Jones & Wagener
Consulting Civil Engineers
59 Bevan Road PO Box 1434 Rivonia 2128 South Africa
Tel: (011) 519-0200 Fax: (011) 803-1456 email: post@jaws.co.za

dot.PLOT MANUAL
DEMONSTRATION OF FORMAT
AND FORMAT CONTROL
Dutch 10 pt font recommended

HOLE No: TUT001
Sheet 1 of 3

JOB NUMBER: MANUAL

Scale 1:10

0.00

UNDERLINING:
An underline is obtained by placing a strophe (` or underline character) before the word concerned. It is toggled off by a space or punctuation mark.

1.00

FORMATTING:
All lines in a paragraph are automatically word-wrapped and right-justified except for the last. Empty lines are ignored. This scheme can be modified and disabled as follows:

2.00

THE FORMAT CONTROL CHARACTERS are:
` = character for underlining a word
~ = character for soil symbol parsing
\ = character to cause a line-break
^ = character to represent a hard space
{ = character to start indent
} = character to end indent.
$ = character to switch fonts (2002 ON)
# = character to start a second column (2002 ON)
To use any of the format control characters in text with the formatting function defeated, they should be preceded by the escape character (the double quotation mark).
The format control characters may be customised by editing the setup files STANDARD.SET or *.SET

3.00

MODIFYING THE NORMAL FORMAT:

A LINE BREAK can be forced at any point by using a single backslash character (\ or linebreak character).
BLANK LINES can be created using linebreaks.
THE HARDSPACE ^ can be used between sets of words so that the set "sticks together".
INDENTATION is easily achieved
by using pairs of curly brackets { } to indent to any level permitted by the available line length, which is dependent on the current margins and indent module.
The indent module default is 4 chars but this can be set in the stream file and in setup files.

4.00

NEW CONTROL CODES IN VERSION 2002.

TO SWITCH FONTS the dollar sign is placed just ahead of the spot where the new font is to start. If a soil type is affected then the dollar sign should be **ahead of the underline or tilde character** else the soil type will not be recognised. A second dollar sign will toggle the font back again. The font filenames and control codes must be consistent in the setup file and accessible to dot.PLOT. Soft font files must have been downloaded to the printer earlier. With some printers it may be necessary to remove the font cartridge if the COURIER font is to be used with the test examples.

TWO COLUMNS in the descriptions and notes can be called by placing a single hash character at the spot where the text is to jump into the second column. Using **two** hash characters in place of one of the singles will cause **every** description and note to be split into two columns, whether or not text is assigned to the second column, whereas one hash will cause only that particular note or description to have two columns.

5.00

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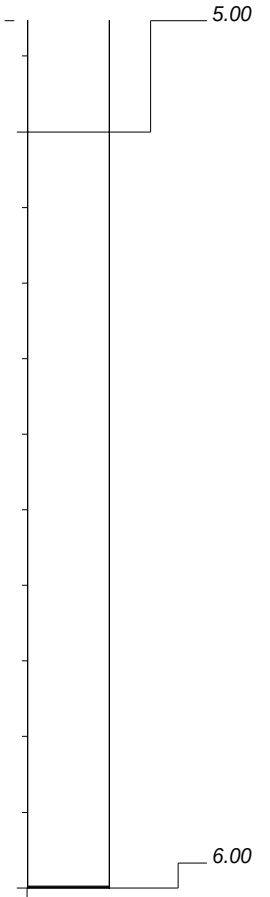

FORMAT DISABLE: It is sometimes useful to toggle off "word-wrap-and-justify". This can be done using a single hardspace character ^ on a line by itself

```
  to      indicate   that   the
  block     of       text   which
  follows   is       to     be used
  verbatim, exactly as it appears on screen
```

The next hardspace on a line by itself will ENABLE the normal "wrap-and-justify" default. Lines containing only a toggle character will not be printed.

This device allows simple tables of data to be easily written. Note that the position of the caret in relation to the block is significant as it determines the position on the page.

```
-----------------------------------
  date   time   read   write
-----------------------------------
  1.2    2.3    3.4    4.5
  5.6   10.1   14.2   15.6
  1.2    2.3    3.4    4.5
-----------------------------------
```

NOTES

1) Sequential numbering of notes is automatic.

2) The formatting rules will work in the notes as well as in the main body of the descriptions.

```
_____.
THE FORMAT CAN BE EASILY DISABLED
 to     indicate   that   the
 block  of {{{{}}  text   which
 follows is \\\\\\  'not   to
be     word-      wrapped or...
```

3) Note the underline: with format disabled, all spaces in a block automatically become hardspaces and the normal end-of-word space is lost. Therefore underlining will run to end-of-line or the next punctuation mark.

Also, with **proportional fonts** the hardspaces are not equivalent to a fixed pitch character and thus FORMAT-DISABLE cannot be fully supported.

4) PLEASE NOTE: The text file EXAMPLES.TXT is the source for this printed page. The reader should refer to that file to see how the control characters are employed there to obtain this formatted output.

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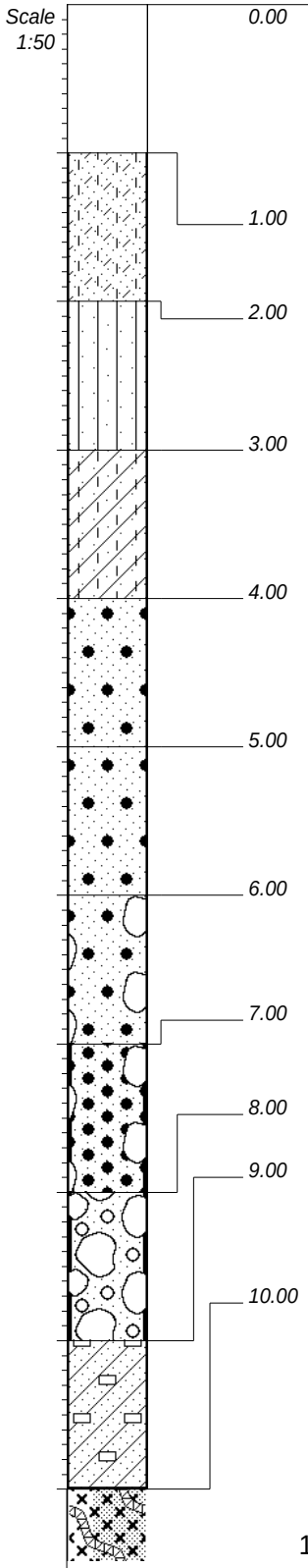
dot.PLOT MANUAL
DEMONSTRATING HOW SYMBOLS
ARE CALLED UP & DETECTED
DUTCH 10pt ROMAN+ITALICS RECOMMENDED.

HOLE No: TUT002
Sheet 1 of 1

ENQUIRY NUMBER: MANUAL



OBJECTIVE: The objective of the program is to interpret the stream of words in the text file as though they were from a tape recording, to select correct symbols for the soil and rock types with the minimum of editing and manipulation by the user.
To achieve this a number of methods have evolved by which the soil symbols can be called up or be detected by the program:

USING UNDERLINED KEYWORDS: A description may read silty/clayey SAND. (Case insensitive)

USING NON-UNDERLINED KEYWORDS: The TILDE ~ may be used to call sandy **SILT** and no underline appears. Font switches must be ahead of the tilde.

USING THE KEYWORD IN SQUARE BRACKETS: Words in square brackets are checked against the vocabulary and will give a symbol to match.

USING THE CODE NUMBERS IN BRACKETS: (In this case SA04 and SA24) Similar to using a keyword.

USING THE PREVIOUS DESCRIPTION: With TILDES As above will repeat the previous symbol.

MODIFIED: As above but with SCATTERED BOULDERS added.

MODIFIED FURTHER: The same as above, in a DENSE FERRICRETE matrix.

EMBELLISHED KEYWORDS: A layer of BOULDERS.

USERS OWN: although a description might even underline DENSE FERRICRETE any symbol can be forced and the interpreter can be disabled by placing an asterisk in square brackets.

THE BOTTOM OF HOLE symbol is invoked by placing a plus sign in the last layer depth word. Thus the hole might stop on DOLERITE with QUARTZ VEINS at a depth of 10m.

NOTES

1) The text file EXAMPLES.TXT is the source for this printed page. The reader should refer to that file to see how the words of the text are arranged there to obtain these symbols.

CONTRACTOR :
MACHINE : BOYLES BBS 17
DRILLED BY :
PROFILED BY : JKL

TYPE SET BY : R Raubenheimer
SETUP FILE : STANDARD.SET

INCLINATION :
DIAM :
DATE : 25/09 - 29/10/88
DATE :

DATE : 06/11/03 17:10
TEXT : ..C:\XDOTPLOT\EXAMPLES.TXT

ELEVATION :
X-COORD :
Y-COORD :

HOLE No: TUT002

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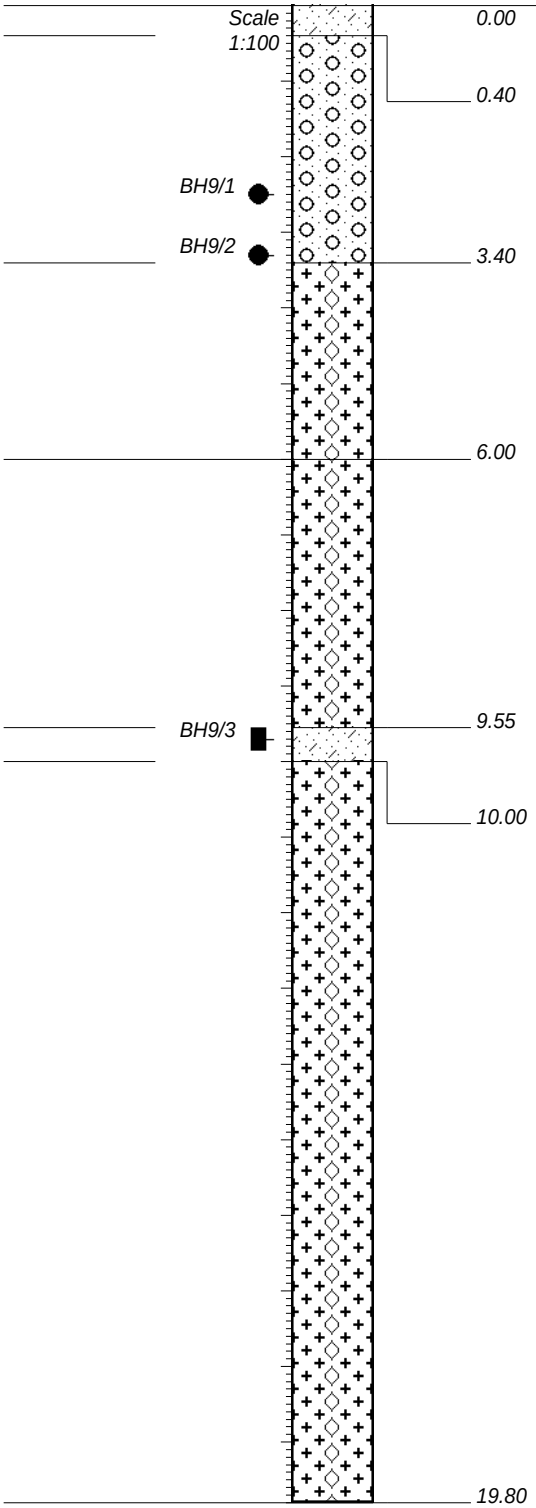
Tel: (011) 519-0200 Fax: (011) 803-1456 email: post@jaws.co.za

Clients name
PROJECT TITLE
Project Title
Project Title

HOLE No: BH 009
Sheet 1 of 1

JOB NUMBER: MANUAL



0.00	Dark brown to black organic clayey sand.	REMARKS: Transported topsoil.
0.40	Mainly yellow-brown coarse sand with sub-angular gravel of quartzite, diabase and granite here and there.	REMARKS: Transported material.
3.40	Moderately weathered light grey to light brown, fine-grained granite.	
6.00	Slightly weathered light grey speckled fine-grained granite. Prominent weathered joint of ± 100mm width at 8,3m depth.	REMARKS: Clayey sand weathering product (100mm).
9.55	Orange-brown clayey sand.	REMARKS: Completely weathered zone.
10.00	Unweathered grey-white granite with joint planes.	
19.80		

CONTRACTOR :
MACHINE : BOYLES BBS 17
DRILLED BY :
PROFILED BY : JKL
TYPE SET BY : R Raubenheimer
SETUP FILE : STANDARD.SET

INCLINATION : 90 deg
DIAM : HMLC 150mm DIAM.
DATE : 25/09 - 29/10/88
DATE : 07/03/90
DATE : 06/11/03 17:10
TEXT : ..C:\XDOTPLOT\EXAMPLES.TXT

ELEVATION : 243,17
X-COORD :
Y-COORD :

HOLE No: BH 009
X:4317,7 Y:-5750,5

HOLE No: BH 009
Sheet 1 of 1

JOB NUMBER: MANUAL

ROCK FABRIC
MF -massive
BF -bedded
FF -foliated
CF -cleaved
SF -schistose
GF -gneissose
LF -laminated

GRAIN SIZE
FG -fine grained
MG -medium grain
CG -coarse grain

JOINT SPACING
VCJ-very close spacg
CJ -close spacing
MJ -medium spacing
WJ -wide spacing
VWJ-very wide spacng

JOINT ROUGHNESS
SLJ-slickensided
SJ -smooth
RJ -rough

JOINT SHAPE
CUR-curvilinear
PLA-planar
UND-undulating
STE-stepped
IRR-irregular

ROCK HARDNESS
EHR-extremely hard rock
VHR-very hard rock
HR -hard rock
MHR-medium hard rock
SR -soft rock
VSR-very soft rock

% MATERL RECO-VERED	% CORE RECO-VERED	% RQD	ROCK FABRIC AND GRAIN	JOINT NO OF SETS	JOINT INCLIN (deg)	JOINT SPACING	JOINT ROUGH-NESS	JOINT FILLING	JOINT FRAC. FREQ.	ROCK HARD-NESS	WEATH-ERING	DEPTH Scale 1:100
100	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
93	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		1
93	0	0										2
100	0	0										3
89	30	0										
92	92	20	MF MG	2	20-30 70-90	CJ -	RJ RJ	Stained Stained	10	SR		4
92												5
99	99	43										6
100	99	69	MF MG	3	20-30 40-60 70-90	MJ MJ -	RJ RJ RJ	Stained Stained Stained	6	MSR		7 8 9
			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		10
95	95	60										11
100	100	88										12 13
			MF MG	2	20-30 40-60	MJ WJ	RJ RJ	- Stained	3	HR		14 15
100	100	83										16 17
99	99	95										18 19

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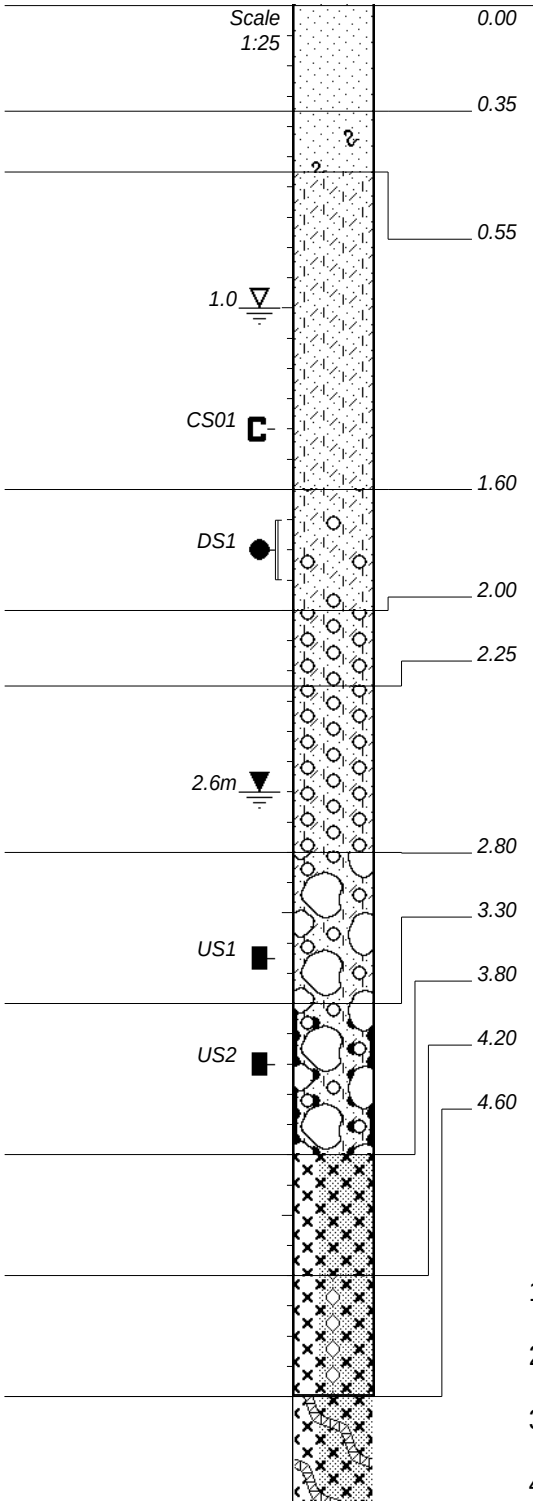
PROGRAM dot.PLOT BH-LOG
DEMONSTRATION OF
COMBINATIONS OF
VARIOUS SYMBOLS

HOLE No: DEM
Sheet 1 of 1

JOB NUMBER: MANUAL



Slightly moist, reddish- brown SAND.

SAND with roots. Text will automatically be justified and word-wrapped; a new line can be forced by using a backslash character
like this.

Clayey silty SAND.

Gravelly clayey silty SAND.

Clayey silty SAND and gravel.

INTERNAL NOTES:
1. Paragraphs in curly brackets {} are indented
   to any desired level of indentation.
2. Characters with special meaning, eg. tilde (~) can be printed by preceding the character with a double quote (").

As above with boulders.

Clayey silty SAND and gravel with boulders and dense ferricrete.

Dark, highly weathered, soft rock DOLERITE.

Dark, unweathered, medium QUARTZ DOLERITE.

Refusal on DOLERITE with quartz veins.

NOTES

1) Water table encountered at 2.6m.

2) Perched water table at 1,0 m.

3) Chemical sample CS01 taken at 1.4 m.

4) Sample US1 (undisturbed) at 3,15m. US2 taken at 3.5 m: numerous samples permitted but only one class per note.

5) Disturbed sample DS1 at 1,7--1,9m.

CONTRACTOR :
MACHINE : BOYLES BBS17
DRILLED BY :
PROFILED BY : NCJ/RIR
TYPE SET BY : R Raubenheimer
SETUP FILE : STANDARD.SET

INCLINATION : Vertical
DIAM : 150 mm
DATE : 24/03/90-26/03/90
DATE : 27/03/90
DATE : 06/11/03 17:11
TEXT : ..C:\XDOTPLOT\EXAMPLES.TXT

ELEVATION : 370.55
X-COORD : 1047,2
Y-COORD : 234,5

HOLE No: DEM

HOLE No: DEM
Sheet 1 of 1

JOB NUMBER: MANUAL

ROCK FABRIC	*GRAIN SIZE*	*JOINT ROUGHNESS*	*ROCK HARDNESS*
MF -massive	*FG -fine grained*	*SLJ-slickensided*	*EHR-extremely hard rock*
BF -bedded	*MG -medium grain*	*SJ -smooth*	*VHR-very hard rock*
FF -foliated	*CG -coarse grain*	*RJ -rough*	*HR -hard rock*
CF -cleaved			*MHR-medium hard rock*
SF -schistose	*JOINT SPACING*	*JOINT SHAPE*	*SR -soft rock*
GF -gneissose	*VCJ-very close spacg*	*CUR-curvilinear*	*VSR-very soft rock*
LF -laminated	*CJ -close spacing*	*PLA-planar*	
	MJ -medium spacing	*UND-undulating*	
	WJ -wide spacing	*STE-stepped*	
	VWJ-very wide spacng	*IRR-irregular*	

DRILLING METHOD	*CASING*	*SPT (No)*	*% CORE RECOVERY*	*% CORE RECOVERY (GRAPH)*	*DEPTH Scale 1:25*
AUGER	141 DIAM CASING	> 35	N/A		1
		> 40 Note use of hard space (^).			2
					3
		93			
	NO CASING		60		4
111 TRIPLE TUBE			95		

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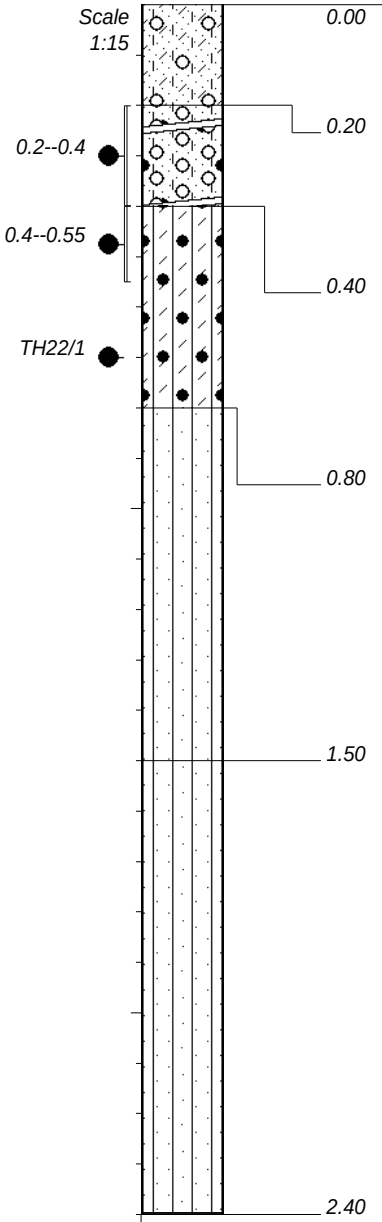
Tel: (011) 519-0200 Fax: (011) 803-1456 email: post@jaws.co.za

DEPARTMENT OF TRANSPORT
KINGDOM OF MINAS TIRITH
ANDIUN BRIDGE

HOLE No: TH 22
Sheet 1 of 1

JOB NUMBER: MANUAL



Relatively closely packed fine gravel (to 20mm) in a matrix of dry to slightly moist, brown, silty/clayey fine sand; hillwash. Overall consistency medium dense.

Closely packed, subangular, mixed gravel to 50mm in a matrix of slightly moist, brown silty fine sand and nodular ferricrete with bands of gravel ; hillwash/alluvium. Overall consistency dense.

Slightly moist, red brown mottled orange brown, medium dense, slightly ferruginised, clayey silt as matrix to relatively closely packed becoming scattered ferricrete nodules; pedogenic/decomposed residual andesite. Bottom of layer varies in depth down to 1,1m.

Slightly moist to moist, light brown, dense, relict jointed sandy silt; highly weathered residual andesite.

Slightly moist to moist, light brown stained orange brown on joints, very dense to very soft rock, relict jointed sandy silt; highly weathered residual andesite.

NOTES

1) No seepage or water table.

2) Backactor near refusal at bottom of hole.

3) Disturbed sample TH22/1 at 0,7m.

4) Bulk samples between 0.2--0.4 and also 0.4--0.55

5) THE FIRST CLEAR LINE in the descriptions is obtained by placing a single BACKSLASH as the first character of the paragraph.

CONTRACTOR :
MACHINE : KATO 850
DRILLED BY :
PROFILED BY : F. Baggins

TYPE SET BY : Bilbo
SETUP FILE : STANDARD.SET

INCLINATION :
DIAM : 1,0m TRENCH
DATE : 24/03/90-26/03/90
DATE : 10/09/89

DATE : 06/11/03 17:11
TEXT : ..C:\XDOTPLOT\EXAMPLES.TXT

ELEVATION :
X-COORD :
Y-COORD :

HOLE No: TH 22

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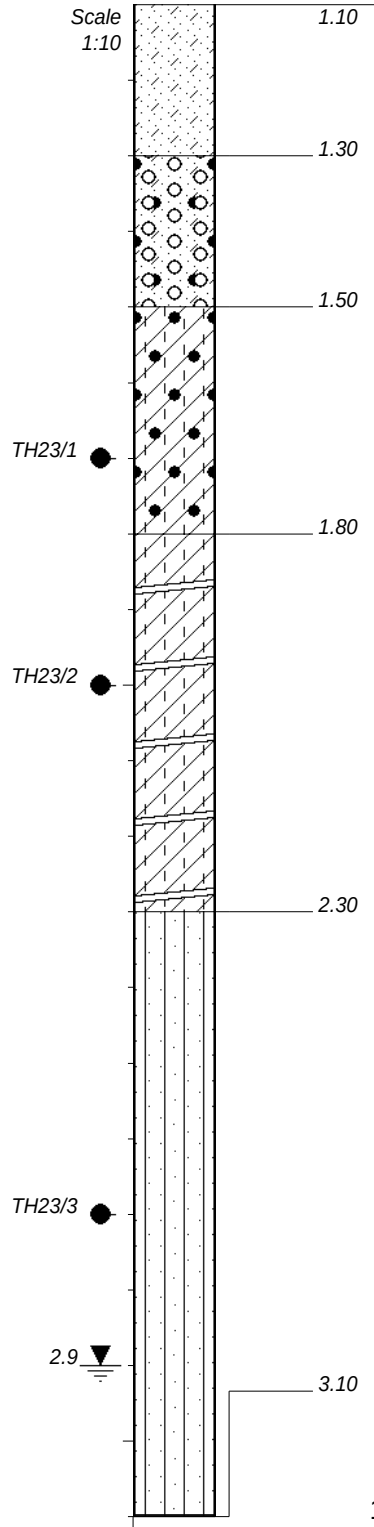
Consulting Civil Engineers
59 Bevan Road PO Box 1434 Rivonia 2128 South Africa
Tel: (011) 519-0200 Fax: (011) 803-1456 email: post@jaws.co.za

DEPARTMENT OF TRANSPORT
KINGDOM OF MINAS TIRITH
ANDIUN BRIDGE

HOLE No: TH 23
Sheet 1 of 1

JOB NUMBER: MANUAL



Slightly moist, brown, medium dense, porous, fissured clayey SAND; transported. Scattered fine gravel.

Closely packed, sub-rounded, mixed GRAVEL to 100mm in a matrix of slightly moist, brown, clayey SAND and nodular ferricrete; alluvium. Overall consistency dense.

Closely packed, FERRICRETE NODULES and occasional sub-angular gravel to 30mm in a matrix of slightly moist red/orange brown, silty CLAY; pedogenic. Overall consistency very dense.

Slightly moist, yellow brown speckled black, stiff, slightly fissured and occasionally slickensided silty CLAY with bands of gravel; decomposed residual andesite. Scattered nodular ferricrete.

Slightly moist, light brownish yellow speckled black, very stiff, relict jointed sandy SILT; highly weathered residual andesite.

NOTES

1) Permanent water table at 2.9 m.

2) Backactor digging with difficulty on above material. Stopped on request.

3) Disturbed samples TH23/1 at 1.7; TH23/2 at 2.0; TH23/3 at 2.7.

CONTRACTOR :
MACHINE : KATO 850
DRILLED BY :
PROFILED BY : A. NEUMAN
TYPE SET BY : Bilbo
SETUP FILE : STANDARD.SET

INCLINATION :
DIAM : 1,0m TRENCH
DATE : 24/03/90-26/03/90
DATE : 31/08/89
DATE : 06/11/03 17:11
TEXT : ..C:\XDOTPLOT\EXAMPLES.TXT

ELEVATION :
X-COORD :
Y-COORD :

HOLE No: TH 23

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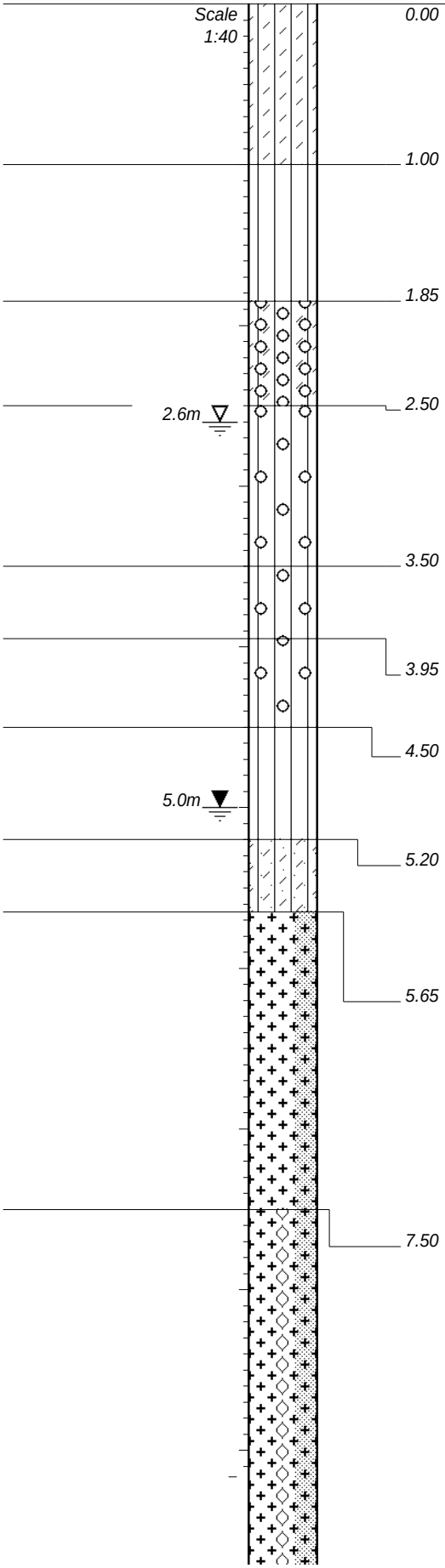
59 Bevan Road PO Box 1434 Rivonia 2128 South Africa
Tel: (011) 519-0200 Fax: (011) 803-1456 email: post@jaws.co.za

PROGRAM dot.PLOT BH
BOREHOLE LOG
DEMONSTRATION

HOLE No: BH3LOG
Sheet 1 of 2

JOB NUMBER: MANUAL



0.00 – 1.00: Moist,dark to dusky red, clayey SILT. Filling from residual andesite.

1.00 – 1.85: Moist, dark red, possibly firm, SILT with concrete / mortar fragments; Filling.

1.85 – 2.50: Moist, dark red, olive and grey, very loose (soft), clayey SILT, ash and gravels. Filling.

2.50 – 3.50: Dry to slightly moist, dark red, possibly firm to stiff, slightly fissured (surfaces stained yellowish orange) SILT with occasional quartz gravel. Possibly filling from residual andesite.

3.50 – 3.95: As above but loose (soft) with yellow and grey sandy and gravel pockets. Filling.

3.95 – 4.50: As above.

4.50 – 5.20: Slightly moist, dark reddish orange to dark red, possibly firm to stiff, fissured (surfaces stained yellowish orange) SILT. Residual andesite.

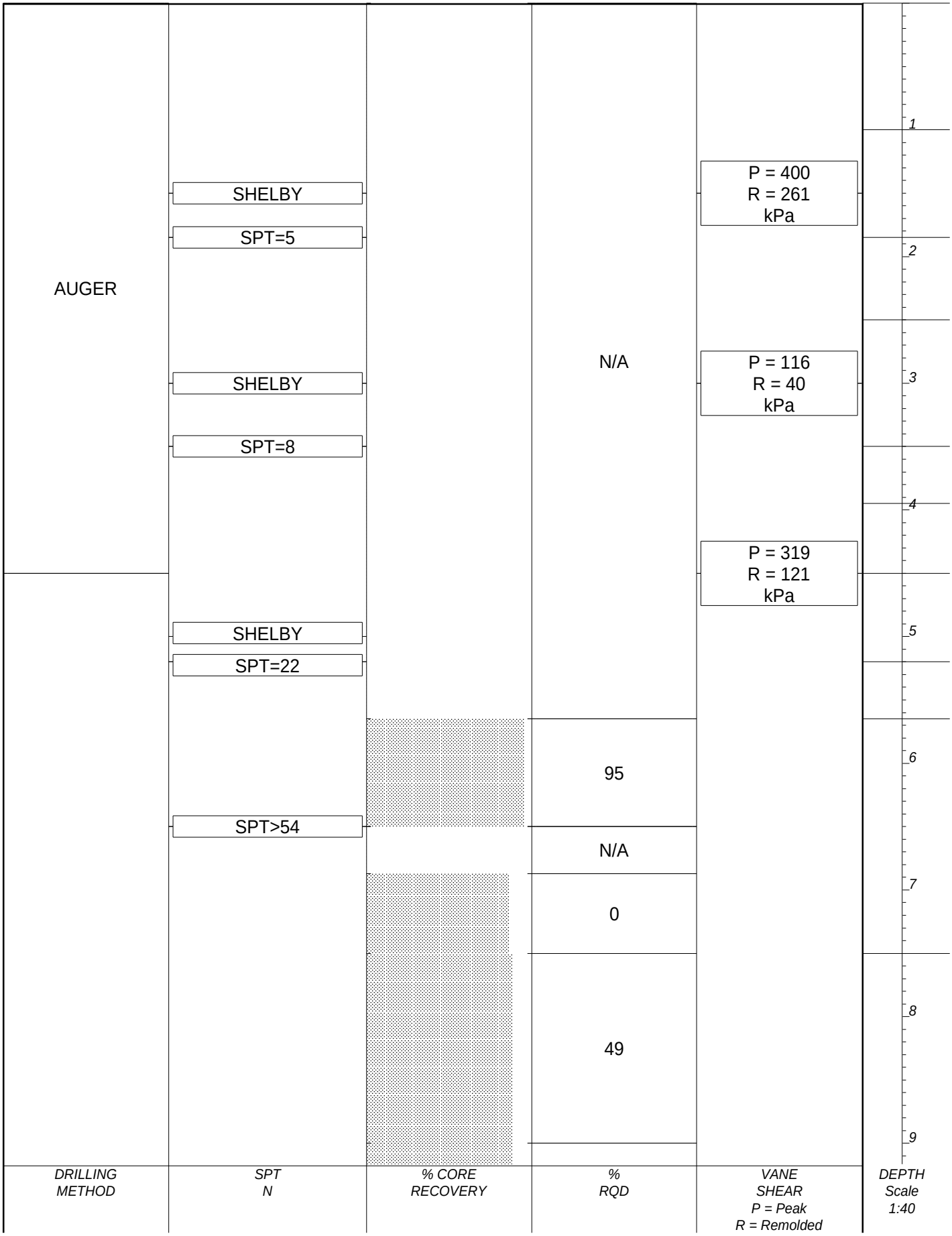
5.20 – 5.65: Moist, dusky red to dark red blotched yellow / orange, firm to stiff, sheared fissured (stained black) clayey SILT with slightly sandy layers. Residual diorite.

5.65 – 7.50: As above, possibly firm to stiff, very sheared, merging into dark yellowish olive, red, slightly to moderately weathered, highly sheared, steeply jointed, very soft to soft rock DIORITE.
Fractures:
narrow, filled and stained black, slickensided, steeply dipping.
Filling:
thin red clayey silt.

7.50 – : As above: soft rock QUARTZ DIORITE Fractures:
near - vertical and near - horizontal joints.

HOLE No: BH3LOG
Sheet 1 of 2

JOB NUMBER: MANUAL



DRILLING METHOD	*SPT N*	*% CORE RECOVERY*	*% RQD*	*VANE SHEAR P = Peak R = Remolded*	*DEPTH Scale 1:40*

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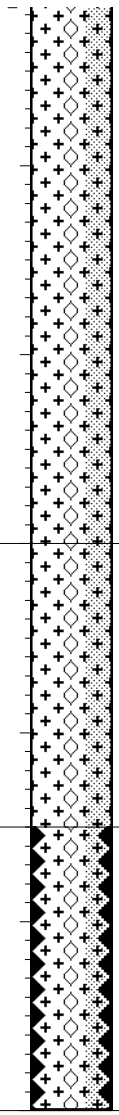
PROGRAM dot.PLOT BH
BOREHOLE LOG
DEMONSTRATION

HOLE No: BH3LOG
Sheet 2 of 2

JOB NUMBER: MANUAL



12.00

As above.

13.50

QUARTZ DIORITE BRECCIA.
Fractures: closely jointed and fragmented.

15.00

NOTES

1) Seepage from perched water table at 2.6m.

2) Water table at 5,0m.

3) Cores retained in 1 corebox and 19 waxed tubes.

CONTRACTOR :
MACHINE : BOYLES BBS 17
DRILLED BY :
PROFILED BY : A Geologist
TYPE SET BY : Bilbo
SETUP FILE : STANDARD.SET

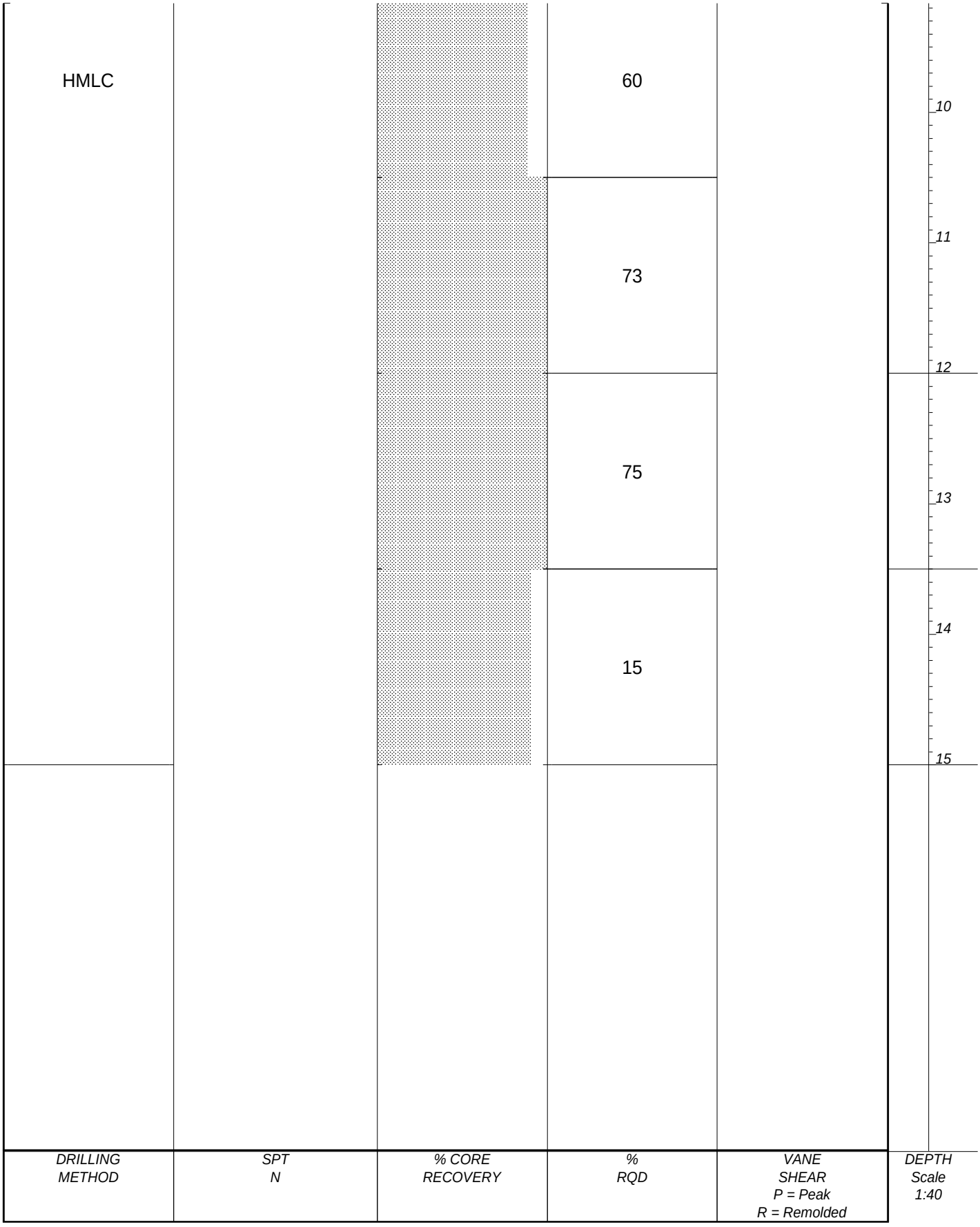
INCLINATION : Vertical
DIAM : HMLC 150mm DIAM.
DATE : 20/02/90-22/02/90
DATE : 07/03/90
DATE : 06/11/03 17:11
TEXT : ..C:\XDOTPLOT\EXAMPLES.TXT

ELEVATION :
X-COORD :
Y-COORD :

HOLE No: BH3LOG

HOLE No: BH3LOG
Sheet 2 of 2

JOB NUMBER: MANUAL



DRILLING METHOD	*SPT N*	*% CORE RECOVERY*	*% RQD*	*VANE SHEAR P = Peak R = Remolded*	*DEPTH Scale 1:40*