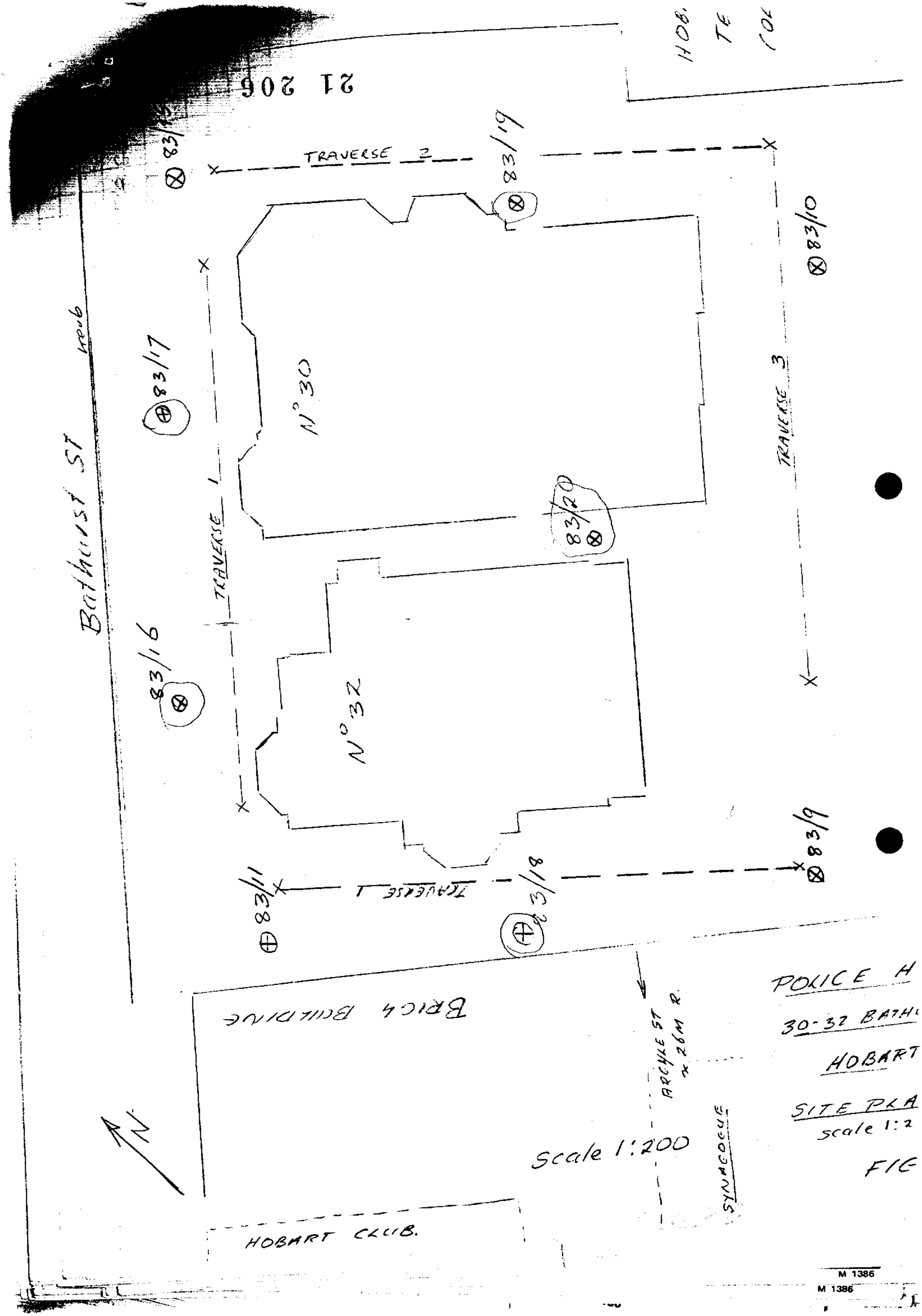
21 206
Bathurst St
kerb
TRAVERSE 1
TRAVERSE 2
TRAVERSE 3
83/9
83/10
83/11
83/16
83/17
83/18
83/19
83/20
N°30
N°32
BRICK BUILDING
HOBART CLUB.
SYNAGOGUE
ARGYLE ST
x 26M R.
N
Scale 1:200
POLICE H
30-32 BATH
HOBART
SITE PLA
scale 1:2
FIG
M 1386

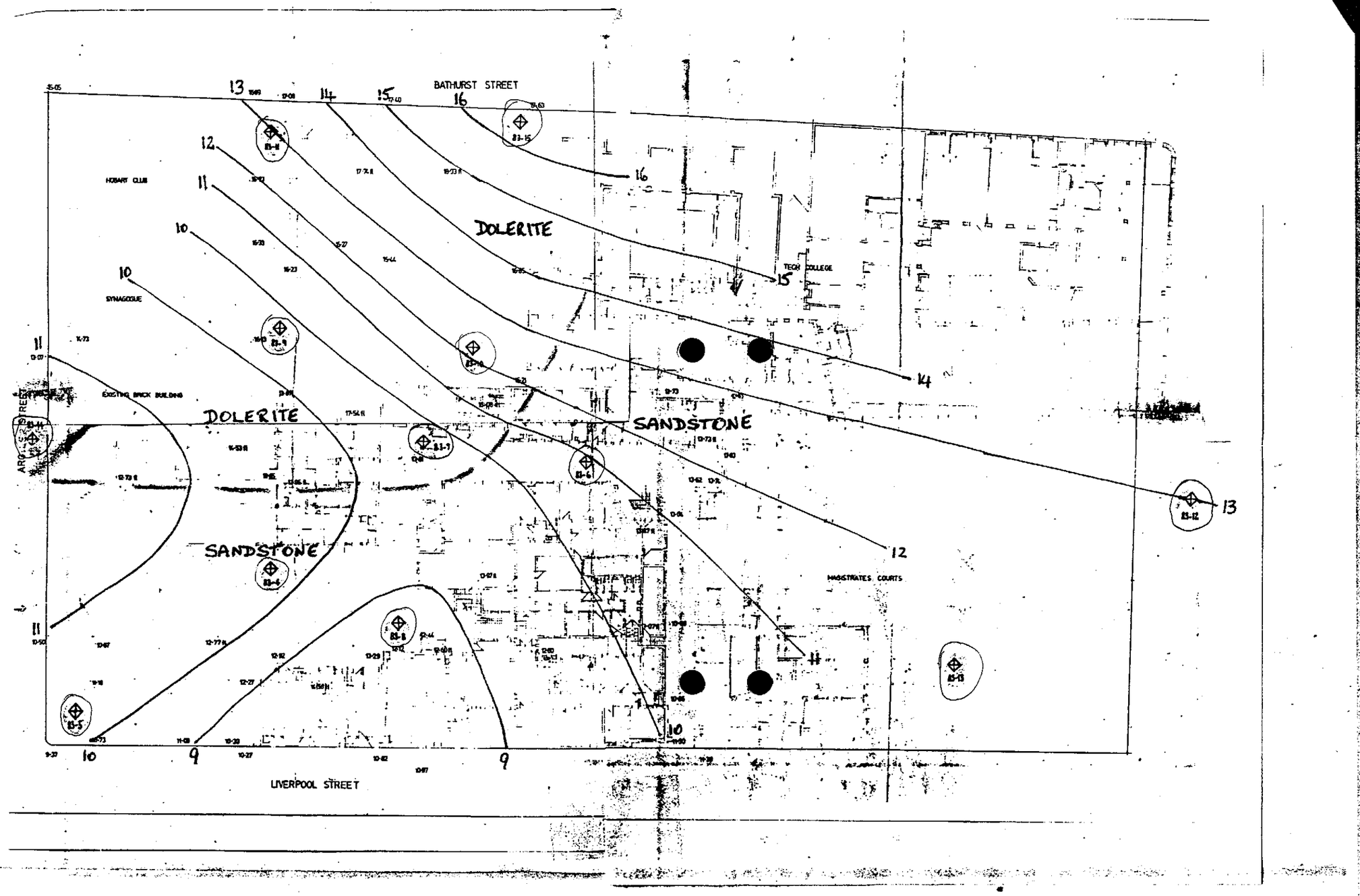

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

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

[...]TMENT OF MAIN [...]RIALS AND RESEARCH DIVISION

engineering log — cored borehole

REF NO 18294
QUAD 82
MAP SHEET 83122

AC PUR 1 = 0
E526705
N5252280

File No.

borehole no. 83-5
sheet 1 of 2

project: NEW POLICE HEADQUARTERS HOBART
borehole location: AS PER PLAN

hole commenced: 1-6-83
hole completed: 1-6-83
supervised by: T. SWANTON
log checked by: B. WELDON

drill model and mounting: GEMCO (trailer) slope: Vert deg.
barrel type and length: NQTT 1.5m fluid H_2O bearing: — deg.
R. L. surface: ≈ 11.1 m
datum:
Driller G. BAKER

drilling information / rock substance / rock mass defects

method	case-lift	water		R.L. depth metres	substance description (rock type: grain characteristics, colour, structure, minor components)	weathering	defect description (particular)
AS				0	LANDFILL: gravel and clay		Water levels: Date / Depth: 3-6 2.8m; 6-6 2.8; 7-6 2.7; 8-6 2.7; 9-6 2.4; 14-6 2.75; 17-6 2.85
			N* > 50 (9,14,–)	0.85	SILTSTONE: yellow, low plasticity, clay pellets, friable		
	H			1.15	SANDSTONE: orange: fine to medium grained	MW, SW	
				2			60-70° joint clean
	H	▼ 2.6		2.48			
				3		MW	45-60° joint
					CORE LOSS		
NQTT					SANDSTONE: as above	SW	slickensides
					CLAY seam 40mm thick, slickensided; joint infilling?; iron staining	HW	
	H			3.97 / 4	SANDSTONE: orange-grey fine grained	SW	45° joint
						MW	
				5	brown	SW	
	H			5.48	medium grained		
					fine grained		
				6		MW	broken joints 45-60°
	H			6.76		SW	
				7	medium grained	MW, SW	
					grey fine grained		
				8			

Strength Is (50) / defect spacing: N. A. (0–1.15 m)

General defect description: Most defects are bedding plane partings, micaceous, subhorizontal 0-20°, usually rough surfaces

21 269

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

DEPARTMENT OF MAIN ROADS (TAS.)
MATERIALS AND RESEARCH DIVISION

83-5
sheet 2 of 2

engineering log — cored borehole

File No.

project: NEW POLICE HEADQUARTERS
borehole location: HOBART AS PER PLAN

hole commenced: 1-6-83
hole completed: 1-6-83
supervised by: T. SWANTON
log checked by: B. WELDON

drill model and mounting: GEMCO (trailer) slope: Vert deg.
barrel type and length: NQTT 1.5m fluid H_2O bearing: — deg.

R. L. surface: ~11.1 m
datum:
Driller G. BAKER

drilling information				rock substance			rock mass defects		
method	case-lift	water	R.L. depth 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 60 200 600 2000 >3000	defect description: thickness, type, inclination, planarity, roughness, coating. particular / general
NQTT			8		SANDSTONE: as above, fine	SW			
			8.28		END OF BOREHOLE 83-5 at 8.28m depth				
			9						

key

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

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M

21 210