No. 33  
 Sample No. T-28  
 Rock Name:  
 Biotite rhyolite tuff

Open nicol



Crossed nicols

Pu : Vitric fragment  
 Qz : Quartz  
 Rf : Rock fragment

Scale 1 mm

**Crystal fragments :** Quartz crystals are generally small size (0.1 - 0.2 mm), abundant as corroded forms. Biotite is found out rarely as flake fragments (about 0.05 mm), all of them altered to sericite like mica minerals. Zircon is contained a small quantity as idiomorphic small grain (0.05 mm).

**Rock fragments :** Rounded small patches of fine grained tuffaceous sand stone are commonly found out.

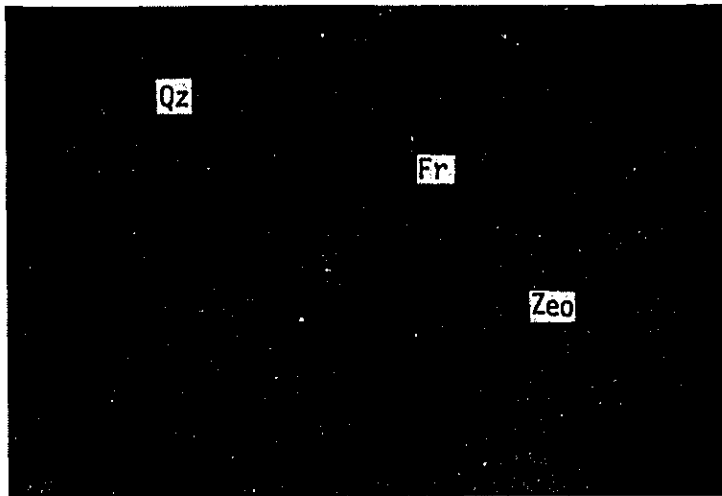
**Vitric fragments :** Pumiceous and obsidian glass patches are common, a part of them somewhat devitrified, and altered to zeolite minerals.

No. 34

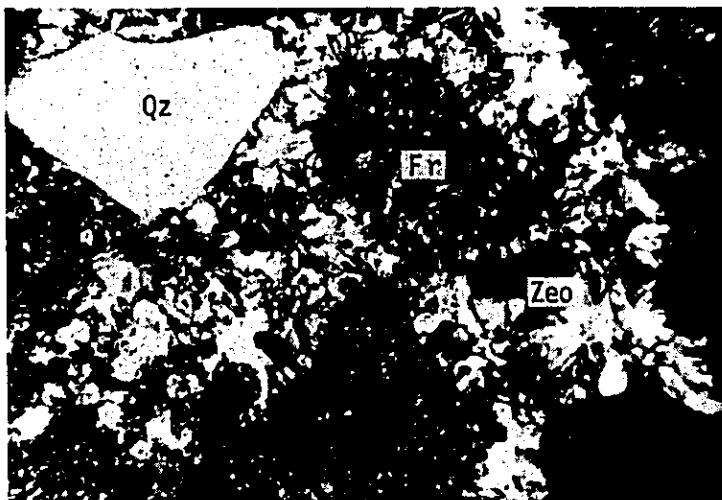
Sample No. T-35

Rock Name:

Altered Lapilli Tuff



Open nicol



Crossed nicols

Scale

0.5

1mm

Qz : Quartz

Fr : Fragment

Zeo: Zeolite

The rock is composed of fragmental quartz, silicified fragments of volcanic rock (pseudomorphs after plagioclase lath and quartz) and zeolitized matrix with subordinate amounts of ore and clay minerals.

Pseudomorphs of iron ore and chlorite(?) after idiomorphic outlines of hornblende(?) are observed in silicified fragments of lava.

Zeolitization and silicification are remarkable, thus exact petrography of original rock is impossible.

Photomicrography E. P. M. A. No. 1

Sample No. Copper Ore  
Location;

Accelerating Voltage ----- : 25KV  
Absorbed Electron Current : 0.22A  
Magnification ----- : X600

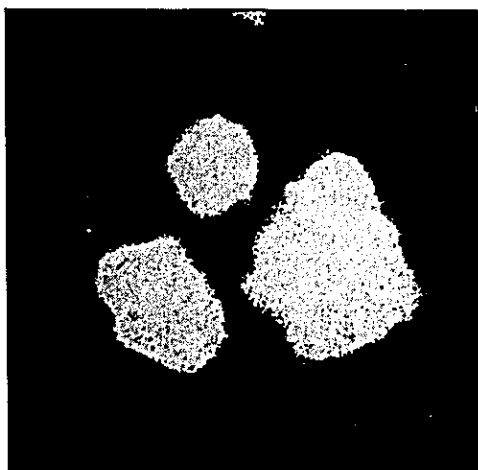
Scale  
0 50 100 u



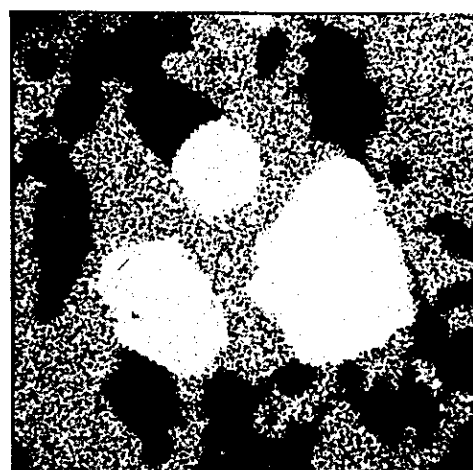
Absorbed Electron Image



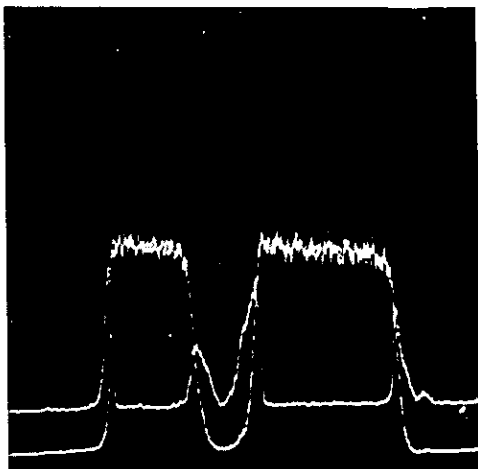
Cu X-Ray Image



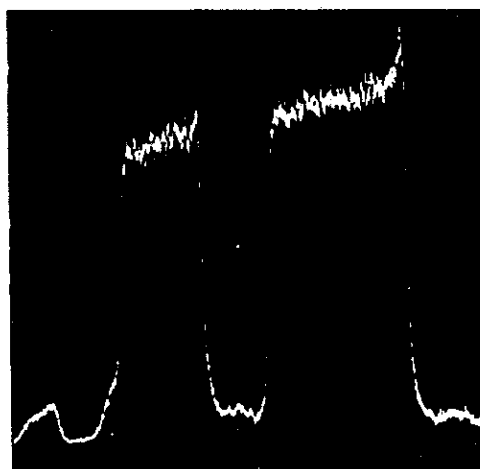
Fe X-Ray Image



S X-Ray Image



Line Analysis  
Fe  $10^4$  CPS  
Cu  $3 \times 10^3$  CPS

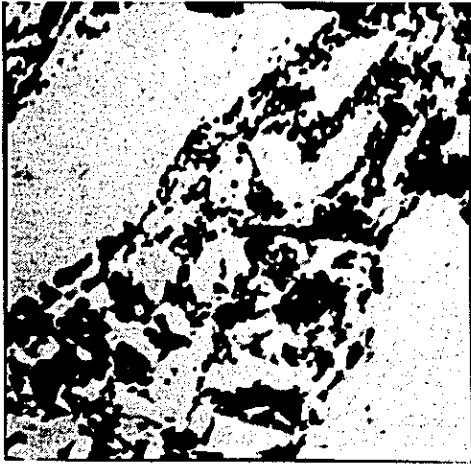


Line profile  
X  $10^4$  CPS

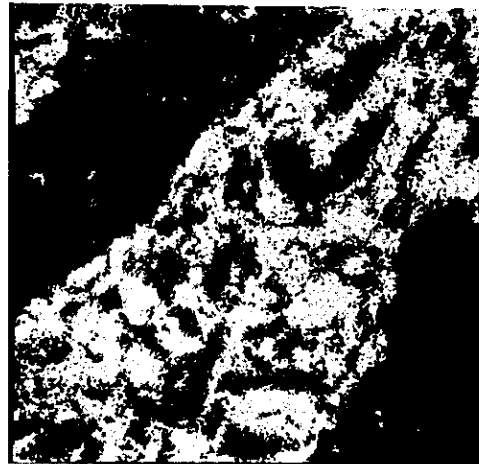
Photomicrography E. P. M. A. No. 2

Accelating Voltage ----- : 25KV  
Absorbed Electron Current : 0.22A  
Magnification ----- : X600

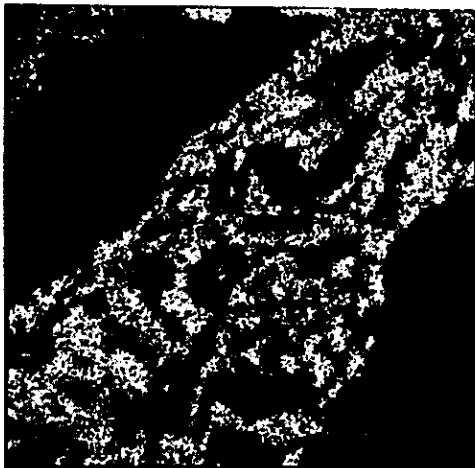
Sample No. Sabedaung No. 1-2  
Location;



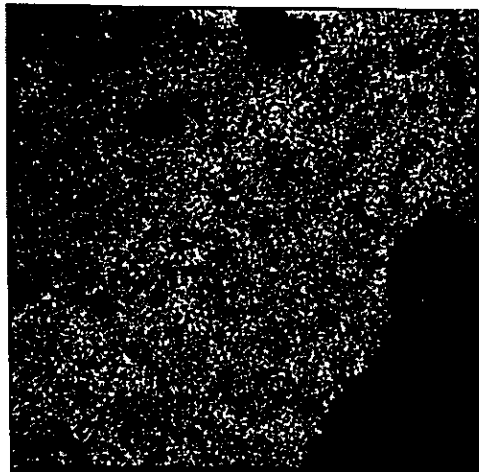
Absorbed Electron Image



Cu X-Ray Image



Fe X-Ray Image



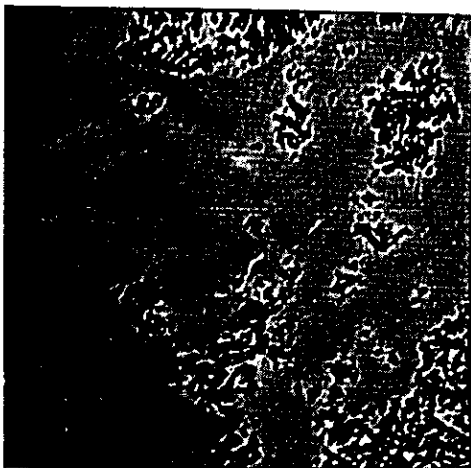
S X-Ray Image

Scale  
0 50 100 u

Photomicrograph E.P.M.A. No.3

Accelerating Voltage ----- : 25KV  
Absorbed Electron Current : 0.22A  
Magnification ----- : X600

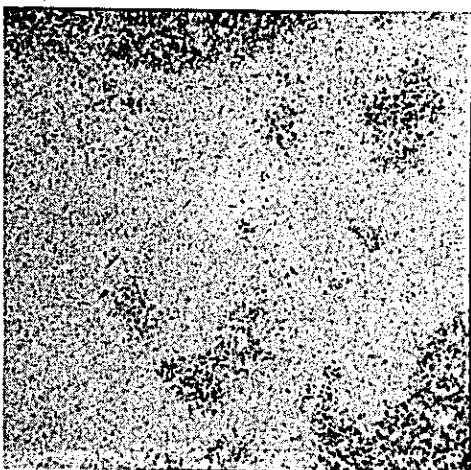
Sample No. Sabedaung No.2  
Location;



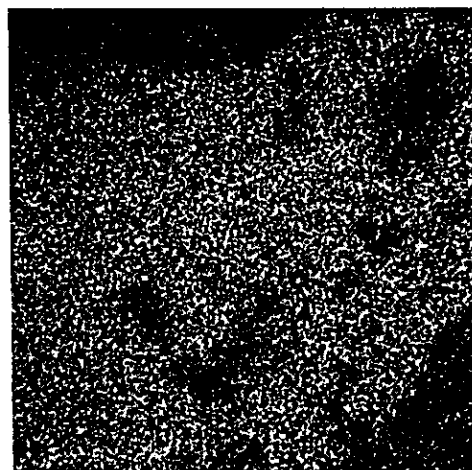
Absorbed Electron Image



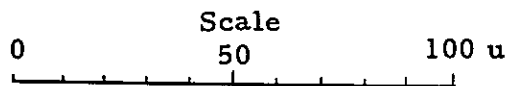
Cu X-Ray Image



Fe X-Ray Image



S X-Ray Image



Photomicrograph E. P. M. A. No. 4

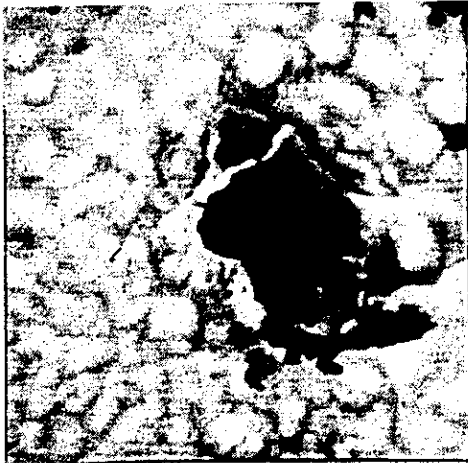
Sample No. Rougher Tailing

Location ; Sabedaung upper zone

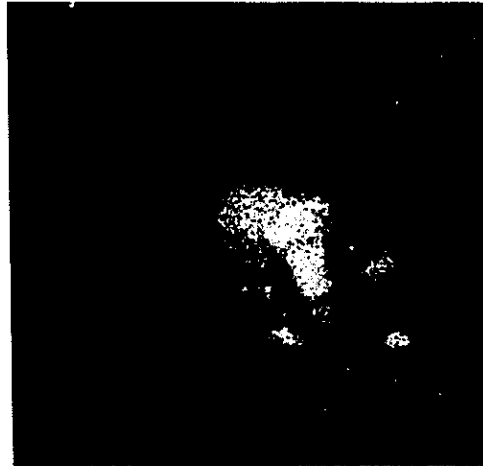
Accelating Voltage ----- :25KV

Absorbed Electron Current :0.22A

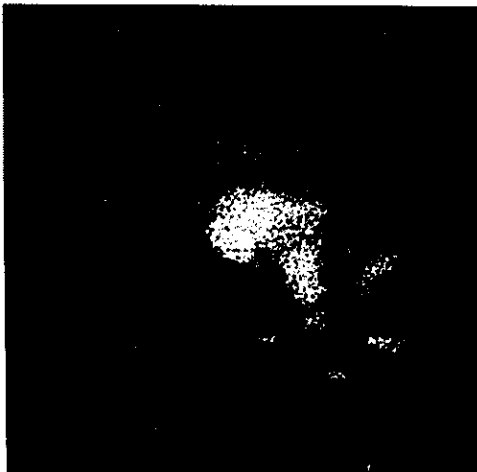
Magnification ----- :X1200



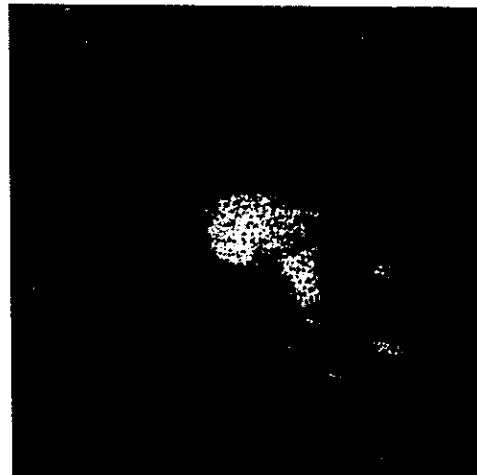
Absorbed Electron Image



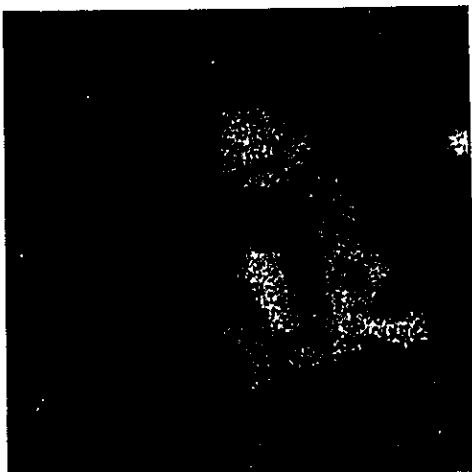
Cu X-Ray Image



Fe X-Ray Image



S X-Ray Image



Si X-Ray Image

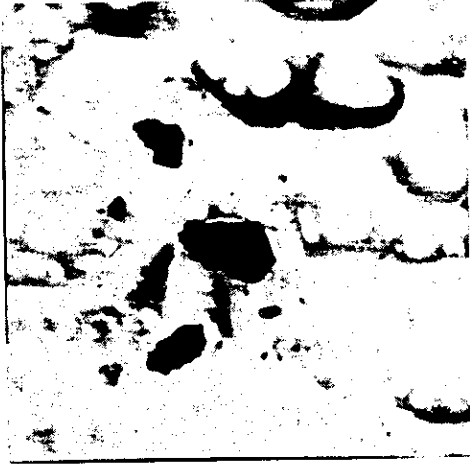
Scale

0 10 20 30 40 u

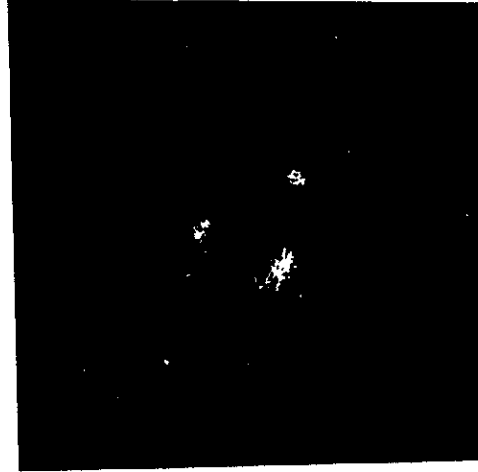
Photomicrography E. P. M. A. No. 5

Sample No. Tailing 2  
Location;

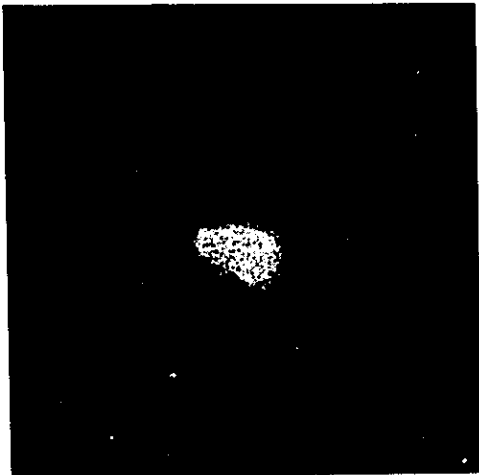
Accelerating Voltage ----- : 25KV  
Absorbed Electron Current : 0.22A  
Magnification ----- : X1200



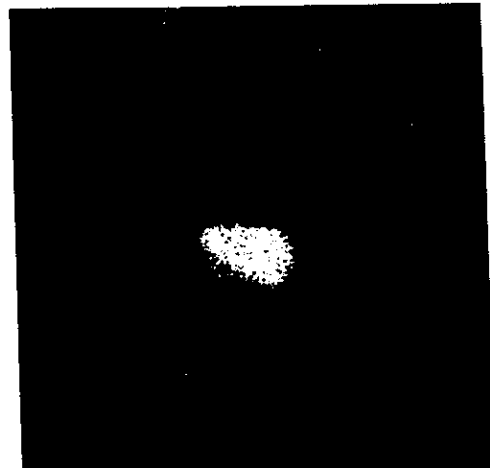
Absorbed Electron Image



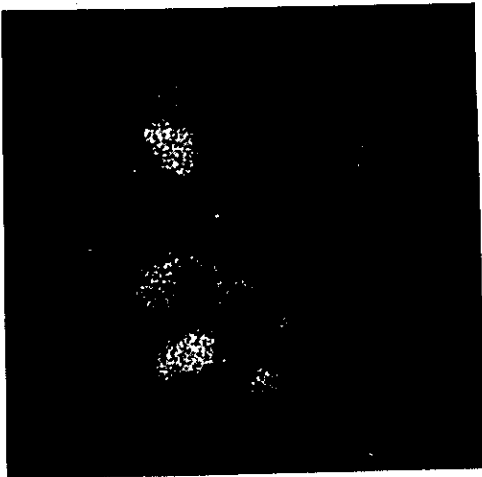
Cu X-Ray Image



Fe X-Ray Image



S X-Ray Image



Si X-Ray Image

Scale  
0 10 20 30 40 u



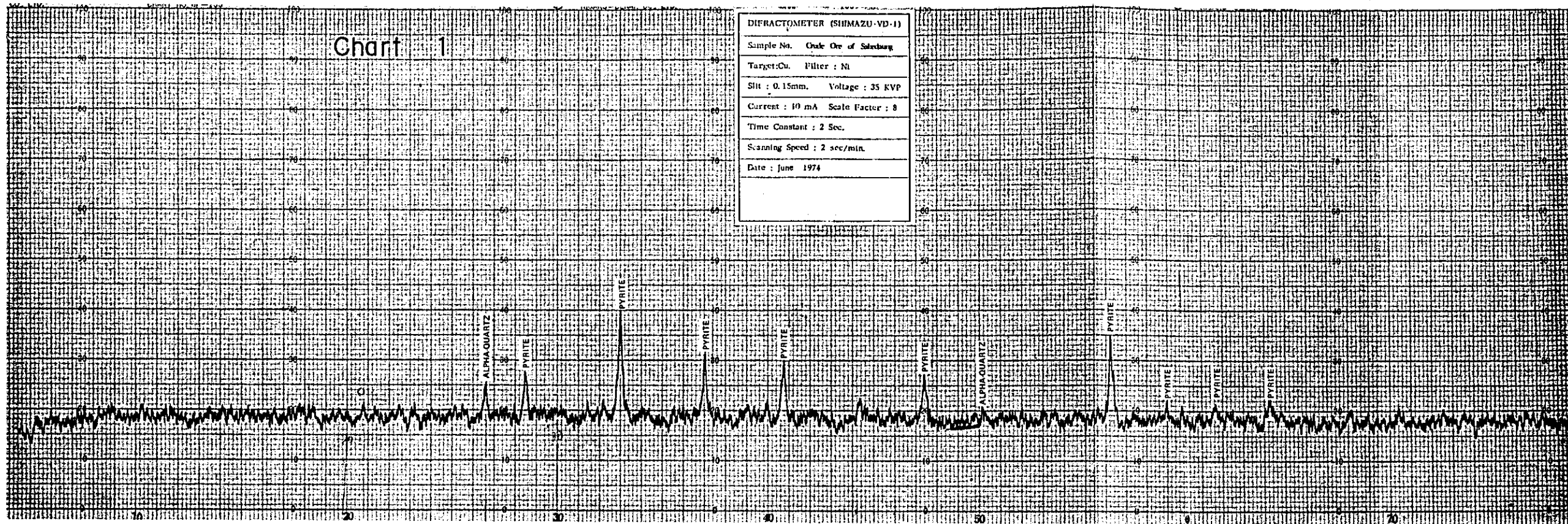
**Table I-9      Chart of X-ray Diffractive Analysis (Sheet 1~5)**

**List of X-ray Chart**

<b>Chart 1</b>	<b>Crude Ore of Sabedaung</b>
<b>Chart 2</b>	<b>Crude Ore of Sabedaung</b>
<b>Chart 3</b>	<b>Crude Ore of Sabedaung</b>
<b>Chart 4</b>	<b>Cu Concentrate 1</b>
<b>Chart 5</b>	<b>Cu Concentrate 2</b>

# Chart 1

DIFRACTOMETER (SHIMAZU-VD-1)	
Sample No.	Grade Ore of Salzburg
Target:Cu	Filter : Ni
Slit : 0.15mm.	Voltage : 35 KVP
Current : 10 mA	Scale Factor : 8
Time Constant : 2 Sec.	
Scanning Speed : 2 sec/min.	
Date : June 1974	



# Chart 2

DIFRACTOMETER (SHIMAZU-VD-1)	
Sample No.	Grade Ore of Salzburg
Target:Cu	Filter : Ni
Slit : 0.15mm.	Voltage : 35 KVP
Current : 10 mA	Scale Factor : 8
Time Constant : 2 Sec.	
Scanning Speed : 2 sec/min.	
Date : June 1974	

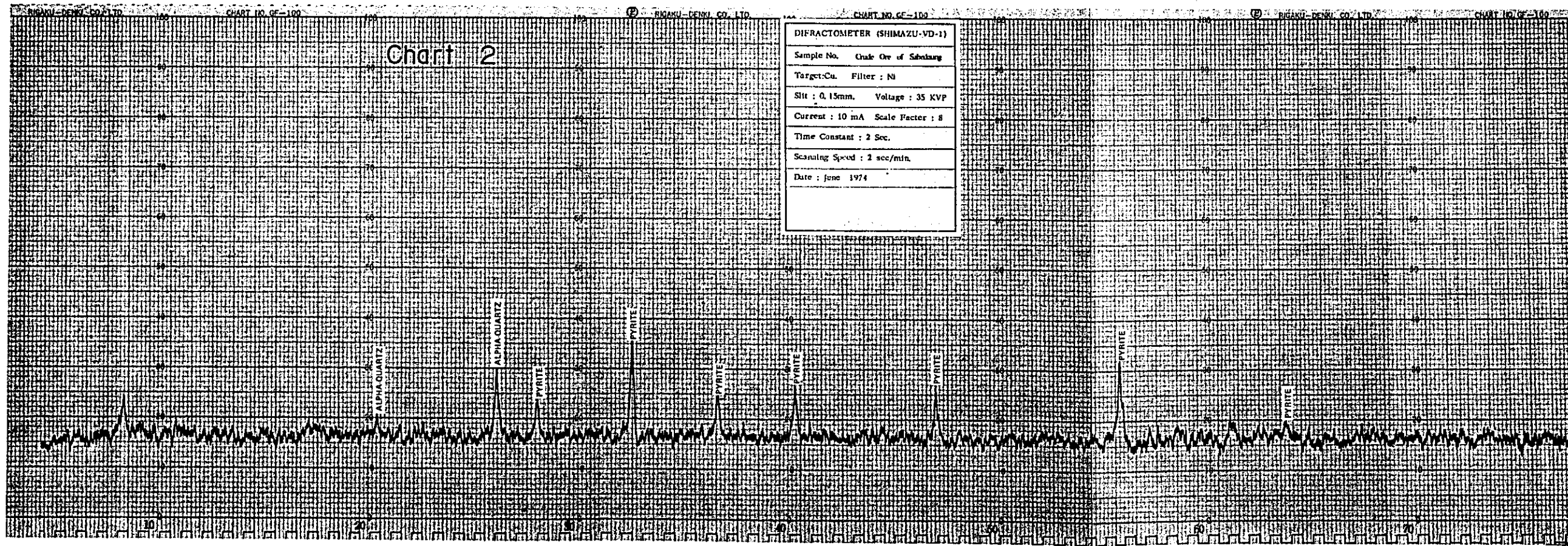


Chart 3

DIFRACTOMETER (SHIMAZU-VD-1)  
Sample No. Ore of Salsang  
Target Cu. Filter : Ni  
Slit : 0.15mm. Voltage : 35 KVP  
Current : 10 mA Scale Factor : 8  
Time Constant : 2 Sec.  
Scanning Speed : 2 sec/min.  
Date : June 1974

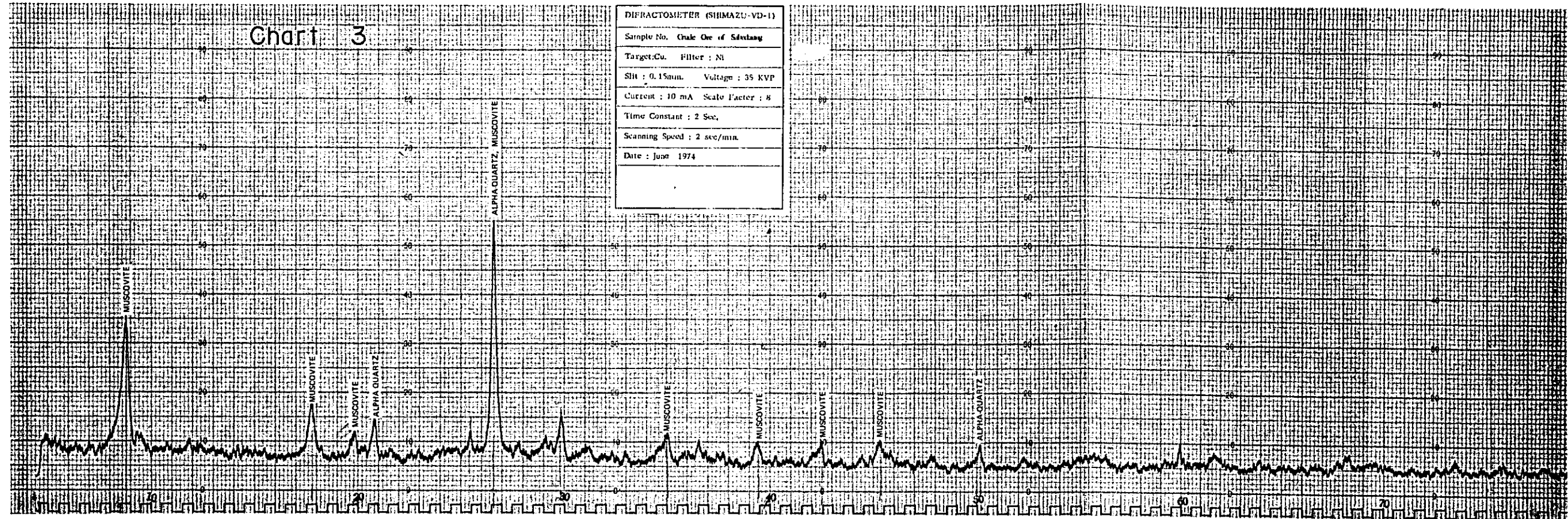


Chart 4

DIFRACTOMETER (SHIMAZU-VD-1)  
Sample No. Cu Concentrate 1  
Target Cu. Filter : Ni  
Slit : 0.15mm. Voltage : 35 KVP  
Current : 10 mA Scale Factor : 8  
Time Constant : 2 Sec.  
Scanning Speed : 2 sec/min.  
Date : June 1974

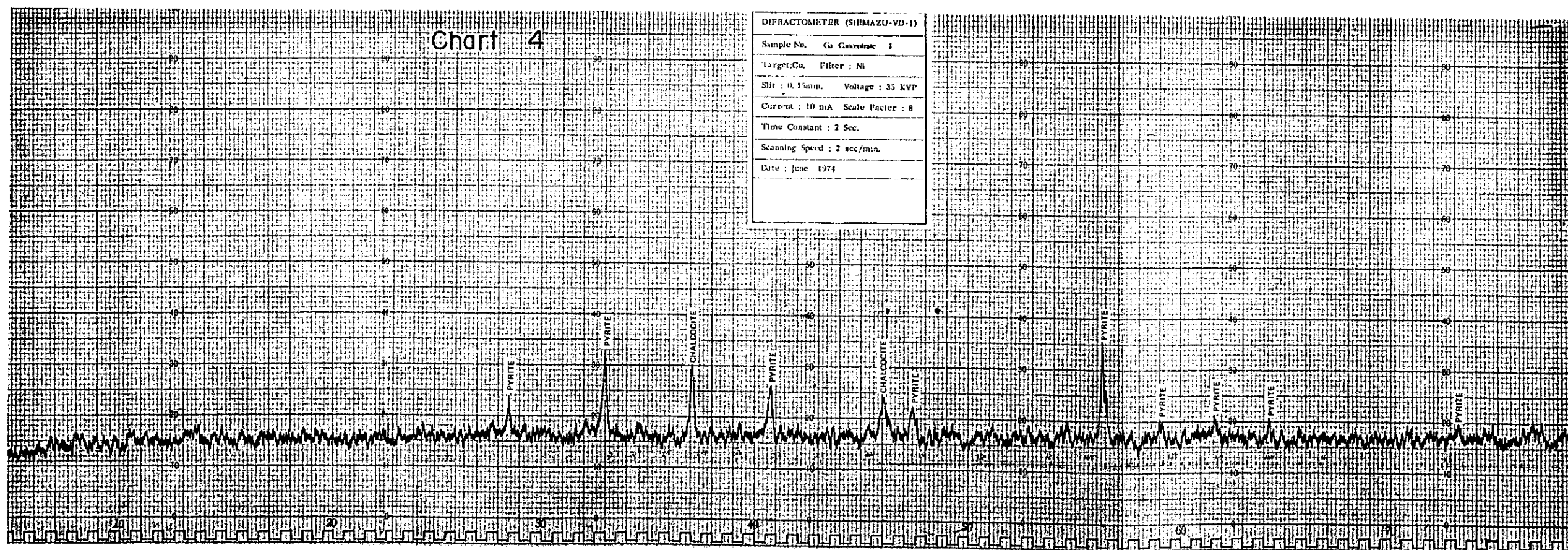


Chart 5

DIFFRACTOMETER (SHIMAZU-VD-1)	
Sample No.	01 Cassinette 2
Target/Cu.	Filter : Ni
Slit : 0.15mm.	Voltage : 35 KVP
Current : 10 mA	Scale Factor : 8
Time Constant : 2 Sec.	
Scanning Speed : 2 sec/min.	
Date : June 1974	

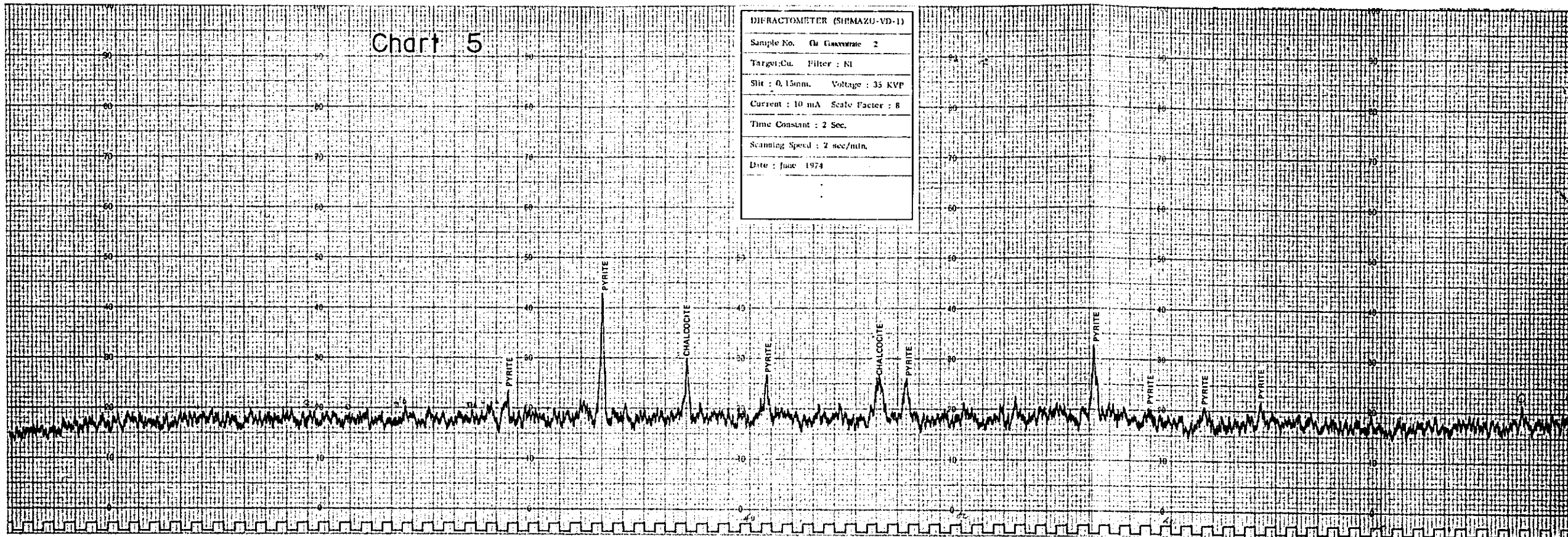


Figure 3-1 Table Showing Drilling Progress (DDHJS-1)

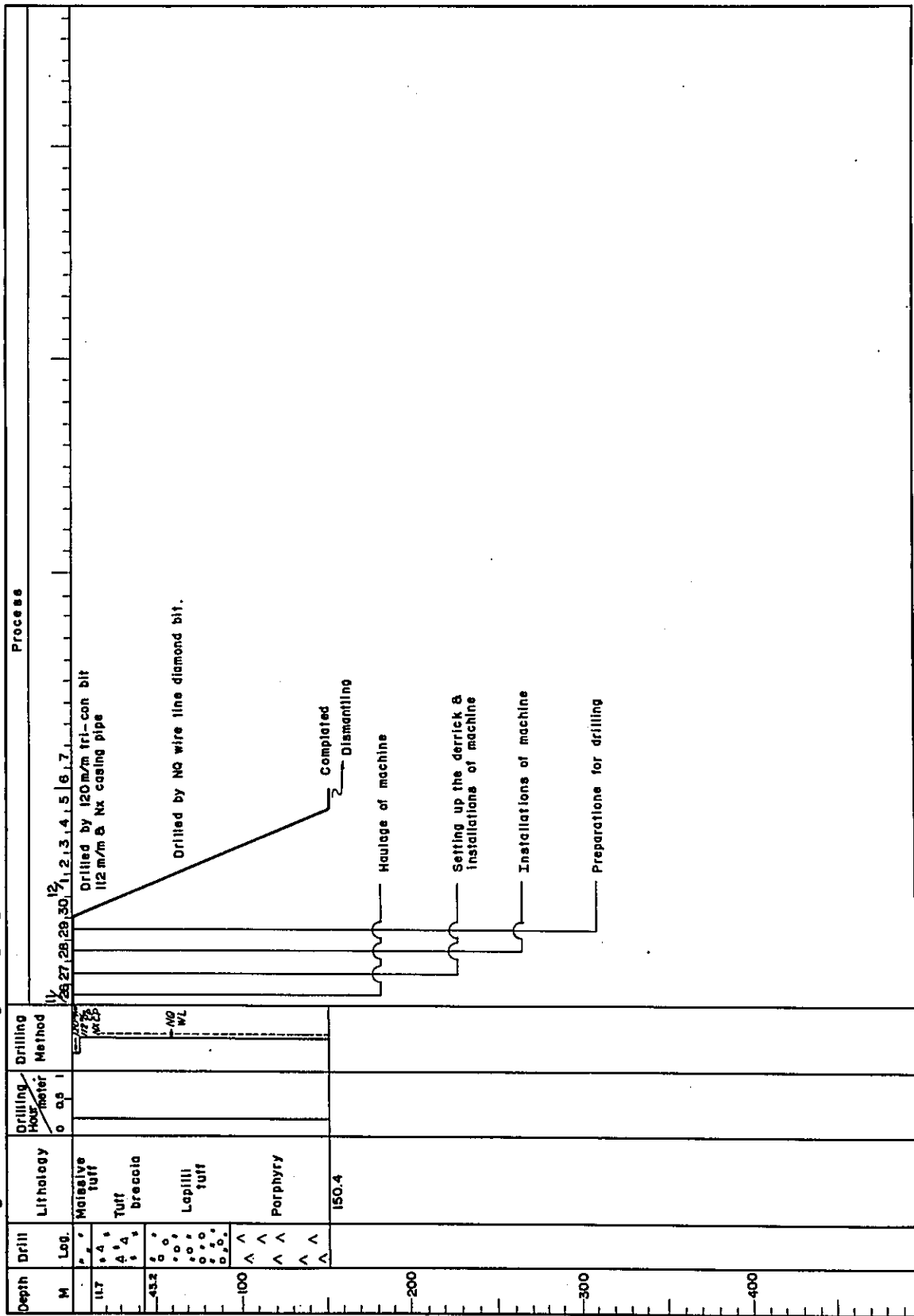


Figure 3-2 Table Showing Drilling Progress (DDHS-2)

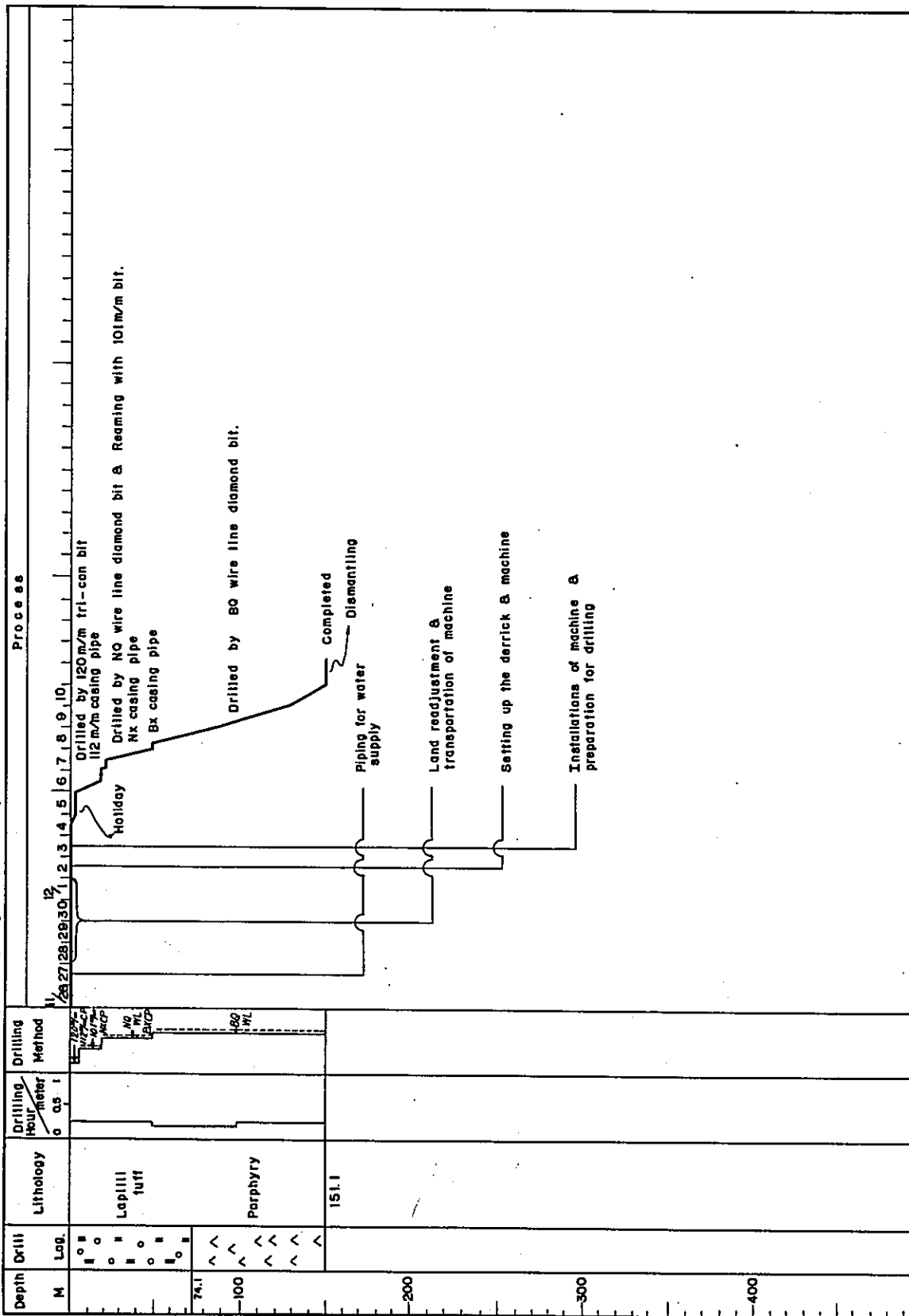


Figure 3-3 Table Showing Drilling Progress (DDHJS-3)

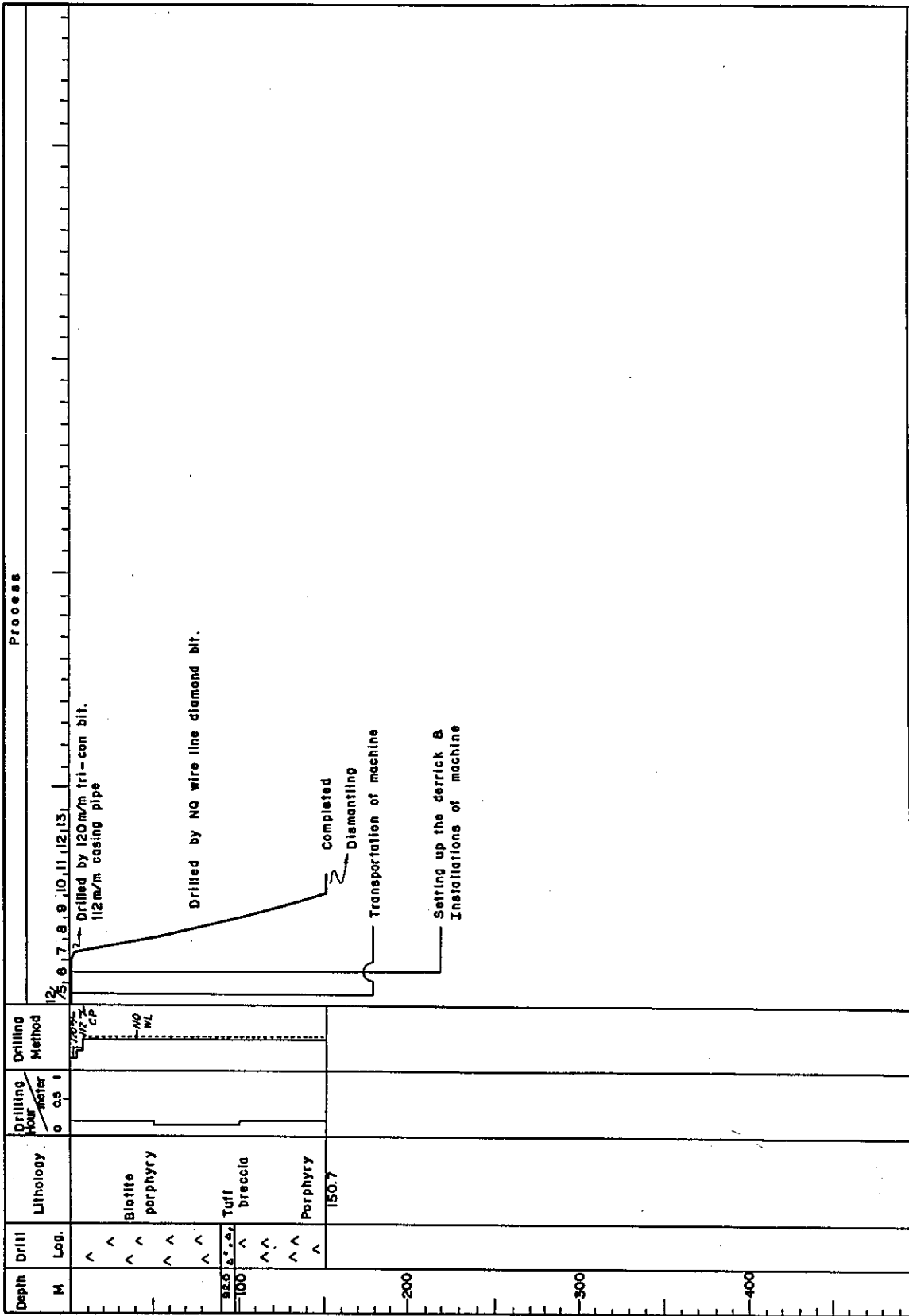


Figure 3-4 Table Showing Drilling Progress (DDHJS-4)

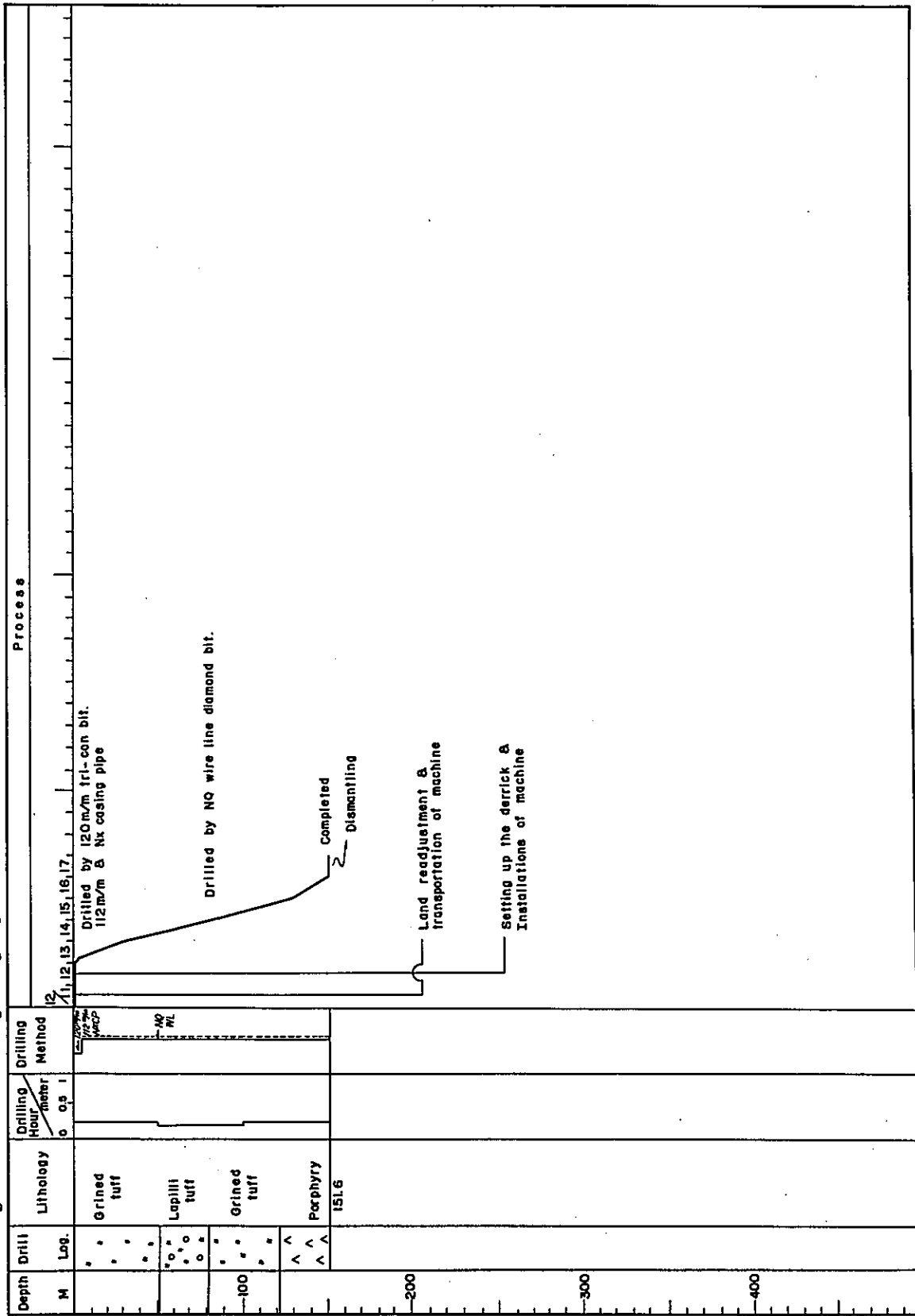




Figure 3-5 Table Showing Drilling Progress (DDHJS-5)

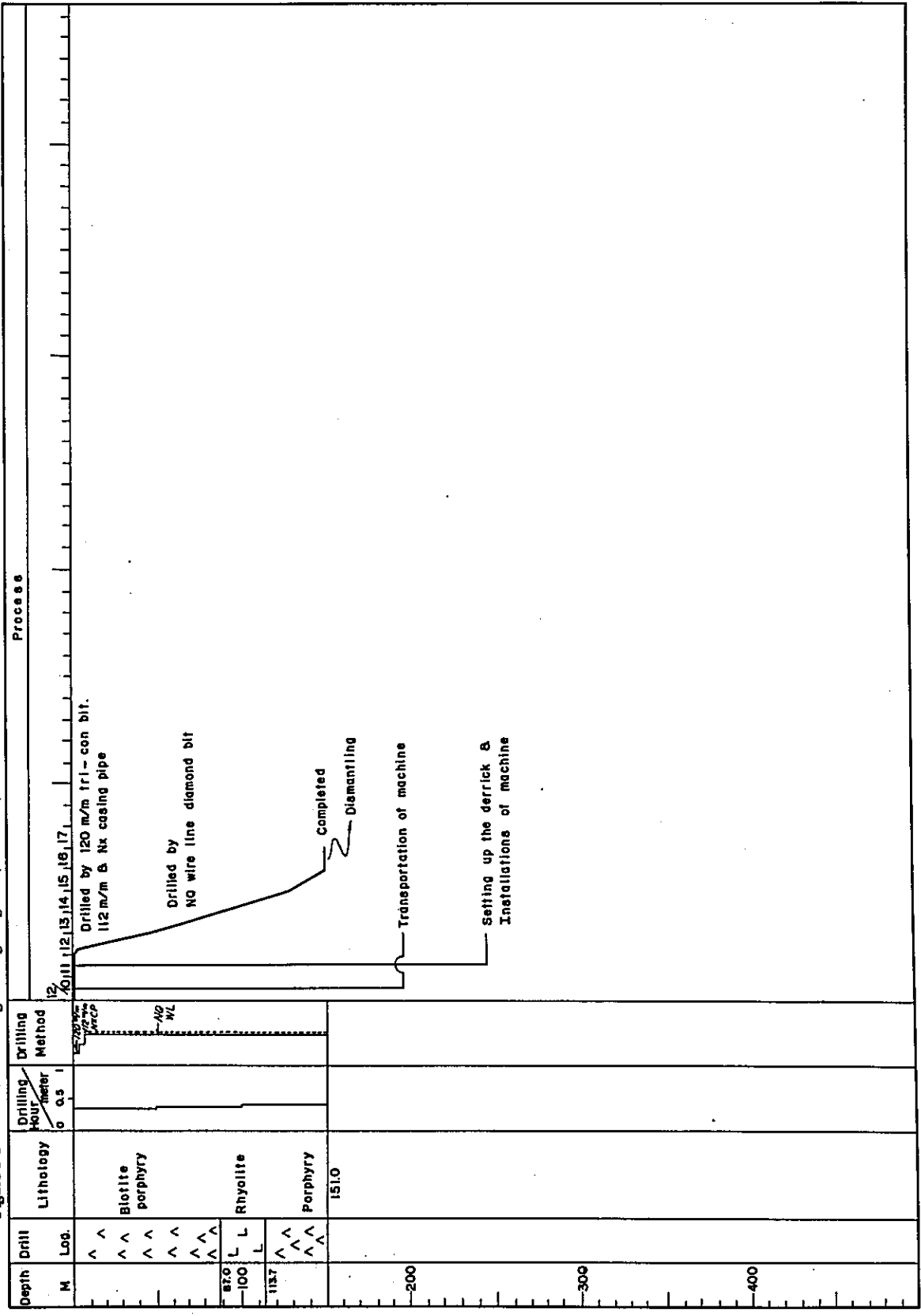


Figure 3-6 Table Showing Drilling Progress (DDHS-6)

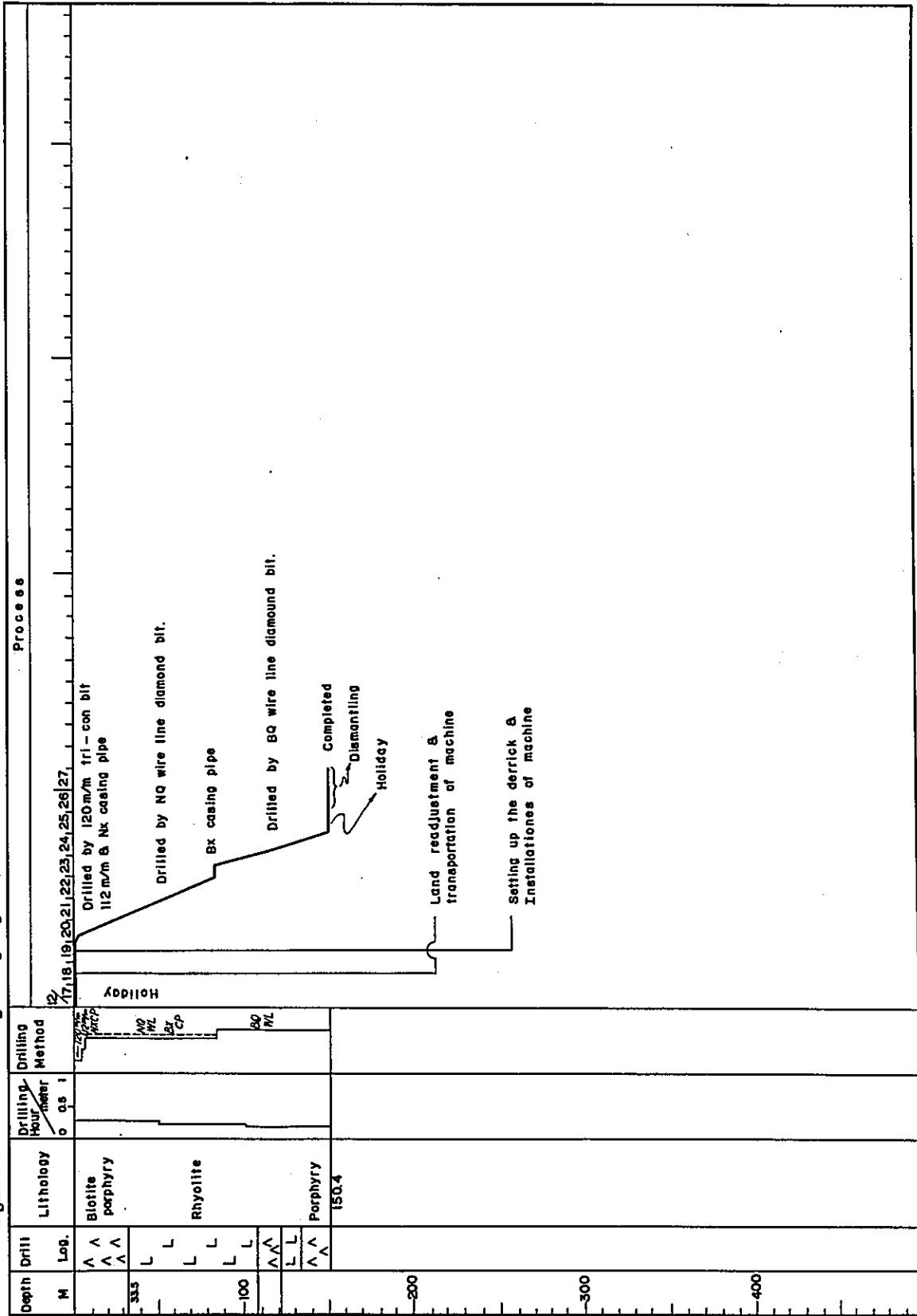


Figure 3-7 Table Showing Drilling Progress (DDHIS-7)

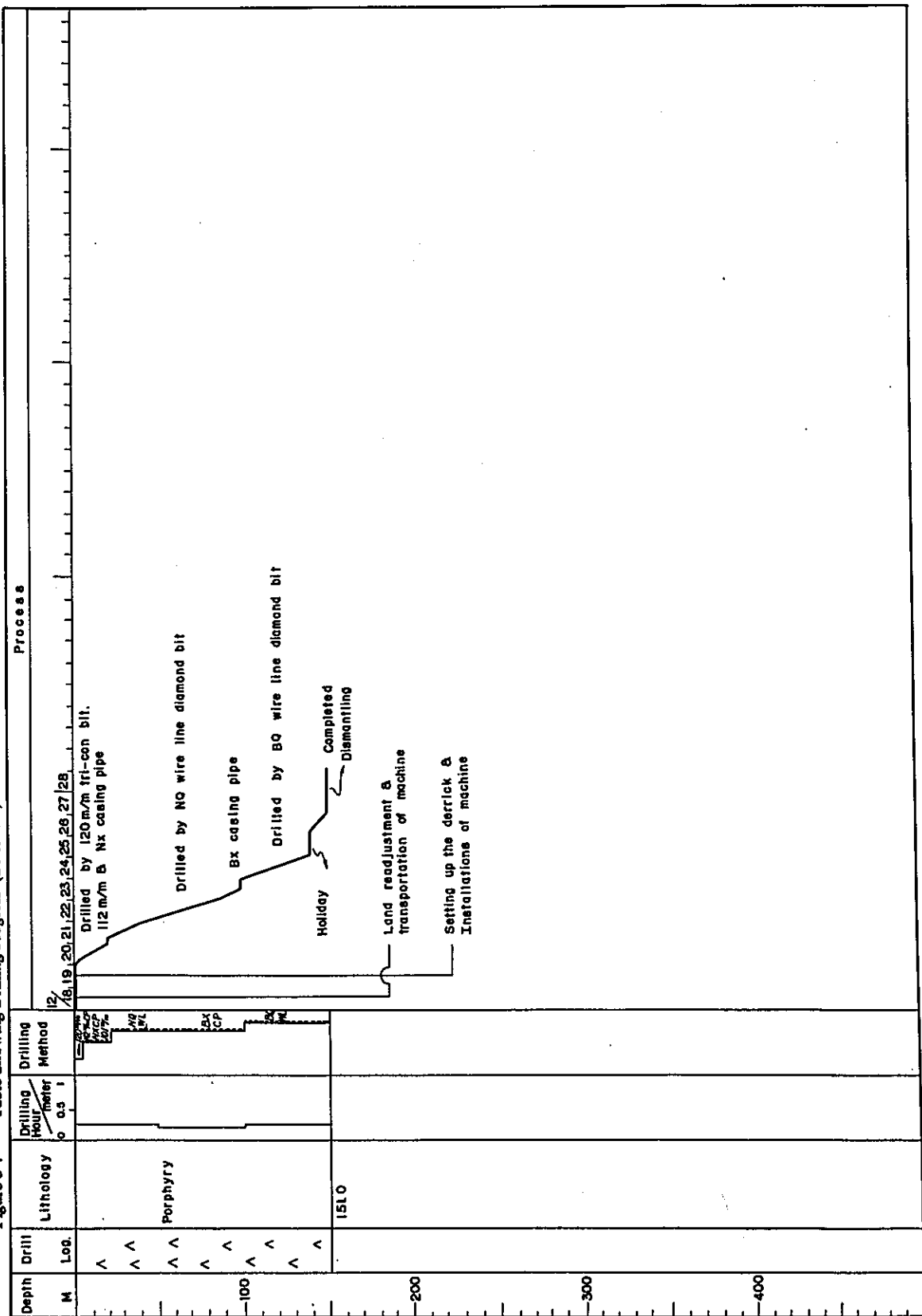


Figure 3-8 Table Showing Drilling Progress (DDHS-8)

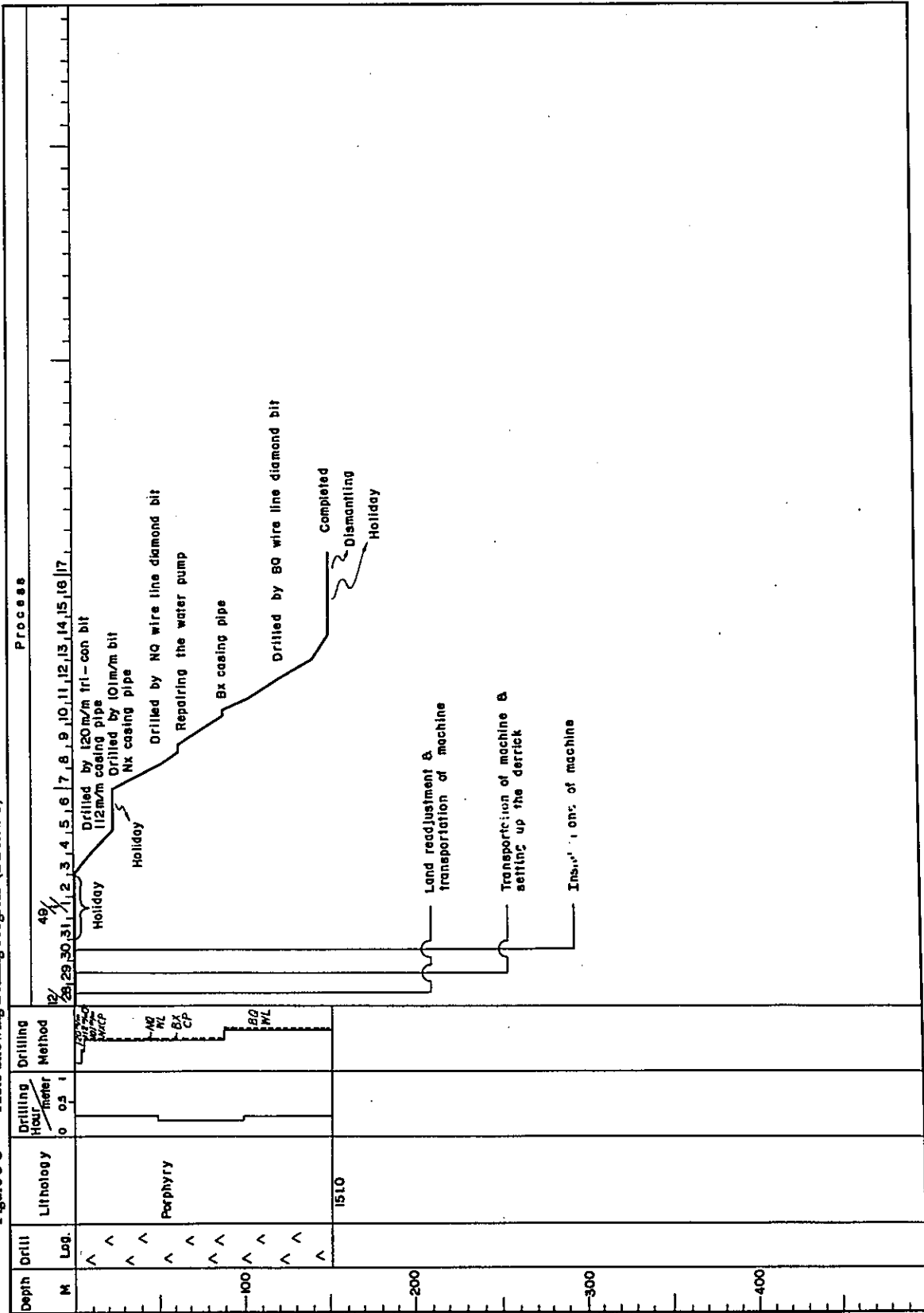




Figure 3-10 Table Showing Drilling Progress (DDHS-10)

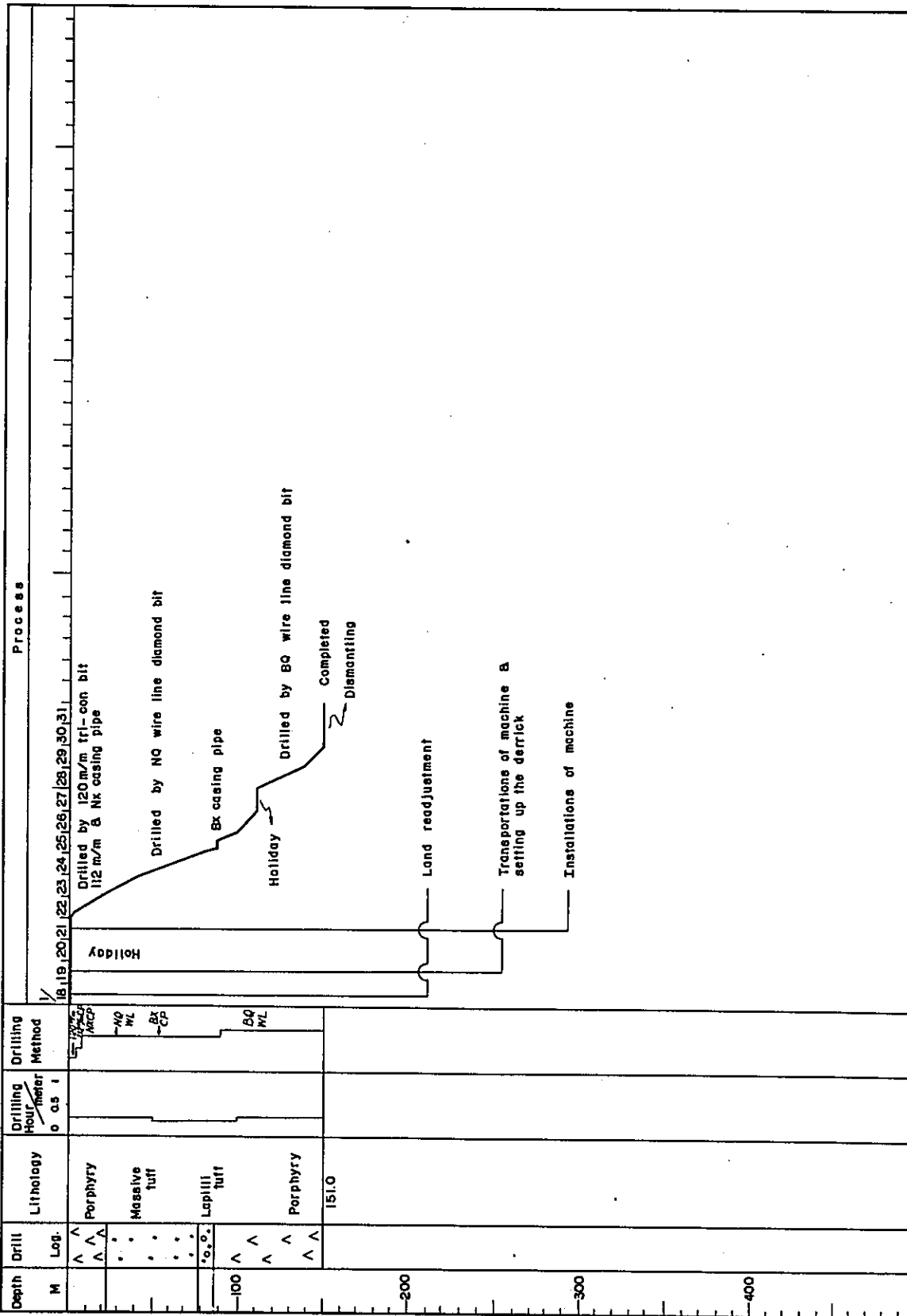


Figure 3-11 Table Showing Drilling Progress (DDHJS-11)

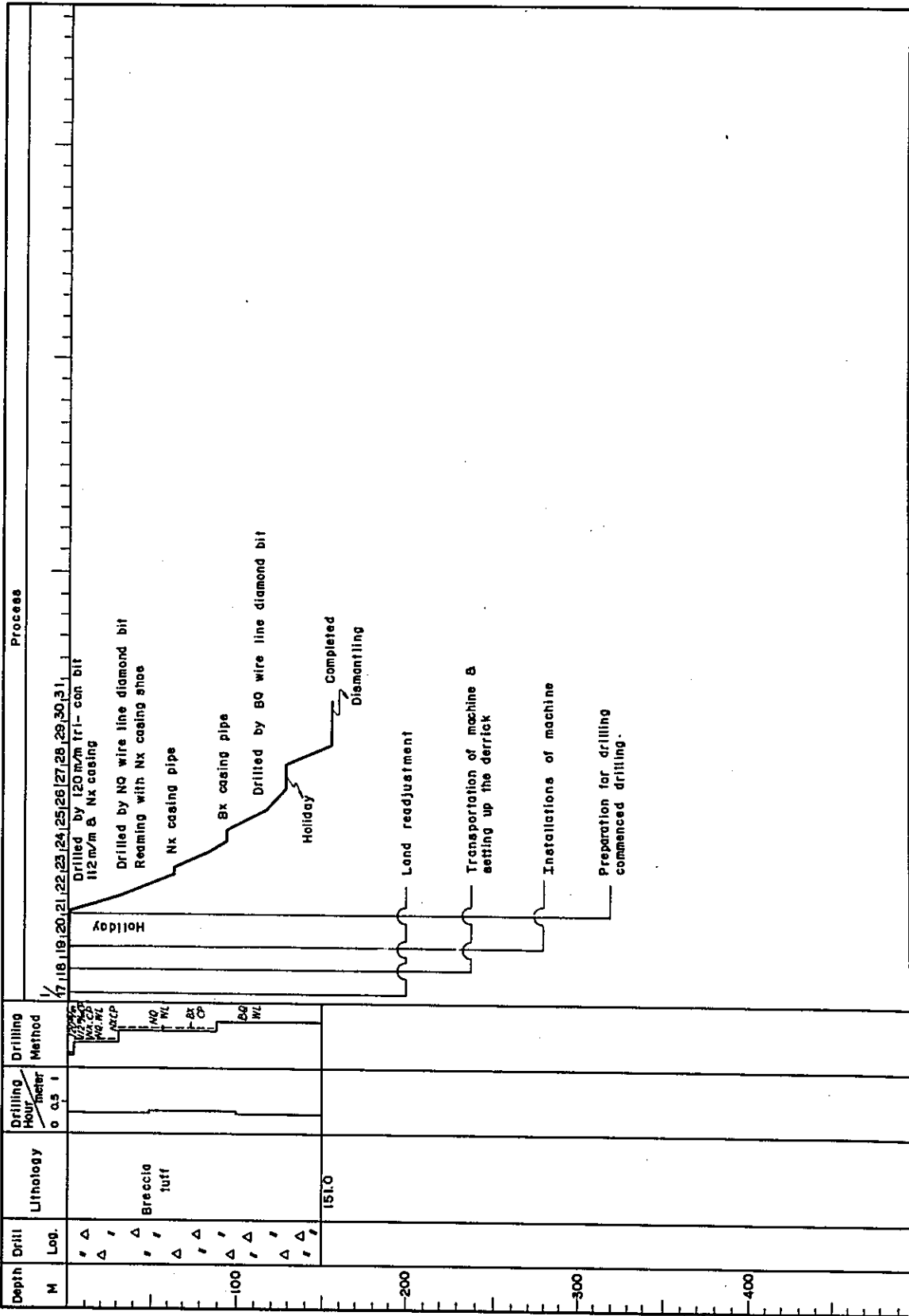


Figure 3-12 Table Showing Drilling Progress (DDHJS-12)

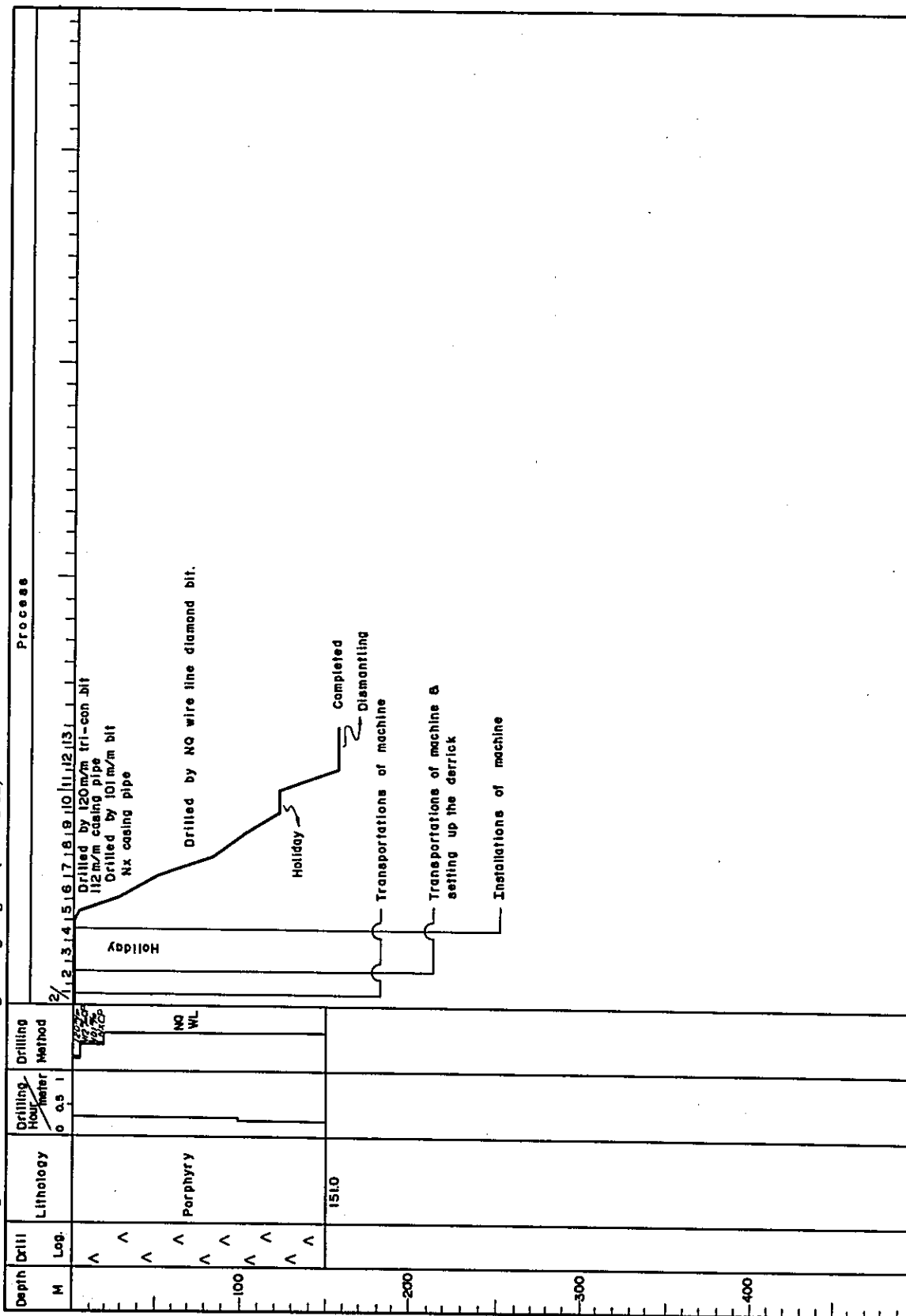




Figure 3-13 Table Showing Drilling Progress (DDHJK-1)

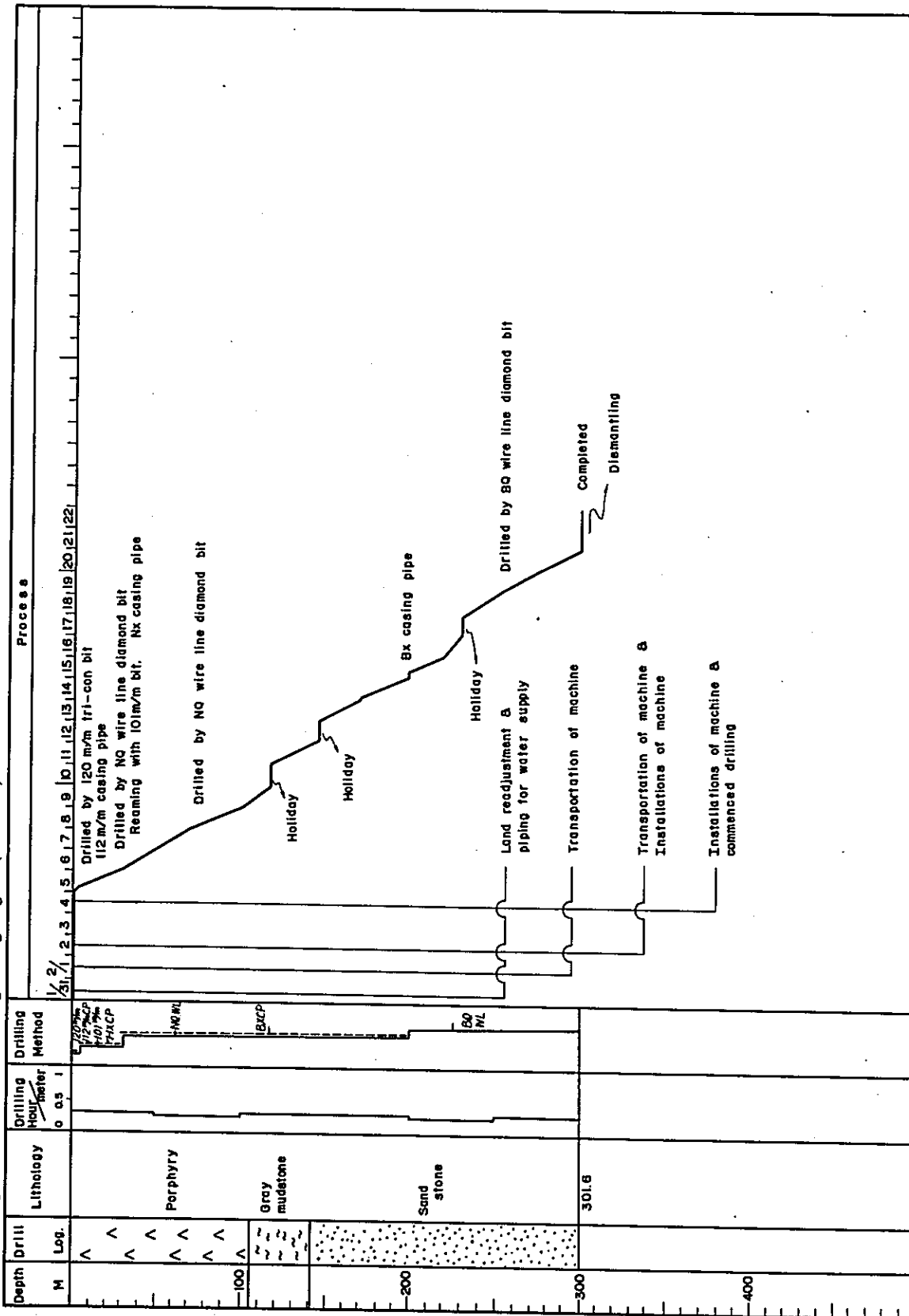


Figure 3-14 Table Showing Drilling Progress (DDHJK-2)

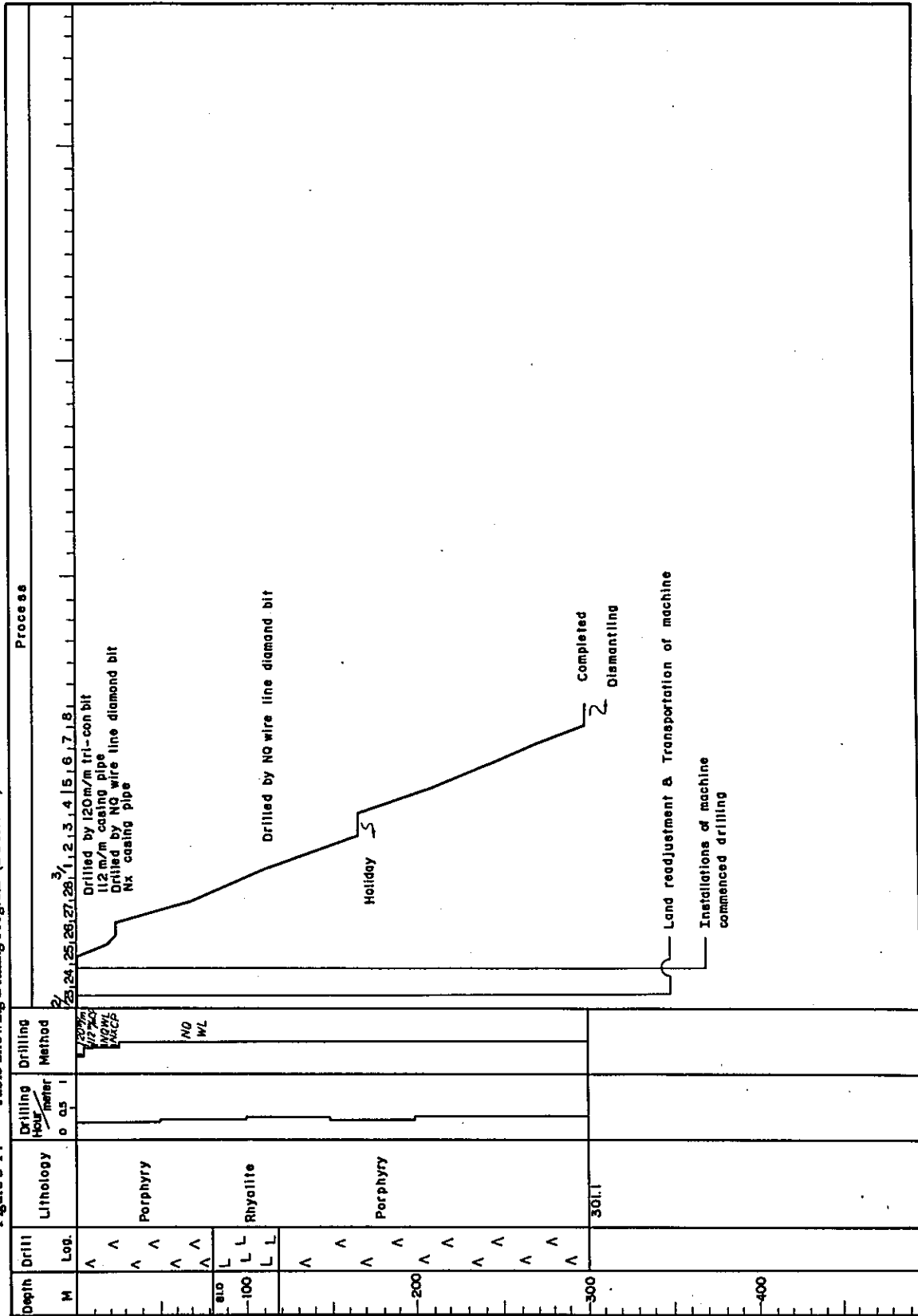


Figure 3-15 Table Showing Drilling Progress (DDHJK-3)

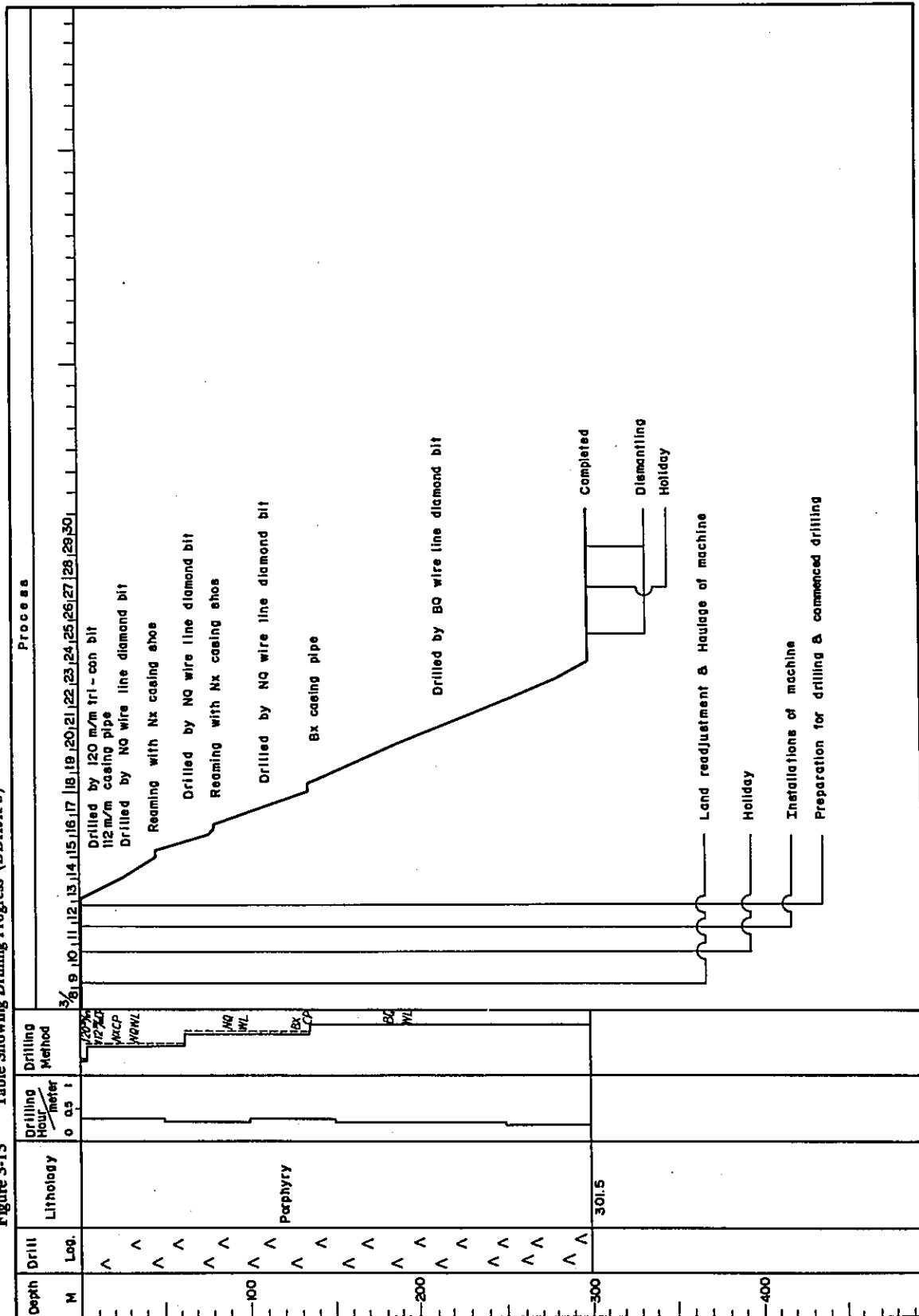


Figure 3-16 Table Showing Drilling Progress (DDHP-1)

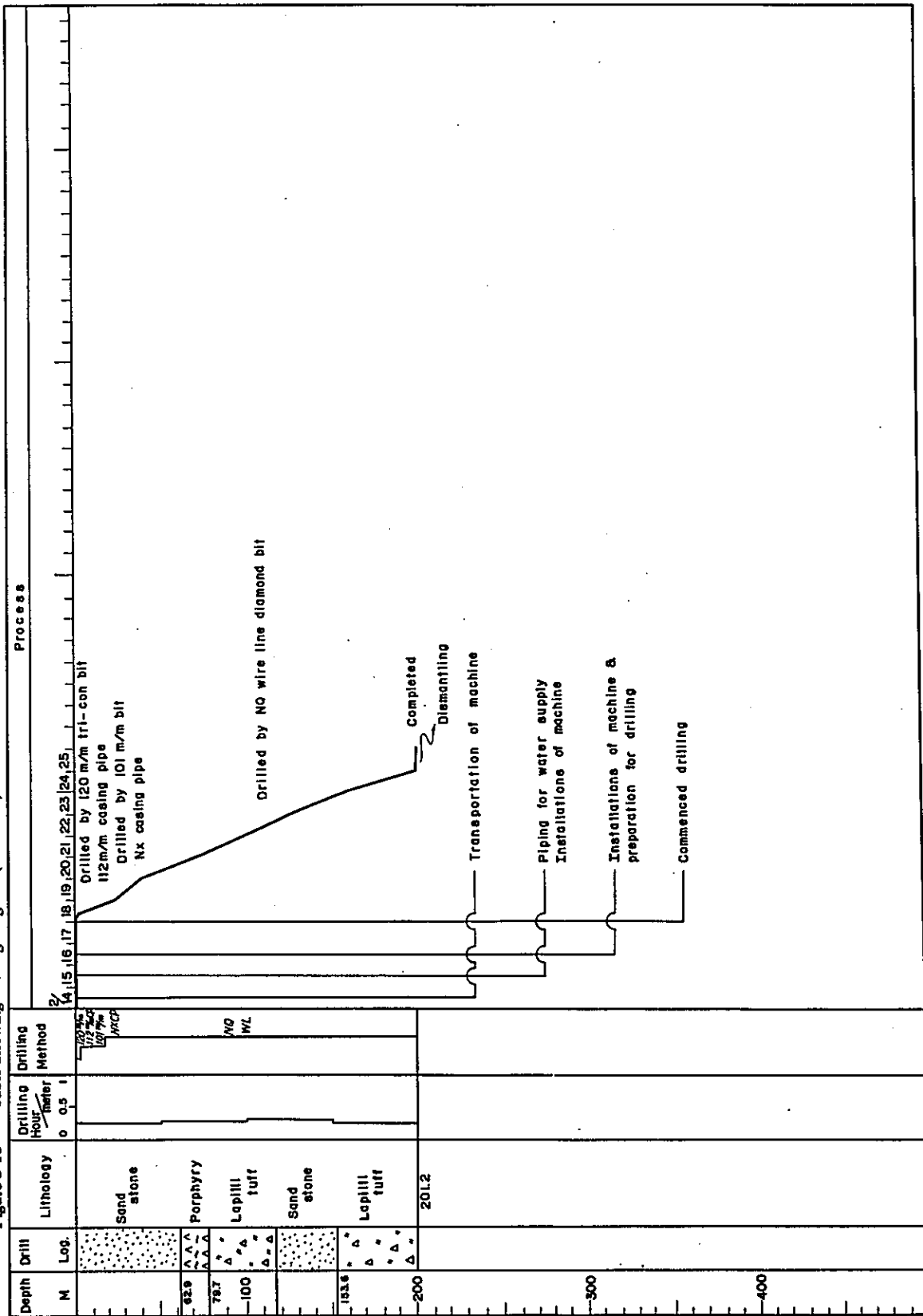


Figure 3-17 Table Showing Drilling Progress (DDHP-2)

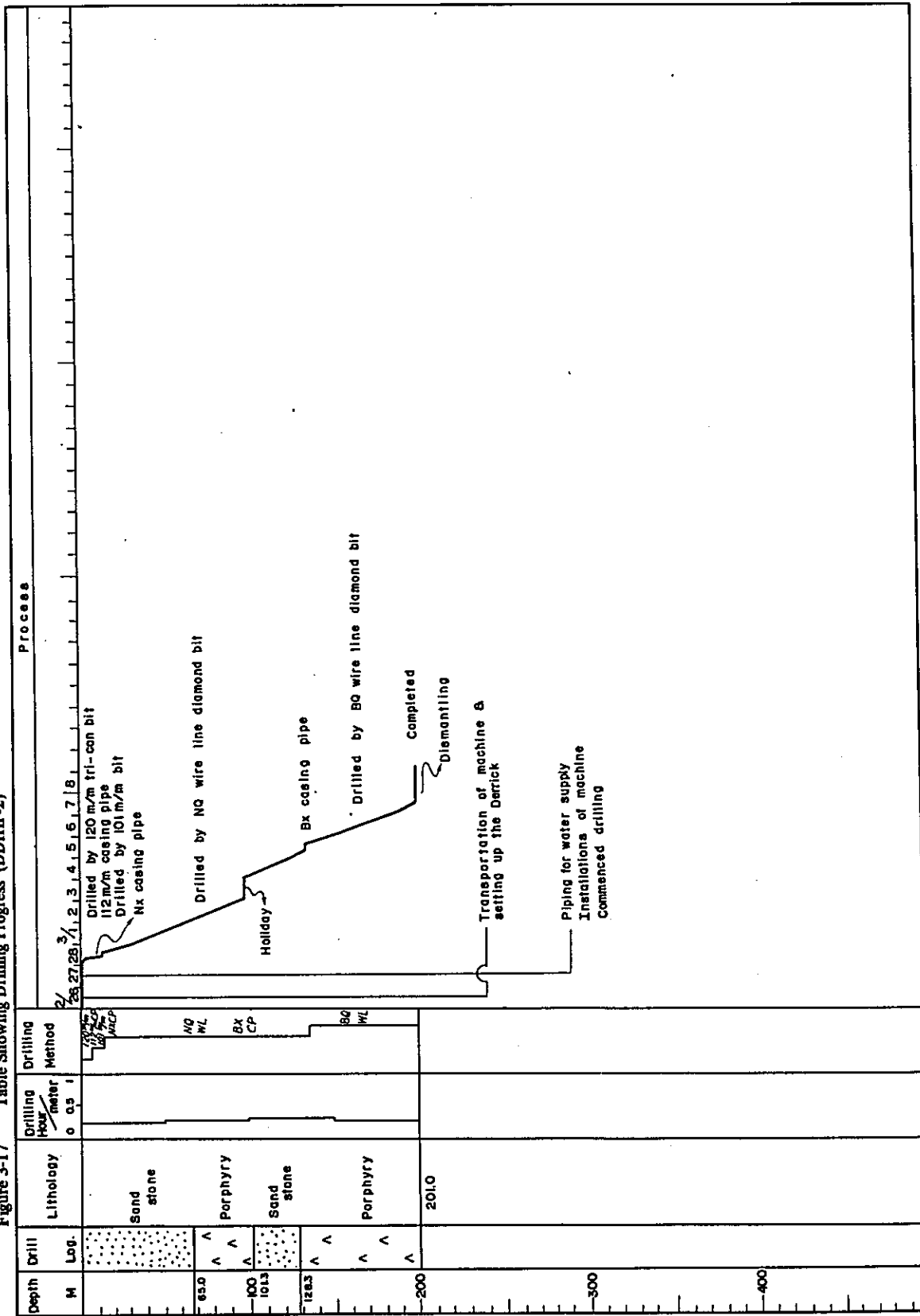


Figure 3-18 Table Showing Drilling Progress (DDHIP-3)

