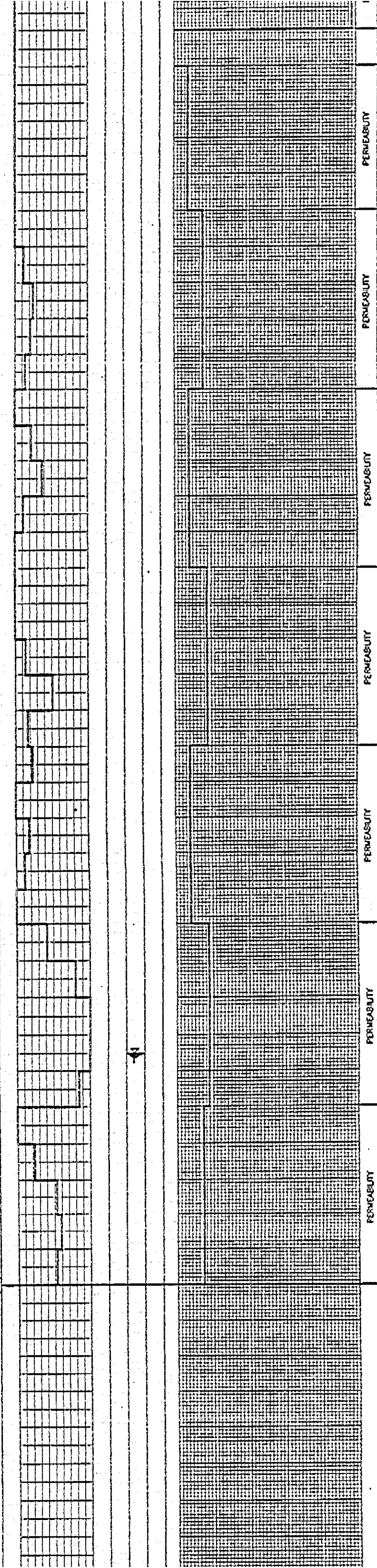
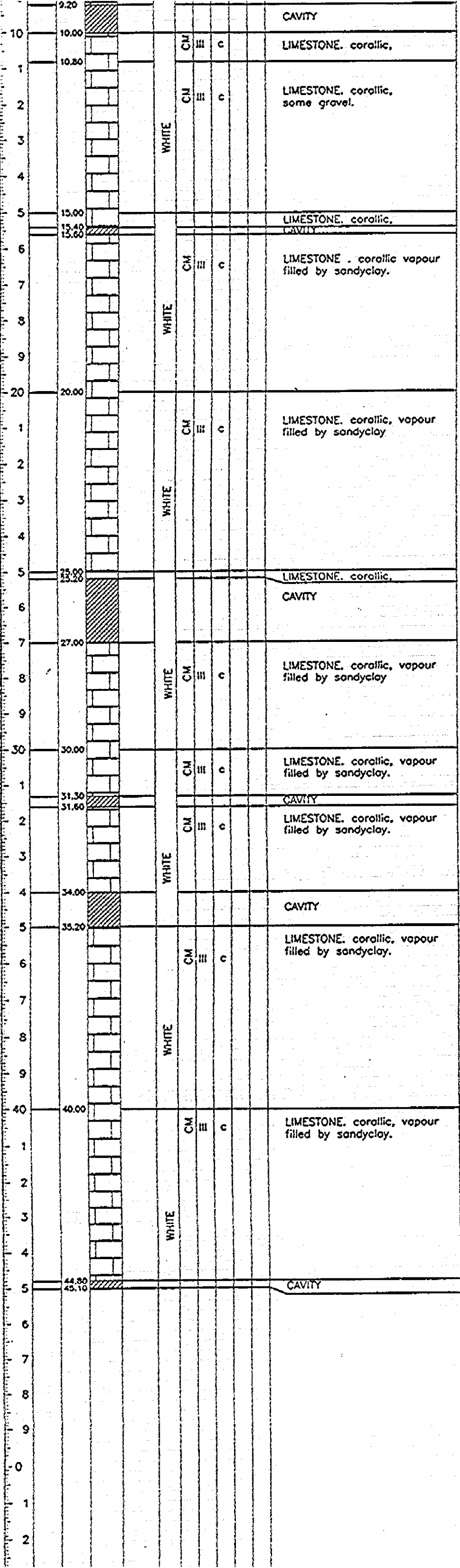


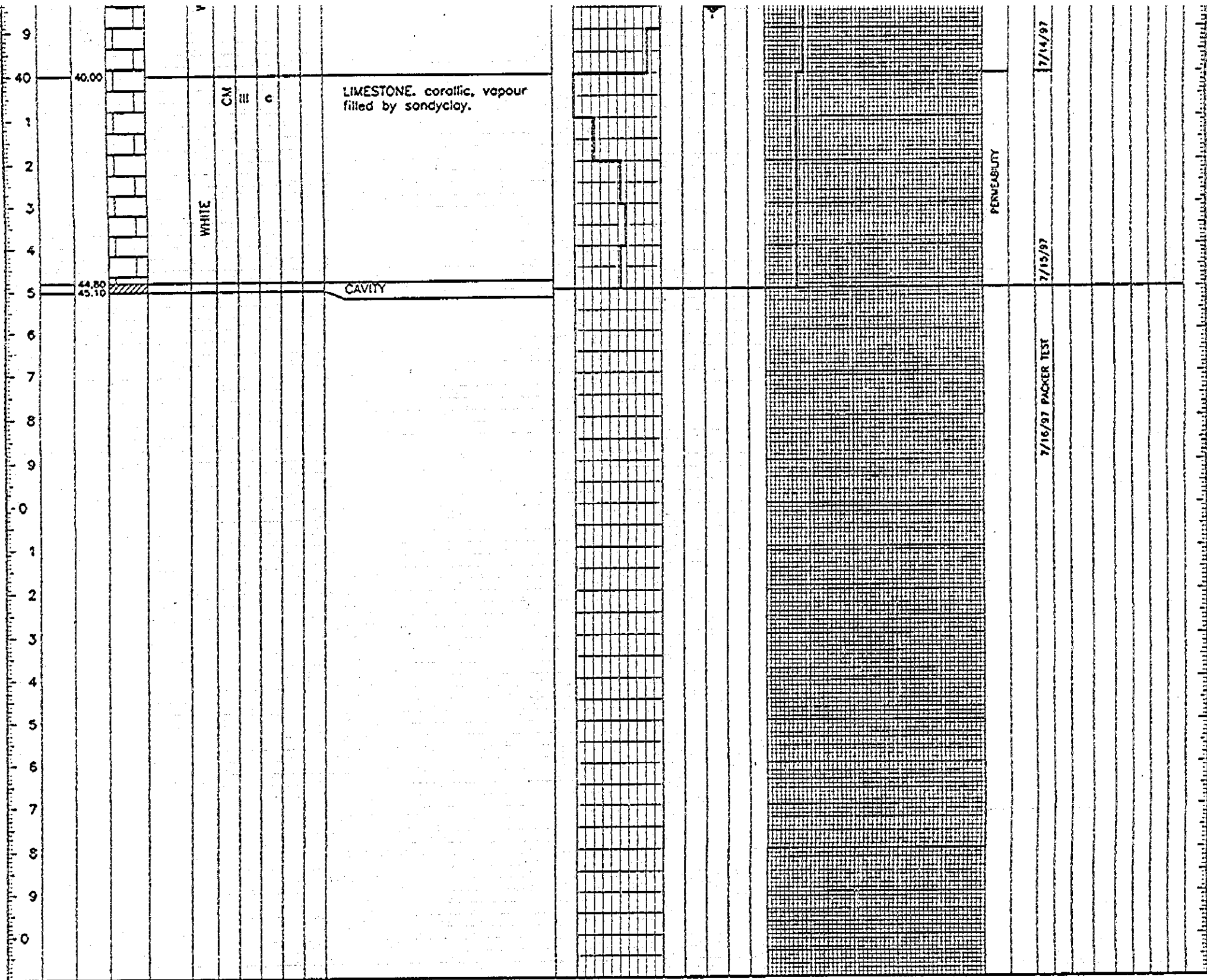
APPENDIX 4

Borehole Log along River Course (S.P.T)



Date	Time
7/5/97	
7/6/97	
7/7/97	
7/8/97	
7/9/97	
7/11/97	
7/12/97	
7/13/97	
7/14/97	
7/15/97	
7/16/97	PACKER TEST

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FAULT, FRACTURED ZONE, ALTERATION ZONE.

BRECCIA SAND AND PEBBLE HEARING CLAY CLAY

HARDNESS

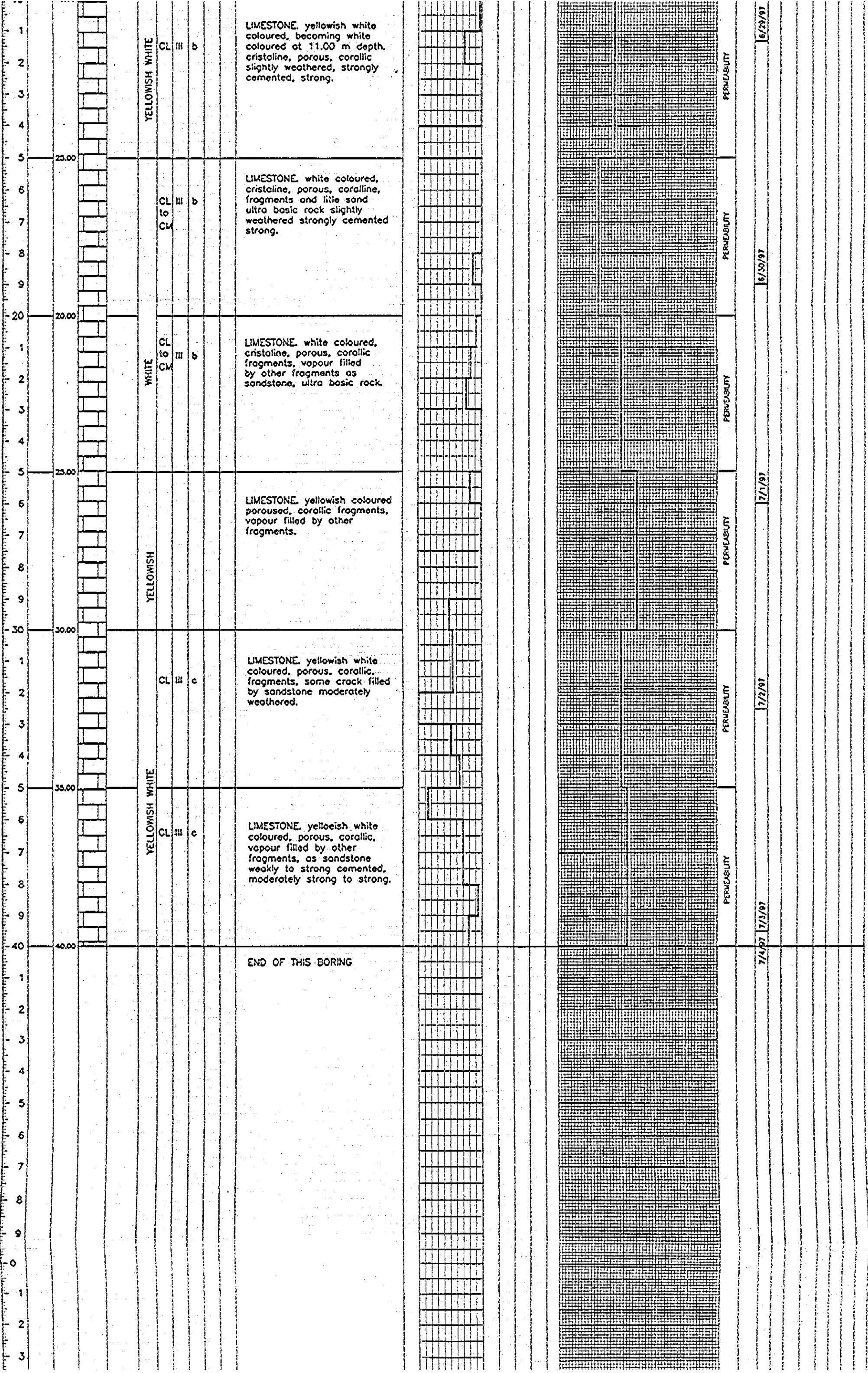
NO.	REMARK
A	VERY HARD
B	HARD
C	MED. HARD
D	SOFT
E	FERY SOFT

CORE SHAPE

NO.	REMARK	REMARK
I		MORE THAN 50 cm
II		15 - 50 cm
III		5 - 15 cm
IV		LESS THAN 5 cm
V		BRECCIA
VI		SAND
VII		CLAY
VIII		

CRACK CONDITION

NO.	REMARK
a	CONTACT
b	A LITTLE WEATHERED
c	WEATHERED
d	BRECCIA, SAND, CLAY



6/29/97

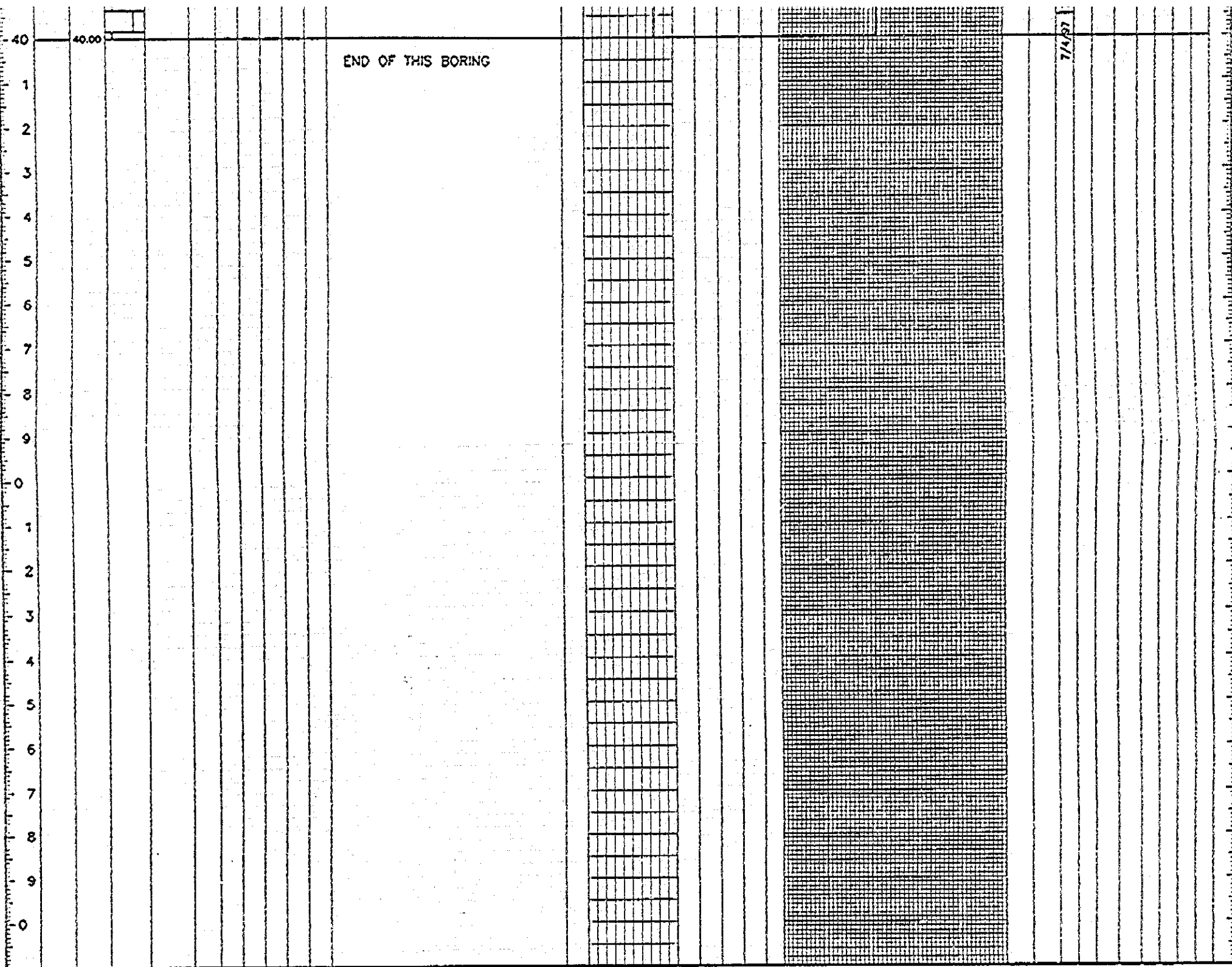
6/30/97

7/1/97

7/2/97

7/3/97

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FAULT, FRACTURED ZONE, ALTERATION ZONE.

BRECCIA SAND AND PEBBLE
HEARING CLAY CLAY

HARDNESS

NO.	REMARK
A	VERY HARD
B	HARD
C	MED. HARD
D	SOFT
E	FERY SOFT

CORE SHAPE

NO.	REMARK	REMARK
I		MORE THAN 50 cm
II		15 - 50 cm
III		5 - 15 cm
IV		LESS THAN 5 cm
V		BRECCIA
VI		SAND
VII		CLAY
VIII		

CRACK CONDITION

NO.	REMARK
a	CONTACT
b	A LITTLE WEATHERED
c	WEATHERED
d	BRECCIA, SAND, CLAY

moderately weathered,
weakly to moderately strong.

10.00
15.00
20.00
25.00
30.00
35.00
40.00



CM V c

CM V c

CM V c

CM V c

B V c

B V c

-ditto-

SANSTONE, light gray
coloured, fine gravel-sand,
moderately cemented,
moderately strong core
broken due the drilling,
(with single core barrel).

-ditto-

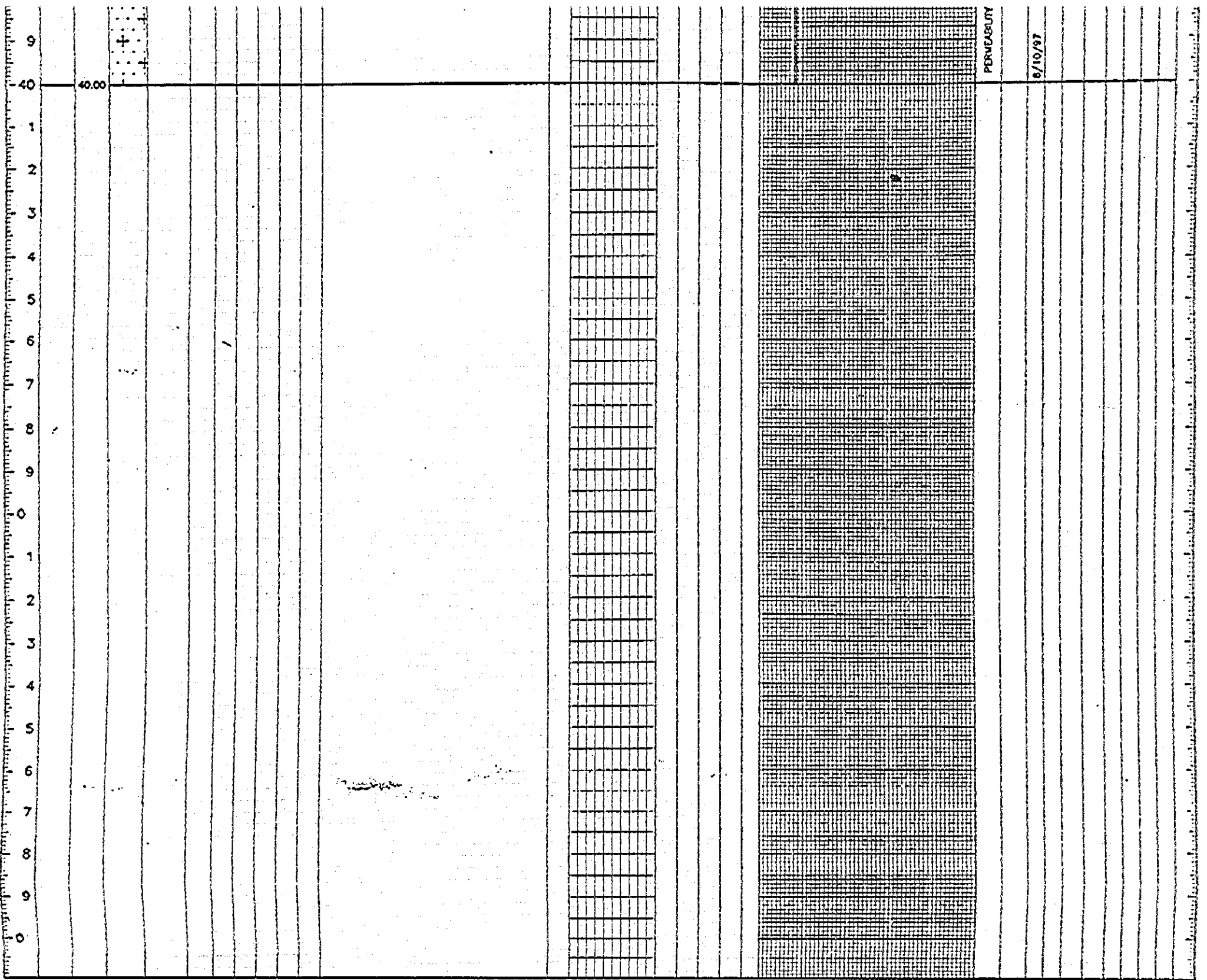
-ditto-

-ditto-

-ditto-

PERMEABILITY NOT SUCCESS
PERMEABILITY NOT SUCCESS
PERMEABILITY
PERMEABILITY
PERMEABILITY
PERMEABILITY

5/10/97











FAULT, FRACTURED ZONE, ALTERATION ZONE.

BRECCIA  SAND AND PEBBLE HEARING CLAY  CLAY 

HARDNESS

NO.	REMARK
A	VERY HARD
B	HARD
C	MED. HARD
D	SOFT
E	VERY SOFT

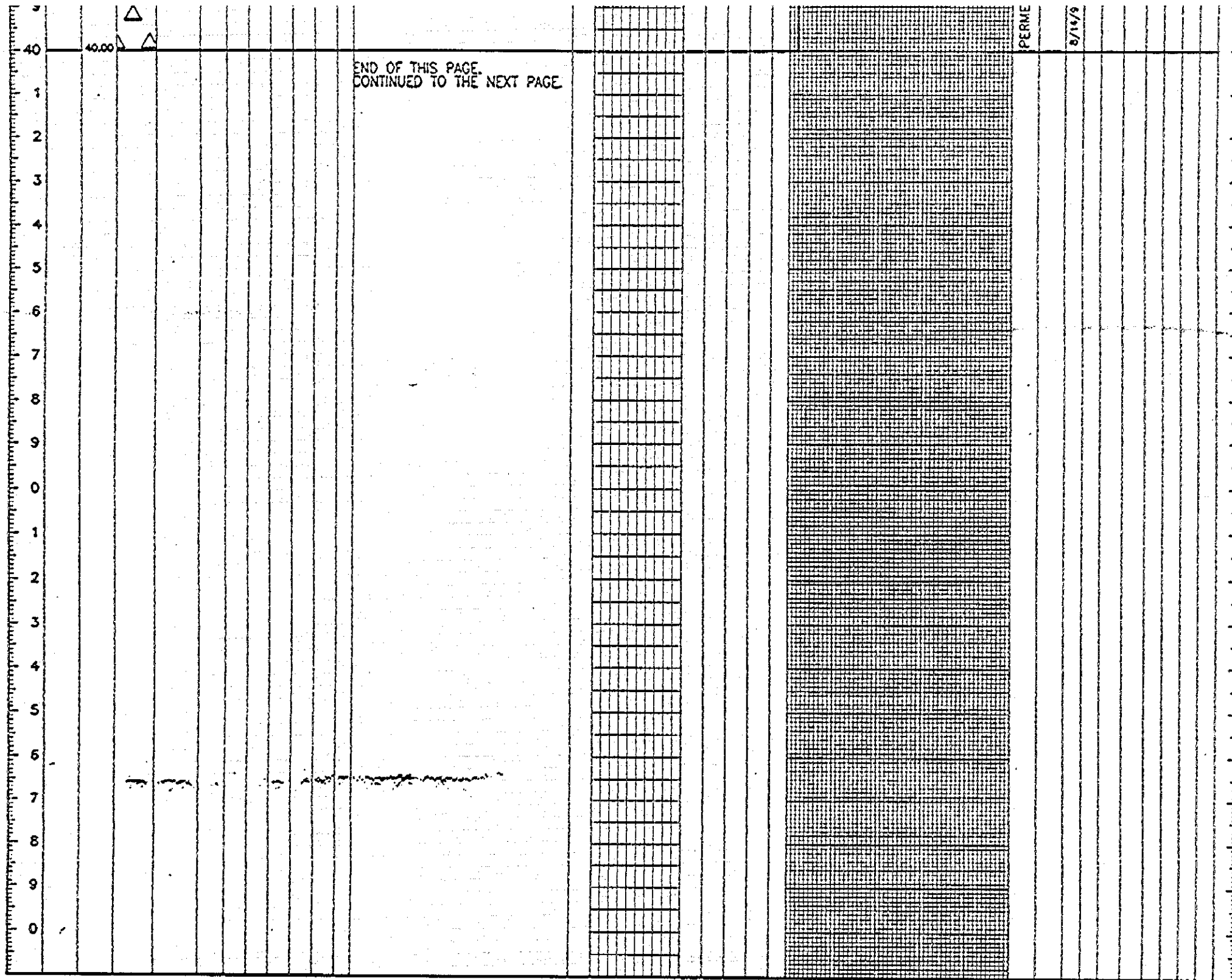
CORE SHAPE

NO.	REMARK	REMARK
I		MORE THAN 50 cm
II		15 - 50 cm
III		5 - 15 cm
IV		LESS THAN 5 cm
V		BRECCIA
VI		SAND
VII		CLAY
VIII		



CRACK CONDITION

NO.	REMARK
a	CONTACT
b	A LITTLE WEATHERED
c	WEATHERED
d	BRECCIA, SAND, CLAY

Depth (m)	Interval (m)	Notes	PERMEABILITY	Date
10.00	10.00 - 15.00	BRECCIA, brownish grey coloured, Grain supported fine sand as matrix. Sandstone and shale as kanikeh F as fragments moderately weathered strong.		8/7/97
15.00	15.00 - 20.00	BRECCIA, yellowish brown coloured, silt and sand as matrix, shale from kanikeh F as fragments highly weathered to completely weathered weak to moderately strong.		8/8/97
20.00	20.00 - 25.00	BRECCIA, brownish gray coloured, silt and sand as matrix, shale and sandstone as fragments, fault breccia found at 20.32-20.48, 23.00-23.20 depth filled by sandy clay moderately weathered.		8/10/97
25.00	25.00 - 30.00	BRECCIA, brownish gray coloured, silt and fine sand as matrix, sandstone and shale (kanikeh formation) as fragments fault breccia at 25.90-26.00, 29.70-29.80 core lost at 28.46-28.72.		8/11/97
30.00	30.00 - 35.00	BRECCIA, blackish gray coloured, fine sand, calcite as matrix, sandstone and shale as fragment moderately strong to strong. fault breccia found at : 30.60-30.75, 21.50-31.68 32.30-32.55, 33.42-33.4.		8/12/97
35.00	35.00 - 40.00	BRECCIA, dark gray coloured sand, fine to medium grained as matrix, at 35.00-38.90 sandstone and shale as fragments at 38.90-40.00.		8/13/97
40.00	40.00 - 40.00	END OF THIS PAGE. CONTINUED TO THE NEXT PAGE.		8/14/97



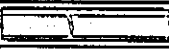
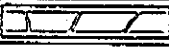


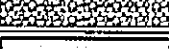

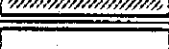
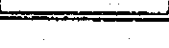
FAULT, FRACTURED ZONE, ALTERATION ZONE.

BRECCIA  SAND AND PEBBLE HEARING CLAY  CLAY 

HARDNESS

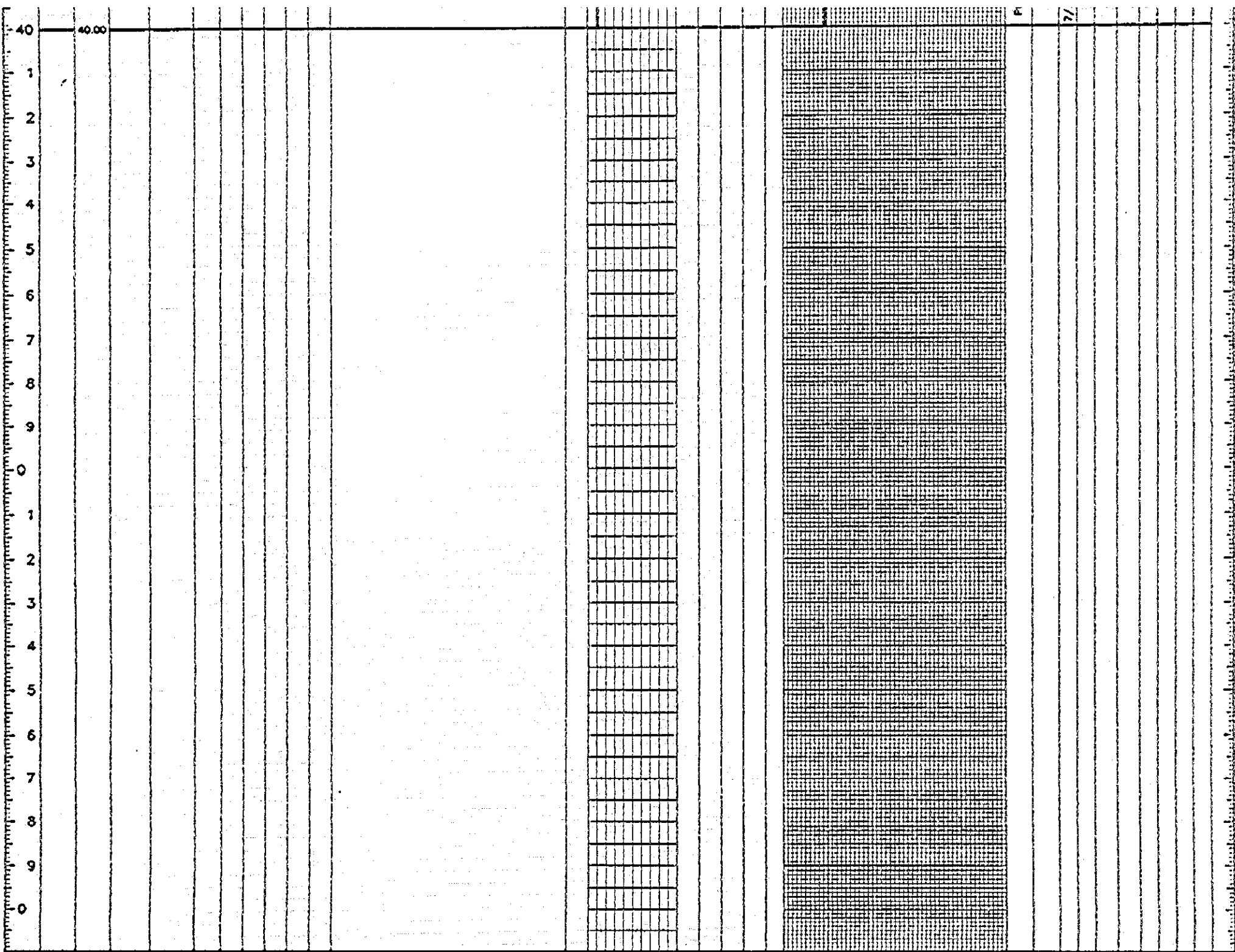
NO.	REMARK
A	VERY HARD
B	HARD
C	MED. HARD
D	SOFT
E	FERY SOFT

CORE SHAPE

NO.	REMARK	REMARK
I		MORE THAN 50 cm
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VI		SAND
VII		CLAY
VIII		

CRACK CONDITION

NO.	REMARK
a	CONTACT
b	A LITTLE WEATHERED
c	WEATHERED
d	BRECCIA, SAND, CLAY



FAULT, FRACTURED ZONE, ALTERATION ZONE.

BRECCIA SAND AND PEBBLE HEARING CLAY CLAY

HARDNESS

NO.	REMARK
A	VERY HARD
B	HARD
C	MED. HARD
D	SOFT
E	FERY SOFT

CORE SHAPE

NO.	REMARK	REMARK
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CRACK CONDITION

NO.	REMARK
a	CONTACT
b	A LITLE WEATHERED
c	WEATHERED
d	BRECCIA, SAND, CLAY