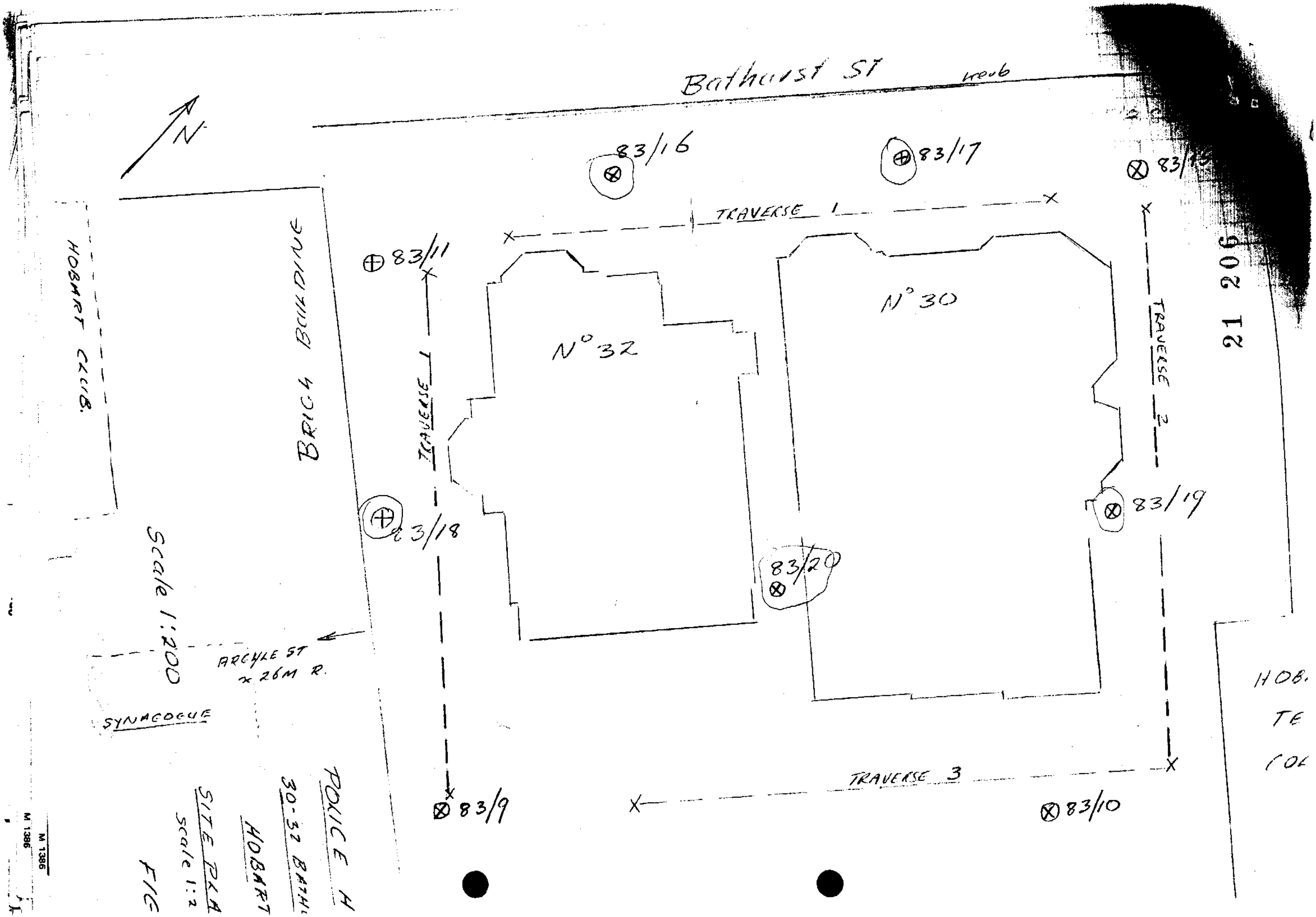

21 206
Bathurst St
N
83/16
83/17
TRAVERSE 1
83/11
N° 32
N° 30
TRAVERSE 2
BRICK BUILDING
HOBART CLUB.
83/18
83/19
83/20
Scale 1:200
ARGYLE ST
x 26M R.
SYNAGOGUE
TRAVERSE 3
83/9
83/10
POLICE H
30-32 BATH
HOBART
SITE PLA
scale 1:2
FIG
M 1386

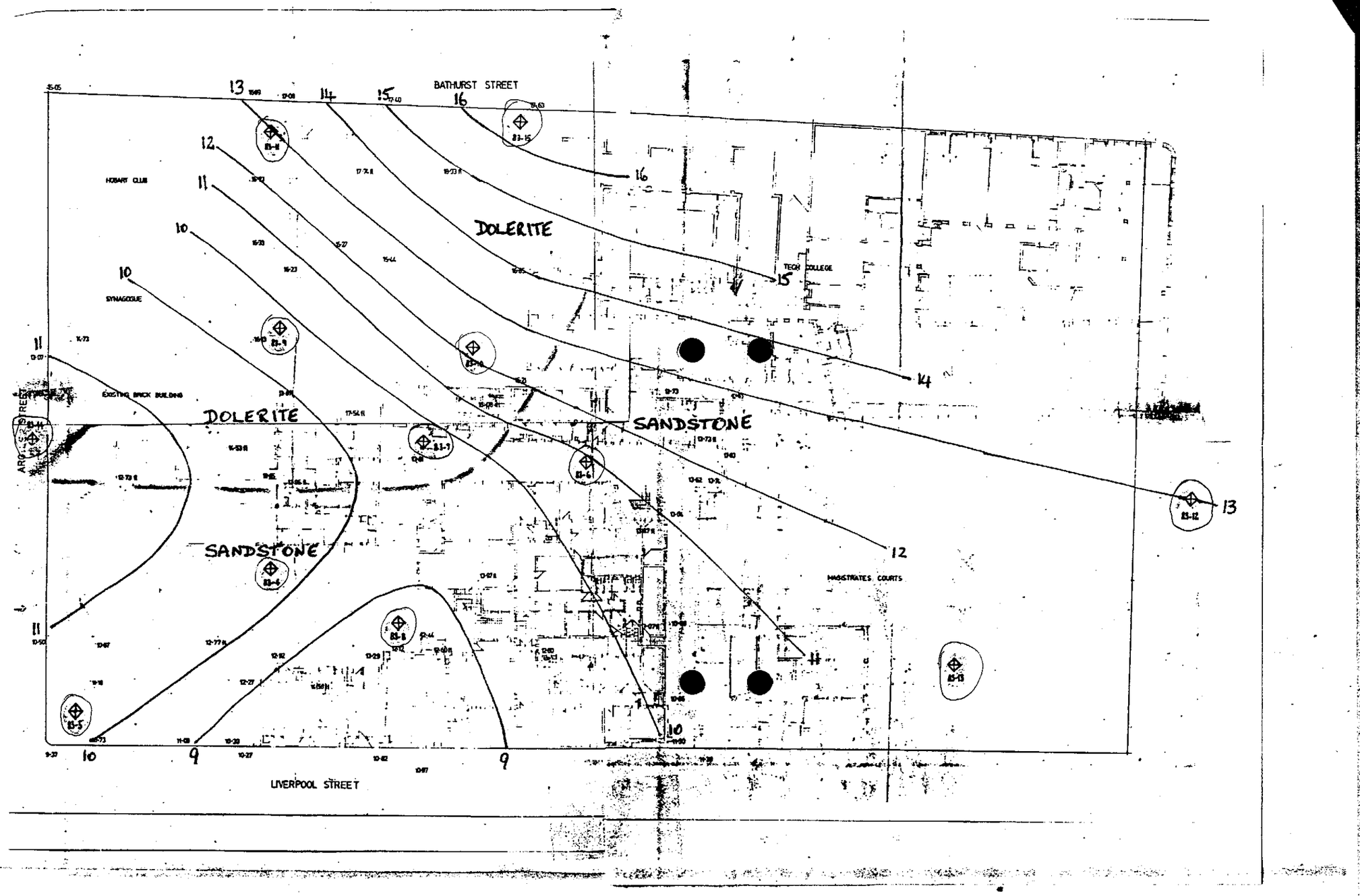

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
C casing
M mud

penetration
1 2 3 no resistance ranging to refusal

U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test:figure = result
N* – SPT + sample

based on unified classification system

moisture
D – dry
M – moist
W – wet

S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense

Engineering log – borehole

REF NO 18307 ACC 1
QUAD 82 PUR 0
MAP SHEET 83188 E = 526685
N = 5252340

borehole no: 83-18
sheet 1 of 2

file: 04-053

project: HOBART NEW POLICE HEADQUARTERS 30-32 BATHURST STREET
borehole location: AS PER PLAN

hole commenced: 8/12/83
hole completed: 8/12/83
supervised by: N. JOHNSON
log checked by: R.R

drill model and mounting: GEMCO 4 TRAILER
hole diameter: 110 mm
slope: VERT deg.
bearing: deg.
R.L. surface: 16.27 m
datum:
operator: G. BAKER

method	penetration 1 2 3	support	water	notes samples, tests, etc.	R.L. depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetrometer 100 200 300 400 kPa	structure and additional observations
AUGER SCREWING					0.0			SANDY LOAM, with brick fragments	M	L		FILL?
				U75	1		SC	SANDY CLAY:- medium plasticity, grey brown	M	St	x	roof fibres
				U75 N*=17 11,9,8	1.3 2			CLAYEY SAND:- fine, grey: orange, low plasticity fines	M			
				U75	3			CLAY:- high plasticity grey, with fine sand in 30-50mm fissures	M	H	x y	
				U75 N*=29 10,15,16	4			as above				
				N*=16 7,7,9	5			SANDY CLAY:- medium plasticity, grey brown mottled, fine sand	M	H		
				9/12/83 N*=34 20,5,9				GRAVELLY CLAY:- contains dolerite hornsfel & ironstone pebbles	M	H		probably transported materials
				N*=>60	6.0 6			GRAVELLY CLAY:- high plasticity brown, veins of whitish clay 10-20% medium gravel	M	H		—?—?—?—?—? insitu weathered dolerite?
					7			Continued as cored borehole on Sheet 2				
					8							

key

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
B – blank bit
V – "V" bit
T – TC bit
e.g. ADT

support
C casing
M mud

penetration
1 2 3 no resistance ranging to refusal

water
10 Oct, 73 water level on date shown
water inflow
water outflow

notes – samples and tests
U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test: figure = result
N* – SPT + sample
Nc – cone penetrometer

classification symbols and soil description
based on unified classification system

moisture
D – dry
M – moist
W – wet

consistency/relative density
VS – very soft
S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense
D – dense
VD – very dense

M 1698

21 234

M 1386

PUBLIC WORKS (TAS.)
RESEARCH DIVISION

engineering log — cored borehole

M & R F8

borehole no: 83-18

sheet 2 of 2

File No. 04·053

NEW POLICE HEADQUARTERS
30-32 BATHURST STREET

project: HOBART

borehole location: AS PER PLAN

hole commenced: 8/12/83

hole completed: 8/12/83

supervised by: N JOHNSON

log checked by: R R.

drill model and mounting: GEMCO + TRAILER slope: VERT deg.

barrel type and length: NQTT 2·45 fluid H_2O bearing: deg.

R. L. surface: 16·27 m

datum:

Driller G. BAKER

drilling information					rock substance				rock mass defects	
method	case-lift	water		depth R.L. metres	graphic log / core loss	substance description (rock type: grain characteristics, colour, structure, minor components.)	weathering	strength Is(50) EL VL L M H VH EH	defect spacing mm 30 100 300 1000 3000 >3000	defect description (thickness, type, inclination, planarity, roughness, coating.) particular / general
NQTT						DOLERITE:- fine grained grey/blue	MW			
			SPT N*=39 (21,33,6)	8·0		CLAYEY GRAVEL:- fine to coarse angular gravel with clay fines of medium to high plasticity	EW to MW			
			SPT N=46 (17,22,24)	9·0						
R			SPT N=55 (15,3',24)	10·0						
			SPT, N>60 (No penetration)	11·0						
NQTT				12·0		DOLERITE:- fine grained grey				
				14·0		End of borehole 12·65 m				

Highly fractured, variably weathered dolerite

21 235

key

method
- AS auger screwing
- AD auger drilling
- R roller/tricone
- W washbore
- NMLC NMLC core drilling

case-lift
- casing used
- barrel withdrawn

water
- 10 Oct, 73 water level date shown
- water inflow
- partial drilling water loss
- complete drilling water loss

graphic log/core loss
- core recovered (hatching indicates material)
- no core recovered

weathering
- Fr — fresh
- SW — slightly weathered
- MW — moderately weathered
- HW — highly weathered
- EW — extremely weathered

strength (indirect tensile strength)
- EL — extremely low
- VL — very low
- L — low
- M — medium
- H — high
- VH — very high
- EH — extremely high

M 1386